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A GUIDE TO EXPERIMENTAL PARTICLE PHYSICS LITERATURE 1994–1998

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Abstract

This is an indexed guide to experimental particle physics literature for the years 1994–1998. About 4100 papers are indexed by Beam/Target/Momentum, Reaction/Momentum/Data-Descriptor, Particle/Decay, Accelerator/Experiment/Detector. All indices are cross-referenced to the paper's title and reference in an ID/Reference/Title index. The information is also available on a regularly updated DATAGUIDE database from the World Wide Web `http://wwwppds.ihep.su:8001/ppds.html`.

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1. Overview

This report is a guide to experimental particle physics papers containing new experimental data published or preprinted during the years 1994–1998. Earlier papers may be found in our previous editions.[1] No actual data are presented in this report. The report is based on the *DATAGUIDE* database, maintained by the COMPAS Group at IHEP Protvino using the BDMS system under OpenVMS. The database is accessible from the World Wide Web:

`http://wwwppds.ihep.su:8001/ppds.html`.

In this Introduction, Sec. 2 discusses the scope of this compilation and its sources of information. Sec. 3 tells how to use this book. Sec. 4 describes publicly-accessible Particle Physics Data System databases. Sec. 5 tells how to access those databases, including the *DATAGUIDE* database on which this book is based.

The body of this report contains five Indices followed by four Vocabularies. In the Indices, papers are referenced by an identifier (ID) consisting of the first author's name and the year of first preprinting or publication, *e.g.* Smith 91.

- The **ID/Reference/Title** Index lists IDs, each with the title and preprint number and/or publication reference. From the ID of a paper in any of the other Indices, you can find the full reference in the this Index.
- The **Beam/Target/Momentum** Index lists papers by beam particle, target particle, and beam momentum (or center-of-mass energy).
- The **Reaction/Momentum/Data-Descriptor** Index lists papers by the full reaction.
- The **Particle/Decay** Index lists papers by a specific particle and its decay mode.
- The **Accelerator/Experiment/Detector** Index lists papers by the facility at which the experiment was done.

The four Vocabularies that follow the Indices are:

- The **Particle** Vocabulary gives our spelling conventions for particle names. We use the same nomenclature for particles as does the "Review of Particle Physics."[2]
- The **Accelerator** Vocabularies give the names and abbreviations assigned to accelerators.
- The **Detector** Vocabularies give the names and abbreviations assigned to detectors.
- The **Data Descriptor** Vocabulary gives abbreviations used in the Reaction/Momentum/Data-Descriptor Index.

Please bring any errors and omissions you may find to our attention by e-mail to `ezhela@mx.ihep.su`.

2. Scope of this Compilation

Compilation of this report begins with extraction of bibliographic data from a scan of the literature made by the COMPAS Group at IHEP Protvino. Additional bibliographic data comes from the SLAC-SPIRES *HEP* database, a joint project of the SLAC and DESY libraries. From the papers in these databases, we select those with experimental data. When in doubt about the newness or originality of data, we include the paper. All decisions are made by a physicist.

"Data" means not only the obvious experimentally measured quantities, but also some derived quantities, such as partial-wa ve amplitudes. Also, theoretical papers that extract new information from experiments are included. We exclude instrumentation papers and papers mainly of interest only to nuclear physicists, such as nuclear-level or other nuclear-structure measurements. There are, of course, gray areas: many particle physics experiments measure scattering phenomena off nuclei. Heavy-ion experiments are also sometimes of interest to elementary particle physicists. In these areas, we generally include papers that report more than just nuclear-structure parameters and that involve beam energies above about 1 GeV/nucleon, or that report measurements on light nuclear targets, such as the isotopes of hydrogen, helium, or lithium. Other papers are decided on a case-by-case basis by a physicist.

We also publish "Current Experiments in Particle Physics," LBL-91 Revised (1996),[3] covering current, approved experiments at the major world accelerators and underground/under water detectors. This includes a Beam/Target/Momentum Index, a Spokesperson Index, and summaries of each of the experiments.

3. Using this Compilation

Each paper is assigned a unique ID, consisting of the first author's name and the year of the first preprinting or publication. In case of duplicates, we append a letter to distinguish IDs, as in:

```
Jones 91
Jones 91B
Jones 91C.
```

The maximum length of the ID is 16 characters; thus long names are truncated.

All references to a paper use this single ID given in the ID/Reference/Title Index. When a paper has been both preprinted and published, both references are given. In these cases, the year in the ID, which is usually that of the preprint, may not match the year of the published reference. In the very few cases where the first author of the preprint is not the same as that of the publication, the ID usually contains the preprint's first author.

To see a paper's full author list or to search for a set of papers by the name of one or more authors, one may query the *DATAGUIDE* (see Sections 4 and 5 below) or *HEP* databases:

`http://www-spires.slac.stanford.edu/find/hep`.

The first page of each Index explains its use. Here are a few of our conventions.

- We follow the particle naming scheme used in the "Review of Particle Physics"[2] and in the previous three editions of this report; see the latest edition of the "Review" for a complete description. A full list of particle terms, including terms used to describe collisions and decays, is given in the Particle Vocabulary.
- Some particle names actually represent groups of particles. For example,
  - "X" is used for inclusive measurements or, if used as the only particle in the final state, for total-cross-section measurements;

  * "inelastic" represents a sum over all inelastic final states;
  * "jet" represents a jet of particles, treated as a single entity;
  * "(vees)" represents *zero or more* unspecified neutral vees, "vee (vees)" represents *one or more* unspecified neutral vees, and "2vee (vees)" represents *two or more* of the same;
  * "mult[charged-hadron]" represents a *collection of reactions* for which the multiplicity distribution of charged hadrons has been measured, or represents a sum over final states with the lower and upper bounds on multiplicity specified;
  * "0γ" means final states in which the occurrence of photons in the inclusive part of the final state has been excluded.
- In using the computer database, antiparticles that are commonly written with a bar over the name are spelled with the letters "BAR" appended to the particle name, *e.g.*, PBAR, LAMBDA/CBAR-.
- Particles tend to be encoded in the same language that the experimenters used. Thus, some inevitable ambiguity occurs; for example, "charged" in one paper may be called "charged-hadron" in another.
- Reactions are listed in the shortest form possible. Identical particles are grouped together, so the reaction $\pi^- p \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^- p$ will appear as $\pi^- p \rightarrow p 2\pi^+ 3\pi^-$.

4. Particle Physics Data System

The PPDS databases are maintained by the IHEP Protvino COMPAS Group under the Berkeley Database Management System (BDMS) with input from the worldwide Particle Data Group collaboration. This section describes publicly accessible PPDS databases. See Sec. 5 for information on accessing these databases.

- *DATAGUIDE*, on which this report is based, contains two groups of keys:
  * Bibliographic: ID, references, year of preprinting or publication, authors and affiliations, and experiment number.
  * Topical: beam particle, target particle, reactions, particles in the final states of reactions, momenta in initial states, types of data obtained, particles whose property has been measured, accelerator and/or detector, and initial state polarization.
- *REACTIONS* is a compilation of *numerical* experimental particle physics reaction data, including data from 2-body (and quasi-2-body) scattering, e^+e^- annihilation, and inclusive hadron, photon, and lepton physics such as total and differential cross sections, fragmentation functions, structure functions, and polarization measurements. It covers 1952 to the present and is updated approximately quarterly. This database is a collaboration of Durham/RAL and the COMPAS group.
- *CS*, regularly updated from the *REACTIONS* database, contains data from CERN-HERA, UCRL, and LBL cross-section compilations covering 1950 to the present.
- *PP* contains information on particle properties derived from the "Review of Particle Physics" Summary Tables.
- *VOCABULARY* controls usage of particle names, accelerator names, detector names, and data descriptors in the above databases.

5. Accessing the PPDS Databases

The *DATAGUIDE*, *REACTIONS*, and *CS* databases are reachable from the World Wide Web:

`http://wwwppds.ihep.su:8001/ppds.html.`

Unfortunately, searches via the WWW are less powerful and more limited in scope than searches done by telnetting to our databases directly. The PPDS databases can be accessed interactively via INTERNET:

`telnet m10.ihep.su.`

Then login to the captive account PPDS_PUBLIC (no password is required).

In the following description, words in `Typewriter Font` must be typed as given. Only the letters in UPPER CASE are necessary and these must be entered in upper case. *Italic words* are variables for which the user substitutes an appropriate value, again in upper case.

- For a short explanation of the database, type:
  `HELp`
- For a list of BDMS commands, type:
  `?`
- For an explanation of a particular BDMS command, type:
  `?`*command-word*
  (*e.g.*, `?FInd`, `?HELpbase`, `??`)
- To see the record structure and names of keys for searching, type:
  `FDT`
- To browse the index of a key, type:
  `INDex,`*key-name*
  (*e.g.*, `INDex,AC`)
- To search an index, type:
  `FInd` *key-name* `=`*key-value*

Note the use of '**' to terminate each search statement and the use of ';' to separate data elements.

The following examples typify the `FIND` search command:

```
FInd AC=BNL;**
FInd AC=BNL; OR AC=BONN;**
```

Each successful search produces a list of all previous searches and labels them with a 'set number.' A previous search result can then be combined with a current search by use of set numbers:

```
FInd (1) and RE=PI+ P --> PI+ P;**
FInd (1) and (2) **
```

Note that ';' is not used in searches that only use 'sets.'
Enter `DIR` to get a list of these set numbers and search commands.

- To do a truncated search, use a slash after the key value:
  `FInd DE=HBC/;**`
  This finds all detectors that begin with `HBC`.
- To do a string search, use `/C` after the key name:
  `FInd DE/C=BC;**`

This finds all detectors that have BC anywhere in the name.

- The following examples are WRONG:
  `find ac=bnl;**` (Error: uses lowercase)
  `FInd AC BNL;**` (Error: no '=')
  `FInd AC=BNL **` (Error: no ';')
  `FInd AC=BNL OR BONN;**` (Error: no ';' & no 'AC=')
- To see the results of a search with key names, type:
  `LISt`
- Or to restrict data elements shown, append the desired key names. For example:
  `LISt,AC,RE,SC.`
  The leading comma and terminal period are required.
- Or for an attractive listing, type:
  `DOcument` then
  `LOokfile`
- To save the result of a search in a file, type one of the following:
  `DOcument`
  `DUmp`
  `PRInt`

The results are stored in the files DOC.DOC, DOC.DUM, or DOC.PRN. The first file contains a user-friendly listing, the second contains a highly compressed dump of each record (with data element and value), and the third contains a line-by-line decompressed version of the second file. Another file automatically created, DOC.AUD, contains a history of your commands.

REFERENCES

1. V.V. Ezhela *et al.*, "A Guide to Experimental Particle Physics Literature," LBL-90 Revised (1996).
   S.I. Alekhin *et al.*, "A Guide to Experimental Elementary Particle Physics Literature," LBL-90 Revised (1993).
   S.I. Alekhin *et al.*, "A Guide to Experimental Elementary Particle Physics Literature," LBL-90 Revised (1990).
   G.P. Yost *et al.*, "A Guide to Data in Elementary Particle Physics," LBL-90 Revised (1986).
   C.P. Horne *et al.*, "Indexed Compilation of Experimental High Energy Physics Literature," LBL-90, 1978.
2. C. Casso *et al.* (Particle Data Group), "Review of Particle Physics," Eur. Phys. **C3**, 1 (1998).
3. H. Galić *et al.*, "Current Experiments in Particle Physics," LBL-91 Revised (1996).

This Index provides the full reference and title and a short identifier (ID) for each of the papers referred to in the later Indices. The ID consists of the name of the first author and the year the paper appeared, as in JONES 91. Other papers with the same first author and year are listed as JONES 91B, JONES 91C, etc.

One may use this index to see if a preprint has been published. Note, however, that the year of preprinting and the year of publishing are often different, and our ID is usually that of the year of preprinting.

Due to text processing procedures, titles of papers in this index may differ slightly from the original titles, especially regarding particle names.

Illustrative Key

Document ID: all other indices in this volume refer to this paper by this ID.

Primary Reference: the journal reference for this paper, if the paper was published.

Additional References: the preprint number (occasionally there is more than one).

Title of Paper

Dougherty 88 — LBL-26303
An Experimental Investigation of Double Beta Decay of ^{100}Mo

Dowell 88 — CERN-EP-88-154
Recent Results from the UA1 Experiment

Drechsel 85 — Phys. Rev. Lett. 54:30,1985
Search for Anomalous Fragments of ^{56}Fe Using Plastic Nuclear Track Detectors

Dropesky 86 — Phys. Rev. C32:1305,1985
Excitation Functions for the Production of ^{18}Fl and ^{24}Na from Al and Si with Fast Pions

Druzhinin 88 — Z. Phys. C37:1,1988; NOVO-87-52
Search for Rare Radiative Decays of the ϕ Meson at VEPP−2M

Dubar 89 — Yad. Phys. 49:1239,1989
Parametrization of Total Cross Sections at Intermediate Energies

Dubinina 88 — Pisma Zh. Eksp. Teor. Fiz. 48:233,1988
Observation of the Slow Pion Production in the Nucleus Nucleus Interactions

Duffy 85 — Phys. Rev. Lett. 55:1816,1985
***A*-dependence of Charm Production**

Dugan 85B — Phys. Rev. Lett. 55:170,1985; HUTP-85/A033
New Neutrino Constraints on Majorana Mass Matrices

Dukhovskoj 87 — Yad. Phys. 47:1816,1988; ITEP-87-198
Measurement of the Total Cross Sections of the Proton Interactions with Nuclei ^{6}Li, ^{7}Li, and ^{9}Be at 2 GeV/ c

Abachi 93B Phys. Rev. Lett. 72:965, 1994; FERMILAB-PUB-93-340-E; D0-NOTE-1974
First Generation Leptoquark Search in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 94 Phys. Rev. Lett. 72:2332, 1994; FERMILAB-PUB-94-005-E; D0-NOTE-2021
Rapidity Gaps between Jets in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 94B Phys. Rev. Lett. 74:2422, 1995; FERMILAB-PUB-94-354-E
Search for High Mass Top Quark Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 94C Phys. Rev. Lett. 74:3548, 1995; FERMILAB-PUB-94-409-E
Inclusive μ^- and b-Quark Production Cross Sections in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 94D Phys. Rev. Lett. 72:2138, 1994; FERMILAB-PUB-94-004-E
Search for the Top Quark in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95B Phys. Rev. Lett. 75:1028, 1995; FERMILAB-PUB-95-042-E
Measurement of the $Z^0\,Z^0\,\gamma$ and $Z^0\,\gamma\,\gamma$ Couplings in $\overline{p}\,p$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95C Phys. Rev. Lett. 75:1023, 1995; FERMILAB-PUB-95-044-E
Search for $W^\pm$ Boson Pair Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95E Phys. Rev. Lett. 75:1034, 1995; FERMILAB-PUB-95-101-E; HEPEX-9505007
Measurement of the $W\,W\,\gamma$ Gauge Boson Couplings in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95F Phys. Rev. Lett. 75:618, 1995; FERMILAB-PUB-95-057-E
Search for Squarks and Gluinos in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95G Phys. Rev. Lett. 74:2632, 1995; FERMILAB-PUB-95-028-E
Observation of the Top Quark

Abachi 95H FERMILAB-CONF-95-217-E
Measurement of the Inclusive Triple Differential Dijet Cross Section, $d^3\sigma/dE_T d\eta_1 d\eta_2$ in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95I Phys. Rev. Lett. 75:1456, 1995; FERMILAB-PUB-95-130-E
$W^\pm$ and Z^0 Boson Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95J FERMILAB-CONF-95-206-E
Measurement of the Υ Cross Section at D0 using Dimuons

Abachi 95K FERMILAB-CONF-95-210-E
Searches for New Gauge Bosons using the D0 Detector

Abachi 95L FERMILAB-CONF-95-193-E
Search for Squarks and Gluinos in $p\,\overline{p}$ Collisions at the D0 Detector

Abachi 95M FERMILAB-CONF-95-207-E
Inclusive Dimuon and b Quark Production Cross Sections in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95N FERMILAB-CONF-95-251-E
Diphoton Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95O FERMILAB-CONF-95-249-E
Limits on the Anomalous $Z^0\,Z^0\,\gamma$ and $Z^0\,\gamma\,\gamma$ Couplings in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95P FERMILAB-CONF-95-208-E
Inclusive Muon and b Quark Production Cross Sections in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95Q FERMILAB-CONF-95-216-E
Rapidity Gaps between Jets at D0

Abachi 95R FERMILAB-CONF-95-209-E
Measurement of B^0-$\overline{B}^0$ Mixing using Dimuons at D0

Abachi 95S Phys. Lett. 357B:500, 1995; FERMILAB-PUB-95-203-E
Transverse Energy Distributions within Jets in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95T FERMILAB-CONF-95-215-E
Single Photon, Photon Jet and Diphoton Production at D0

Abachi 95U FERMILAB-CONF-95-242-E
Search for $W^\pm$ Boson Pair Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95V Phys. Rev. D52:4877, 1995; FERMILAB-PUB-95-020-E
Top Quark Search with the D0 1992 – 1993 Data Sample

Abachi 95W FERMILAB-CONF-95-214-E
Studies of Topological Distributions of the Three and Four Jet Events in $\overline{p}\,p$ Collisions at $\sqrt{s} = 1800$ GeV with the D0 Detector

Abachi 95X FERMILAB-CONF-95-254-E
Search for Fourth Generation Neutral Heavy Leptons

Abachi 95Y FERMILAB-CONF-95-212-E
A Study of the Strong Coupling Constant using $W^\pm$ + Jets Processes

Abachi 95Z Phys. Rev. Lett. 75:3618, 1995; FERMILAB-PUB-95-185-E; HEPEX-9507002
Second Generation Leptoquark Search in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZB FERMILAB-CONF-95-205-E
$J/\psi(1S)$ Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZC Phys. Rev. Lett. 76:734, 1996; FERMILAB-PUB-95-302-E; HEPEX-9509013
Jet Production via Strongly Interacting Color Singlet Exchange in $p\,\overline{p}$ Collisions

Abachi 95ZD Phys. Lett. 358B:405, 1995; FERMILAB-PUB-95-283-E
Search for Heavy $W^\pm$ Boson in 1.8 TeV $p\,\overline{p}$ Collisions

Abachi 95ZE FERMILAB-CONF-95-259-E; HEPEX-9508002
Tests of QCD in $W^\pm$ and Z^0 Production at Tevatron

Abachi 95ZF FERMILAB-CONF-95-250-E
Search for Anomalous $W\,W$ and $W\,Z^0$ Production at D0

Abachi 95ZG FERMILAB-CONF-95-184-E
Search for First and Second Generation Leptoquarks at D0

Abachi 95ZH FERMILAB-CONF-95-218-E
Rapidity Correlations between High p_T Intermediate Vector Bosons and Jets in $\overline{p}\,p$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZI FERMILAB-CONF-95-204-E
Transverse Energy Distributions within Jets in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZK Phys. Rev. D53:6000, 1996; FERMILAB-PUB-95-296-E; HEPEX-9509005
Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in $\overline{p}p$ Collisions at $\sqrt{s} = 1800$ GeV with the D0 Detector

Abachi 95ZL FERMILAB-CONF-95-361-E
Rapidity Dependence of the Inclusive $J/\psi(1S)$ Production in $p\,\overline{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZM Phys. Rev. Lett. 75:3226, 1995; FERMILAB-PUB-95-085-E; FERMILAB-PUB-95-219-E; FSU-SCRI-95-49
A Study of the Strong Coupling Constant using $W^{\pm}$ + Jets Processes

Abachi 95ZN Phys. Rev. Lett. 76:3271, 1996; FERMILAB-PUB-95-412-E; HEPEX-9512007
Search for Right-Handed $W^{\pm}$ Bosons and Heavy $W'^{\pm}$ in $\bar{p}\,p$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZO Phys. Rev. Lett. 76:2228, 1996; FERMILAB-PUB-95-385-E
Search for Supersymmetric wino$_1$ zino$_2$ Production via Trilepton Final States in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZP Phys. Rev. Lett. 76:2222, 1996; FERMILAB-PUB-95-380-E
Search for Light Top Squarks in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 95ZQ FERMILAB-CONF-95-187-E
Search for Light Top Squarks with the D0 Detector

Abachi 96 Phys. Lett. 370B:239, 1996; FERMILAB-PUB-96-003-E
$J/\psi(1S)$ Production in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96B Phys. Rev. Lett. 77:595, 1996; FERMILAB-PUB-96-038-E
The Azimuthal Decorrelation of Jets Widely Separated in Rapidity

Abachi 96C Phys. Rev. Lett. 77:5011, 1996; FERMILAB-PUB-96-072-E
The Isolated Photon Cross Section in the Central and Forward Rapidity Regions in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96D Phys. Rev. Lett. 77:3303, 1996; FERMILAB-PUB-96-115-E; HEPEX-9606013
Search for Anomalous $W\,W$ and $W\,Z^0$ Production in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96E Phys. Lett. 385B:471, 1996; FERMILAB-PUB-96-187-E
Search for Additional Neutral Gauge Bosons

Abachi 96F FERMILAB-CONF-96-163-E
Search for a Fourth Generation Charge −1/3 Quark via Flavor Changing Neutral Currents

Abachi 96G FERMILAB-CONF-96-172-E
A Measurement of the Ratio of $W^{\pm}$ + 1 Jet to $W^{\pm}$ + 0 Jets Cross Sections and Comparisons to QCD

Abachi 96H FERMILAB-CONF-96-249-E
Rapidity Dependence of the Inclusive $J/\psi(1S)$ Production in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96I FERMILAB-CONF-96-253-E
Search for $b \to X\,\mu^+\,\mu^-$ and $B^0 \to \mu^+\,\mu^-$ Decays in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96J FERMILAB-CONF-96-278-E
Color Coherence in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96K FERMILAB-CONF-96-258-E
Results from a Search for a Neutral Scalar Produced in Association with a $W^{\pm}$ Boson in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96L FERMILAB-CONF-96-252-E
Small Angle Muon and b Quark Production in $p\,\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

Abachi 96M FERMILAB-CONF-96-280-E
Inclusive Jet Cross Section in $p\,\bar{p}$ Collisions with the D0 Detector

Abachi 96N FERMILAB-CONF-96-255-E
Search for Chargino-Neutralino Associated Production via Trileptonic Final States with the D0 Detector

Abachi 96O FERMILAB-CONF-96-254-E
SUGRA-GUT Motivated SUSY Search in the Dielectron Channel at D0

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Yang 96	Jour. of Phys. G 22:775, 1996; UR-1460; ER-40685-889; HEPEX-9605005 **A Measurement of $R = \sigma_L/\sigma_T$ in Deep Inelastic Neutrino Nucleon Scattering at the Tevatron**
Yang 96B	MANCHESTER-95 p. 476 **Charmed Baryon Results from CLEO**
Yasin 95	Nuovo Cim. 108A:1041, 1995 **Projectile Multifragments Break-Up and the Electromagnetic-Field Effect of Target Nucleus**
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Proton-Proton Bremsstrahlung at 310 MeV

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Search for CP Violation in the Decay $K_S \rightarrow \pi^+\ \pi^-\ \pi^0$

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Zybalov 95 Phys. At. Nucl. 58:894, 1995; Yad. Phys. 58:966, 1995
Proton Polarization in the Inclusive Photodisintegration of ^{3}He
Zylberajch 94 DAPNIA-SPP-94-27
Recent Developments in Microlensing Experiments

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This index lists papers by beam, target, and beam momentum. The ordering is by beam particle, then by target particle, then beam momentum.

Particle names follow the ordering in the Particle Vocabulary of this compilation: Gauge bosons, leptons, mesons, baryons, atoms, and nuclei; and within each group the ordering is mainly by increasing mass. Within mesons and baryons, however, we further categorize these particles as having only light quarks, or as having as the heaviest quark, a strange, charmed, bottom, or top quark. To simplify searching in this Index, a short "Table of Contents" of the full Index comes first.

For a given beam, target, and momentum, papers are ordered by year (most recent first), then first author name. For the full reference, see the ID/Reference/Title Index.

In most cases, we give both the equivalent lab momentum for scattering on a fixed target and, in parentheses, the total c.m. energy $E_{\rm cm}$. However, for colliding beam experiments, we usually only give $E_{\rm cm}$. When a range of momenta are studied, we list the range, *e.g.* "50 – 70," ordered by its lower end. For some experiments, such as neutrino experiments, the listed range is only approximate.

A question mark means that the indicated information is unknown to us, usually because it was not given in the paper.

Illustrative Key

Beam and Target: see the *Particle Vocabulary* for nomenclature.

Lab Momentum: in GeV/c (not listed for colliding beam experiments).

Document ID: see the *ID/Reference/Title Index* for the full reference.

CM Energy $E_{\rm cm}$: in GeV, listed in parentheses.

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π^- ^{18}O 136
π^- Ne 136
π^- ^{20}Ne 136
π^- ^{24}Mg 136
π^- Mg 136
π^- Al 136
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0.1 – 30	Blom 98
> 10	Aglietta 96C
100 – 10^4	Strausz 97
> 350	Akerlof 97
> 500	Lindner 98
> 1000	Hess 98
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> $8 \cdot 10^4$	Aglietta 96C
> 10^5	Borione 94
> $1.15 \cdot 10^5$	Borione 97
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> $8.7 \cdot 10^5$	Aglietta 96
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	Avignone 98B

graviton

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	Astone 96

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< 1	Fukuda 96
10^4 – 10^6	Aglietta 94

ν_e

> 0.0002	Abdurashitov 94
> 0.000233	Anselmann 95B
	Vignaud 95
	Anselmann 94
> 0.0008	Vignaud 95
0.005 – 0.01	Fukuda 96B
0.005 – 0.02	Vignaud 95
0.0065 – 0.02	Fukuda 98B
	Fukuda 98D
> 0.0065	Fukuda 98G
> 0.0075	Vignaud 95
0.1 – 1.33	Fukuda 98F
0.1 – 100	Fukuda 98C
> 0.1	Beier 94
> 0.2	Beier 94
> 0.3	Beier 94
0.32 – 31.6	Daum 95B
0.5 – 2.5	Losecco 95
> 0.95	Clark 97
< 1	Allison 96B
> 1	Oyama 98B
1.33 – 100	Fukuda 98
> 1.33	Fukuda 94
> 10	Oyama 97

$\bar{\nu}_e$

> 0.0002	Aglietta 97
> 0.0075	Vignaud 95
	Vignaud 95
< 0.01	Achkar 96
> 0.1	Beier 94
> 0.2	Beier 94
> 0.3	Beier 94
0.32 – 31.6	Daum 95B
0.5 – 2.5	Losecco 95
> 0.95	Clark 97
> 1	Oyama 98B
1.33 – 100	Fukuda 98
> 10	Oyama 97
$6.4 \cdot 10^6$	Aglietta 94

ν_μ

> 0.0075	Vignaud 95
0.1 – 100	Fukuda 98C
> 0.1	Beier 94

ν_μ

0.2 – 1.33	Fukuda 98F
> 0.2	Beier 94
0.25 – 10^4	Daum 95B
0.3 – 1.5	Losecco 98
> 0.3	Beier 94
0.5 – 2.5	Losecco 95
> 0.8	Fukuda 94
> 0.95	Clark 97
< 1	Allison 96B
> 1	Oyama 98B
1.33 – 100	Fukuda 98
> 1.5	Ambrosio 98C
> 1.6	Fukuda 98E
> 2.5	Losecco 93
4	Spurio 98
> 6	Balkanov 98
> 10	Oyama 97

$\bar{\nu}_\mu$

> 0.0075	Vignaud 95
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> 0.2	Beier 94
0.25 – 10^4	Daum 95B
> 0.3	Beier 94
0.5 – 2.5	Losecco 95
> 0.95	Clark 97
> 1	Oyama 98B
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4	Spurio 98
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$e^\pm$

> 1	Vishnevskaya 98
	Voevodsky 98
> 10	Aglietta 96
11.2 – 16.4	Oyama 98B
$1.5 \cdot 10^5$	Aglietta 96B
$2.5 \cdot 10^5$	Aglietta 96B

e^-

0.000335 – 1	Honda 97
0.3 – 4	Grimani 95
0.85 – 14	Barbiellini 96
1.3 – 26	Golden 92
2 – 50	Basini 95B
4 – 50	Aversa 95
4.5 – 50	Barwick 96
5 – 60	Golden 96
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e^+

0.3 – 4	Grimani 95
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0.04704 – 10.1	Honda 97
0.9944 – 1000	Ambrosio 97D
0.9944 – 10^4	Ambrosio 97H
> 0.9944	Vishnevskaya 98
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> 1	Ahlen 95
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	Hayashida 95
> 1.597	Oyama 98
> 5.999	Balkanov 98
100	Ambrosio 98
100 – 1000	Ambrosio 97G
> 200	Voevodsky 98
> 220	Bakatanov 98
	Bakatanov 97
1000 – $5 \cdot 10^4$	Ambrosio 95
> 1000	Ambrosio 97C
	Munakata 97

$\mu^\pm$

> 1300	Ambrosio 97B
1500 – $4 \cdot 10^4$	Aglietta 98
	Aglietta 97B
> 3000	Adarkar 98
10^4 – $1.5 \cdot 10^4$	Ambrosio 98B
> $3 \cdot 10^4$	Aglietta 94
?	Ambrosio 97F
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μ^-

0.2266 – 20	Grimani 95
0.3 – 40	Bellotti 96
0.3126 – 40	Basini 95
0.33 – 20	Stephens 95
> 0.9944	Aglietta 95
10 – 10^4	Aglietta 96D

μ^+

0.2266 – 20	Grimani 95
0.3126 – 1.496	Basini 95
0.33 – 20	Stephens 95
10 – 10^4	Aglietta 96D

heavy-ν

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	Sarsa 97

cosmion

?	Bernabei 99
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dark

?	Bernabei 99
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unspec

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hadron

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hadron

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hadron^0

10 – 10^4	Kornmayer 95

charged-hadron

10 – 10^4	Kornmayer 95

π^-

4.998 – 15	Grimani 95

p

0.33 – 3	Papini 95
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0.8081 – 1.09	Yoshimura 95
1.244 – 4.02	Boezio 97
3.579 – 18.98	Hof 96
3.888 – 18.98	Hof 95
19.98 – 200	Boezio 98
10^4 – $2 \cdot 10^5$	Zatsepin 94
10^4 – 10^8	Adarkar 98
$2 \cdot 10^4$ – $4 \cdot 10^5$	Zatsepin 97
	Zatsepin 94B
$2 \cdot 10^4$ – $2 \cdot 10^6$	Vildanova 94B
$5 \cdot 10^4$ – $5 \cdot 10^5$	Aglietta 94B
> $5 \cdot 10^4$	Ambrosio 97C
10^5 – $2 \cdot 10^6$	Antonov 94
10^5 – 10^7	Bernlohr 98
$2 \cdot 10^5$ – $1.5 \cdot 10^7$	Boothby 97
$3 \cdot 10^5$ – 10^7	Lindner 98
$8 \cdot 10^5$ – $1.3 \cdot 10^7$	Kasahara 97
10^6 – 10^8	Atrashkevich 94
$3 \cdot 10^6$ – 10^7	Danilova 97
10^7 – 10^8	Bakatanov 97
> 10^8	Bakatanov 98

n

< 1	Fukuda 96
10 – 10^4	Kornmayer 95
10^4 – 10^7	Adarkar 98
> $5 \cdot 10^4$	Ambrosio 97C
> $5.6 \cdot 10^7$	Bakatanov 98

$\bar{p}$

0.4446 – 10.9	Geer 98
0.4446 – 20	Geer 98B
0.5992 – 0.8081	Yoshimura 95
0.6084 – 2.142	Matsunaga 98
0.7291 – 4.03	Mitchell 96
0.8081 – 1.09	Yoshimura 95
1.244 – 4.02	Boezio 97
3.579 – 18.98	Hof 96
3.888 – 18.98	Hof 95

R-baryon

> $2 \cdot 10^{11}$	Farrar 97

R-proton

> $2 \cdot 10^{11}$	Farrar 97

strangelet

?	Ambrosio 97E

nucleus

100 – 10^7	Adamov 94
> 5000	Ambrosio 97F
10^4 – $2 \cdot 10^5$	Zatsepin 94

nucleus

$2 \cdot 10^4 - 2 \cdot 10^6$	Vildanova 94B
$> 2 \cdot 10^4$	Asakimori 95
$3 \cdot 10^4 - 10^7$	Longley 95
$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B
$10^5 - 2 \cdot 10^6$	Antonov 95
	Antonov 95B
$2 \cdot 10^5 - 1.5 \cdot 10^7$	Boothby 97
$> 3 \cdot 10^5$	Borione 97B
$8 \cdot 10^5 - 1.3 \cdot 10^7$	Kasahara 97
$10^6 - 10^8$	Vishnevskaya 98
	Atrashkevich 94
$10^6 - 10^{11}$	Vildanova 94
$> 5 \cdot 10^6$	Borisov 97
$> 10^7$	Barnaveli 95
$3.2 \cdot 10^{11}$	Bird 94
?	Ambrosio 97G
	Su 94

deuteron

0.33 – 3	Papini 95
1.6 – 3.6	Bogomolov 94
2.926 – 5.144	Bogomolov 95
39.96 – 400	Boezio 98

^{3}H

59.94 – 600	Boezio 98

^{3}He

17.27	Hatano 95
$3 \cdot 10^4 - 3 \cdot 10^8$	Adarkar 98

^{4}He

3.2 – 7.2	Bogomolov 94
5.838 – 10.27	Bogomolov 95
23.03	Hatano 95
$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B
$10^6 - 10^8$	Atrashkevich 94

He

< 15	Anraku 96
39.83 – 400	Boezio 98
$10^4 - 2 \cdot 10^5$	Zatsepin 94
$> 5 \cdot 10^4$	Ambrosio 97C
$10^5 - 10^7$	Bernlohr 98
$2 \cdot 10^5 - 1.5 \cdot 10^7$	Boothby 97
$3 \cdot 10^5 - 10^7$	Lindner 98
$10^7 - 10^8$	Bakatanov 97
$> 7.2 \cdot 10^7$	Bakatanov 98

$\overline{\text{He}}$

< 15	Anraku 96

C

$> 2 \cdot 10^4$	Asakimori 95
$> 5 \cdot 10^4$	Ambrosio 97C
$1.2 \cdot 10^5 - 1.2 \cdot 10^8$	Adarkar 98
$10^7 - 10^8$	Bakatanov 97
$> 5.6 \cdot 10^7$	Bakatanov 98

Nit

$> 2 \cdot 10^4$	Asakimori 95
$10^5 - 10^7$	Bernlohr 98
$10^7 - 10^8$	Bakatanov 97

O

$> 2 \cdot 10^4$	Asakimori 95
$> 5 \cdot 10^4$	Ambrosio 97C
$1.6 \cdot 10^5 - 1.6 \cdot 10^8$	Adarkar 98
$10^7 - 10^8$	Bakatanov 97
$> 5.6 \cdot 10^7$	Bakatanov 98

Ne

$> 2 \cdot 10^4$	Asakimori 95
$10^7 - 10^8$	Bakatanov 97

Ne

$> 4.2 \cdot 10^7$	Bakatanov 98

Na

$> 2 \cdot 10^4$	Asakimori 95

Mg

$> 2 \cdot 10^4$	Asakimori 95
$> 5 \cdot 10^4$	Ambrosio 97C
$10^5 - 10^7$	Bernlohr 98
$2.4 \cdot 10^5 - 2.4 \cdot 10^8$	Adarkar 98

Al

$> 2 \cdot 10^4$	Asakimori 95

Si

$> 2 \cdot 10^4$	Asakimori 95

Ph

$> 2 \cdot 10^4$	Asakimori 95

S

$> 2 \cdot 10^4$	Asakimori 95
$10^7 - 10^8$	Bakatanov 97
$> 4.2 \cdot 10^7$	Bakatanov 98

Fe

$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B
$> 5 \cdot 10^4$	Ambrosio 97C
$10^5 - 10^7$	Bernlohr 98
$5.5 \cdot 10^5 - 5.5 \cdot 10^8$	Adarkar 98
$10^6 - 10^8$	Atrashkevich 94
$10^7 - 10^8$	Bakatanov 97
$> 3.4 \cdot 10^7$	Bakatanov 98

$\gamma\,\gamma$

(0.3 – 20)	Morgan 94
(0.35 – 1.6)	Kaloshin 94
(> 0.5)	Acciarri 97D
(0.5 – 1.5)	Acciarri 97O
(0.5 – 3)	Acciarri 97O
(0.547)	Baru 96
(0.7 – 1.6)	Kaloshin 94
(0.8 – 1.5)	Albrecht 96B
(0.8 – 2)	Kaloshin 94
(0.958)	Baru 96
(1 – 1.5)	Yabuki 94
(1 – 4.3)	Baru 96
(1.27)	Baru 96
(1.275)	Yabuki 94
(1.32)	Baru 96
(1.45 – 2.1)	Albrecht 96B
(1.5 – 3)	Acciarri 97O
(1.5 – 3.5)	Kriznic 94
(1.5 – 4)	Baru 96
(1.525)	Acciarri 95O
(1.6 – 3)	Albrecht 95G
(1.6 – 3.4)	Albrecht 94B
(1.9 – 2.3)	Ressing 95
(2)	Itoh 95
(> 2)	Acciarri 97D
(2 – 3.25)	Artuso 93
(2 – 9)	Uehara 95
(2.1 – 2.35)	Godang 97
(2.1 – 3.4)	Albrecht 94B
(2.2)	Alam 98
(2.2 – 3.3)	Hamasaki 97
(2.22)	Godang 97
(2.25 – 3.6)	Anderson 97
(< 3)	Iwasaki 94
(3.556)	Shelkov 93
(3.56)	Shelkov 93
(4 – 20)	Uehara 93
(5 – 75)	Acciarri 97E
(10 – 125)	Ackerstaff 98O
(> 12)	Buergin 97
(25)	Itoh 95

$\gamma\,\gamma^*$

(0.3 – 20)	Morgan 94
(1 – 10)	Abreu 95
100	Bassompierre 95

$\gamma\, e^{\pm}$

(< 183)	Abbiendi 98C

$\gamma\, e^-$

0.025 – 0.075 (0.005 – 0.0087)	Boldyshev 95
(< 91.2)	Abreu 95

γ nucleon

80 – 160 (12.29 – 17.36)	Halling 96

$\gamma\, p$

0.07 – 0.15 (1.006 – 1.078)	Macgibbon 95
0.144 – 0.16 (1.073 – 1.087)	Bernstein 97
0.1447 – 0.1693 (1.073 – 1.095)	Bergstrom 97
	Bergstrom 96
0.145 – 0.154 (1.074 – 1.081)	Fuchs 96
0.184 (1.107)	Fissum 96
0.194 (1.116)	Fissum 96
0.2 – 0.41 (1.121 – 1.284)	Peise 96
0.2 – 0.5 (1.121 – 1.349)	Hunger 97
0.204 (1.124)	Fissum 96
0.213 (1.131)	Fissum 96
0.213 – 0.333 (1.131 – 1.227)	Blanpied 96
0.215 – 0.8 (1.133 – 1.543)	Dutz 96
0.22 – 0.8 (1.137 – 1.543)	Althoff 94
0.22 – 0.9 (1.137 – 1.603)	Buchler 94
0.25 – 0.5 (1.162 – 1.349)	Molinari 96
	Molinari 94
0.27 – 0.42 (1.178 – 1.292)	Beck 97
0.309 – 0.792 (1.208 – 1.538)	Harter 97
0.4 – 0.8 (1.277 – 1.543)	Braghieri 95
0.45 – 0.8 (1.313 – 1.543)	Zabrodin 97
0.627 – 0.79 (1.434 – 1.537)	Krusche 95C
0.632 – 0.854 (1.438 – 1.576)	Hoffmannroth 97
0.7 – 0.78 (1.481 – 1.531)	Krusche 97
0.707 – 0.79 (1.486 – 1.537)	Krusche 95
0.708 – 0.72 (1.486 – 1.494)	Price 95
0.717 – 1.105 (1.492 – 1.719)	Bock 98B
0.729 – 0.753 (1.499 – 1.514)	Dytman 95
0.8 – 0.9 (1.543 – 1.603)	Krusche 97
0.9 – 2 (1.603 – 2.153)	Tran 98
0.9 – 2.6 (1.603 – 2.4)	Ernst 98
	Plotzke 98
0.957 – 1.476 (1.636 – 1.911)	Bockhorst 94
0.96 – 2.1 (1.638 – 2.196)	Menze 94
1.047 – 1.6 (1.687 – 1.971)	Bennhold 98
< 1.1 (< 1.716)	Ajaka 98
1.15 (1.743)	Breuer 95
1.32 – 2.02 (1.832 – 2.161)	Jungst 94
1.4 – 2.6 (1.873 – 2.4)	Ernst 98
3.7 – 18.3 (2.797 – 5.935)	Arneodo 92

$\gamma\, p$

9 – 20 (4.215 – 6.198)	Ackerstaff 98W
16.5 – 21 (5.643 – 6.347)	Blackett 97
19.3 (6.091)	Condo 94
50 – 400 (9.732 – 27.41)	Conrad 95
	Adams 94
	Naples 94
(10 – 100)	Burow 94
65 – 175 (11.08 – 18.15)	Apsimon 93
80 – 230 (12.29 – 20.8)	Wiss 96
(20 – 25)	Alton 96
(20 – 167)	Breitweg 98K
(30 – 150)	Tokushuku 98
(30 – 180)	Jung 95
	Ahmed 94D
	Haas 94
(40 – 120)	Adloff 97L
(40 – 140)	Breitweg 97E
	Gerhards 96
	Grab 96
	Derrick 95F
	Haas 94
(40 – 160)	Mass 95
(50 – 100)	Breitweg 97M
	Derrick 96E
(50 – 180)	Tokushuku 98
	Breitweg 97C
	Mass 95
(50 – 280)	Wolf 94
(55)	Aid 96
(60 – 80)	Derrick 95Q
	Derrick 95R
	Lamberti 95
	Haas 94
(60 – 200)	Lamberti 95
(60 – 250)	Derrick 94F
(70 – 90)	Derrick 96D
(80 – 160)	Breitweg 98G
(90)	Brisson 94B
(90 – 290)	Levy 95
	Kiesling 94
(95 – 190)	Aid 96D
(100 – 295)	Hessling 95
	Lohr 95
	Derrick 93C
(100 – 300)	Tokushuku 98
	Labarga 94
(114)	Brisson 94B
(115 – 275)	Eisenberg 96
	Bargende 95
	Derrick 95
	Garbincius 95
(130 – 280)	Breitweg 98E
(134 – 269)	Breitweg 98I
(134 – 277)	Breitweg 97K
(135 – 265)	Haas 94
	Harnew 94
(135 – 280)	Derrick 95O
(< 150)	Aid 96K
(150 – 250)	Ahmed 94C
	Burow 94
	Kiesling 94
(159 – 242)	Aid 96D
(160 – 250)	Breitweg 98L
(164 – 212)	Adloff 97
(165 – 251)	Adloff 98K
(167 – 194)	Levy 95
	Lohr 95
	Derrick 94
(175 – 250)	Levy 95
	Krasny 93B
(176 – 225)	Breitweg 98J
(179)	Dainton 94
	Deroeck 94
(180)	Derrick 95G
	Haas 94
	Harnew 94
(185)	Aid 95H
(186 – 233)	Levy 95
	Lohr 95

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent $p_{\rm lab}$ in GeV/c; then $E_{\rm cm}$ in GeV follows in parentheses. For certain initial states only $E_{\rm cm}$ (in parentheses) is given.

γ p

(187) Adloff 97I
Aid 96
(190 – 268) Aid 96D
(197) Haas 94
Harnew 94
(200) Breitweg 97B
Gerhards 96
Grab 96
Aid 95F
Garbincius 95
Lamberti 95
Barreiro 94
Burow 94
Colombo 94
Dainton 94
Deroeck 94
Feltesse 94
Kiesling 94
Krasny 93B
(212 – 251) Adloff 97
(300) Tokushuku 98

γ n

0.45 – 0.8 (1.315 – 1.545)
Zabrodin 97
0.627 – 0.79 (1.436 – 1.539)
Krusche 95B
0.632 – 0.854 (1.439 – 1.577)
Hoffmannroth 97

γ ($\bar{p}$He)$_{atom}$

0. Yamazaki 96

γ H(atom)*

? Berkeland 95

γ ^{12}C(atom)

0.028 Barabash 98B

γ Tl(atom)

? Edwards 95
Vetter 95

γ nucleus

0.14 – 0.45 Akhmadaliev 98
0.2 – 1 Terranova 94
0.25 Sakamoto 99
0.4 Sakamoto 99
0.8 Sakamoto 99
50 – 300 Sapozhnikov 95
< 100 Akkus 98
100 – 350 Frabetti 93C
200 Slaughter 96
220 Frabetti 98
Frabetti 98B
Semenov 96
221 Frabetti 95C
Frabetti 94H
> 2.5 · 10^6 Borisov 97

γ deuteron

0.03 – 0.05 (1.905 – 1.925)
Babusci 98
0.1 – 0.8 (1.973 – 2.553)
Crawford 96
0.113 – 0.315 (1.985 – 2.168)
Blanpied 95
0.14 – 0.16 (2.011 – 2.029)
Bergstrom 98
0.2 (2.066) Kolb 94
0.22 – 0.28 (2.084 – 2.137)
Quraan 98
0.29 (2.146) Adams 95B
0.45 – 0.8 (2.282 – 2.553)
Zabrodin 97
0.627 – 0.79 (2.423 – 2.546)
Krusche 95B
0.632 – 0.854 (2.427 – 2.593)
Hoffmannroth 97
< 1 (< 2.696) Garcilazo 95
1.5 – 2.8 (3.024 – 3.744)
Belz 95
3.7 – 18.3 (4.171 – 8.495)
Arneodo 92

γ deuteron

< 4 (< 4.304) Bochna 98
9 – 20 (6.106 – 8.862)
Ackerstaff 98W
50 – 400 (13.82 – 38.78)
Conrad 95
Naples 94

γ ^{3}He

0.135 – 0.455 (2.926 – 3.217)
Emura 94B
0.166 – 0.213 (2.956 – 3)
Kolb 94
0.195 – 0.304 (2.983 – 3.084)
Ruth 94
0.2 – 0.5 (2.988 – 3.256)
Emura 94
0.2 – 0.8 (2.988 – 3.504)
Audit 97
Isbert 94
0.235 – 0.305 (3.02 – 3.084)
Tedeschi 94
Tedeschi 94B
0.38 – 0.7 (3.152 – 3.424)
Watts 96
0.8 – 1.12 (3.504 – 3.751)
Kagarlis 98
Lolos 98
1.2 (3.81) Zybalov 95
9 – 20 (7.623 – 10.94)
Ackerstaff 98W

γ ^{4}He

0.04 (3.766) Lyakhno 96
0.051 – 0.068 (3.777 – 3.793)
Sims 96
0.06 (3.786) Lyakhno 96
0.061 (3.787) Proff 99
0.08 (3.805) Lyakhno 96
0.12 – 0.51 (3.844 – 4.205)
Selke 96
0.13 – 0.525 (3.854 – 4.218)
Wichmann 96
0.1405 (3.864) Igarashi 95
0.145 – 0.425 (3.868 – 4.129)
Maruyama 96
0.15 – 0.4 (3.873 – 4.107)
Kraus 97
0.15 – 0.5 (3.873 – 4.196)
Kraus 98
0.2 – 0.8 (3.921 – 4.455)
Maccormick 97
0.285 (4.001) Selke 96
0.495 (4.192) Selke 96

γ Li

0.3 – 1.2 (6.758 – 7.57)
Bianchi 94

γ ^{6}Li

0.059 (5.648) Dias 97
0.06 (5.649) Ryckbosch 94
0.075 (5.664) Dias 97
0.1356 – 0.16 (5.723 – 5.747)
Bergstrom 99

γ ^{7}Li

0.3 – 1.163 (6.813 – 7.594)
Bianchi 95

γ Be

50 – 400 (30.17 – 82.38)
Conrad 95
Naples 94
80 – 230 (37.6 – 62.71)
Wiss 96
Garbincius 95
Freyberger 94
200 (58.55) Frabetti 97
Frabetti 97B
Frabetti 97C
Frabetti 96
Frabetti 96B
Frabetti 95

γ Be

Frabetti 95B
Frabetti 95D
Frabetti 95I
Fujino 95
Gardner 95
220 (61.35) Halling 96
Frabetti 95E
Frabetti 95F
Frabetti 95H
Garbincius 95
Frabetti 94
Frabetti 94B
Frabetti 94C
Frabetti 94E
Frabetti 94F
Frabetti 94G
Frabetti 94I
Frabetti 94J
Johns 94
Moroni 94
Moroni 94
221 (61.49) Wiss 96
Frabetti 94D

γ C

0.184 (11.37) Fissum 96
0.194 (11.38) Fissum 96
0.2 – 0.5 (11.39 – 11.68)
Wissmann 94
0.204 (11.39) Fissum 96
0.213 (11.4) Fissum 96
0.3 – 1.163 (11.48 – 12.3)
Bianchi 95
0.3 – 1.2 (11.48 – 12.33)
Bianchi 94
0.5 – 2.6 (11.68 – 13.54)
Muccifora 98
Mirazita 97
3.7 – 18.3 (14.42 – 23.12)
Arneodo 92
50 – 400 (35.27 – 95.27)
Conrad 95
Naples 94

γ ^{12}C

0.025 – 0.075 (11.2 – 11.25)
Ruijter 96
0.044 – 0.098 (11.22 – 11.28)
Mori 95
0.058 (11.24) Hager 95
0.075 (11.25) Hager 95
0.08 – 0.157 (11.26 – 11.34)
Harty 95
Mcgeorge 95
0.114 – 0.792 (11.29 – 11.95)
Mackenzie 96
0.12 – 0.15 (11.3 – 11.33)
Yau 98
0.12 – 0.4 (11.3 – 11.57)
Macgregor 98
0.137 – 0.2806 (11.32 – 11.46)
Igarashi 95
0.17 – 0.177 (11.35 – 11.36)
Gothe 95
0.18 – 0.34 (11.36 – 11.51)
Franczuk 99
0.187 – 0.227 (11.37 – 11.4)
Hackett 96
0.192 (11.37) Choi 94
0.2 (11.38) Cross 95
0.24 – 0.4 (11.42 – 11.57)
Liang 97
0.25 – 0.6 (11.43 – 11.76)
Harty 98
0.3 (11.48) Cross 95
0.4 (11.57) Cross 95
0.5 (11.67) Cross 95
0.7 – 1.1 (11.86 – 12.23)
Maeda 94
0.8 – 1.1 (11.95 – 12.23)
Yamazaki 95

γ ^{13}C

0.17 – 0.177 (12.28 – 12.28)
Gothe 95
0.192 (12.3) Choi 94

γ ^{14}Nit

9 – 20 (20.12 – 26.3)
Ackerstaff 98W

γ ^{15}Nit

0.22 (14.19) Shaw 95

γ ^{16}O

0.018 – 0.048 (14.92 – 14.95)
Kirichenko 95
0.027 – 0.064 (14.93 – 14.96)
Feldman 96
0.058 (14.96) Hager 95
0.06 – 0.108 (14.96 – 15.01)
Feldman 96
0.061 (14.96) Proff 99
0.075 (14.97) Hager 95
0.273 – 0.313 (15.17 – 15.21)
Hicks 97

γ Al

0.3 – 1.163 (25.43 – 26.27)
Bianchi 95
0.3 – 1.2 (25.43 – 26.31)
Bianchi 94
0.5 – 2.6 (25.63 – 27.61)
Muccifora 98
50 – 400 (56.08 – 144)
Conrad 95
Naples 94

γ Si

50 – 200 (57.45 – 105.6)
Slaughter 96
Garbincius 95

γ ^{28}Si

0.05 – 0.075 (26.13 – 26.16)
Babusci 96

γ Ca

0.184 (37.52) Fissum 96
0.194 (37.53) Fissum 96
0.204 (37.54) Fissum 96
0.213 (37.55) Fissum 96

γ ^{40}Ca

0.058 (37.32) Proff 99
0.074 (37.33) Proff 99

γ Cu

0.3 – 1.163 (59.5 – 60.35)
Bianchi 95
0.3 – 1.2 (59.5 – 60.39)
Bianchi 94
0.5 – 2.6 (59.69 – 61.74)
Muccifora 98
3.7 – 18.3 (62.79 – 75.31)
Arneodo 92
50 – 400 (97.08 – 225.5)
Conrad 95
Naples 94

γ ^{85}Rb

0.02 – 0.07 (79.1 – 79.15)
Danagulyan 97B
4.5 (83.46) Danagulyan 97B

γ Sn

0.184 (110.7) Fissum 96
0.194 (110.8) Fissum 96
0.204 (110.8) Fissum 96
0.213 (110.8) Fissum 96
0.3 – 1.163 (110.9 – 111.7)
Bianchi 95
0.3 – 1.2 (110.9 – 111.8)
Bianchi 94

γ Sn

0.5 – 2.6 (111.1 – 113.1) Muccifora 98
< 4.5 (< 115) Alexandryan 94

γ ^{119}Sn

$2.38 \cdot 10^{-5}$ Tsinoev 98

γ ^{130}Te

0.02 – 0.07 (12.11 – 12.16) Danagulyan 97B
4.5 (15.97) Danagulyan 97B

γ Pb

0.184 (193.2) Fissum 96
0.194 (193.2) Fissum 96
0.204 (193.2) Fissum 96
0.213 (193.2) Fissum 96
0.3 – 1.163 (193.3 – 194.2) Bianchi 95
0.3 – 1.2 (193.3 – 194.2) Bianchi 94
0.5 – 2.6 (193.5 – 195.6) Muccifora 98, Mirazita 97
3.7 – 18.3 (196.7 – 210.5) Arneodo 92
50 – 400 (237.8 – 437.8) Conrad 95, Naples 94

γ ^{208}Pb

< 1.85 (< 195.6) Arakelyan 95

γ ^{209}Bi

< 1.85 (< 196.5) Arakelyan 95

γ ^{235}U

0.05 – 0.8 (218.9 – 219.7) Frommhold 94
0.06 – 0.24 (219 – 219.1) Ivanov 94
< 1.85 (< 220.7) Arakelyan 95

γ ^{238}U

0.05 – 0.8 (221.7 – 222.5) Frommhold 94
0.06 – 0.24 (221.8 – 221.9) Ivanov 94

γ ^{237}Np

0.06 – 0.24 (220.8 – 221) Ivanov 94

γ ^{239}Pu

< 1.85 (< 224.5) Arakelyan 95

γ ^{243}Am

< 1.85 (< 228.2) Arakelyan 95

γ crystal

100 Bassompierre 95

γ* γ

(0.135) Gronberg 97, Savinov 95
(0.547) Gronberg 97, Savinov 95
(0.958) Gronberg 97, Savinov 95
(> 2.5) Ackerstaff 97E, Ackerstaff 97G

γ* γ*

(1.5 – 5) Dominick 94
(> 2) Adachi 99, Acciarri 98ZC

γ* nucleon

40 – 180 Arneodo 95D

γ* p

(10.1 – 24.1) Adams 97C
(20 – 167) Breitweg 98K
(20 – 200) Tokushuku 98
(42 – 134) Adloff 97D, Derrick 96F
(50 – 150) Breitweg 98K
(50 – 240) Adloff 97C, Wolf 94
(60 – 120) Grab 96
(60 – 180) Adloff 97D
(60 – 200) Breitweg 98F
(100 – 230) Breitweg 97J
(100 – 250) Tokushuku 98
(100 – 295) Eisenberg 96, Kniehl 94
(150 – 250) Aid 96J
(187) Adloff 97I

axion γ

? Moriyama 98

axion e^-

$< 10^{-5}$ Avignone 98, Avignone 98B

axion p

$< 10^{-5}$ Avignone 98, Avignone 98B

axion ^{71}Ge(atom)

$< 10^{-5}$ Avignone 98, Avignone 98B

axion ^{57}Fe

$< 1.44 \cdot 10^{-5}$ Krcmar 98B

ν e^-

> 0.0075 (> 0.002784) Vignaud 95

ν_e e^-

> 0.0075 (> 0.002784) Vignaud 95
< 0.053 (< 0.007297) Gninenko 98

ν_e n

20 – 30 (6.202 – 7.567) Vilain 94B

ν_e nucleus

> 0.0075 Vignaud 95

ν_e ^{12}C

< 0.035 (< 11.21) Armbruster 98, Armbruster 94
0.035 – 0.055 (11.21 – 11.23) Imlay 98
< 0.05 (< 11.23) Athanassopou 97
< 0.052 (< 11.23) Armbruster 98D
< 0.0528 (< 11.23) Armbruster 98B, Bodmann 94, Bodmann 94B, Kretschmer 94B
< 0.3 (< 11.48) Athanassopou 97B, Athanassopou 97C

ν_e ^{37}Cl

> 0.0008 (> 34.47) Vignaud 95
0.005 – 0.02 (34.47 – 34.48) Vignaud 95

ν_e ^{40}Ar

< 0.005 (< 37.26) Trinder 97

ν_e Fe

160 (139.1) Mcfarland 97

ν_e ^{71}Ga

> 0.0002 (> 66.1) Abdurashitov 94
> 0.000233 (> 66.1) Anselmann 95B, Vignaud 95, Anselmann 94
0.000426 (66.1) Bahcall 95
0.000431 (66.1) Bahcall 95
0.000462 (66.1) Abdurashitov 96
0.000746 (66.1) Bahcall 95
0.000751 (66.1) Abdurashitov 96, Bahcall 95

$\bar{\nu}_e$ e^-

0.0006 – 0.0052 (0.0009 – 0.0023) Derbin 92B
$6.4 \cdot 10^6$ (80) Aglietta 94

$\bar{\nu}_e$ p

> 0.0002 (> 0.9385) Aglietta 97
0.002 – 0.008 (0.9403 – 0.9463) Greenwood 96
0.002 – 0.009 (0.9403 – 0.9473) Gninenko 98, Vidyakin 94
0.002 – 0.01 (0.9403 – 0.9482) Vyrodov 95, Declais 94
> 0.00223 (> 0.9405) Kozlov 98
0.004 – 0.01 (0.9423 – 0.9482) Vyrodov 98
< 0.01 (< 0.9482) Gninenko 98, Apollonio 97, Achkar 96, Achkar 95
0.01 – 0.05 (0.9482 – 0.987) Armbruster 98D
< 0.0528 (< 0.9897) Gninenko 98, Athanassopou 96, Athanassopou 96B
20 – 30 (6.198 – 7.562) Vilain 94B

$\bar{\nu}_e$ deuteron

0.002 – 0.01 (1.878 – 1.886) Riley 99
> 0.00223 (> 1.878) Kozlov 98

$\bar{\nu}_e$ Fe

160 (139.1) Mcfarland 97

ν_μ e^-

0.0298 (0.005482) Gninenko 98
> 10.9 (> 0.1044) Vilain 95B
20 (0.1414) Gninenko 98, Vilain 94C
23.7 (0.1539) Vilain 94, Vilain 94D, Vilain 93B
23.8 (0.1543) Vilain 95B

ν_μ nucleon

3 – 30 (2.552 – 7.564) Anikeyev 95

ν_μ nucleon

Anikeyev 95B
4 – 160 (2.897 – 17.36) Loverre 96
5 – 100 (3.205 – 13.74) Vilain 95
6 – 28 (3.485 – 7.312) Barabash 96B
20 – 600 (6.2 – 33.58) Yang 96
23.6 (6.723) Altegoer 98C
24.9 (6.902) Annis 98

ν_μ p

5 – 160 (3.204 – 17.35) Jones 94C, Jones 94D
5 – 400 (3.204 – 27.41) Burkot 96
10 – 150 (4.432 – 16.8) Zaetz 95
10 – 200 (4.432 – 19.4) Asratyan 95
61.4 (10.78) Asratyan 94

ν_μ n

20 – 30 (6.202 – 7.567) Vilain 94B

ν_μ nucleus

> 0.0075 Vignaud 95
> 1 Ambrosio 98
3 – 30 Aleshin 96B, Aleshin 95B
8.7 Aleshin 96C
27 Aleshin 97
49 – 63 Gorichev 93

ν_μ deuteron

5 – 160 (4.72 – 24.57) Jones 94C, Jones 94D
10 – 260 (6.405 – 31.29) Asratyan 95, Zaetz 95, Zaetz 95
61.4 (15.29) Asratyan 94

ν_μ ^{12}C

0.0298 (11.21) Armbruster 98C
0.03 (11.21) Armbruster 98D
0.12 – 0.3 (11.3 – 11.48) Imlay 98
0.1231 – 0.3 (11.3 – 11.48) Church 97
0.1237 – 0.28 (11.3 – 11.46) Albert 95
< 0.3 (< 11.48) Church 97

ν_μ Ne

5 – 400 (23.26 – 124) Burkot 96
10 – 100 (27 – 64.11) Asratyan 95, Zaetz 95
10 – 200 (27 – 88.7) Zaetz 95
10 – 300 (27 – 107.8) Deprospo 94
61.4 (51.58) Asratyan 94
65 (52.87) Asratyan 97
131 (72.63) Asratyan 97

ν_μ Al

3 – 30 (27.97 – 46.26) Anikeyev 95B

ν_μ Fe

2 – 600 (53.98 – 255.2) Kim 98
10 – 160 (61.21 – 139.1) Loverre 96

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ν_μ Fe

30 – 600 (76.34 – 255.2) Arroyo 94, Mallot 94
165 (141) Mcfarland 97
< 360 (< 200.4) Seligman 97, Seligman 97B, Seligman 97C
< 600 (< 255.2) Mcfarland 96, Bazarko 95

$\bar{\nu}_\mu$ e^-

< 0.053 (< 0.007297) Gninenko 98
19.1 (0.1382) Vilain 94, Vilain 94D, Vilain 93B
20 (0.1414) Gninenko 98, Vilain 94C

$\bar{\nu}_\mu$ nucleon

3 – 30 (2.552 – 7.564) Anikeyev 95, Anikeyev 95B
6 – 28 (3.485 – 7.312) Barabash 96B
20 – 600 (6.2 – 33.58) Yang 96
22.7 (6.596) Altegoer 98C

$\bar{\nu}_\mu$ p

5 – 160 (3.204 – 17.35) Jones 94C, Jones 94D
5 – 400 (3.204 – 27.41) Burkot 96
10 – 150 (4.432 – 16.8) Zaetz 95
10 – 200 (4.432 – 19.4) Asratyan 95
20 – 30 (6.198 – 7.562) Vilain 94B

$\bar{\nu}_\mu$ nucleus

> 1 Ambrosio 98

$\bar{\nu}_\mu$ deuteron

5 – 160 (4.72 – 24.57) Jones 94C, Jones 94D
10 – 250 (6.405 – 30.68) Arneodo 92
10 – 260 (6.405 – 31.29) Asratyan 95, Zaetz 95, Zaetz 95

$\bar{\nu}_\mu$ ^{12}C

< 0.035 (< 11.21) Armbruster 94
< 0.0528 (< 11.23) Bodmann 94, Kretschmer 94B

$\bar{\nu}_\mu$ Ne

5 – 400 (23.26 – 124) Burkot 96
10 – 100 (27 – 64.11) Asratyan 95, Zaetz 95
10 – 200 (27 – 88.7) Zaetz 95
10 – 250 (27 – 98.73) Arneodo 92
10 – 300 (27 – 107.8) Deprospo 94
48.6 (46.68) Asratyan 94

$\bar{\nu}_\mu$ Al

3 – 30 (27.97 – 46.26) Anikeyev 95B

$\bar{\nu}_\mu$ Fe

30 – 600 (76.34 – 255.2) Arroyo 94, Mallot 94
135 (129.4) Mcfarland 97
< 360 (< 200.4) Seligman 97, Seligman 97B, Seligman 97C
< 600 (< 255.2) Mcfarland 96, Bazarko 95

ν_τ e^-

< 400 (< 0.6325) Gninenko 98, Babu 94

ν_τ nucleon

20 (6.2) Danilov 94
23.6 (6.723) Altegoer 98B

ν_τ nucleus

25 Gregoire 97, Aleshin 96

$\bar{\nu}_\tau$ e^-

< 400 (< 0.6325) Gninenko 98

$e^\pm$ γ

(> 1) Kojima 97
(3 – 26) Acciarri 98N
(3 – 35) Acciarri 98R

$e^\pm$ γ^*

(< 91.2) Acciarri 98I

$e^\pm$ nucleus

5 Degtyarenko 95

$e^\pm$ ^{16}O

5 (19.26) Degtyarenko 93
5.001 (19.26) Degtyarenko 94B

e^- γ

45.6 (0.0005) Akers 93G
(> 1) Kojima 97
(2.5 – 40) Ackerstaff 96L

e^- γ^*

25 – 30.7 Sahu 95, Sahu 95B

e^- nucleon

0.5 – 0.52 (1.349 – 1.363) Achasov 98D

e^- p

0.2 (1.121) Mueller 97
(1.125) Blomqvist 96
0.51 (1.356) Achasov 97
0.525 (1.366) Vandenbrink 97, Vandenbrink 95
0.58 (1.403) Milbrath 97
0.719 (1.493) Mertz 99, Warren 98
0.799 (1.543) Mertz 99
0.855 (1.576) Distler 98, Eyl 95
1.6 – 8.2 (1.971 – 4.033) Walker 94
2 – 5 (2.153 – 3.204) Makins 94
2.015 (2.159) Vandenbrandt 95
2.445 – 4.045 (2.339 – 2.911) Baker 98, Niculescu 98
3.2 – 4 (2.624 – 2.896) Frolov 99
3.245 (2.64) Armstrong 98B
3.356 (2.679) Aniol 98
4.045 (2.911) Armstrong 98B

e^- p

5 – 21 (3.204 – 6.347) Dasu 94
5 – 21.5 (3.204 – 6.421) Bosted 93
5.507 (3.349) Stuart 98
9.7 (4.368) Abe 98B, Abe 96ZC
9.71 (4.371) Adeva 93B
9.8 (4.39) Stuart 98
< 10 (< 4.432) Tao 95
12.95 (5.018) Adeva 93B
16.18 (5.59) Adeva 93B
16.19 (5.591) Adeva 93B, Altarelli 93
16.2 (5.593) Abe 98B
20 (6.198) Adeva 93B, Altarelli 93
22.66 (6.588) Adeva 93B, Altarelli 93
29.1 (7.449) Abe 98B, Adeva 98B, Abe 97ZL, Abe 95F, Abe 95ZL, Abe 95ZO, Breton 95, Ehrnsperger 95
38.8 (8.584) Anthony 99
(295) Eisenberg 96, Gerhards 96, Grab 96, Garbincius 95, Hessling 95, Jung 95, Lamberti 95, Ahmed 94, Ahmed 94B, Ahmed 94C, Ahmed 94D, Barreiro 94, Burow 94, Derrick 94C, Derrick 94E, Derrick 94F, Feltesse 94, Greenshaw 94, Kiesling 94, Kniehl 94, Wolf 94, Derrick 93C
(295.4) Levy 95, Derrick 94
(296) Aid 96, Aid 96B, Brummer 96B, Derrick 96, Derrick 96H, Eisenberg 96, Gerhards 96, Grab 96, Ahmed 95, Ahmed 95B, Ahmed 95C, Ahmed 95D, Aid 95, Aid 95B, Aid 95C, Aid 95D, Aid 95E, Aid 95F, Aid 95G, Aid 95H, Aid 95I, Bargende 95, Bassler 95, Butterworth 95, Derrick 95, Derrick 95B, Derrick 95C, Derrick 95D, Derrick 95E, Derrick 95F, Derrick 95G

e^- p

Derrick 95H, Derrick 95I, Derrick 95J, Derrick 95K, Derrick 95L, Derrick 95P, Doeker 95, Garbincius 95, Jung 95, Levy 95, Lohr 95, Nisius 95, Abt 94, Abt 94B, Abt 94C, Ahmed 94E, Ahmed 94G, Ahmed 94H, Brisson 94, Brisson 94B, Colombo 94, Dainton 94, Deroeck 94, Derrick 94B, Derrick 94D, Derrick 94G, Derrick 94H, Derrick 94I, Haas 94, Harnew 94, Joensson 94, Kuhlen 94, Labarga 94, Mallot 94, Abt 93B, Krasny 93B
(300) Tokushuku 98, Adloff 97B, Adloff 97C, Adloff 97F, Adloff 97G, Adloff 97J, Breitweg 97M, Adloff 96B, Aid 96L, Brummer 96, Brummer 96B, Derrick 96H, Derrick 96I, Aid 95J, Derrick 95N, Derrick 95R

e^- n

9.7 (4.372) Abe 96ZC
19 – 26 (6.049 – 7.053) Mallot 94
25.4 (6.972) Roblin 95
48.3 (9.573) Adeva 98B, Petratos 98, Abe 97ZF, Abe 97ZG, Abe 97ZL

e^- nucleus

5 Degtyarenko 97
14.5 Elouadrhiri 94, Degtyarenko 94
29.5 Prinz 98

e^- deuteron

0.1005 – 0.7205 (1.974 – 2.494) Ducret 94
0.292 (2.148) Jordan 94
0.2927 (2.148) Jordan 96
0.3475 – 0.9135 (2.196 – 2.635) Schmitt 97
0.4509 (2.282) Anklin 94
0.4577 (2.288) Anklin 94
0.5 (2.322) Dolfini 95
0.525 (2.342) Pellegrino 97
0.555 – 0.855 (2.366 – 2.593) Anklin 98
0.565 (2.374) Zhou 98

e^- deuteron

Ferroluzzi 96
0.576 (2.383) Jordan 96
0.577 (2.384) Jordan 94
0.5771 (2.384) Jordan 96
0.58 (2.386) Milbrath 97
0.6535 (2.443) Garson 94
0.704 (2.482) Bouwhuis 98
0.7555 (2.52) Garson 94
0.8535 (2.592) Garson 94
0.855 (2.593) Eyl 95
0.868 (2.603) Eden 94
0.9 – 1.6 (2.626 – 3.085)
Bruins 95
1.412 – 4.05 (2.969 – 4.326)
Abbott 98I
1.602 (3.087) Frommberger 94
2 (3.32) Loginov 98
Theunissen 94
2 – 5 (3.32 – 4.72)
Bulten 95
Oneill 95
2.02 (3.331) Arrington 96
2.445 (3.562) Bailey 98
3 (3.843) Arneodo 92
3.191 (3.935) Arrington 96
3.2 – 4.4 (3.94 – 4.475)
Alexa 98
3.245 (3.961) Bailey 98
3.7 – 18 (4.171 – 8.428)
Seligman 97
Seligman 97C
3.75 – 19.5 (4.193 – 8.756)
Arneodo 92
4.21 (4.395) Arrington 96
4.5 – 20 (4.516 – 8.862)
Arneodo 92
5 (4.72) Arneodo 92
Arneodo 92
5 – 21 (4.72 – 9.072)
Dasu 94
5.121 (4.767) Arrington 96
5.507 (4.917) Stuart 98
6 (5.101) Arneodo 92
7 (5.457) Arneodo 92
8 – 24.5 (5.79 – 9.768)
Gomez 93
Arneodo 92
9.7 (6.317) Abe 98B
Adeva 98B
Abe 96ZC
Abe 95S
9.77 – 18.51 (6.338 – 8.541)
Stuart 98
< 10 (< 6.405)
Tao 95
16.2 (8.018) Abe 98B
Adeva 98B
Abe 95S
29.1 (10.61) Abe 98B
Adeva 98B
Abe 97ZL
Abe 95S
Abe 95ZL
Abe 95ZO
Breton 95
38.8 (12.21) Anthony 99

e^- ^{3}H

0.1 – 0.75 (2.893 – 3.464)
Retzlaff 94
0.189 – 0.689 (2.978 – 3.415)
Amroun 94

e^- ^{3}He

0.1 – 0.75 (2.893 – 3.464)
Retzlaff 94
0.189 – 0.689 (2.978 – 3.415)
Amroun 94
0.37 (3.143) Spaltro 98
Hansen 95
Jones 95
Gao 94
Gao 94B
Hansen 94

e^- ^{3}He

0.396 (3.166) Legoff 97
0.555 (3.303) Blomqvist 97
Blomqvist 96B
0.576 (3.321) Spaltro 98
0.6 (3.341) Blomqvist 97
Blomqvist 96B
0.67 (3.399) Legoff 97
0.675 (3.403) Blomqvist 97
Blomqvist 96B
0.855 (3.548) Blomqvist 97
Blomqvist 96B
Meyerhoff 94
19.4 (10.78) Adeva 93B
Altarelli 93
19.4 – 25.5 (10.78 – 12.26)
Ehrnsperger 95
19.42 (10.79) Anthony 96
Dunne 94
22.66 (11.6) Anthony 96
22.7 (11.61) Dunne 94
Adeva 93B
Altarelli 93
25.4 (12.24) Roblin 95
Petratos 93
25.5 (12.26) Dunne 94
Adeva 93B
Altarelli 93
25.51 (12.26) Anthony 96
48.3 (16.67) Adeva 98B
Petratos 98
Abe 97ZF
Abe 97ZG
Abe 97ZL

e^- ^{4}He

0.091 – 0.193 (3.816 – 3.914)
Buki 95
0.22 – 0.69 (3.94 – 4.362)
Vanleeuwe 98
0.3 – 0.64 (4.015 – 4.319)
Zghiche 94
0.466 (4.166) Ent 94
0.5 (4.196) Legoff 94
0.525 (4.218) Vanleeuwe 96
0.5255 (4.219) Vanleeuwe 98B
0.813 (4.466) Kuplennikov 95
1.169 (4.753) Kuplennikov 95
1.169 (4.754) Kuplennikov 94
1.203 (4.78) Kuplennikov 95

e^- He

8 – 24.5 (8.576 – 14.02)
Gomez 93
Arneodo 92

e^- ^{6}Li

0.134 (5.721) Hotta 98
0.466 (6.037) Ent 94

e^- Be

8 – 24.5 (14.31 – 21.95)
Gomez 93
Arneodo 92
< 10 (< 15.44)
Tao 95
13 (16.99) Arneodo 92
20 (20.16) Arneodo 92

e^- ^{11}Bor

0.2005 (10.44) Yamaya 95

e^- C

2 – 5 (13.04 – 15.4)
Oneill 95
Makins 94
2.02 (13.05) Arrington 96
2.45 – 3.25 (13.42 – 14.07)
Abbott 98O
3.191 (14.02) Arrington 96
4.045 (14.69) Arrington 98
4.21 (14.81) Arrington 96
5.121 (15.48) Arrington 96

e^- C

8 – 24.5 (17.44 – 25.95)
Gomez 93
Arneodo 92
25 (26.16) Anthony 95

e^- ^{12}C

0.129 (11.31) Tadokoro 94
0.466 (11.64) Ent 94
0.475 (11.65) Kester 95
Kester 95B
0.576 (11.74) Holtrop 97
0.579 (11.74) Woo 97
0.696 (11.86) Morrison 98
0.705 (11.86) Blomqvist 98
0.796 (11.95) Morrison 98
1.45 – 2.39 (12.55 – 13.36)
Vartapetyan 95
1.6 (12.68) Alanakyan 97
1.94 (12.98) Alanakyan 98
2.06 (13.08) Alanakyan 97
29 (27.81) Abe 98ZF

e^- ^{16}O

0.5 – 1.5 (15.39 – 16.33)
Anghinolfi 95
0.5005 – 1.5 (15.39 – 16.33)
Anghinolfi 96
5 (19.26) Doroshkevich 98

e^- Al

3 (27.97) Arneodo 92
4.5 – 20 (29.29 – 40.46)
Arneodo 92
5 (29.72) Arneodo 92
Arneodo 92
6 (30.55) Arneodo 92
7 (31.36) Arneodo 92
8 – 24.5 (32.15 – 43.16)
Gomez 93
Arneodo 92
13 (35.85) Arneodo 92
20 (40.46) Arneodo 92

e^- ^{40}Ar

0.5 – 1.5 (37.76 – 38.73)
Anghinolfi 95

e^- Ca

8 – 24.5 (44.62 – 56.77)
Gomez 93
Arneodo 92

e^- ^{40}Ca

0.13 – 0.84 (37.39 – 38.09)
Williamson 97

e^- Fe

2 – 5 (53.98 – 56.8)
Oneill 95
2.02 (54) Arrington 96
2.45 – 3.25 (54.42 – 55.18)
Abbott 98O
3.191 (55.12) Arrington 96
3.7 – 18 (55.6 – 67.67)
Seligman 97
Seligman 97C
3.75 – 19.5 (55.65 – 68.81)
Arneodo 92
4.045 (55.92) Arrington 98
4.21 (56.07) Arrington 96
5 – 21 (56.8 – 69.94)
Dasu 94
5.121 (56.91) Arrington 96
8 – 24.5 (59.49 – 72.49)
Gomez 93
Arneodo 92

e^- Cu

13 (71.02) Arneodo 92
20 (76.63) Arneodo 92

e^- Ag

8 – 24.5 (108.2 – 122.6)
Gomez 93
Arneodo 92

e^- Wt

29.5 (198.6) Jaros 95

e^- Au

2 – 5 (185.5 – 188.4)
Oneill 95
2.02 (185.5) Arrington 96
2.45 – 3.25 (185.9 – 186.7)
Abbott 98O
3.191 (186.6) Arrington 96
3.75 – 19.5 (187.2 – 202)
Arneodo 92
4.045 (187.5) Arrington 98
4.21 (187.6) Arrington 96
5 – 21 (188.4 – 203.4)
Dasu 94
5.121 (188.5) Arrington 96
8 (191.3) Anthony 95
8 – 24.5 (191.3 – 206.5)
Gomez 93
Arneodo 92
13 (196) Arneodo 92
20 (202.5) Arneodo 92
25 (207) Anthony 95

e^- ^{197}Au

3 (187.3) Markaryan 95

e^- ^{208}Pb

0.262 – 0.645 (194 – 194.4)
Zghiche 94

e^+ γ

45.6 (0.0005) Akers 93G
(> 1) Kojima 97
(2.5 – 40) Ackerstaff 96L

e^+ e^-

0. (0.001) Chiba 98
Asai 95
Skalsey 95
Asai 94
Vonbusch 94
$< 4.526 \cdot 10^{-5}$ (< 0.001001)
Vo 94
1.84 (0.0429) Baru 96
(0.5 – 1.05) Benayoun 96
(0.77) Benayoun 96
(0.774 – 0.79) Aulchenko 95
(0.782) Benayoun 96
(0.98 – 1.04) Achasov 98B
(0.98 – 1.05) Achasov 98C
(0.98 – 1.26) Achasov 99
(0.984 – 1.04) Achasov 98
Achasov 97
(0.9939 – 1.027)
Akhmetshin 95
(0.994 – 1.04) Akhmetshin 98
Akhmetshin 97B
Akhmetshin 97C
(1 – 2) Achasov 96
(1.005 – 1.035)
Akhmetshin 95B
(1.02) Akhmetshin 98
Akhmetshin 97
Akhmetshin 97B
Akhmetshin 97C
Benayoun 96
Akhmetshin 95
Akhmetshin 95B
Aulchenko 99
Aulchenko 98
Aulchenko 98B
Achasov 97
(1.35 – 2.4) Castro 94
(1.8 – 3.1) Antonelli 96
(1.82 – 2.44) Gauzzi 94
(1.82 – 3.1) Morandin 94
(1.9) Antonelli 94

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$e^+ e^-$

(1.9 – 2.44)	Antonelli 98
(1.92)	Antonelli 94
(2)	Antonelli 94
(2.1)	Antonelli 94
(2.44)	Antonelli 98
	Antonelli 94
(3 – 4)	Danilov 94
(3 – 8.4)	Danilov 94
(3.08 – 3.11)	Bai 95B
(3.097)	Bai 96D
	Burnett 96
(3.1)	Antonelli 98
	Bai 98G
	Bai 98I
	Bai 98K
	Baldini 98
	Bai 96B
	Huang 96
	Jin 96
	Bai 95C
	Montanet 95
	Bertolotto 94
	Fan 94
	Fan 94B
(3.54 – 3.6)	Gomezycadena 94
(3.544 – 3.568)	
	Fan 94B
(3.568 – 3.579)	
	Bai 95
	Qi 95
(3.578 – 3.579)	
	Jones 94
(3.68)	Bai 96C
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	Abe 99C
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	Abbiendi 98D
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	Abbiendi 98H
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	Abbiendi 98K
	Abbiendi 98O
	Abe 98H
	Abe 98L
	Abreu 98
	Abreu 98B
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	Abreu 98M
	Abreu 98O
	Abreu 98Q
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	Acciarri 98G
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	Acciarri 98X
	Acciarri 98Y
	Acciarri 98ZC
	Acciarri 98ZE
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	Ackerstaff 98J
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	Ackerstaff 98P
	Ackerstaff 98Q
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	Barate 98C
	Barate 98D
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	Barate 98L
	Barate 98M
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	Abe 97B
	Abe 97E
	Abe 97G
	Abe 97J
	Abe 97T
	Abe 97U
	Abreu 97B
	Abreu 97D
	Abreu 97E
	Abreu 97F
	Abreu 97G
	Abreu 97H
	Abreu 97I
	Abreu 97J
	Abreu 97K
	Abreu 97O
	Acciarri 97F
	Acciarri 97G
	Acciarri 97I
	Acciarri 97M
	Acciarri 97O
	Acciarri 97P
	Acciarri 97W
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	Ackerstaff 97D
	Ackerstaff 97F
	Ackerstaff 97H
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	Ackerstaff 97K
	Ackerstaff 97L
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	Ackerstaff 97R
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	Barate 97R
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	Biasini 97
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	Edsall 97
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	Lohmann 97
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	Taylor 97
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	Weber 97
	Wermes 97
	Abe 96T
	Abe 96U
	Abe 96V
	Abe 96W
	Abe 96Y
	Abe 96Z
	Abe 96ZB
	Abe 96ZE
	Abe 96ZF
	Abe 96ZG
	Abreu 96B
	Abreu 96C
	Abreu 96E
	Abreu 96F
	Abreu 96H
	Abreu 96I
	Abreu 96J
	Abreu 96K
	Abreu 96L
	Abreu 96N
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	Abreu 96P
	Abreu 96Q
	Abreu 96S
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	Acciarri 96G
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Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

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Buskulic 96F
Buskulic 96H
Buskulic 96I
Buskulic 96N
Buskulic 96O
Buskulic 96P
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	Ackerstaff 98E
	Ackerstaff 98G
	Ackerstaff 98O
	Barate 98N
	Bock 98
	Hoffmann 98
	Abreu 97M
	Abreu 97N
	Abreu 97R
	Acciarri 97C
	Acciarri 97E
	Acciarri 97H
	Acciarri 97L
	Acciarri 97X
	Acciarri 97Y
	Acciarri 97Z
	Ackerstaff 97J
	Ackerstaff 97S
	Ackerstaff 97V
	Ackerstaff 97Z

$e^+ e^-$

	Ackerstaff 97ZG
	Barate 97L
	Barate 97M
	Barate 97Q
	Barate 97U
	Barate 97V
	Barate 97Z
	Buergin 97
	Abreu 96W
	Abreu 96X
	Ackerstaff 96B
	Ackerstaff 96C
	Ackerstaff 96H
	Ackerstaff 96I
	Ackerstaff 96K
	Ackerstaff 96Q
(161 – 172)	Sopczak 98
	Ackerstaff 97E
(161.3)	Abreu 99
	Barate 99D
	Acciarri 98B
	Acciarri 98J
	Ackerstaff 98C
	Bock 98
	Abreu 97L
	Acciarri 97J
	Acciarri 97K
	Acciarri 97Q
	Acciarri 97S
	Acciarri 97U
	Acciarri 97V
	Ackerstaff 97
	Ackerstaff 97R
	Ackerstaff 97ZD
	Barate 97O
	Barate 97P
	Barate 97X
	Barate 97Y
	Ackerstaff 96E
	Ackerstaff 96F
	Ackerstaff 96N
	Abreu 97
	Barate 97J
	Acciarri 97
	Acciarri 97B
	Acciarri 97T
	Ackerstaff 97U
(161.5)	Abreu 98F
(167)	Acciarri 98T
(170)	Abreu 99H
	Acciarri 98K
	Bock 98
	Ackerstaff 97Q
	Ackerstaff 97V
	Barate 97L
	Barate 97Q
	Barate 97U
	Barate 97V
(170 – 172)	Barate 99B
	Ackerstaff 98G
	Acciarri 97H
	Acciarri 97L
(170.3)	Acciarri 98B
	Bock 98
	Abreu 97L
	Acciarri 97Q
	Acciarri 97U
	Acciarri 97V
	Ackerstaff 97R
	Ackerstaff 97W
	Ackerstaff 97ZC
	Barate 97O
	Barate 97P
	Barate 97X
	Barate 97Y
(170.3 – 172.3)	
	Acciarri 97S
(172)	Abreu 99H
	Abreu 99I
	Abreu 99K
	Acciarri 99
	Barate 99C
	Abbiendi 98B
	Abbiendi 98N

$e^+ e^-$

	Abreu 98K
	Abreu 98N
	Abreu 98T
	Acciarri 98K
	Acciarri 98M
	Acciarri 98O
	Acciarri 98U
	Acciarri 98ZF
	Ackerstaff 98E
	Ackerstaff 98O
	Barate 98N
	Bock 98
	Hoffmann 98
	Abreu 97C
	Abreu 97M
	Abreu 97N
	Abreu 97P
	Abreu 97Q
	Abreu 97R
	Acciarri 97C
	Acciarri 97N
	Acciarri 97X
	Acciarri 97Y
	Acciarri 97Z
	Ackerstaff 97Q
	Ackerstaff 97S
	Ackerstaff 97V
	Ackerstaff 97Z
	Ackerstaff 97ZG
	Barate 97L
	Barate 97M
	Barate 97Q
	Barate 97U
	Barate 97V
	Barate 97Z
	Barate 97ZD
	Buergin 97
	Abreu 96X
(172.1)	Barate 97S
	Barate 97ZE
	Abreu 99
	Barate 99D
	Ackerstaff 98C
	Acciarri 97J
	Ackerstaff 97ZD
	Ackerstaff 97P
	Ackerstaff 97T
(172.3)	Acciarri 98B
	Acciarri 98J
	Acciarri 97K
	Acciarri 97Q
	Acciarri 97U
	Acciarri 97V
	Ackerstaff 97R
	Ackerstaff 97U
	Ackerstaff 97W
	Ackerstaff 97ZC
	Barate 97O
	Barate 97P
	Barate 97X
	Barate 97Y
	Acciarri 97T
(172.4)	Abreu 98F
(181)	Barate 98Q
(181 – 184)	Barate 99
	Barate 99B
	Abbiendi 98P
	Barate 98R
(182)	Barate 98Q
(182.6)	Ackerstaff 98R
	Abreu 99J
(182.7)	Acciarri 98Q
	Barate 99C
	Barate 99D
	Abreu 98F
	Acciarri 98F
	Acciarri 98J
	Acciarri 98ZD
	Ackerstaff 98C
(183)	Abreu 99B
	Abreu 99E
	Abreu 99I
	Abreu 99K
	Acciarri 99

$e^+ e^-$

	Abbiendi 98
	Abbiendi 98C
	Abbiendi 98G
	Abbiendi 98J
	Abbiendi 98L
	Abbiendi 98M
	Abbiendi 98N
	Abbiendi 98R
	Abreu 98J
	Abreu 98N
	Abreu 98Q
	Abreu 98T
	Abreu 98V
	Acciarri 98K
	Acciarri 98M
	Acciarri 98O
	Acciarri 98S
	Acciarri 98T
	Acciarri 98U
	Acciarri 98W
	Acciarri 98Z
	Acciarri 98ZC
	Acciarri 98ZF
	Ackerstaff 98E
	Ackerstaff 98N
	Ackerstaff 98U
	Ackerstaff 98V
	Barate 98I
	Barate 98Q
	Barate 98S
	Sopczak 98
(184)	Barate 98N
	Barate 98Q
	Barate 97Z

e^+ nucleon

0.5 – 0.52 (1.349 – 1.363)	
	Achasov 98D

$e^+ p$

0.51 (1.356)	Achasov 97
27.5 (7.245)	Ackerstaff 98L
	Ackerstaff 98M
	Ackerstaff 98W
27.57 (7.254)	Airapetyan 98
(296)	Derrick 96H
	Frey 96
	Aid 95B
	Aid 95G
(300)	Breitweg 99
	Adloff 98
	Adloff 98B
	Adloff 98C
	Adloff 98D
	Adloff 98E
	Adloff 98F
	Adloff 98G
	Adloff 98H
	Adloff 98I
	Adloff 98J
	Adloff 98L
	Breitweg 98
	Breitweg 98B
	Breitweg 98C
	Breitweg 98D
	Breitweg 98E
	Breitweg 98F
	Breitweg 98G
	Breitweg 98H
	Breitweg 98J
	Breitweg 98K
	Breitweg 98L
	Sinclair 98
	Adloff 97
	Adloff 97B
	Adloff 97C
	Adloff 97D
	Adloff 97E
	Adloff 97F
	Adloff 97G
	Adloff 97H
	Adloff 97I
	Adloff 97K
	Adloff 97L

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

$e^+ p$

	Adloff 97M
	Breitweg 97
	Breitweg 97B
	Breitweg 97C
	Breitweg 97D
	Breitweg 97E
	Breitweg 97F
	Breitweg 97G
	Breitweg 97H
	Breitweg 97I
	Breitweg 97J
	Breitweg 97K
	Breitweg 97L
	Breitweg 97N
	Adloff 96
	Adloff 96B
	Adloff 96C
	Aid 96
	Aid 96C
	Aid 96D
	Aid 96E
	Aid 96F
	Aid 96G
	Aid 96H
	Aid 96I
	Aid 96J
	Aid 96K
	Aid 96L
	Aid 96M
	Brummer 96
	Brummer 96B
	Derrick 96B
	Derrick 96C
	Derrick 96D
	Derrick 96E
	Derrick 96F
	Derrick 96G
	Derrick 96H
	Derrick 96I
	Aid 95J
	Derrick 95M
	Derrick 95N
	Derrick 95O
	Derrick 95Q
	Ahmed 94F

$e^+ n$

27.5 (7.25)	Ackerstaff 98M

e^+ nucleus

5	Degtyarenko 97
14.5	Elouadrhiri 94
	Degtyarenko 94

e^+ deuteron

27.5 (10.33)	Ackerstaff 98L
	Ackerstaff 98W

$e^+ {}^3He$

27.5 (12.71)	Ackerstaff 98L
	Ackerstaff 98W
	Adeva 98B
	Geiger 98
	Ackerstaff 97ZI

$e^+ {}^{14}Nit$

27.5 (29.79)	Ackerstaff 98W

$e^+ {}^{16}O$

5 (19.26)	Doroshkevich 98

$\mu^\pm$ Fe

120 (123.3)	Akkus 98

$\mu^- p$

0. (1.044)	Wright 98
	Depommier 94
	Hasinoff 94
	Jonkmans 94
0.063 (1.059)	Jonkmans 96

$\mu^- {}^3He$

0. (2.9)	Ackerbauer 97
	Cummings 95

$\mu^- {}^{11}Bor$

0. (10.35)	Wiaux 98

$\mu^- C$

200 (67.83)	Benvenuti 93
209 (69.29)	Arneodo 92

$\mu^- {}^{16}O$

0. (15.01)	Briancon 98

$\mu^- {}^{23}Na$

0. (21.53)	Johnson 96

$\mu^- {}^{28}Si$

0.06 (26.2)	Moftah 97

$\mu^- Ti$

0. (44.73)	Kaulard 98

$\mu^- {}^{58}Ni$

0. (54.13)	Gorringe 98

$\mu^- {}^{60}Ni$

0. (56)	Gorringe 98

$\mu^- {}^{62}Ni$

0. (57.86)	Gorringe 98

$\mu^- Cu$

209 (168.1)	Arneodo 92

$\mu^+ e^-$

0. (0.1062)	Jungmann 98
	Meyer 98
	Willmann 98
	Gordeev 97
	Abela 96
	Gordeev 96
	Gordeev 94

$\mu^+ p$

90 (13.03)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Badelek 95
	Arneodo 94C
	Nassalski 94
100 (13.73)	Adeva 98
	Adeva 98B
	Adeva 97B
	Degroot 96
	Wislicki 96
	Adeva 95
	Hughes 95
	Adams 94I
	Adeva 93B
	Altarelli 93
120 (15.04)	Adeva 98B
	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Adeva 93B
	Altarelli 93
190 (18.91)	Adeva 98
	Adeva 98B
	Adams 97B
	Adeva 97
	Adeva 97B
	Degroot 96
	Wislicki 96
	Adeva 95
	Ehrnsperger 95
	Hughes 95

$\mu^+ p$

	Velasco 95
	Adams 94G
	Witzmann 94
200 (19.4)	Adeva 98B
	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Arneodo 95D
	Arneodo 94
	Adeva 93B
	Altarelli 93
280 (22.94)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Badelek 95
	Arneodo 94
	Arneodo 94C
	Fialkowski 94
	Nassalski 94
350 – 600 (25.65 – 33.57)	
	Kotwal 94
465 (29.56)	Kotwal 94B
	Schellman 94
	Spentzouris 94
	Wolbers 94
470 (29.71)	Adams 97C
	Adams 97F
	Seligman 97
	Seligman 97C
	Adams 96
	Adams 95
	Adams 95C
	Adams 95D
	Badelek 95
	Kotwal 95
	Fang 94
490 (30.34)	Salgado 96
	Adams 95G
	Adams 94D
	Adams 94E
	Kotwal 94B
	Adams 93C
	Adams 93F

$\mu^+ n$

90 (13.04)	Badelek 95
	Arneodo 94C
280 (22.96)	Badelek 95
	Arneodo 94C
465 (29.58)	Spentzouris 94
	Wolbers 94
470 (29.73)	Adams 95

μ^+ nucleus

470	Fang 94

μ^+ deuteron

90 (18.47)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Badelek 95
	Arneodo 94C
	Mallot 94
	Nassalski 94
100 (19.46)	Adeva 98
	Adeva 98B
	Adeva 97B
	Degroot 96
	Wislicki 96
	Adeva 95
	Ehrnsperger 95
	Hughes 95
	Horikawa 94
	Lowe 94
	Mallot 94
	Niinikoski 94
	Adeva 93B

μ^+ deuteron

	Altarelli 93
	Arneodo 92
120 (21.3)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Arneodo 92
190 (26.76)	Adeva 98
	Adeva 98B
	Adeva 98C
	Adams 97
	Adeva 97B
	Degroot 96
	Wislicki 96
	Adams 95E
	Adeva 95
	Hughes 95
200 (27.45)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Amaudruz 95
	Arneodo 95
	Arneodo 95C
	Arneodo 95D
	Arneodo 94
	Arneodo 94B
	Paic 94
	Arneodo 92
	Arneodo 92
280 (32.46)	Arneodo 97
	Seligman 97
	Seligman 97C
	Arneodo 96
	Arneodo 95C
	Badelek 95
	Arneodo 94
	Arneodo 94C
	Mallot 94
	Nassalski 94
	Arneodo 92
	Arneodo 92
350 – 600 (36.28 – 47.48)	
	Kotwal 94
465 (41.81)	Kotwal 94B
	Schellman 94
	Spentzouris 94
	Wolbers 94
470 (42.03)	Seligman 97
	Seligman 97C
	Adams 96
	Adams 95
	Adams 95C
	Adams 95D
	Badelek 95
	Kotwal 95
	Fang 94
490 (42.91)	Salgado 96
	Adams 95F
	Adams 95G
	Conrad 95
	Adams 94D
	Adams 94E
	Adams 94F
	Adams 94H
	Kotwal 94B
	Mallot 94
	Adams 93C
	Adams 93D
	Adams 93F
	Arneodo 92
500 (43.35)	Conrad 95

μ^+ He

200 (38.8)	Amaudruz 95
	Arneodo 92

μ^+ Li

200 (51.26)	Paic 94

$\mu^+ {}^6Li$

90 (32.21)	Amaudruz 95

μ^+ ^{6}Li

200 (47.61)	Arneodo 95

μ^+ Be

90 (39.77)	Mallot 94
200 (58.55)	Arneodo 96B
280 (69.08)	Mallot 94

μ^+ C

90 (46.25)	Mallot 94
100 (48.61)	Arneodo 92
120 (53.01)	Arneodo 96C
	Arneodo 92
200 (67.83)	Arneodo 96B
	Arneodo 96C
	Amaudruz 95
	Arneodo 95D
	Arneodo 94
	Arneodo 94B
	Paic 94
	Arneodo 92
	Arneodo 92
280 (79.94)	Arneodo 96C
	Arneodo 94
	Mallot 94
	Arneodo 92
	Arneodo 92
465 (102.6)	Schellman 94
470 (103.2)	Adams 95C
	Adams 95D
	Badelek 95
	Fang 94
490 (105.3)	Salgado 96
	Adams 95G
	Conrad 95
	Kotwal 94B
	Mallot 94
500 (106.4)	Conrad 95

μ^+ ^{12}C

90 (46.23)	Amaudruz 95
200 (67.8)	Arneodo 95

μ^+ Nit

280 (86.47)	Arneodo 92

μ^+ Al

90 (71.8)	Mallot 94
200 (103.4)	Arneodo 96B
280 (121.3)	Mallot 94

μ^+ Ca

90 (90.08)	Mallot 94
200 (127.8)	Arneodo 96B
	Amaudruz 95
	Arneodo 95D
	Arneodo 94
	Arneodo 94B
	Arneodo 92
280 (149.3)	Arneodo 94
	Mallot 94
	Arneodo 92
465 (190)	Schellman 94
470 (191)	Adams 95C
	Adams 95D
	Badelek 95
	Fang 94
490 (194.9)	Salgado 96
	Adams 95G
	Conrad 95
	Kotwal 94B
	Mallot 94
500 (196.8)	Conrad 95

μ^+ ^{40}Ca

90 (89.97)	Amaudruz 95

μ^+ Fe

90 (109.9)	Mallot 94
120 (123.3)	Arneodo 92
200 (153.3)	Arneodo 96B
	Arneodo 92

μ^+ Fe

250 (169.5)	Arneodo 92
280 (178.4)	Mallot 94
	Arneodo 92

μ^+ Cu

100 (123.9)	Arneodo 92
120 (133.1)	Arneodo 92
200 (164.9)	Arneodo 92
280 (191.5)	Arneodo 92

μ^+ Sn

90 (179.2)	Mallot 94
100 (185.3)	Arneodo 92
120 (196.9)	Arneodo 96C
	Arneodo 92
200 (237.6)	Arneodo 96B
	Arneodo 96C
	Arneodo 94
	Arneodo 92
	Arneodo 92
280 (272.3)	Arneodo 96C
	Arneodo 94
	Mallot 94
	Arneodo 92
	Arneodo 92

μ^+ Xe

490 (367.2)	Conrad 95
	Adams 94F
	Adams 94H
	Adams 93D
	Arneodo 92

μ^+ Pb

200 (338.3)	Arneodo 96B
465 (465.6)	Schellman 94
470 (467.6)	Adams 95C
	Adams 95D
	Badelek 95
	Fang 94
490 (475.8)	Salgado 96
	Adams 95G
	Conrad 95
	Kotwal 94B
	Mallot 94
500 (479.9)	Conrad 95

neutralino neutralino

(7000)	Strausz 97

neutralino nucleon

?	Bottino 97

neutralino p

?	Minowa 98

neutralino nucleus

?	Ambrosio 98C
	Bottino 97

neutralino ^{23}Na

?	Bottino 97

neutralino ^{127}I

?	Bottino 97

neutralino ^{129}Xe

0.	Bottino 98

higgsino higgsino

(7000)	Strausz 97

cosmion nucleon

?	Bottino 97

cosmion nucleus

$9 \cdot 10^{-6} - 0.008$	
	Baudis 98
?	Ambrosio 98C
	Klimenko 98B
	Bottino 97

cosmion ^{23}Na

?	Bottino 97

cosmion ^{23}Na

	Sarsa 97

cosmion Na

?	Smith 96

cosmion Ge

?	Klimenko 98B

cosmion ^{76}Ge

?	Klimenko 98B

cosmion I

?	Smith 96

cosmion ^{127}I

?	Bottino 97
	Sarsa 97

cosmion ^{129}Xe

0.	Bottino 98
?	Bernabei 98

dark dark

(7000)	Strausz 97

dark nucleon

?	Bottino 97

dark nucleus

$9 \cdot 10^{-6} - 0.008$	
	Baudis 98
?	Bottino 97
	Sarsa 96
	Beck 94

dark ^{16}O

0.	Snowdenifft 95

dark ^{23}Na

?	Bottino 97

dark Na

?	Smith 96

dark ^{27}Al

0.	Snowdenifft 95

dark ^{28}Si

0.	Snowdenifft 95

dark ^{39}KK

0.	Snowdenifft 95

dark ^{130}Te

?	Alessandrell 96

dark I

?	Smith 96

dark ^{127}I

?	Bottino 97

dark ^{129}Xe

0.	Bottino 98
	Belli 96
?	Bernabei 98

dark ^{206}Pb

?	Alessandrell 96

monopole nucleus

?	Balkanov 98

techniomega techniomega

(7000)	Strausz 97

unspec nucleus

> 1000	Asakimori 94
$> 10^4$	Wilk 95
$10^5 - 10^6$	Wilk 95
$10^5 - 6.2 \cdot 10^6$	Kopenkin 94
$10^5 - 10^7$	Gress 98
$> 10^5$	Kopenkin 94B
$4 \cdot 10^5 - 3 \cdot 10^6$	
	Borisov 94
$10^8 - 5 \cdot 10^{10}$	Glushkov 97

unspec nucleus

$3 \cdot 10^9 - 3 \cdot 10^{11}$	
	Takeda 98
$> 3 \cdot 10^9$	Yoshida 95
$> 10^{11}$	Carrel 94
$1.7 \cdot 10^{11} - 2.6 \cdot 10^{11}$	
	Hayashida 94

neutral Be

260 – 500	Woods 96

hadron nucleus

$10^5 - 6.2 \cdot 10^6$	Kopenkin 94
$4 \cdot 10^5 - 3 \cdot 10^6$	
	Borisov 94
$> 5 \cdot 10^5$	Borisov 97
	Hasegawa 96B

hadron Mg

100	Whitmore 94

hadron Fe

$> 10^4$	Alibekov 97

hadron Ag

100	Whitmore 94

hadron Au

100	Whitmore 94

hadron Pb

> 6300	Arisawa 94
$> 10^5$	Wilk 95
	Arisawa 94

longlived nucleus

< 300	Altegoer 98

$\pi^\pm$ p

160 – 380 (17.35 – 26.72)	
	Naples 94
200 – 300 (19.4 – 23.75)	
	Adams 94
(20 – 25)	Alton 96

$\pi^\pm$ deuteron

160 – 380 (24.57 – 37.8)	
	Naples 94

$\pi^\pm$ Be

160 – 380 (52.51 – 80.32)	
	Naples 94

$\pi^\pm$ C

160 – 380 (60.87 – 92.89)	
	Naples 94

$\pi^\pm$ Al

160 – 380 (93.14 – 140.5)	
	Naples 94

$\pi^\pm$ Ti

1.4 (46.01)	Bayukov 94

$\pi^\pm$ Fe

1.4 (53.41)	Bayukov 94

$\pi^\pm$ Cu

160 – 380 (149.8 – 220.2)	
	Naples 94

$\pi^\pm$ Pb

160 – 380 (314.7 – 428.9)	
	Naples 94

π^+ π^+

(0.2846 – 0.3317)	
	Kermani 98B

π^+ π^-

0.0566 – 0.213 (0.285 – 0.332)	
	Kermani 98C
(0.3 – 1.9)	Anisovich 95

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π^+ nucleon

250 (21.69) Karchin 95
Wallace 94

π^+ p

0.09595 – 0.3998 (1.104 – 1.302) Kriss 99
0.0963 – 2.161 (1.104 – 2.228) Arndt 95
0.1001 (1.106) Joram 95
0.101 (1.106) Joram 95B
0.1202 (1.116) Joram 95
0.1209 (1.116) Joram 95B
0.154 (1.136) Wieser 96
0.1544 (1.136) Joram 95B
0.1785 – 0.2411 (1.151 – 1.193) Brack 95
0.2153 – 0.3819 (1.175 – 1.29) Smith 98B
0.2718 – 0.7253 (1.214 – 1.512) Abaev 95B
0.2919 (1.228) Lange 98
0.2986 (1.232) Pocanic 94
0.3096 (1.24) Lange 98
Pocanic 94
0.3314 (1.255) Pocanic 94
0.3346 (1.257) Kermani 98
0.3346 – 0.3999 (1.257 – 1.302) Kermani 98B
0.353 (1.27) Pocanic 94
0.3562 (1.272) Kermani 98
0.3744 (1.284) Pocanic 94
0.3787 (1.287) Kermani 98
0.3999 (1.302) Kermani 98
0.4221 (1.317) Kermani 98
(1.6 – 2.5) Wang 97E
1.43 (1.896) Abaev 95
Alekseev 95
3.54 (2.747) Sapozhnikov 95
3.6 – 4.2 (2.768 – 2.964) Bulekov 94
Drutskoi 93
3.94 (2.881) Landsberg 94C
4.137 (2.944) Bulekov 97B
4.2 (2.964) Mikhajlichen 97
Brovkin 94
4.23 (2.974) Bulekov 98
Mikhailichen 98
5.9 (3.46) White 94B
6.2 (3.541) Bulekov 94
20 (6.199) Ferrer 98
Ferrer 96
Perepelitsa 96
80 (12.29) Apsimon 93
140 (16.24) Apsimon 93
147 (16.64) Arena 95
Fuess 94C
250 (21.68) Agababyan 98
Agababyan 97
Agababyan 96
Agababyan 96B
Agababyan 96C
Ferenc 96
Agababyan 95B
Agababyan 95C
Agababyan 95D
Agababyan 94
Agababyan 94B
Agababyan 94C
Agababyan 94D
Ajinenko 94
280 (22.94) Vogelsang 97
300 (23.75) Vogelsang 97
(50) Breitweg 97M

π^+ n

1.54 – 2.6 (1.951 – 2.407) Sapozhnikov 95
5.98 (3.485) Svec 96
11.85 (4.814) Svec 96

π^+ deuteron

0.07313 – 0.1192 (2.032 – 2.056) Pasyuk 96
0.0872 (2.038) Yeomans 94

π^+ deuteron

0.1161 – 0.1496 (2.054 – 2.075) Saunders 96
0.1268 (2.06) Kohler 94
0.1496 (2.075) Yeomans 94
0.1563 (2.079) Lehmann 98
0.1947 (2.106) Lolos 96
0.1947 – 0.3637 (2.106 – 2.236) Feltham 97
0.1947 – 0.4105 (2.106 – 2.272) Wessler 95
0.2165 (2.122) Lehmann 98
Alteholz 94
0.2353 (2.136) Suft 98
Yeomans 95
0.2673 (2.161) Lehmann 98
Alteholz 94
0.2707 (2.163) Lolos 96
0.2875 (2.176) Suft 98
0.321 (2.202) Prokofiev 95
0.34 (2.217) Yeomans 95
0.3519 (2.227) Backenstoss 98
Lehmann 98
Alteholz 94
0.3749 (2.245) Prokofiev 95
0.3957 (2.261) Camerini 93
0.3989 (2.263) Bonutti 98
Bonutti 97
0.4278 (2.286) Prokofiev 95
0.4484 (2.302) Lehmann 98
0.5388 (2.372) Gridnev 95
< 0.6242 (< 2.437) Arndt 93
0.6242 (2.437) Peterson 95

π^+ ^{3}H

0.2445 (3.066) Dowell 95B
Matthews 95
Matthews 94
0.2875 (3.101) Dhuga 96
Matthews 95
Matthews 94
0.3314 (3.137) Dhuga 96
Matthews 95
Matthews 94
0.3701 (3.169) Dhuga 96
Matthews 95
Matthews 94
0.4115 (3.203) Dhuga 96

π^+ ^{3}He

0.1081 (2.969) Hahn 94
0.1563 (3) Lehmann 98
Lehmann 97
0.2165 (3.044) Lehmann 98
Lehmann 97
Backenstoss 96
Alteholz 94
0.2189 (3.046) Angelescu 96
0.2445 (3.066) Espy 97
Espy 96
Matthews 95
Matthews 94
0.2673 (3.085) Lehmann 98
Lehmann 97
Backenstoss 96
Alteholz 94
0.2875 (3.101) Espy 97
Dhuga 96
Espy 96
Matthews 95
Matthews 94
0.3314 (3.137) Dhuga 96
Matthews 95
Matthews 94
0.3519 (3.154) Lehmann 98
Lehmann 97
Androic 96
Backenstoss 96
Alteholz 94
0.3584 (3.159) Dowell 95
Dowell 94
0.3701 (3.169) Espy 97
Dhuga 96
Espy 96

π^+ ^{3}He

Matthews 95
Matthews 94
0.4115 (3.203) Dhuga 96
0.4484 (3.233) Lehmann 98
Lehmann 97

π^+ ^{4}He

0.1482 (3.927) Breuer 94
0.1563 (3.932) Backenstoss 98B
Grater 98
Lehmann 98
Lehmann 97
Lehmann 97B
0.1563 – 0.2306 (3.932 – 3.989) Grafter 98
0.1695 (3.942) Grater 98
0.1785 (3.949) Breuer 94
0.1823 (3.951) Grater 98
0.1947 (3.961) Grater 98
0.2117 (3.974) Breuer 94
0.2129 (3.975) Grater 98
0.2165 (3.978) Backenstoss 98B
Lehmann 98
Lehmann 97
Lehmann 97B
0.2189 (3.98) Rzehorz 96
0.2306 (3.989) Grater 98
0.2673 (4.019) Backenstoss 98B
Lehmann 98
Lehmann 97
Lehmann 97B
Breuer 94
0.3205 (4.063) Rzehorz 96
0.3281 (4.069) Breuer 94
0.3519 (4.089) Backenstoss 98B
Lehmann 98
Lehmann 97
Lehmann 97B
Androic 96
0.353 (4.09) Pate 94
0.3936 (4.125) Breuer 94
0.3957 (4.127) Camerini 93
0.4452 (4.169) Breuer 94
0.4484 (4.172) Lehmann 98
Lehmann 97
Lehmann 97B
1 (4.629) Nagae 94

π^+ Li

300 (62.61) Antoniazzi 94B
Garbincius 94

π^+ ^{6}Li

0.1161 – 0.1496 (5.769 – 5.792) Saunders 96
0.1947 (5.825) Lolos 96
Papandreou 95B
0.2707 (5.887) Lolos 96
Papandreou 95B
1.05 (6.565) Ajimura 98
1.07 (6.582) Kishimoto 94

π^+ ^{7}Li

0.2353 (6.79) Meier 94
0.2696 (6.818) Meier 94
0.303 (6.847) Meier 94
300 (62.89) Sansoni 95
Antoniazzi 94

π^+ Be

250 (65.33) Alves 96
Alves 96B
Halling 96
Gardner 95
Appel 94
Alves 93
Alves 93B

π^+ ^{10}Bor

1.06 (10.33) Hasegawa 96
Nagae 95

π^+ ^{11}Bor

1.05 (11.26) Noumi 95

π^+ C

0.1161 – 0.1496 (11.37 – 11.39) Saunders 96
200 (67.83) Vogelsang 97

π^+ ^{12}C

0.08801 (11.34) Hanna 94
0.1947 (11.42) Huber 97
0.2707 (11.48) Huber 97
0.3096 (11.52) Tacik 98
0.353 (11.55) Tacik 98
0.3957 (11.59) Tacik 98
0.3989 (11.6) Bonutti 97
0.5212 (11.71) Kahrimanis 97
0.6242 (11.8) Kahrimanis 97
1.05 (12.19) Bhang 98
Bhang 98B
Sato 98
Kishimoto 95
Noumi 95
Ajimura 94
1.06 (12.2) Hasegawa 96
Hasegawa 95
Nagae 95
1.07 (12.21) Kishimoto 94

π^+ ^{13}C

0.08801 (12.27) Hanna 94

π^+ Nit

0.3519 (13.42) Kotlinski 98
Androic 96

π^+ ^{16}O

0.1496 (15.1) Bilger 98B
0.3957 (15.31) Camerini 93

π^+ ^{20}Ne

0.2189 (18.89) Burlein 95
0.2875 (18.95) Burlein 95

π^+ Mg

100 (71) Whitmore 94

π^+ Al

0.1161 – 0.1496 (25.31 – 25.34) Saunders 96
250 (114.9) Alves 96
Alves 96B
Dewolf 96
Dewolf 96B
Halling 96
Agababyan 95
Agababyan 95B
Gardner 95
Appel 94
Alves 93
Alves 93B

π^+ ^{27}Al

0.1947 (25.39) Mckinzie 94
0.2189 (25.41) Mckinzie 94
0.2422 (25.43) Mckinzie 94
0.2696 (25.45) Mckinzie 94
0.2875 (25.47) Mckinzie 94
0.3096 (25.49) Mckinzie 94
0.3422 (25.52) Mckinzie 94
0.3748 (25.55) Mckinzie 94
0.4099 (25.58) Mckinzie 94

π^+ Si

0.1161 – 0.1496 (26.34 – 26.37) Saunders 96

π^+ ^{28}Si

0.3749 (26.48) Rawoolsulliv 94
1.05 (27.12) Bhang 98
Bhang 98B
1.06 (27.13) Hasegawa 96
Nagae 95

π^+ S

0.1161 – 0.1496 (30.05 – 30.07) Saunders 96

π^+ Ar

0.1563 (37.42) Kotlinski 98
0.2165 (37.47) Kotlinski 98
0.2673 (37.51) Kotlinski 98
0.3519 (37.59) Kotlinski 98
Androic 96

π^+ Ca

0.1161 – 0.1496 (37.52 – 37.54) Saunders 96

π^+ ^{40}Ca

0.3989 (37.68) Bonutti 97
0.5212 (37.8) Kahrimanis 97
0.6242 (37.89) Kahrimanis 97

π^+ Ti

1.4 (46.01) Bayukov 94

π^+ ^{56}Fe

1.05 (53.21) Bhang 98B

π^+ Fe

1.05 (53.07) Bhang 98
1.4 (53.41) Bayukov 94

π^+ ^{58}Ni

0.2189 – 0.4084 (54.29 – 54.46) Fortune 94
0.2875 (54.35) Laymon 96

π^+ Ni

0.2422 (54.97) Fortune 97
0.2875 (55.01) Fortune 97
0.3422 (55.06) Fortune 97

π^+ ^{60}Ni

0.2875 (56.21) Laymon 96

π^+ ^{62}Ni

0.2875 (58.07) Laymon 96

π^+ ^{64}Ni

0.2875 (59.93) Laymon 96

π^+ Cu

250 (181.9) Alves 96
Alves 96B
Halling 96
Gardner 95
Appel 94
Alves 93
Alves 93B

π^+ ^{76}Se

0.4096 (71.23) Hui 95

π^+ Se

0.233 (73.82) Hui 94
0.2718 (73.86) Hui 94
0.303 (73.88) Hui 94

π^+ ^{78}Se

0.4096 (72.99) Hui 95

π^+ ^{80}Se

0.4096 (74.86) Hui 95

π^+ ^{82}Se

0.4096 (76.81) Hui 95

π^+ ^{89}Yt

1.06 (83.96) Hasegawa 96
Nagae 95

π^+ ^{90}Zr

0.5212 (84.37) Kahrimanis 97
0.6242 (84.47) Kahrimanis 97

π^+ ^{93}Nb

0.2696 (87.23) Kagarlis 94
0.3422 (87.3) Kagarlis 94
0.4102 (87.36) Kagarlis 94

π^+ Ag

100 (173.8) Whitmore 94

π^+ Xe

0.3519 (122.7) Kotlinski 98
2.34 (124.6) Strugalskago 94
3.5 (125.8) Strugalskago 94
5 (127.2) Strugalskago 94
9 (131) Strugalskago 94

π^+ ^{139}La

1.06 (130.6) Hasegawa 96
Nagae 95

π^+ Wt

250 (339.1) Alves 96
Alves 96B
Halling 96
Gardner 95
Appel 94
Alves 93
Alves 93B

π^+ Au

100 (265.2) Whitmore 94
250 (354.1) Dewolf 96
Dewolf 96B
Agababyan 95
Agababyan 95B

π^+ Pb

2 (195) Pienkowski 97
3 (196) Pienkowski 97
4 (197) Pienkowski 97
5 (197.9) Pienkowski 97

π^+ ^{208}Pb

0.3957 (194.2) Camerini 93
0.3989 (194.2) Bonutti 97
0.5212 (194.3) Kahrimanis 97
0.6242 (194.4) Kahrimanis 97
1.06 (194.8) Hasegawa 96
Nagae 95

π^- e^-

600 (0.7871) Eschrich 98

π^- π^+

(0.2846 – 0.3317) Kermani 98B

π^- nucleon

36.6 (8.344) Berdnikov 94
Berdnikov 94B
37 (8.389) Achasov 94
Amelin 94
Zaitsev 94
40 (8.719) Gulamov 96B
50 (9.736) Tretyakova 95
200 (19.4) Belaga 95F
Belaga 94B
Belaga 94C
250 (21.69) Karchin 95
Wallace 94
300 (23.75) Montanet 95
350 (25.65) Adinolfi 99
Adamovich 98C
500 (30.66) Aitala 98E
Aitala 96C
600 (33.58) Slaughter 96

π^- p

0. (1.078) Badertscher 96
Sigg 95
0.09 (1.101) Dress 94
0.09183 (1.102) Frlez 97

π^- p

0.0963 – 2.161 (1.104 – 2.228) Arndt 95
0.1001 (1.106) Joram 95
0.101 (1.106) Joram 95B
0.1186 (1.115) Janousch 97
0.1202 (1.116) Joram 95
0.1209 (1.116) Joram 95B
0.1287 (1.121) Janousch 97
0.1389 (1.127) Janousch 97
0.1489 (1.133) Janousch 97
0.1544 (1.136) Joram 95B
0.159 (1.139) Janousch 97
0.1695 – 0.3998 (1.145 – 1.302) Kriss 99
0.1739 (1.148) Kermani 98C
0.1785 – 0.2411 (1.151 – 1.193) Brack 95
0.1785 – 0.3541 (1.151 – 1.27) Smith 98B
0.1947 – 0.3637 (1.162 – 1.277) Stasko 94
0.1989 (1.164) Kermani 98C
0.2241 (1.181) Kermani 98C
0.2473 (1.197) Kermani 98C
0.2673 – 0.7253 (1.211 – 1.512) Abaev 95B
0.2875 (1.225) Lange 98
0.2919 (1.228) Lange 98
0.2986 (1.232) Lange 98
0.3096 (1.24) Lange 98
0.3346 (1.257) Kermani 98
0.3346 – 0.3999 (1.257 – 1.302) Kermani 98B
0.3562 (1.272) Kermani 98
0.3787 (1.287) Kermani 98
0.3999 (1.302) Kermani 98
0.4221 (1.317) Kermani 98
0.573 (1.417) Lopatin 94
0.655 (1.469) Lopatin 94
0.686 (1.488) Lopatin 94
0.726 (1.512) Lopatin 94
0.7365 (1.519) Takahashi 95
0.838 (1.579) Takahashi 95
(1.6 – 2.5) Wang 97E
0.919 (1.626) Takahashi 95
1.025 (1.686) Takahashi 95
1.78 (2.062) Alekseev 97
2 – 14 (2.159 – 5.213) Landsberg 94C
4.35 (3.011) Aleshin 94
5 – 6 (3.207 – 3.487) Sapozhnikov 95
5.75 – 13.02 (3.42 – 5.033) Landsberg 94C
5.9 (3.46) White 94B
5.98 (3.482) Svec 96
6.3 (3.567) Aoyagi 94
8 (3.989) Landberg 96
10 (4.435) Sapozhnikov 95
11.85 (4.81) Svec 96
12 (4.839) Ferrer 98
Ferrer 96
16 (5.561) Karnaukhov 98
Karnaukhov 98B
Karnaukhov 96C
Karnaukhov 95
Karnaukhov 95B
Karnaukhov 95C
Landsberg 94C
Karnaukhov 93
17.2 (5.76) Svec 96
Anisovich 95
18 (5.889) Thompson 97
Adams 96B
Brabson 96
Cason 96
Dowd 96
Weygand 96
Lee 94
18.3 (5.937) Thompson 98
22 (6.495) Bertolotto 94
32 (7.807) Prokoshkin 96E
32.5 (7.867) Golovkin 97
Sapozhnikov 95

π^- p

Victorov 95
Victorov 95B
36 (8.274) Ryabchikov 96
Amelin 95
38 (8.498) Prokoshkin 96
Prokoshkin 96B
Prokoshkin 96C
Prokoshkin 96D
Prokoshkin 96E
Alde 95
Anisovich 95
Chklovskaia 95
Donskov 95
Kondashov 95
Stroot 95
Alde 94
Alde 94B
Alde 94C
Donskov 94
Kondashov 94
Kulik 94
Sadovsky 94
Alde 93
40 (8.716) Akhobadze 98
Barkov 98
Akhobadze 97
Akhobadze 97B
Badalyan 97
Batalova 97
Badalyan 96
Grigoriev 96
Baloshin 95
Bolonkin 95
Boos 95
Angelov 94
Zhumanov 94
80 (12.29) Apsimon 93
100 (13.73) Alde 98
Alde 96
Donskov 95
Stroot 95
Prokoshkin 94
140 (16.24) Apsimon 93
280 (22.94) Vogelsang 97
Belogianni 96
300 (23.75) Vogelsang 97
360 (26.01) Slaughter 96
Sapozhnikov 95
400 (27.41) Bordner 96
(50) Breitweg 97M

π^- n

40 (8.722) Boos 95

π^- nucleus

3.6 – 4.2 Bulekov 94
4 Tomizawa 94
4.137 Bulekov 97B
6.2 Bulekov 94
36 Ryabchikov 96
40 Bondarev 98
Vasilevsky 95
Ivanshin 94
50 Tretyakova 95
60 Cherry 97
200 Cherry 97
Belaga 95F
Ghosh 95B
Belaga 94B
Belaga 94C
300 Cherry 97
Drndarevic 95
340 Halling 96
Adamovich 94D
Elnadi 94B
Freyberger 94
350 Slaughter 96
Adamovich 95
Ghosh 95B
Ghosh 94
500 Aitala 98C
Aitala 98D
Aitala 96D
James 96

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

π^- nucleus

	Aitala 95
	Gardner 95
	Carter 94
	Carter 94B
	Nguyen 94
	Purohit 94
	Purohit 94B
525	Cherry 97
	Cherry 94C
600	Kodama 96
	Slaughter 96
	Kodama 95
	Freyberger 94
	Garbincius 94
	Gibaut 94B
	Kodama 94

π^- deuteron

0. (2.015)	Hauser 98
0.1161 – 0.1496 (2.054 – 2.075)	Saunders 96
0.1268 (2.06)	Kohler 94
0.5388 (2.372)	Gridnev 95
0.6242 (2.437)	Peterson 95
< 0.8 (< 2.566)	Howell 98
38 (12.09)	Chklovskaia 95
40 (12.39)	Akhobadze 98
	Akhobadze 97
	Akhobadze 97B

π^- ^{3}H

0.2445 (3.066)	Matthews 95
	Matthews 94
0.2875 (3.101)	Dhuga 96
	Matthews 95
	Matthews 94
0.3314 (3.137)	Dhuga 96
	Matthews 95
	Matthews 94
0.3701 (3.169)	Dhuga 96
	Matthews 95
	Matthews 94
0.4115 (3.203)	Dhuga 96

π^- ^{3}He

0. (2.934)	Gotta 94
0.1081 (2.969)	Hahn 94
0.1461 (2.993)	Duncan 98
0.1731 (3.012)	Duncan 98
0.2445 (3.066)	Espy 97
	Matthews 95
	Matthews 94
0.2875 (3.101)	Espy 97
	Dhuga 96
	Matthews 95
	Matthews 94
0.3314 (3.137)	Dhuga 96
	Matthews 95
	Matthews 94
0.3584 (3.159)	Dowell 95
	Dowell 94
0.3701 (3.169)	Espy 97
	Dhuga 96
	Matthews 95
	Matthews 94
0.4115 (3.203)	Dhuga 96

π^- Li

300 (62.61)	Antoniazzi 94B
	Garbincius 94

π^- ^{6}Li

0.1161 – 0.1496 (5.769 – 5.792)	Saunders 96
4 (8.718)	Tomizawa 94

π^- ^{7}Li

300 (62.89)	Sansoni 95
	Antoniazzi 94

π^- Be

36 (25.98)	Zaitsev 96
	Amelin 95B

π^- Be

37 (26.3)	Amelin 98
	Amelin 98B
	Amelin 95C
	Achasov 94
40 (27.24)	Efremov 97
	Antipov 95
	Ivanshin 94
	Antipov 93B
43 (28.15)	Kartasheva 97
	Kartasheva 96
85 (38.7)	Bertolotto 94
150 (50.88)	Belogianni 95
	Belogianni 94
	Belogianni 93B
210 (59.97)	Alves 96B
250 (65.33)	Alves 97
	Alves 96
	Alves 96B
	Halling 96
	Gardner 95
	Appel 94
	Alves 93
	Alves 93B
300 (71.47)	Belogianni 95
	Belogianni 94
	Belogianni 93B
500 (92.01)	Vogelsang 97
	Alverson 93B
515 (93.37)	Apanasevich 97
	Apanasevich 97B
	Koreshev 96
	Slaughter 96
	Conrad 95
	Gribushin 95
	Sansoni 95
	Garbincius 94
	Jesik 94
530 (94.71)	Conrad 95

π^- C

0.1161 – 0.1496 (11.37 – 11.39)	Saunders 96
38 (31.23)	Chklovskaia 95
40 (31.94)	Akhobadze 98
	Akhobadze 97
	Akhobadze 97B
	Badalyan 97
	Kuznetsov 97B
	Kuznetsov 97C
	Badalyan 96
	Grigoriev 96
	Gulamov 96B
	Boos 95
	Angelov 94
	Ivanshin 94
200 (67.83)	Vogelsang 97
250 (75.63)	Appel 94
345 (88.57)	Adamovich 97
500 (106.4)	Aitala 98
	Aitala 98B
	Aitala 97
	Aitala 97B
	Aitala 97C
	Aitala 97D
	Aitala 97E
	Aitala 97F
	Aitala 96
	Aitala 96B
	Aitala 96E
	Aitala 96F

π^- ^{12}C

0.07735 (11.34)	Burleson 94
0.08801 (11.34)	Hanna 94
0.113 (11.36)	Burleson 94
0.5212 (11.71)	Kahrimanis 97
0.6242 (11.8)	Kahrimanis 97
0.7365 (11.91)	Takahashi 95
0.838 (12)	Takahashi 95
0.919 (12.07)	Takahashi 95
1.025 (12.17)	Takahashi 95
40 (31.93)	Kulakov 97

π^- ^{12}C

	Abdinov 95

π^- ^{13}C

0.08801 (12.27)	Hanna 94

π^- Nit

0. (13.19)	Lenz 98
0.085 (13.21)	Anagnastopou 97

π^- ^{16}O

0.07735 (15.06)	Burleson 94
0.113 (15.08)	Burleson 94
0.7263 (15.62)	Abramov 96B
0.8785 (15.77)	Abramov 96B

π^- ^{18}O

0.07735 (16.93)	Burleson 94
0.113 (16.95)	Burleson 94

π^- Ne

3.6 – 4.2 (22.1 – 22.6)	Bulekov 94
3.9 (22.35)	Mikhajlichen 97
6.2 (24.21)	Kiselevich 95
	Bulekov 94
	Kiselevich 94

π^- ^{20}Ne

0.2875 (18.95)	Burlein 95

π^- ^{24}Mg

0. (22.5)	Jeckelmann 94

π^- Mg

100 (71)	Whitmore 94
320 (122.5)	Whitmore 94

π^- Al

0.1161 – 0.1496 (25.31 – 25.34)	Saunders 96
3.15 (28.11)	Bayukov 94
40 (51.4)	Ivanshin 94
	Antipov 93B
210 (105.8)	Alves 96B
250 (114.9)	Alves 97
	Alves 96
	Alves 96B
	Halling 96
	Gardner 95
	Appel 94
	Alves 93
	Alves 93B

π^- Si

0.1161 – 0.1496 (26.34 – 26.37)	Saunders 96
40 (52.7)	Efremov 97
	Ivanshin 94
340 (135.9)	Halling 96
	Alves 93B
530 (168.6)	Conrad 95

π^- ^{28}Si

0.3749 (26.48)	Rawoolsulliv 94

π^- S

0.1161 – 0.1496 (30.05 – 30.07)	Saunders 96

π^- Ca

0.1161 – 0.1496 (37.52 – 37.54)	Saunders 96

π^- ^{40}Ca

0.07735 (37.42)	Burleson 94
0.113 (37.44)	Burleson 94
0.5212 (37.8)	Kahrimanis 97
0.6242 (37.89)	Kahrimanis 97

π^- ^{48}Ca

0.07735 (44.87)	Burleson 94
0.113 (44.89)	Burleson 94

π^- Ti

40 (74.57)	Ivanshin 94

π^- ^{58}Ni

0.07735 (54.19)	Burleson 94
0.113 (54.21)	Burleson 94
0.2875 (54.35)	Laymon 96

π^- ^{60}Ni

0.2875 (56.21)	Laymon 96

π^- ^{62}Ni

0.2875 (58.07)	Laymon 96

π^- ^{64}Ni

0.2875 (59.93)	Laymon 96

π^- Cu

38 (89.46)	Chklovskaia 95
40 (90.77)	Akhobadze 98
	Akhobadze 97
	Akhobadze 97B
	Ivanshin 94
	Antipov 93B
210 (168.4)	Alves 96B
230 (175.3)	Slaughter 96
	Rybicki 95
	Barlag 94
250 (181.9)	Alves 97
	Alves 96
	Alves 96B
	Halling 96
	Gardner 95
	Appel 94
	Alves 93
	Alves 93B
340 (209.2)	Halling 96
	Alves 93B
345 (210.6)	Adamovich 97
350 (212)	Adamovich 98
	Alexandrov 98
	Adamovich 97B
	Adamovich 96
	Adamovich 96B
	Adamovich 95B
515 (253.9)	Conrad 95
	Sansoni 95
	Garbincius 94
530 (257.4)	Conrad 95

π^- Se

0.2718 (73.86)	Hui 94

π^- ^{90}Zr

0.07735 (83.99)	Burleson 94
0.113 (84.01)	Burleson 94
0.5212 (84.37)	Kahrimanis 97
0.6242 (84.47)	Kahrimanis 97

π^- Ag

40 (134.7)	Ivanshin 94
100 (173.8)	Whitmore 94
320 (272.8)	Whitmore 94

π^- Xe

2.34 (124.6)	Strugalskago 94
3.5 (125.8)	Strugalskago 96
	Strugalski 96
	Strugalskago 94
5 (127.2)	Strugalskago 94
9 (131)	Strugalskago 94

π^- Ta

40 (204.7)	Ivanshin 94

π^- Wt

140 (278)	Slaughter 96
194 (309.5)	Slaughter 96
210 (318.2)	Alves 96B
250 (339.1)	Alves 97
	Alves 96
	Alves 96B
	Halling 96
	Gardner 95
	Appel 94
	Alves 93
	Alves 93B
286 (356.8)	Slaughter 96
340 (381.8)	Halling 96
	Alves 93B
350 (386.3)	Adamovich 97B
	Adamovich 96B
	Adamovich 95B

π^- Pt

250 (352)	Appel 94
500 (463.4)	Aitala 98
	Aitala 98B
	Aitala 97
	Aitala 97B
	Aitala 97C
	Aitala 97D
	Aitala 97E
	Aitala 97F
	Aitala 96
	Aitala 96B
	Aitala 96E
	Aitala 96F

π^- Au

100 (265.2)	Whitmore 94
320 (388.7)	Whitmore 94

π^- ^{197}Au

5 – 9.2 (189.3 – 193.3)	
	Kwiatkowski 98

π^- Pb

2 (195)	Pienkowski 97
3 (196)	Pienkowski 97
3.15 (196.1)	Bayukov 94
4 (197)	Pienkowski 97
5 (197.9)	Pienkowski 97
38 (227.9)	Chklovskaia 95
40 (229.6)	Akhobadze 98
	Akhobadze 97
	Akhobadze 97B
	Efremov 97
	Ivanshin 94
	Antipov 93B

π^- ^{208}Pb

0.07735 (193.9)	
	Raywood 97
	Burleson 94
0.0872 (193.9)	Raywood 97
0.113 (193.9)	Burleson 94
0.5212 (194.3)	Kahrimanis 97
0.6242 (194.4)	Kahrimanis 97

π^- U

320 (437.1)	Slaughter 96

η nucleon

0.2 – 0.7 (1.508 – 1.688)	
	Barmin 96

ρ^0 nucleon

200 (19.42)	Arneodo 94

ρ^0 p

(60 – 80)	Derrick 95R

ω nucleon

0.2 – 0.7 (1.734 – 1.861)	
	Barmin 96

ω p

(70 – 90)	Derrick 96D

K^+ nucleon

250 (21.69)	Karchin 95
	Wallace 94

K^+ p

5.9 (3.498)	White 94B
80 (12.3)	Apsimon 93
140 (16.24)	Apsimon 93
147 (16.64)	Arena 95
250 (21.69)	Agababyan 98
	Agababyan 97
	Agababyan 96
	Agababyan 96B
	Agababyan 96C
	Agababyan 95B
	Agababyan 95C
	Agababyan 95D
	Agababyan 94B
	Agababyan 94C
	Ajinenko 94

K^+ nucleus

0.3811	Berdnikov 96B
0.4873	Berdnikov 96
70	Elnadi 94B

K^+ deuteron

0.488 (2.523)	Weiss 94
0.531 (2.546)	Weiss 94
0.656 (2.616)	Weiss 94
0.705 (2.644)	Kormanyos 95
0.714 (2.649)	Weiss 94

K^+ ^{6}Li

0.488 (6.264)	Friedman 97
	Weiss 94
0.531 (6.292)	Friedman 97
	Weiss 94
0.656 (6.376)	Friedman 97
	Weiss 94
0.713 (6.417)	Friedman 97
0.714 (6.417)	Weiss 94
0.715 (6.418)	Chrien 97
	Michael 96

K^+ Be

250 (65.33)	Alves 96
	Alves 96B
	Appel 94

K^+ C

0.488 (11.87)	Friedman 97
0.531 (11.9)	Friedman 97
0.656 (11.99)	Friedman 97
0.705 (12.03)	Kormanyos 95
0.713 (12.03)	Friedman 97
0.715 (12.04)	Michael 96

K^+ ^{12}C

0.488 (11.86)	Weiss 94
0.531 (11.89)	Weiss 94
0.635 (11.97)	Chrien 97
0.656 (11.98)	Weiss 94
0.714 (12.03)	Weiss 94
0.715 (12.03)	Chrien 97

K^+ Mg

100 (71)	Whitmore 94

K^+ Al

250 (114.9)	Alves 96
	Alves 96B
	Dewolf 96
	Dewolf 96B
	Agababyan 95
	Agababyan 95B
	Appel 94

K^+ Si

0.488 (26.85)	Friedman 97
0.531 (26.88)	Friedman 97
0.656 (26.98)	Friedman 97
0.713 (27.02)	Friedman 97

K^+ ^{28}Si

0.488 (26.77)	Weiss 94
0.531 (26.8)	Weiss 94
0.656 (26.9)	Weiss 94
0.714 (26.94)	Weiss 94

K^+ Ca

0.488 (38.03)	Friedman 97
0.531 (38.06)	Friedman 97
0.656 (38.15)	Friedman 97
0.705 (38.19)	Kormanyos 95
0.713 (38.2)	Friedman 97

K^+ ^{40}Ca

0.488 (37.95)	Weiss 94
0.531 (37.98)	Weiss 94
0.656 (38.08)	Weiss 94
0.714 (38.12)	Weiss 94

K^+ Cu

10.5 (68.91)	Blick 94
250 (181.9)	Alves 96
	Alves 96B
	Appel 94

K^+ Ag

100 (173.8)	Whitmore 94

K^+ Wt

250 (339.1)	Alves 96
	Alves 96B
	Appel 94

K^+ Au

100 (265.2)	Whitmore 94
250 (354.1)	Dewolf 96
	Dewolf 96B
	Agababyan 95
	Agababyan 95B

K^+ Pb

0.705 (193.9)	Kormanyos 95
2 (195.1)	Pienkowski 97
3 (196)	Pienkowski 97
4 (197)	Pienkowski 97
5 (198)	Pienkowski 97

K^0 nucleus

0.8	Apostolakis 97

K^0 Cu

0.25 – 0.75 (59.75 – 60.09)	
	Angelopoulos 97

$\overline{K}^0$ nucleus

0.8	Apostolakis 97

$\overline{K}^0$ Cu

0.25 – 0.75 (59.75 – 60.09)	
	Angelopoulos 97

K^- π^+

(0.9)	Ishida 97
(1.43)	Ishida 97
(< 1.6)	Ishida 97

K^- nucleon

250 (21.69)	Karchin 95
	Wallace 94

K^- p

0. (1.432)	Ito 98
	Iwasaki 97
0.44 (1.538)	Lach 94
0.46 (1.546)	Lach 94
0.48 (1.554)	Lach 94
0.5 (1.563)	Lach 94
1.66 (2.091)	Aoki 98B
1.8 (2.151)	Chrien 98
5.9 (3.498)	White 94B
6.6 (3.68)	Landsberg 94C
8 (4.021)	Landberg 96

K^- p

8.25 (4.078)	Landsberg 94C
11 (4.668)	Ishida 97
	Achasov 96
	Aston 94
	Landsberg 94C
32 (7.822)	Bogolyubsky 95
	Bogolyubsky 94
32.1 (7.834)	Boos 95
38 (8.511)	Kulik 94
80 (12.3)	Apsimon 93
140 (16.24)	Apsimon 93

K^- nucleus

1.66	Aoki 98B
	Nakazawa 98
	Aoki 95B
	Itow 94
70	Elnadi 94B

K^- ^{3}He

1.8 (4.299)	Stotzer 97
2 (4.423)	Chrien 98

K^- ^{4}He

0. (4.22)	Outa 98
0.6 (4.463)	Nagae 98
	Sawafta 98
0.75 (4.563)	Zeps 98

K^- ^{6}Li

0.6 (6.338)	Sawafta 98

K^- Be

210 (59.97)	Alves 96B
250 (65.33)	Alves 96
	Alves 96B
	Appel 94

K^- ^{9}Be

0. (8.877)	Kubota 96B
0.6 (9.14)	Sawafta 98

K^- ^{12}C

0. (11.67)	Comfort 98
	Kubota 96B
1.6 (12.75)	Nakazawa 98
1.66 (12.8)	Ahn 98
	Ahn 98D
	Fukuda 98H
	Ahn 97
1.8 (12.92)	Lowe 98

K^- ^{13}C

0.75 (12.99)	May 97

K^- ^{16}O

0. (15.39)	Kubota 96B

K^- Al

210 (105.8)	Alves 96B
250 (114.9)	Alves 96
	Alves 96B
	Appel 94

K^- Cu

210 (168.4)	Alves 96B
250 (181.9)	Alves 96
	Alves 96B
	Appel 94

K^- Wt

210 (318.2)	Alves 96B
250 (339.1)	Alves 96
	Alves 96B
	Appel 94

K_L Be

0.114 (8.905)	Akhmetshin 97
	Akhmetshin 95B

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

$J/\psi(1S)$ nucleon

40 – 280 (9.263 – 23.16) Arneodo 94
150 (17.09) Arneodo 95D

nucleon nucleon

200 (19.42) Sollfrank 94
$< 2.4 \cdot 10^5$ ($<$ 671.3) Shivpuri 94

nucleon nucleus

$< 2.4 \cdot 10^5$ Shivpuri 94

p nucleon

21 (6.421) Tretyakova 95
32.5 (7.926) Golovkin 97
70 (11.54) Golovkin 97
Golovkin 97B
Balatz 96
Bezzubov 96
Golovkin 96
Vavilov 96
Vavilov 95C
Balatz 94B
Landsberg 94B
Landsberg 94C
Vavilov 94
Vavilov 94B
Vavilov 94C
70.93 (11.62) Vavilov 94B
200 (19.42) Belaga 95F
Belaga 94B
Belaga 94C
250 (21.71) Karchin 95
Wallace 94
400 (27.44) Belaga 95F
Belaga 94B
Belaga 94C
Bertolotto 94
800 (38.78) Alexopoulos 97B
Malik 95
Parashar 95B
Parashar 94
Parashar 94B
10^5 (433.3) Zatsepin 97
Zatsepin 94B
(3000 – 6000) Danilova 97

$p\,p$

0.02272 – 0.0852 (1.877 – 1.879) Drochner 96
0.02373 – 0.02764 (1.877 – 1.877) Dombrowski 97
0.221 (1.889) Clajus 95
Kretschmer 94
0.325 – 1.012 (1.904 – 2.086) Rappenecker 95
0.5 – 2 (1.938 – 2.43) Kobayashi 91
0.5898 – 1.09 (1.96 – 2.112) Jakobsson 98
0.6 – 0.9 (1.962 – 2.05) Andreev 94
0.6266 (1.969) Kalantarnaye 98
Messchendorp 98
0.6398 (1.973) Rathmann 98
0.6406 (1.973) Haeberli 97
0.6409 (1.973) Abazov 96
0.6809 (1.984) Berdoz 98
0.7291 – 1.022 (1.998 – 2.089) Przewoski 98
0.7771 – 0.8233 (2.012 – 2.026) Bilger 97
0.7771 – 0.8263 (2.012 – 2.027) Johansson 98B
0.7782 – 0.8236 (2.012 – 2.026) Bondar 95
0.7889 – 0.8005 (2.015 – 2.019) Macher 98
0.7891 – 0.799 (2.015 – 2.018) Heimberg 96
0.7898 – 0.8005 (2.016 – 2.019) Fortsch 98
0.7899 – 0.8005 (2.016 – 2.019) Razen 97

$p\,p$

0.7926 (2.016) Dytman 94
0.793 (2.016) Machner 96
0.7973 – 0.8533 (2.018 – 2.035) Flammang 98
0.7988 – 0.8384 (2.018 – 2.03) Daehnick 95
0.7991 (2.018) Dytman 94
0.7993 – 0.8372 (2.018 – 2.03) Hardie 97
0.8 (2.019) Machner 96
0.8081 (2.021) Daehnick 98
Dytman 94
0.8188 (2.024) Dytman 94
0.8233 (2.026) Zlomanczuk 98
Zlomanczuk 98B
0.8293 (2.028) Dytman 94
0.838 – 0.9734 (2.03 – 2.073) Calen 96
0.8384 (2.03) Daehnick 98
Dytman 94
0.8468 (2.033) Meyer 98B
0.8533 (2.035) Daehnick 98
0.8835 (2.044) Meyer 98B
0.894 (2.048) Calen 98B
0.9189 (2.056) Meyer 98B
0.941 (2.063) Matsuoka 95
0.943 (2.063) Nomachi 98
0.9543 (2.067) Betsch 98
Meyer 98B
0.9706 (2.072) Calen 98B
1.037 (2.094) Ram 93
1.079 – 1.455 (2.108 – 2.238) Simon 96
1.087 (2.111) Hoffmann 94
1.1 – 3.3 (2.115 – 2.863) Albers 97
1.194 – 2.032 (2.147 – 2.442) Furget 98
1.36 (2.205) Alekseev 99
1.403 (2.22) Bilger 98B
Brodowski 96
1.424 – 405 (2.227 – 27.6) Gazdzicki 95
1.463 (2.241) Comptour 94
1.5 (2.254) Abramov 98
Abramov 98B
$<$ 1.6 ($<$ 2.289) Arndt 94
1.6 (2.289) Alekseev 99
1.604 (2.291) Vorobiev 98
Efremenko 94
1.658 – 1.744 (2.31 – 2.34) Hibou 99
1.67 – 6 (2.314 – 3.627) Hlavacova 97
1.696 – 2.032 (2.323 – 2.442) Goy 98
1.698 – 2.638 (2.324 – 2.649) Allgower 98B
1.73 (2.335) Wilson 97
Wilson 94
1.78 (2.353) Alekseev 99
1.95 – 4 (2.413 – 3.077) Grzonka 98
1.974 – 2.098 (2.421 – 2.464) Johansson 98B
1.977 – 2.087 (2.422 – 2.461) Bilger 97
1.988 (2.426) Wilson 97
Wilson 94
1.993 (2.428) Chiavassa 94
2.02 (2.437) Alekseev 99
2.032 (2.442) Chiavassa 94
Chiavassa 94B
2.087 (2.461) Calen 98C
2.142 (2.48) Chiavassa 94
2.16 (2.486) Glagolev 97
2.226 (2.509) Hibou 98
2.242 (2.514) Hibou 98
2.25 (2.517) Chiavassa 94
Chiavassa 94B
2.272 (2.525) Tatischeff 98
Yonnet 98
Tatischeff 97

$p\,p$

2.32 – 2.36 (2.541 – 2.555) Grzonka 98
2.333 (2.546) Balewski 98C
2.342 (2.549) Balewski 98C
2.342 – 2.36 (2.549 – 2.555) Balewski 98
Balewski 98B
Balewski 98C
2.345 (2.55) Brauksiepe 97
Balewski 96
(2.551 – 2.561) Sewerin 98B
2.351 (2.552) Balewski 98C
2.359 (2.554) Wilson 97
Wilson 94
2.36 (2.555) Balewski 98C
2.5 (2.602) Bilger 98
Grzonka 97
2.5 – 3.7 (2.602 – 2.987) Grzonka 98
(2.625 – 2.638) Sewerin 98B
2.572 (2.627) Allgower 98
2.578 (2.628) Tatischeff 98
Yonnet 98
Tatischeff 97
2.581 (2.63) Balewski 98C
2.6 (2.636) Grzonka 98
2.626 (2.644) Wilson 97
Wilson 94
2.742 – 3.026 (2.683 – 2.776) Ball 94B
2.75 (2.686) Bilger 98
Grzonka 97
2.763 – 3.463 (2.69 – 2.915) Allgower 98C
2.807 – 405 (2.705 – 27.6) Gazdzicki 96
2.807 – 498 (2.705 – 30.6) Gazdzicki 96
2.858 (2.721) Wilson 97
Wilson 94
2.89 (2.732) Allgower 98
Tatischeff 98
Yonnet 98
Tatischeff 97
(2.735) Ball 94B
2.953 (2.752) Arvieux 98
2.953 – 3.079 (2.752 – 2.793) Arvieux 97
2.974 (2.759) Arvieux 98
2.995 (2.766) Arvieux 98
3 – 13 (2.768 – 5.121) Ogilvie 97
3.016 (2.773) Arvieux 98
3.037 (2.779) Arvieux 98
3.057 (2.786) Arvieux 98
3.079 (2.793) Arvieux 98
3.099 (2.8) Siebert 94
3.17 – 3.2 (2.822 – 2.832) Grzonka 98
3.201 – 3.221 (2.832 – 2.838) Moskal 98
3.3 (2.863) Grzonka 98
3.321 (2.87) Balewski 98C
Brauksiepe 97
3.515 (2.931) Siebert 94
3.67 (2.978) Chalyshev 98
Balestra 98
3.677 – 405 (2.98 – 27.6) Gazdzicki 96
5.762 (3.566) Wilson 97
Huang 94
Wilson 94
5.9 (3.602) Mardor 98
White 94B
7.5 (3.993) Mardor 98
10 (4.54) Sapozhnikov 95
12 – 405 (4.934 – 27.6) Gazdzicki 96
12.5 – 498 (5.028 – 30.6) Gazdzicki 96
24 (6.844) Amaglobeli 96
Sapozhnikov 95

$p\,p$

27.5 (7.307) Wang 97
Felix 96
Hartouni 94
Uribe 94
32 (7.864) Bogolyubsky 97
Kostin 96
Bogolyubsky 95
Zabrodin 95
Bogolyubsky 94
Minaenko 94
40 (8.766) Abramov 96
(10 – 10^5) Wibig 98
69 (11.46) Boos 95
Boos 94
70 (11.54) Ardashev 97
Belikov 96
Sapozhnikov 95
Balatz 93
85 (12.7) Kirk 98
Antinori 95
Bertolotto 94
147 (16.66) Arena 95
200 (19.42) Adams 97E
Bravar 97
Grosnick 97
Seyboth 97
Vogelsang 97
Adams 95H
Bravar 95
Adams 94B
Adams 94C
Lourenco 94
Lourenco 93
280 (22.96) Vogelsang 97
300 (23.76) Kirk 98
Vogelsang 97
Antinori 95
Girone 94
(24.3) Werlen 99
Ballocchi 98
Vogelsang 97
Ballocchi 94
360 (26.03) Sapozhnikov 95
400 (27.43) Shaoshun 98
Wang 98
Wang 98B
Wang 98C
Wang 98D
Wang 97B
Wang 97D
Ye 97
Slaughter 96
Boos 95
Shaoshun 95
Wang 95B
Wang 95C
Zhang 95
Wang 94C
Wang 94D
Wang 94E
(28) Norman 96
450 (29.09) Abreu 98P
Baglin 98
Barberis 98
Barberis 98B
Barberis 98C
Barberis 98D
Barberis 98E
Barberis 98F
Kirk 98
Alde 97
Barberis 97
Barberis 97B
Barberis 96
Barberis 96B
Norman 96
Alde 95B
Antinori 95
Donskov 95
Ishida 95
Stroot 95
Abatzis 94D
Baldit 94
Kirk 94

p p

	Nassalski 94
	Sadovsky 94
	Singovsky 94
(31)	Breakstone 95
800 (38.77)	Hawker 98
	Peng 98
	Reyes 97
	Gutierrez 96
	Dremin 94
	Gutierrez 94
	Mcgaughey 94
(44)	Breakstone 95
(52.6)	Goulianos 94
(62)	Breakstone 95
(63)	Vogelsang 97
$(5306 - 2.74 \cdot 10^4)$	Bellandi 95

p n

0.8707 – 1.246 (2.042 – 2.167)	Calen 98
	Calen 97
0.8871 (2.047)	Hahn 99
	Duncan 98
0.941 (2.064)	Matsuoka 95
0.9585 (2.07)	Duncan 98
0.9599 (2.07)	Hahn 99
1.01 (2.086)	Hahn 99
	Duncan 98
1.25 – 400 (2.168 – 27.45)	Gazdzicki 95
1.98 (2.425)	Abramov 94
1.999 – 2.142 (2.432 – 2.481)	Bilger 97
2.032 (2.443)	Chiavassa 94B
2.087 (2.462)	Calen 98C
2.25 (2.519)	Chiavassa 94B

p nucleus

0.8	Athanassopou 97B
1.604	Efremenko 94
1.766 – 200	Ambrosio 95
2.3 – 360	Gazdzicki 95
4.2	Belyakov 98
4.5	Ahmad 95
	Ghosh 94B
4.542	Andreeva 95B
8.9	Bondarev 98
10	Shakhbazyan 94
$10 - 1.5 \cdot 10^4$	Mielke 94
10.14	Bondarev 98
14.97 – 64.99	Bondarev 98
21	Tretyakova 95
60	Stocker 95
70	Anikeyev 98
	Maity 95
200	Andreeva 95B
	Belaga 95F
	Stocker 95
	Albrecht 94E
	Belaga 94B
	Belaga 94C
200.9	Dabrowska 95B
300	Drndarevic 95
340	Halling 96
400	Bondarev 98
	Belaga 95F
	Boos 95
	Drndarevic 95
	Ghosh 95C
	Belaga 94B
	Belaga 94C
	Ghosh 94
	Ghosh 94C
	Shivpuri 94B
450	Altegoer 98
800	Slaughter 96
	Dheer 95
	Gallas 95
	Parashar 95
	Parashar 95B
	Parashar 95C
	Shivpuri 95
	Shivpuri 95B

p nucleus

	Freyberger 94
	Garbincius 94
	Lach 94
	Shivpuri 94B
	Shivpuri 94C
	Soni 94
	Verma 94
$8 \cdot 10^5 - 1.3 \cdot 10^7$	Kasahara 97
$3 \cdot 10^6 - 7 \cdot 10^8$	Kalmykov 95
$1.5 \cdot 10^7 - 4 \cdot 10^8$	Bellandi 95
$1.5 \cdot 10^7 - 5 \cdot 10^8$	Wibig 98

p deuteron

0.002 (2.814)	Shimizu 95
0.0025 (2.814)	Shimizu 95
0.003 (2.814)	Shimizu 95
0.004 (2.814)	Shimizu 95
< 0.01225 (< 2.814)	Schmid 96
	Schmid 95
0.02131 (2.814)	Ma 97
0.0242 (2.814)	Ma 97
0.09699 – 0.1847 (2.817 – 2.826)	Sagara 94
0.221 (2.831)	Clajus 95
0.3553 (2.857)	Zejma 97
	Allet 94
0.4399 (2.878)	Johansson 98
0.5211 (2.902)	Anderson 96B
0.601 (2.929)	Johansson 98
0.6266 (2.938)	Kalantarnaye 98
0.6418 (2.943)	Burzynski 94
0.6444 (2.944)	Anderson 98B
	Pairsuwan 95
0.6444 – 0.8081 (2.944 – 3.007)	Rohdjeb 98
0.8044 (3.006)	Burzynski 94
0.8081 – 0.9543 (3.007 – 3.069)	Sakai 94
0.8769 (3.036)	Sakai 98
0.8871 (3.04)	Duncan 98
0.9585 (3.071)	Duncan 98
0.9613 (3.072)	Burmistrov 95
0.971 – 1.001 (3.076 – 3.089)	Betker 96
1.01 (3.093)	Duncan 98
1.032 (3.103)	Burzynski 94
1.082 (3.126)	Taddeucci 94
1.15 (3.157)	Bavink 98
	Bellemann 98
1.28 – 1.9 (3.217 – 3.514)	Wurzinger 94
1.457 (3.302)	Prout 95
	Prout 94
1.573 (3.357)	White 96
	Abegg 94
1.574 (3.357)	Fuchs 94
1.696 (3.416)	Aleshin 94B
1.73 (3.432)	Wilson 97
	Wilson 94
1.738 (3.436)	Bilger 97
1.988 (3.556)	Wilson 97
	Wilson 94
2.01 – 2.784 (3.566 – 3.927)	Wurzinger 96
2.032 (3.577)	Chiavassa 94B
2.032 – 2.679 (3.577 – 3.879)	Wurzinger 96B
	Wurzinger 95
2.087 (3.603)	Calen 98C
2.25 (3.68)	Chiavassa 94B
2.359 (3.731)	Wilson 97
	Wilson 94
2.626 (3.855)	Wilson 97
	Wilson 94
2.7 (3.888)	Kingler 98
2.858 (3.96)	Wilson 97
	Wilson 94
4.45 (4.632)	Averichev 95

p deuteron

5.762 (5.128)	Wilson 97
	Huang 94
	Wilson 94
5.9 (5.178)	Mardor 98
7.5 (5.723)	Mardor 98
8.9 (6.162)	Averichev 95
450 (41.14)	Abreu 98P
	Baglin 98
	Baldit 94
	Nassalski 94
800 (54.82)	Hawker 98
	Peng 98
	Conrad 95
	Arneodo 92

p ^{3}H

0.04376 – 0.092 (3.734 – 3.736)	Brune 99
0.07534 (3.735)	Wilburn 97
0.1079 (3.737)	Wilburn 97
0.1129 (3.738)	Wilburn 97

p ^{3}He

0.2 (3.749)	Brash 95
	Hausser 95
0.29 (3.765)	Brash 95
	Hausser 95
0.4 (3.793)	Brash 95
	Hausser 95
0.5 (3.825)	Brash 95
	Hausser 95
0.6409 (3.878)	Miller 95
0.6444 (3.88)	Palarczyk 98
0.8081 (3.951)	Furutani 94
0.9766 (4.032)	Furutani 94
1.099 (4.095)	Furutani 94
2.771 (5.004)	Kingler 98

p ^{4}He

0.4446 (4.744)	Edwards 96
0.4474 (4.744)	Raue 95
0.6444 (4.821)	Palarczyk 98
	Edwards 96
0.7127 (4.852)	Furutani 94
0.8081 (4.898)	Furutani 94
0.9543 (4.974)	Furutani 94
1.09 (5.048)	Furutani 94
1.463 (5.265)	Geso 98
2.771 (6.047)	Kingler 98
2.802 (6.065)	Kingler 98

p He

0.6791 (4.839)	Abdullin 92

p Li

300 (62.62)	Antoniazzi 94B
	Garbincius 94

p ^{6}Li

0.6194 (6.685)	Rapaport 94
	Wang 94B
0.8004 (6.775)	Wakasa 95
0.8081 – 0.9543 (6.779 – 6.861)	Sakai 94
8.9 (11.5)	Bondarev 94

p ^{7}Li

0.02874 (7.459)	Deboer 96
0.6194 (7.619)	Rapaport 94
	Wang 94B
0.8004 (7.712)	Wakasa 95
0.8081 – 0.9543 (7.716 – 7.8)	Sakai 94
1.084 (7.879)	Taddeucci 97
1.457 (8.124)	Taddeucci 97
	Prout 96
8.9 (12.65)	Bondarev 94
300 (62.89)	Sansoni 95
	Antoniazzi 94

p ^{7}Be

0.02563 – 0.05127 (7.459 – 7.46)	Hammache 97
0.0274 – 0.07509 (7.459 – 7.461)	Kikuchi 98

p Be

2.466 (10.75)	Kiselev 96
10.1 (15.54)	Boyarinov 94
13 (17.03)	Akagi 94
18 (19.34)	Chemakin 99
	Tincknell 96
	Stocker 95
	Lissauer 94
29.4 (23.77)	Lach 94
70 (35.31)	Balatz 93
200 (58.56)	Bearden 98C
	Delosheros 96
	Agakichiev 95
	Tserruya 95
250 (65.34)	Alves 96
	Alves 96B
	Appel 94
300 (71.47)	Lach 94
360 (78.2)	Barr 95B
400 (82.39)	Lach 94
450 (87.33)	Boggild 99
	Fanti 99
	Fanti 99B
	Agakishiev 98
	Ambrosini 98
	Ambrosini 98B
	Bearden 98B
	Setzu 98
	Bender 97
	Fanti 97
	Akesson 96
	Delosheros 96
	Leber 96
	Notheisen 96
	Tikhomirov 96
	Barr 95
	Barr 95C
	Boggild 95C
	Boggild 95D
	Ceretto 95
	Kreutz 95
	Tserruya 95
	Akesson 94
	Barr 94
	Boggild 94
	Baur 93
500 (92.01)	Vogelsang 97
	Alverson 93B
530 (94.71)	Apanasevich 97B
800 (116.2)	Adams 98
	Adams 98B
	Arisaka 98
	Chan 98
	Adams 97D
	Apanasevich 97B
	Brown 96
	Gu 96
	Halling 96
	Kaplan 96
	Woods 96
	Conrad 95
	Gibbons 95C
	Leitch 95
	Matthews 95B
	Schwingenheu 95
	Spencer 95
	Wallace 95
	Gu 94
	Hsiung 94
	Kowitt 94
	Lach 94
	Leitch 94
	Nakaya 94
	Ramberg 94
	Roberts 94
	Weaver 94

p Bor

1.696 (11.89)	Chiavassa 94C

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

p ^{10}Bor

0.1228 (10.27) Fujikawa 98
0.6194 (10.43) Rapaport 94
Wang 94B

p ^{11}Bor

0.05482 (11.19)
Deboer 96
0.4399 (11.27) Traneus 97
0.6194 (11.35) Rapaport 94
Wang 94B
0.8004 (11.45) Wakasa 95
0.8081 – 0.9543 (11.46 – 11.54)
Sakai 94

p C

0.8233 – 0.989 (12.41 – 12.51)
Julien 94
1.206 (12.66) Arnold 98
1.355 – 4.45 (12.76 – 15.09)
Anoshina 97
1.36 (12.77) Alekseev 99
1.463 (12.84) Ishibashi 94
1.6 (12.94) Alekseev 99
1.78 (13.08) Alekseev 99
1.921 (13.19) Debowski 96
2.02 (13.26) Alekseev 99
2.032 (13.27) Deoliveirama 96
2.25 (13.44) Debowski 96
Ishibashi 94
3 (14.01) Vlasov 95
3.308 (14.25) Debowski 96
3.825 (14.63) Ishibashi 94
4.2 (14.91) Suleimanov 98
Kuznetsov 97B
Kuznetsov 96
Angelov 94
Bazarov 94
Bekmirzaev 94
Ermakov 94
Bekmirzaev 93
4.2 – 10 (14.91 – 18.73)
Dedovich 94
4.338 (15.01) Sugaya 97
Chiba 94
4.491 (15.12) Baldin 95
4.5 (15.13) Abraamyan 98
Abraamyan 94B
Abraamyan 94C
4.848 (15.38) Sugaya 97
Chiba 94
5.864 (16.09) Sugaya 97
Chiba 94
7.5 (17.18) Vlasov 95
Doroshkevich 94
8.9 (18.06) Bondarev 94
10 (18.73) Shakhbazyan 95
12.9 (20.39) Sugaya 97
40 (31.96) Kuznetsov 97C
60 (38.32) Stocker 95
70 (41.14) Bezzubov 96
Golovkin 95
Vavilov 95
Vavilov 95B
Balatz 94C
Golovkin 94
Landsberg 94C
Vavilov 94
Vavilov 94C
Balatz 93
200 (67.83) Vogelsang 97
Awes 96
Awes 95
Awes 95B
Baglin 95
Stocker 95
450 (101) Abreu 98I
Baglin 98
800 (134.3) Conrad 95
Leitch 95
Arneodo 92

p ^{12}C

0. (12.12) Allet 96
0.3553 (12.18) Sakemi 95

p ^{12}C

0.4446 (12.21) Sakemi 95
Sakemi 94
0.5211 (12.24) Anderson 96
0.5631 (12.26) Templon 97
0.6194 (12.29) Rapaport 94
Wang 94B
0.6444 (12.3) Yu 96
Sakemi 95
Sakemi 94
Wissink 94
0.8004 (12.39) Wakasa 95
0.8081 (12.39) Sakemi 95
Sakemi 94
0.8081 – 0.9543 (12.39 – 12.48)
Sakai 94
0.941 (12.47) Matsuoka 95
0.9543 (12.48) Sakemi 95
Sakemi 94
1.082 (12.57) Taddeucci 94
1.084 (12.57) Prout 95
1.457 (12.83) Prout 96
Prout 95
Prout 94
1.463 – 2.25 (12.84 – 13.43)
Chiavassa 98
1.921 (13.18) Badala 98B
4.2 (14.9) Bondarenko 98C
Bondarenko 96
5.9 (16.11) Aclander 98
Mardor 98
6 (16.18) Mardor 97
7.5 (17.17) Aclander 98
Mardor 98
Mardor 97
10 (18.72) Aslanyan 98
Shakhbazyan 96
Shakhbazyan 95

p ^{13}C

0.6194 (13.22) Rapaport 94
Wang 94B
0.6444 (13.23) Yu 96
0.8004 (13.32) Wakasa 95
0.8081 – 0.9543 (13.32 – 13.41)
Sakai 94

p Nit

0.588 – 0.7613 (14.14 – 14.23)
Jakobsson 97
0.7291 – 1.09 (14.22 – 14.44)
Jakobsson 97

p ^{16}O

0.5211 (15.96) Watson 94
1.082 (16.3) Mercer 94
1.095 (16.31) Miller 98

p ^{17}O

0.4851 (16.88) Van 99

p ^{18}O

0.4851 (17.82) Van 99
1.082 (18.17) Mercer 94

p ^{23}Na

1.696 (23.3) Vorobiev 94

p Mg

100 (71) Whitmore 94

p Al

1.463 (26.83) Vonach 97
Ishibashi 94
1.696 (27.02) Andronenko 94
2.032 (27.3) Deoliveirama 96
2.25 (27.48) Ishibashi 94
3.825 (28.82) Ishibashi 94
8.9 (32.9) Bondarev 94
10.1 (33.8) Boyarinov 94
12.9 (35.82) Sugaya 97
14.6 (36.99) Barrette 95D
Stocker 95

p Al

Rosati 94
60 (60.41) Stocker 95
67 (63.25) Borisov 96
200 (103.4) Awes 96
Baglin 95
Stocker 95
250 (114.9) Alves 96
Alves 96B
Appel 94
450 (152.5) Abreu 98I
Abreu 98U
Baglin 98

p ^{27}Al

0.4895 (26.2) Cowley 96
0.5708 (26.24) Cowley 96
0.6444 (26.28) Cowley 96
0.8004 (26.37) Wakasa 98
1.084 (26.56) Taddeucci 97
1.457 (26.84) Taddeucci 97

p Si

8.9 (33.96) Bondarev 94
800 (206.3) Alexopoulos 97
Alexopoulos 97B
Alexopoulos 95B
Alexopoulos 95D
Alexopoulos 94B

p ^{28}Si

0.6409 (27.21) Stephenson 97
0.6418 (27.21) Liu 96
1.696 (27.97) Vorobiev 94

p ^{29}Si

1.696 (28.87) Vorobiev 94

p ^{30}Si

1.696 (29.84) Vorobiev 94

p ^{31}Ph

1.696 (30.74) Vorobiev 94

p S

200 (113.3) Bearden 98C
Alber 97
Seyboth 97
Venables 97
Abatzis 96B
Alber 94
450 (166.6) Boggild 99
Bearden 98B
Boggild 95C
Boggild 94

p ^{34}S

1.696 (33.6) Vorobiev 94

p ^{36}Ar

0.04152 (34.47)
Mohr 98

p Ar

0.588 – 0.7613 (38.31 – 38.41)
Jakobsson 97
0.588 – 1.09 (38.31 – 38.63)
Jakobsson 97B
0.5898 – 1.09 (38.32 – 38.63)
Jakobsson 98
0.7291 – 1.09 (38.39 – 38.63)
Jakobsson 97

p ^{39}KK

1.696 (38.19) Vorobiev 94

p Ca

1.082 (38.75) Taddeucci 94
800 (247.2) Conrad 95
Arneodo 92

p ^{40}Ca

0.5211 (38.33) Watson 94
0.943 (38.58) Cowley 98

p ^{42}Ca

0.1996 – 0.3039 (40.08 – 40.11)
Carlson 94

p ^{44}Ca

0.1996 – 0.3039 (41.94 – 41.97)
Carlson 94

p ^{48}Ca

0.1996 – 0.3039 (45.67 – 45.7)
Carlson 94
0.6469 (45.85) Feldman 94
0.8351 (45.96) Feldman 94

p Ti

2.032 (46.81) Deoliveirama 96
3 (47.67) Vlasov 95
7.5 (51.64) Vlasov 95

p ^{56}Fe

1.463 (53.88) Vonach 97

p Fe

1.463 (53.74) Ishibashi 94
2.25 (54.41) Ishibashi 94
3.825 (55.83) Ishibashi 94
70 (99.95) Belikov 95
Bunyatov 95
Barabash 93
800 (293.2) Conrad 95
Arneodo 92

p ^{59}Co

0.4895 (56.01) Cowley 97
Cowley 96
0.5708 (56.05) Cowley 97
Cowley 96
0.6444 (56.09) Cowley 97
Cowley 96

p ^{58}Ni

0.1948 – 0.3104 (54.98 – 55.01)
Eliyakutrosh 95
0.6302 (55.15) Sakaguchi 98
0.8004 (55.25) Sakaguchi 98
0.9543 (55.36) Sakaguchi 98
8.9 (62.34) Bondarev 94

p Ni

1.696 (56.6) Andronenko 94

p ^{60}Ni

0.1948 – 0.3104 (56.85 – 56.88)
Eliyakutrosh 95

p ^{64}Ni

8.9 (67.99) Bondarev 94

p Cu

0.8081 – 0.9543 (60.43 – 60.53)
Sakai 94
0.8233 – 0.989 (60.44 – 60.55)
Julien 94
0.8681 – 0.9031 (60.47 – 60.49)
Aseev 97
2.032 (61.4) Deoliveirama 96
2.466 (61.79) Kiselev 96
4.338 (63.49) Sugaya 97
Chiba 94
4.5 (63.63) Abraamyan 98
Abraamyan 94B
Abraamyan 94C
4.848 (63.95) Sugaya 97
Chiba 94
5.864 (64.87) Sugaya 97
Chiba 94
10.1 (68.6) Boyarinov 94
12 (70.22) Takeuchi 98

p Cu

	Nomura 97
12.9 (70.97)	Sugaya 97
18 (75.09)	Chemakin 99
24 (79.68)	Belz 96
	Heinson 94
60 (103)	Stocker 95
200 (164.9)	Baglin 98
	Abreu 97T
	Awes 96
	Awes 95
	Baglin 95
	Stocker 95
250 (181.9)	Alves 96
	Alves 96B
	Appel 94
400 (225.5)	Babu 94
	Lach 94
450 (238.3)	Abreu 98I
	Abreu 98U
	Baglin 98
800 (313.4)	Farrar 97
	Albuquerque 96
	Kaplan 96
	Kowitt 94
	Lach 94
	Smith 94C
	Timm 94
	Dubbs 93
	Morelos 93C

p ^{64}Zn

8.9 (67.9)	Bondarev 94

p Kr

0.5898 – 1.09 (79.17 – 79.49)	Jakobsson 98

p ^{89}Yt

0.4895 (83.96)	Richter 94
0.5708 (84)	Richter 94
0.6444 (84.04)	Richter 94

p ^{90}Zr

0.1063 (84.78)	Kimure 94
0.4895 (84.89)	Richter 94
0.5708 (84.93)	Richter 94
0.6444 (84.97)	Richter 94
1.696 (85.76)	Vorobiev 95

p ^{92}Mo

0.4895 (86.65)	Richter 94
0.5708 (86.69)	Richter 94
0.6444 (86.73)	Richter 94

p ^{94}Mo

0.4895 (88.62)	Richter 94
0.5708 (88.66)	Richter 94
0.6444 (88.7)	Richter 94

p ^{96}Mo

0.4895 (90.48)	Richter 94
0.5708 (90.52)	Richter 94
0.6444 (90.56)	Richter 94

p Mo

2.032 (91.58)	Deoliveirama 96
2.626 (92.12)	Bardayan 97

p ^{98}Mo

0.4895 (92.36)	Richter 94
0.5708 (92.4)	Richter 94
0.6444 (92.44)	Richter 94

p Ag

1.057 (101.9)	Ledoux 98
	Pienkowski 94
1.696 (102.4)	Andronenko 94
2.784 (103.4)	Ledoux 98
	Pienkowski 94
12 (111.9)	Ochiishi 95
60 (148.8)	Stocker 95
100 (173.8)	Whitmore 94

p Ag

200 (224.3)	Awes 96
	Awes 95
	Stocker 95
450 (317.1)	Abreu 98U
	Akesson 94

p In

0.4895 (108)	Richter 96
0.5513 (108)	Richter 96
0.5992 (108.1)	Richter 96
0.6444 (108.1)	Richter 96
1.463 (108.7)	Ishibashi 94
2.25 (109.4)	Ishibashi 94
3.825 (110.8)	Ishibashi 94

p ^{112}Sn

1.294 (105.9)	Danagulyan 97
	Alexandryan 96

p ^{114}Sn

8.9 (114.7)	Bondarev 94

p ^{118}Sn

1.294 (111.5)	Danagulyan 97
	Alexandryan 96

p ^{124}Sn

1.294 (117.1)	Danagulyan 97
	Alexandryan 96
8.9 (124.1)	Bondarev 94

p Te

2.626 (121.6)	Bardayan 97
5.864 (124.7)	Bardayan 97

p Xe

0.588 – 0.7613 (123.4 – 123.5)	Jakobsson 97
0.588 – 1.09 (123.4 – 123.7)	Jakobsson 97B
0.5898 – 1.09 (123.4 – 123.7)	Jakobsson 98
0.7291 – 1.09 (123.5 – 123.7)	Jakobsson 97

p Pr

0.4895 (132.3)	Richter 96
0.6444 (132.4)	Richter 96

p Er

0.4895 (156.9)	Richter 96
0.5513 (156.9)	Richter 96
0.5992 (156.9)	Richter 96
0.6444 (156.9)	Richter 96

p Yb

0.4895 (162.2)	Richter 96
0.5513 (162.3)	Richter 96
0.5992 (162.3)	Richter 96
0.6444 (162.3)	Richter 96

p Ta

0.4895 (169.6)	Richter 96
0.5513 (169.6)	Richter 96
0.5992 (169.7)	Richter 96
0.6444 (169.7)	Richter 96
0.8081 – 0.9543 (169.8 – 169.9)	Sakai 94
2.3 (171)	Garsevanishv 98
4.2 (172.8)	Garsevanishv 98
4.2 – 10 (172.8 – 178.3)	Dedovich 94
9.9 (178.2)	Garsevanishv 98
10.1 (178.4)	Boyarinov 94
70 (228.1)	Afanasyev 97
	Afanasyev 96
	Afanasyev 94

p Wt

0.6266 (172.4)	Duijvestijn 99
2.032 (173.5)	Deoliveirama 96
18 (188.4)	Tincknell 96

p Wt

200 (312.8)	Angelis 98
	Baglin 98
	Abatzis 97
	Abreu 97T
	Angelis 97
	Antinori 97
	Seyboth 97
	Abreu 96ZE
	Abreu 96ZF
	Delosheros 96
	Abatzis 95D
	Baglin 95
	Baglin 95B
	Gerschel 95
	Lourenco 95
	Masera 95
	Tserruya 95
	Abatzis 94
	Lourenco 94
	Mazzoni 94
	Lourenco 93
250 (339.1)	Alves 96
	Alves 96B
	Appel 94
450 (428.3)	Abreu 98I
	Abreu 98U
	Baglin 98
800 (550.8)	Brown 96
	Conrad 95
	Leitch 95
	Arneodo 92

p Pt

12 (193.4)	Aoki 94
12.9 (194.2)	Saito 94
24.1 (204.4)	Belz 96B
800 (569)	Mishra 94

p Au

1.057 (184.9)	Ledoux 98
	Pienkowski 94
2.032 (185.7)	Deoliveirama 96
2.16 (185.8)	Avdeyev 97
	Karnaukhov 96
2.784 (186.4)	Ledoux 98
	Pienkowski 94
2.953 (186.5)	Avdeyev 98
3.6 (187.2)	Avdeyev 97
	Karnaukhov 96
4.44 (188)	Avdeyev 98
5.762 (189.2)	Awes 96
8.1 (191.5)	Avdeyev 97
	Karnaukhov 96
8.989 (192.3)	Avdeyev 98
12 (195.1)	Ochiishi 95
	Tanaka 94
12.9 (196)	Yokkaich 98
18 (200.7)	Chemakin 99
	Chemakin 98
	Cole 98
	Ogilvie 97
60 (236)	Stocker 95
100 (265.3)	Whitmore 94
200 (327.2)	Alber 97
	Awes 96
	Delosheros 96
	Agakichiev 95
	Awes 95
	Awes 95B
	Stocker 95
	Tserruya 95
	Bachler 94C
	Fialkowski 94
	Wosiek 94
450 (445.9)	Agakishiev 98
	Delosheros 96
	Notheisen 96
	Ceretto 95
800 (572)	Halling 96
	Kaplan 96
	Slaughter 96
	Sansoni 95
	Schub 95
	Jansen 94

p Au

	Kowitt 94
	Leitch 94

p ^{197}Au

0.4895 (185.4)	Cowley 97
	Cowley 96
0.5708 (185.4)	Cowley 97
	Cowley 96
0.6266 (185.5)	Duijvestijn 99
0.6444 (185.5)	Cowley 97
	Cowley 96
6 (190.3)	Hsi 98
	Kwiatkowski 98
10 (194.1)	Hsi 98
	Kwiatkowski 98
12.8 (196.8)	Hsi 98
	Kwiatkowski 98
14.6 (198.4)	Hsi 98
	Kwiatkowski 98

p ^{206}Pb

1.281 (193.4)	Mack 95

p Pb

0.6266 (194.1)	Duijvestijn 99
0.6391 (194.1)	Lott 97
0.8081 – 0.9543 (194.2 – 194.3)	Sakai 94
1.457 (194.7)	Prout 95
1.463 (194.7)	Ishibashi 94
1.921 (195.1)	Debowski 96
2 (195.2)	Pienkowski 97
2.25 (195.4)	Debowski 96
	Ishibashi 94
3 (196.1)	Pienkowski 97
	Vlasov 95
3.825 (196.9)	Ishibashi 94
4 (197.1)	Pienkowski 97
5 (198)	Pienkowski 97
7.5 (200.4)	Vlasov 95
	Doroshkevich 94
8.9 (201.8)	Bondarev 94
12.9 (205.5)	Sugaya 97
14.6 (207.1)	Barrette 95D
	Stocker 95
	Rosati 94
158 (313.4)	Andersen 98
158.9 (314)	Vassiliadis 96
200 (338.3)	Bearden 98C
	Abreu 97T
	Bearden 96C
	Andersen 94B
450 (459.3)	Boggild 99
	Bearden 98B
	Boggild 98
	Boggild 95
	Boggild 95B
	Boggild 95C
	Boggild 95D
	Beker 94C
	Boggild 94
	Boggild 94B
	Beker 93

p ^{207}Pb

1.281 (194.4)	Mack 95

p ^{208}Pb

0.6266 (194.9)	Duijvestijn 99
0.941 (195.1)	Matsuoka 95
1.281 (195.3)	Mack 95
1.696 (195.7)	Vorobiev 95

p Bi

1.057 (196.1)	Ledoux 98
	Pienkowski 94
1.696 (196.6)	Kulessa 98B
1.9 (196.8)	Kulessa 98
2.679 (197.5)	Kulessa 98B
2.784 (197.6)	Ledoux 98
	Pienkowski 94

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

$p\ ^{232}$Th

0.6266 (217.2) Duijvestijn 99

p U

1.057 (223.1) Ledoux 98
Pienkowski 94
1.944 (223.9) Pienkowski 97
2.25 (224.2) Ohm 97
2.784 (224.7) Ledoux 98
Pienkowski 94
4 (225.8) Pienkowski 97
5.001 (226.8) Pienkowski 97
200 (371.3) Baglin 98
Baglin 98C
Abreu 97T
Baglin 95
Baglin 95B
Gerschel 95
Tserruya 95
Baglin 94
Lourenco 94

$n\ e^-$

$10^{-10} - 3.6 \cdot 10^{-7}$ (0.9401)
Kopecky 95

n nucleon

560 (32.46) Wiss 96

$n\ p$

< 0.0528 (< 1.879)
Athanassopou 96B
0.0829 – 0.1481 (1.88 – 1.884)
Wilburn 95
0.175 (1.886) Broz 95
0.2311 – 0.3828 (1.892 – 1.915)
Benck 97
0.3639 (1.912) Tuccillo 94
0.3666 (1.912) Goetz 94
0.4354 (1.925) Olsson 98
0.575 (1.957) Olsson 98
Rahm 98
Ericson 95
0.5996 – 0.7458 (1.963 – 2.004)
Davis 95
0.6143 (1.967) Xu 95B
0.7458 (2.004) Ahmidouch 98
0.8268 – 1.81 (2.028 – 2.364)
Ball 94C
0.8359 (2.031) Ahmidouch 98
0.8789 (2.044) Zhao 98
Abegg 95
Abegg 95B
0.8833 (2.045) Abegg 94B
Zhao 94
0.9351 (2.062) Ahmidouch 98
1.014 (2.088) Bachman 95
1.024 – 1.181 (2.091 – 2.144)
Bannwarth 92
1.053 (2.101) Ahmidouch 98
1.069 (2.106) Carlson 96
1.091 – 1.464 (2.113 – 2.242)
Beddo 93
1.14 (2.13) Ahmidouch 98
1.178 (2.143) Carlson 96
1.25 (2.167) Gankhuyag 98
1.262 (2.172) Carlson 96
< 1.3 (< 2.185)
Arndt 94
1.368 (2.209) Carlson 96
1.45 (2.237) Carlson 96
1.464 – 1.81 (2.242 – 2.364)
Ball 94D
Ball 93C
1.535 – 1.628 (2.267 – 2.3)
Ball 94
< 1.697 (< 2.324)
Arndt 95B
1.697 (2.324) Sawada 97
1.73 (2.336) Gankhuyag 98
1.911 (2.4) Adyasevich 96
1.922 (2.404) Sharov 96
2.23 (2.511) Gankhuyag 98
2.785 (2.698) Sawada 97
3.298 (2.863) Adyasevich 96

$n\ p$

3.309 (2.867) Sharov 96
3.83 (3.027) Gankhuyag 98
3.9 (3.048) Troyan 98B
4.4 (3.195) Troyan 98B
4.492 (3.221) Adyasevich 96
4.503 (3.224) Sharov 96
5.1 (3.39) Gankhuyag 98
5.2 (3.418) Troyan 98
Troyan 98B
Troyan 96
Lyuboshitz 95
Troyan 94

$n\ n$

0. (1.879) Howell 98
1.424 – 405 (2.23 – 27.62)
Gazdzicki 95

n nucleus

40 – 70 Aleev 93C

n deuteron

0.07514 (2.817)
Mcaninch 94
0.1568 (2.824) Setze 96
0.1686 (2.825) Hempen 98
0.1795 (2.827) Hempen 98
0.1899 (2.828) Hempen 98
0.2217 (2.832) Hempen 98
0.3611 (2.859) Balewski 95

$n\ ^3$He

0.06041 (3.736)
Keith 94
0.06041 – 0.1186 (3.736 – 3.74)
Keith 96
0.0829 (3.737) Keith 94
0.09638 (3.738)
Keith 94
0.1184 (3.74) Keith 94

n C

0.2858 (12.17) Slypen 96
Slypen 95
0.3489 (12.19) Slypen 96
Slypen 95
0.377 (12.19) Slypen 96
Slypen 95
4 – 10 (14.76 – 18.73)
Bulekov 98
Bulekov 97
Vlasova 96
Vishnevsky 94
19.98 – 69.99 (23.95 – 41.14)
Aleev 96C
20 – 70 (23.96 – 41.14)
Aleev 96B
260 (77.1) Adamovich 97

$n\ ^{12}$C

40 (31.95) Landsberg 94C

$n\ ^{13}$C

0.4854 (13.16) Martoff 96

n Al

0.3489 (26.13) Benck 98

$n\ ^{27}$Al

0.07514 – 0.9548 (26.09 – 26.47)
Pavlik 98

$n\ ^{31}$Ph

0.6413 (29.97) Sedlar 99

$n\ ^{58}$Ni

0.06134 – 0.1686 (54.97 – 54.98)
Avrigeanu 98

n Cu

4 – 10 (63.18 – 68.52)
Bulekov 98
260 (185.2) Adamovich 97

$n\ ^{81}$Br

0. (76.39) Adachi 94

$n\ ^{93}$Nb

0. (87.87) Adachi 94

$n\ ^{108}$Pd

0. (101.4) Adachi 94

$n\ ^{111}$Cd

0. (104.2) Adachi 94

$n\ ^{120}$Sn

0.8055 (113) Long 98

$n\ ^{124}$Sn

0. (116.4) Adachi 94

$n\ ^{139}$La

0. (130.4) Adachi 94
$3.358 \cdot 10^{-5} - 4.335 \cdot 10^{-5}$ (130.4)
Alfimenkov 96
< 0.1628 (< 130.5)
Bisplinghoff 94

$n\ ^{181}$Ta

0.8055 (169.8) Long 98

n Pb

4 – 10 (197.1 – 202.8)
Bulekov 97
Vlasova 96
Vishnevsky 94

$n\ ^{208}$Pb

0.0003 – 0.0087 (194.7 – 194.7)
Enik 97
0.3775 – 0.575 (194.8 – 194.9)
Eismont 96

$n\ ^{209}$Bi

0.3775 – 0.575 (195.7 – 195.8)
Eismont 96

$n\ ^{238}$U

< 0.1628 (< 222.7)
Bisplinghoff 94
0.3775 – 0.575 (222.7 – 222.8)
Eismont 96
0.8359 (223) Long 98

$\bar{n}\ p$

0. (1.878) Sapozhnikov 94B
Zenoni 94
0.05 – 0.4 (1.879 – 1.918)
Bertin 97D
Iazzi 96
0.05 – 0.405 (1.879 – 1.919)
Bertin 98
0.064 – 0.297 (1.879 – 1.901)
Ableev 94D
0.1 – 0.29 (1.881 – 1.9)
Filippi 96
0.1 – 0.297 (1.881 – 1.901)
Lucherini 94
0.18 (1.886) Ableev 94H
< 0.2 (< 1.888)
Sapozhnikov 95
Feliciello 94
0.24 (1.893) Ableev 94H
> 0.25 (> 1.894)
Feliciello 94
> 0.27 (> 1.897)
Feliciello 94
0.281 (1.898) Ableev 94H

$\bar{n}$ C

0. (12.13) Baldoceolin 94
0.18 (12.14) Ableev 94H
0.24 (12.16) Ableev 94H
0.281 (12.17) Ableev 94H

$\bar{n}$ Al

0.18 (26.09) Ableev 94H

$\bar{n}$ Al

0.24 (26.1) Ableev 94H
0.281 (26.11) Ableev 94H

$\bar{n}$ Fe

0.125 – 0.78 (52.97 – 53.24)
Barbina 97

$\bar{n}$ Cu

0.18 (60.15) Ableev 94H
0.24 (60.17) Ableev 94H
0.281 (60.18) Ableev 94H

$\bar{n}$ Sn

0.18 (111.5) Ableev 94H
0.24 (111.5) Ableev 94H
0.281 (111.5) Ableev 94H

$\bar{n}$ Pb

0.18 (194) Ableev 94H
0.24 (194) Ableev 94H
0.281 (194) Ableev 94H

$\bar{p}\ p$

0. (1.877) Abele 99
Apostolakis 99
Abele 98
Abele 98B
Abele 98C
Abele 98D
Alberico 98
Alberico 98B
Angelopoulos 98
Angelopoulos 98B
Angelopoulos 98C
Angelopoulos 98D
Angelopoulos 98E
Bertin 98B
Abele 97B
Abele 97C
Abele 97D
Abele 97E
Abele 97F
Abele 97G
Adler 97
Adler 97D
Angelopoulos 97
Angelopoulos 97B
Angelopoulos 97C
Angelopoulos 97D
Angelopoulos 97E
Apostolakis 97
Bertin 97B
Bertin 97C
Chiba 97B
Abele 96
Abele 96B
Abele 96C
Adler 96
Adler 96B
Adler 96C
Adler 96D
Adler 96F
Amsler 96
Amsler 96B
Anagnostopou 96
Bertin 96
Bertin 96C
Bertin 96F
Bertin 96G
Bertin 96H
Pinder 96
Prakhov 96
Resag 96
Spanier 96
Spanier 96B
Temnikov 96
Villa 96
Ableev 95C
Adler 95
Adler 95C
Adler 95D
Adler 95E
Adler 95F
Adler 95G
Amsler 95

$\bar{p}\,p$

Amsler 95B
Amsler 95C
Amsler 95E
Amsler 95F
Amsler 95H
Anisovich 95
Bertin 95
Montanet 95
Ableev 94
Ableev 94B
Ableev 94C
Ableev 94E
Adler 94
Adler 94B
Agnello 94
Amsler 94
Amsler 94B
Amsler 94D
Amsler 94F
Amsler 94G
Amsler 94H
Amsler 94I
Amsler 94J
Anisovich 94
Brose 94
Faessler 94
Felix 94
Piccinini 94
Sapozhnikov 94B
Spanier 94
Wiedner 94
Zenoni 94
$< 10^{-6}$ (< 1.877)
Bertin 96E
0.001 – 0.066 (1.877 – 1.878)
Ableev 94F
0.043 – 0.175 (1.877 – 1.885)
Bertin 96B
Bertin 96I
< 0.05 (< 1.877)
Masoni 94
0.05 (1.877) Bertin 97E
Bertin 96B
0.1 – 0.29 (1.879 – 1.898)
Filippi 96
0.15 – 0.9 (1.883 – 2.05)
Meshcheryako 97
0.18 – 0.6 (1.885 – 1.962)
Bradamante 94
< 0.2 (< 1.887)
Sapozhnikov 95
0.3 – 0.9 (1.9 – 2.05)
Bardin 94
0.306 (1.901) Iazzi 96
Feliciello 94
0.36 – 0.76 (1.91 – 2.007)
Oakden 94
0.36 – 0.988 (1.91 – 2.078)
Kloet 96
0.36 – 1.55 (1.91 – 2.272)
Oakden 94
0.36 – 1.99 (1.91 – 2.427)
Oakden 94
0.39 (1.915) Bradamante 94
0.49 (1.936) Bradamante 94
0.5 – 1.5 (1.938 – 2.254)
Lamanna 96
Bradamante 94
0.546 (1.949) Ahmidouch 95B
0.546 – 1.287 (1.949 – 2.179)
Ahmidouch 95
0.59 (1.96) Bradamante 94
0.6 (1.962) Amsler 96D
Degener 96
Ravndal 94
0.6 – 1.9 (1.962 – 2.395)
Evangelista 97
0.601 (1.963) Lamanna 96
Bradamante 95
Birsa 94
Bradamante 94
0.6015 (1.963) Bressan 97
0.69 (1.987) Bradamante 94
0.7 (1.989) Sapozhnikov 95

$\bar{p}\,p$

0.78 (2.013) Bradamante 94
0.875 (2.042) Ahmidouch 96
Ahmidouch 95B
Lamanna 94
0.8973 – 3.308 (2.049 – 2.866)
Hasan 94
< 0.925 (< 2.058)
Deswart 94
Timmermans 94
(2.1 – 2.43) Palano 96
1.1 – 2 (2.115 – 2.43)
Evangelista 98
1.125 – 1.99 (2.124 – 2.427)
Oakden 94
1.2 (2.149) Adomeit 96
Amsler 96D
Degener 96
Pinder 96
Sapozhnikov 95
Ravndal 94
1.202 (2.15) Bressan 97
Lamanna 96
Bradamante 95
Birsa 94
Bradamante 94
(2.15 – 2.43) Bertolotto 96
Steinkamp 94
1.35 – 1.55 (2.201 – 2.272)
Hasan 96B
1.4 (2.219) Bertolotto 95
(2.22 – 2.25) Evangelista 98
1.434 – 1.451 (2.231 – 2.237)
Barnes 94
1.435 (2.231) Rohrich 96
1.435 – 2 (2.231 – 2.43)
Barnes 96
1.436 – 1.919 (2.232 – 2.402)
Eisenstein 94
1.475 – 1.695 (2.245 – 2.323)
Deswart 94
1.6 – 2.2 (2.289 – 2.5)
Bertolotto 94
1.642 (2.304) Barnes 96C
1.65 – 2 (2.307 – 2.43)
Buzzo 97
1.692 (2.322) Eisenstein 94
1.7 – 2 (2.325 – 2.43)
Palano 96
1.726 (2.334) Barnes 96B
1.9 (2.395) Bertolotto 95
1.918 (2.402) Barnes 96C
1.922 (2.403) Barnes 97
1.924 (2.404) Eisenstein 94
1.94 (2.409) Adomeit 96
Amsler 96D
Degener 96
Pinder 96
Amsler 94E
Ravndal 94
1.94 – 2.2 (2.409 – 2.5)
Pinder 96
2.1 – 2.4 (2.465 – 2.568)
Bertolotto 94
(2.5 – 6.5) Cester 94
2.3 (2.534) Sapozhnikov 95
3 – 7 (2.768 – 3.875)
Gollwitzer 94
(2.9 – 3.1) Pordes 96
Menichetti 94
(2.9 – 3.5) Cester 94
(2.9 – 4.62) Ambrogiani 99
(2.91 – 3.1) Armstrong 95
(2.911 – 3.686)
Armstrong 97D
(2.95 – 4) Cester 94
3.6 (2.957) Sapozhnikov 95
(2.98) Ambrogiani 96
Armstrong 94
Gollwitzer 94
Hasan 96
3.7 – 6.2 (2.987 – 3.678)
Armstrong 96
(2.988) Armstrong 95
(2.997) Pordes 96
Menichetti 94

$\bar{p}\,p$

(3) Bertolotto 94
(3 – 3.6) Cester 94
(3.096) Pordes 96
Menichetti 94
(3.097) Gollwitzer 94
(3.1) Armstrong 96B
Cester 94
5.2 – 6.2 (3.417 – 3.678)
Blanford 97
(3.5 – 3.55) Cester 94
(3.5 – 3.6) Cester 94
(3.51) Pordes 96
Menichetti 94
(3.511) Gollwitzer 94
(3.52 – 3.53) Cester 94
(3.523 – 3.686)
Garbincius 94
(3.525 – 3.69) Armstrong 95
(3.526) Ambrogiani 96
Pordes 96
Armstrong 94
Garbincius 94
Gollwitzer 94
Menichetti 94
(3.53 – 3.68) Pordes 96
Menichetti 94
(3.555) Gollwitzer 94
(3.556) Pordes 96
Menichetti 94
Gollwitzer 94
(3.59) Gollwitzer 94
Armstrong 95
5.9 (3.602) White 94B
(3.67) Cester 94
(3.685 – 3.687)
Armstrong 97C
(3.686) Pordes 96
Gollwitzer 94
Menichetti 94
(4.272) Armstrong 97D
22.4 (6.621) Boos 96
Boos 95
Boos 94
Dementiev 94
32 (7.864) Bogolyubsky 97
Kostin 96
Bogolyubsky 95
Boos 95
Zabrodin 95
Bogolyubsky 94
200 (19.42) Adams 97E
Grosnick 97
Bravar 96
Adams 94C
(24.3) Werlen 99
Ballocchi 98
Vogelsang 97
Ballocchi 94
1771 (57.66) Barnes 96B
(200) Alexopoulos 98
Dremin 94
(300) Alexopoulos 98
Alexopoulos 95
Alexopoulos 94
Alexopoulos 94C
(540) Vogelsang 97
Alexopoulos 94
Goulianos 94
Jakobs 94
(541) Kawasaki 95
Augier 94
Haguenauer 94
(541 – 546) Kawasaki 95
(546) Alexopoulos 98
Alexopoulos 95
Abe 93S
Abe 93T
Abe 93U
Belforte 93
(560) Alexopoulos 94C
(630) Abbott 98P
Abe 98W
Buschbeck 98
Brandt 97

$\bar{p}\,p$

Brandt 97B
Brandt 97C
Harr 97
Vogelsang 97
Abachi 96S
Albrow 96
Flaugher 96
Krane 96
Albajar 95
Albajar 95
Bocquet 95
Bocquet 95B
Bocquet 95C
Bocquet 94
Jakobs 94
Albajar 93B
(900) Alexopoulos 98
Dremin 94
(1000) Alexopoulos 98
Alexopoulos 95
Alexopoulos 94
Alexopoulos 94C
(1800) Abbott 99
Abbott 99B
Abbott 99C
Abe 99
Abe 99B
Abe 99D
Abe 99E
Avila 99
Abbott 98
Abbott 98B
Abbott 98C
Abbott 98D
Abbott 98E
Abbott 98F
Abbott 98G
Abbott 98H
Abbott 98J
Abbott 98K
Abbott 98L
Abbott 98M
Abbott 98N
Abbott 98P
Abbott 98Q
Abbott 98R
Abe 98
Abe 98C
Abe 98D
Abe 98E
Abe 98F
Abe 98G
Abe 98I
Abe 98J
Abe 98M
Abe 98N
Abe 98O
Abe 98P
Abe 98Q
Abe 98R
Abe 98S
Abe 98T
Abe 98U
Abe 98V
Abe 98X
Abe 98Y
Abe 98Z
Abe 98ZB
Abe 98ZC
Abe 98ZD
Abe 98ZE
Alexopoulos 98
Dorigo 98
Grossopilche 98
Klima 98
Singh 98
Abachi 97
Abachi 97B
Abachi 97C
Abachi 97D
Abbott 97
Abbott 97B
Abbott 97C
Abbott 97D

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$\bar{p}\,p$

Abbott 97E
Abbott 97F
Abbott 97G
Abbott 97H
Abbott 97I
Abbott 97J
Abbott 97K
Abbott 97L
Abe 97
Abe 97C
Abe 97D
Abe 97F
Abe 97H
Abe 97I
Abe 97K
Abe 97L
Abe 97M
Abe 97N
Abe 97O
Abe 97P
Abe 97Q
Abe 97R
Abe 97S
Abe 97V
Abe 97W
Abe 97X
Abe 97Y
Abe 97Z
Abe 97ZB
Abe 97ZC
Abe 97ZD
Abe 97ZE
Abe 97ZH
Abe 97ZI
Abe 97ZJ
Abe 97ZK
Casey 97
Conway 97
Vogelsang 97
Abachi 96
Abachi 96B
Abachi 96C
Abachi 96D
Abachi 96E
Abachi 96F
Abachi 96G
Abachi 96H
Abachi 96I
Abachi 96J
Abachi 96K
Abachi 96L
Abachi 96M
Abachi 96N
Abachi 96O
Abachi 96P
Abachi 96Q
Abachi 96R
Abachi 96S
Abachi 96T
Abachi 96U
Abachi 96V
Abachi 96W
Abe 96
Abe 96B
Abe 96C
Abe 96D
Abe 96E
Abe 96F
Abe 96G
Abe 96H
Abe 96I
Abe 96J
Abe 96K
Abe 96L
Abe 96M
Abe 96N
Abe 96P
Abe 96Q
Abe 96R
Abe 96S
Abe 96ZD
Albrow 96
Asakawa 96
Azzi 96

$\bar{p}\,p$

Baarmand 96
Bantly 96
Barbarogalti 96
Barnett 96
Bauer 96
Bhat 96
Bhattacharje 96
Binkley 96
Bjorken 96
Blazey 96
Bodek 96
Busetto 96
Butler 96
Casey 96
Castro 96
Chen 96
Chiarelli 96
Choi 96
Cobalgrassma 96
Conway 96
Cullenvidal 96
Demina 96
Dittmann 96
Fatyga 96
Feher 96
Flattum 96
Flaugher 96
Gallas 96
Gallas 96B
Gerdes 96
Giokaris 96
Goshaw 96
Goshaw 96B
Goulianos 96
Greenlee 96
Guglielmo 96
Hall 96
Heinson 96
Heuring 96
Huffman 96
Jaques 96
Joffeminor 96
Jun 96
Kamon 96
Kelly 96
Kotwal 96
Kruse 96
Laasanen 96
Landsberg 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lewis 96
Loomis 96
Loomis 96B
Lucchesi 96
Lys 96
Maeshima 96
Mccarthy 96
Melese 96
Melese 96B
Melese 96C
Meschi 96
Miao 96
Montgomery 96
Narain 96
Narayanan 96
Neuberger 96
Neuberger 96B
Nodulman 96
Nodulman 96B
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Paulini 96
Perkins 96
Phillips 96
Pillai 96
Protopopescu 96
Rajagopalan 96
Rijssenbeek 96
Rolli 96
Sansoni 96

$\bar{p}\,p$

Sinervo 96
Slaughter 96
Snihur 96
Speer 96
Strovink 96
Tarazi 96
Tartarelli 96
Thurmankeup 96
Tkaczyk 96
Toback 96
Valls 96
Varelas 96
Wang 96
Wenzel 96
Wenzel 96B
Yasuda 96
Yu 96B
Yu 96C
Abachi 95B
Abachi 95C
Abachi 95E
Abachi 95F
Abachi 95G
Abachi 95H
Abachi 95I
Abachi 95J
Abachi 95K
Abachi 95L
Abachi 95M
Abachi 95N
Abachi 95O
Abachi 95P
Abachi 95Q
Abachi 95R
Abachi 95S
Abachi 95T
Abachi 95U
Abachi 95V
Abachi 95W
Abachi 95X
Abachi 95Y
Abachi 95Z
Abachi 95ZB
Abachi 95ZC
Abachi 95ZD
Abachi 95ZE
Abachi 95ZF
Abachi 95ZG
Abachi 95ZH
Abachi 95ZI
Abachi 95ZK
Abachi 95ZL
Abachi 95ZM
Abachi 95ZN
Abachi 95ZO
Abachi 95ZP
Abachi 95ZQ
Abe 95
Abe 95B
Abe 95C
Abe 95D
Abe 95E
Abe 95G
Abe 95H
Abe 95I
Abe 95J
Abe 95L
Abe 95M
Abe 95N
Abe 95O
Abe 95P
Abe 95Q
Abe 95R
Abe 95T
Abe 95U
Abe 95W
Abe 95X
Abe 95Y
Abe 95ZB
Abe 95ZC
Abe 95ZE
Abe 95ZH
Abe 95ZI
Abe 95ZK

$\bar{p}\,p$

Aihara 95
Alexopoulos 95
Alexopoulos 95C
Anwaywiese 95
Astur 95
Bantly 95
Bauer 95
Bazizi 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Bertram 95
Binkley 95
Blair 95
Blazey 95
Buckleygeer 95
Debarbaro 95
Demortier 95
Derwent 95
Diehl 95
Eno 95
Frisch 95
Fuess 95
Geer 95B
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Harris 95
Harris 95B
Heuring 95
Hoftun 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Lamoureux 95
Landsberg 95
Markosky 95
Mccarthy 95
Melese 95
Menzione 95
Papadimitrio 95
Papadimitrio 95B
Park 95
Peryshkin 95
Ragan 95
Roser 95
Sansoni 95
Sinervo 95
Skarha 95
Streets 95
Strovink 95
Synder 95
Thompson 95
Ukegawa 95
Unal 95
Wagner 95
Wimpenny 95
Wimpenny 95B
Womersley 95
Yu 95
Yu 95B
Abachi 94
Abachi 94B
Abachi 94C
Abachi 94D
Abe 94
Abe 94B
Abe 94D
Abe 94E
Abe 94F
Abe 94G
Abe 94H
Abe 94I
Abe 94J
Abe 94K

$\bar{p}\,p$

Abe 94L
Abe 94M
Abe 94N
Abe 94O
Abe 94P
Abe 94Q
Abe 94R
Abe 94S
Abe 94T
Abe 94X
Abe 94Y
Abe 94Z
Abe 94ZD
Abe 94ZE
Abe 94ZF
Abe 94ZG
Abe 94ZH
Alexopoulos 94
Alexopoulos 94C
Antos 94
Anwaywiese 94
Badgett 94
Bailey 94
Barker 94
Bartalini 94
Bazizi 94
Benlloch 94
Bhatti 94
Blair 94
Blessing 94
Buckleygeer 94
Budd 94
Byrum 94
Cdfcollabora 94B
Cdfcollabora 94C
Cdfcollabora 94D
Cdfcollabora 94E
Cdfcollabora 94F
Chakraborty 94
Claes 94
Daniels 94
Debarbaro 94
Decarlo 94
Dejongh 94
Derwent 94
Ducros 94
Ellison 94
Eppley 94
Errede 94
Errede 94B
Fahley 94
Frisch 94
Fuess 94B
Garbincius 94
Garbincius 94
Geer 94
Genser 94
Gerdes 94
Giannetti 94
Goulianos 94
Graf 94
Grannis 94
Hagopian 94
Hamilton 94
Hara 94
Harris 94
Harris 94B
Hauger 94B
Hawk 94
Hedin 94
Huehn 94
Jensen 94
Jung 94
Kamon 94
Karen 94
Keup 94
Kim 94
Konigsberg 94
Kopp 94
Kovacs 94
Kovacs 94B
Kuhlmann 94
Kuhlmann 94B
Lecompte 94

$\bar{p}\,p$

Leone 94
Lewis 94
Lewis 94B
Lidemarteau 94
Maeshima 94
Maghakian 94
Melese 94
Mueller 94
Nodulman 94
Norman 94
Oshima 94
Papadimitrio 94
Park 94B
Plunkett 94
Quintas 94
Raja 94
Rimondi 94
Sakyumoto 94
Shochet 94
Skarha 94
Spadafora 94
Sphicas 94
Taketani 94
Tollestrup 94
Watts 94
Weerts 94
White 94
Williams 94
Wolinski 94
Yu 94
Yu 94B
Abachi 93B
Abe 93N
Abe 93S
Abe 93T
Abe 93U
Abe 93W
Belforte 93
Luke 93
Piekarz 93B

$\bar{p}\,n$

0. (1.878) Abele 98E
Chiba 97B
Gaspero 96
Gaspero 95
Gaspero 95B
Ableev 94G
Gaspero 94
Sapozhnikov 94B
Zenoni 94

$\bar{p}$ H(atom)

0. Ableev 94I

$\bar{p}$ nucleus

0. Batusov 96C
40 Grigalashvil 98

$\bar{p}$ deuteron

0. (2.814) Abele 99B
Abele 98E
Abele 97
Bertin 97
Chiba 97
Chiba 97B
Amsler 96C
Anagnostopou 96
Bertin 96D
Chiba 96
Ableev 95
Amsler 95D
Amsler 95G
Ableev 94E
Ableev 94G
Ableev 94I
Amsler 94B
Amsler 94C
Armstrong 94B
Sapozhnikov 94
Strassburger 94
Zenoni 94
$< 10^{-6}$ (< 2.814) Bertin 96E

$\bar{p}$ deuteron

< 0.2 (< 2.828) Sapozhnikov 95
40 (12.43) Grigalashvil 98

$\bar{p}\,^{3}$He

0. (3.733) Nakamura 94

$\bar{p}\,^{4}$He

0. (4.664) Anagnostopou 96
Yamazaki 96
Morita 95
Adamo 94
Daniel 94
Hayano 94B
Nakamura 94

$\bar{p}$ He

0. (4.667) Ableev 94I
0.001 – 0.066 (4.667 – 4.669) Ableev 94F
0.2 (4.684) Widmann 94

$\bar{p}$ Li

0.2 (7.421) Widmann 94
40 (23.66) Grigalashvil 98

$\bar{p}$ Be

0.7 – 2.5 (9.54 – 10.78) Kuzichev 93
Kuzichev 92

$\bar{p}$ C

0.7 – 2.5 (12.34 – 13.63) Kuzichev 93
Kuzichev 92
40 (31.96) Grigalashvil 98

$\bar{p}\,^{12}$C

0. (12.12) Polster 95

$\bar{p}$ Nit

0. (13.99) Ableev 94I

$\bar{p}$ Ne

0. (19.73) Ableev 94I

$\bar{p}\,^{20}$Ne

0. (19.57) Anagnostopou 96

$\bar{p}$ Mg

100 (71) Whitmore 94

$\bar{p}$ Al

0.7 – 2.5 (26.29 – 27.69) Kuzichev 93
Kuzichev 92

$\bar{p}\,^{27}$Al

0. (26.09) Polster 95

$\bar{p}\,^{28}$Si

0. (27.02) Polster 95

$\bar{p}$ S

40 (57.29) Grigalashvil 98

$\bar{p}$ Ar

0. (38.15) Ableev 94I

$\bar{p}\,^{40}$Ca

0. (38.2) Polster 95

$\bar{p}$ Fe

0.7 – 2.5 (53.19 – 54.64) Kuzichev 93
Kuzichev 92

$\bar{p}\,^{58}$Ni

0. (54.97) Lubinski 98
Lubinski 94

$\bar{p}$ Cu

0. (60.14) Ivanov 95
0.7 – 2.5 (60.36 – 61.82) Kuzichev 93
Kuzichev 92
1.9 (61.29) Schmid 97
1.921 (61.31) Goldenbaum 96
40 (90.79) Grigalashvil 98

$\bar{p}\,^{64}$Cu

0. (60.56) Polster 95

$\bar{p}$ Yt

1.9 (84.91) Schmid 97

$\bar{p}\,^{96}$Zr

0. (90.36) Lubinski 98
Lubinski 94

$\bar{p}$ Nb

0. (87.48) Ivanov 95

$\bar{p}\,^{92}$Mo

0. (86.53) Polster 95

$\bar{p}$ Mo

1.9 (91.47) Schmid 97

$\bar{p}\,^{100}$Mo

0. (94.09) Polster 95

$\bar{p}\,^{96}$Ru

0. (90.25) Lubinski 98
Lubinski 94

$\bar{p}\,^{108}$Ag

0. (101.4) Polster 95

$\bar{p}$ Ag

0. (101.4) Ivanov 95
1.9 (102.6) Schmid 97
100 (173.8) Whitmore 94

$\bar{p}\,^{106}$Cd

0. (99.57) Lubinski 98

$\bar{p}$ Cd

0.7 – 2.5 (105.9 – 107.3) Kuzichev 93
Kuzichev 92

$\bar{p}$ Sn

1.9 (112.7) Schmid 97

$\bar{p}\,^{128}$Te

0. (120.2) Lubinski 98

$\bar{p}\,^{130}$Te

0. (13.03) Lubinski 98
Lubinski 94

$\bar{p}$ Xe

0. (123.2) Barmin 96
Ableev 94I
0.06 – 0.75 (123.3 – 123.5) Barmin 94
< 0.4 (< 123.3) Barmin 94B
0.4 – 0.9 (123.3 – 123.6) Barmin 96
Barmin 94B
< 1 (< 123.7) Barmin 96B
1.94 (124.4) Baur 96

$\bar{p}\,^{148}$Nd

0. (138.7) Lubinski 98

$\bar{p}\,^{144}$Sm

0. (135) Lubinski 98
Lubinski 94

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

$\bar{p}$ ^{154}Sm

0. (144.3) Lubinski 98
Lubinski 94

$\bar{p}$ ^{160}Gd

0. (149.9) Lubinski 98

$\bar{p}$ Ho

0. (154.6) Ivanov 95
Schmid 94
1.9 (155.7) Schmid 97

$\bar{p}$ ^{165}Ho

0. (154.6) Polster 95
1.921 (155.8) Goldenbaum 96

$\bar{p}$ ^{176}Yb

0. (164.8) Lubinski 98

$\bar{p}$ ^{181}Ta

0. (169.5) Polster 95

$\bar{p}$ Au

0. (184.4) Ivanov 95
Schmid 94
1.9 (185.6) Schmid 97
100 (265.3) Whitmore 94

$\bar{p}$ ^{197}Au

0. (185.3) Polster 95
< 0.585 (< 185.4)
Jahnke 96
1.2 (185.9) Jahnke 96
1.921 (186.5) Goldenbaum 96

$\bar{p}$ Pb

0. (193.9) Ivanov 95
0.7 – 2.5 (194.2 – 195.7)
Kuzichev 93
Kuzichev 92
2 (195.2) Pienkowski 97
3 (196.1) Pienkowski 97
4 (197.1) Pienkowski 97
5 (198) Pienkowski 97
40 (229.6) Grigalashvil 98

$\bar{p}$ ^{208}Pb

< 0.585 (< 194.9)
Jahnke 96
1.2 (195.3) Jahnke 96

$\bar{p}$ ^{209}Bi

0. (195.6) Polster 95
0.105 (195.6) Hofmann 94
< 0.585 (< 195.8)
Jahnke 96
1.2 (196.2) Jahnke 96

$\bar{p}$ Bi

0. (195.6) Ivanov 95
1.9 (196.8) Schmid 97

$\bar{p}$ Th

0. (217.1) Ivanov 95
Schmid 94
1.9 (218.3) Schmid 97

$\bar{p}$ ^{232}Th

0. (217) Lubinski 98
Lubinski 94
0.105 (217.1) Hofmann 94

$\bar{p}$ U

0. (222.7) Ivanov 95
Schmid 94
1.9 (223.8) Schmid 97

$\bar{p}$ ^{238}U

0. (222.6) Lubinski 98
Schmid 97B
Polster 95

$\bar{p}$ ^{238}U

Lubinski 94
0.105 (222.6) Hofmann 94
< 0.585 (< 222.8)
Jahnke 96
1.2 (223.2) Jahnke 96
1.921 (223.8) Goldenbaum 96

$\Delta(1232\,P_{33})^+$ nucleon

(2.25) Holzmann 96

$\Delta(1232\,P_{33})^0$ nucleon

(2.25) Holzmann 96

Λ Be

260 – 500 (66.61 – 92.01)
Woods 96

Λ Cu

300 – 800 (197.5 – 313.4)
Wallace 95
Lach 94

Σ^+ γ^*

375 Lach 94

Σ^+ p

0.3 – 0.6 (2.144 – 2.19)
Ahn 98B

Σ^0 Be

260 – 500 (66.61 – 92.02)
Woods 96

Σ^0 Cu

300 – 800 (197.5 – 313.4)
Wallace 95
Lach 94

Σ^- e^-

315 – 345 (1.322 – 1.334)
Adamovich 99
600 (1.426) Eschrich 98

Σ^- deuteron

1.8 (3.614) Chrien 98

Σ^- C

330 (86.66) Beusch 95
340 (87.95) Adamovich 98B
Paul 96
Schmitt 96
Adamovich 95C
345 (88.58) Adamovich 97
Adamovich 97C
360 (90.45) Chudakov 94

Σ^- Cu

330 (206.3) Beusch 95
340 (209.2) Adamovich 98B
Paul 96
Schmitt 96
Adamovich 95C
345 (210.6) Adamovich 97
Adamovich 97C
360 (214.8) Chudakov 94

$\bar{\Sigma}^-$ γ^*

375 Lach 94

Ξ^- nucleus

0. Nakazawa 98

Ξ^- ^{12}C

0. (12.5) Lowe 98
< 1.66 (< 13.2)
Aoki 95B

strangelet nucleus

? Perilloisaac 98

$(\pi p)_{atom}$ p

0. Badertscher 96

nucleus nucleus

57.2 – 6400 Gazdzicki 95
10^4 – 10^5 Aglietta 97C
> 10^4 Kawasumi 96
> $5 \cdot 10^5$ Borisov 97
$8 \cdot 10^5$ – $1.3 \cdot 10^7$
Kasahara 97
10^6 – 10^8 Vishnevskaya 98
> $5 \cdot 10^6$ Borisov 97

frag p

< 50 Gaitinov 94

deuteron p

< 0.01732 (< 2.814)
Schmid 96
0.03519 (2.814)
Ma 97
0.1587 (2.816) Browne 96
0.2186 – 0.2733 (2.818 – 2.82)
Schmid 96B
0.4133 (2.829) Anklin 98B
0.4451 (2.831) Qin 95
1.042 (2.903) Sakamoto 96
1.102 – 3.773 (2.912 – 3.508)
Punjabi 95
1.102 – 3.775 (2.912 – 3.508)
Punjabi 94
1.284 – 1.34 (2.943 – 2.954)
Nikulin 96
3.3 (3.394) Deloff 95
3.34 (3.404) Glagolev 98
Hlavacova 97
Glagolev 95B
3.35 (3.406) Glagolev 96
3.391 (3.416) Belostotsky 97
Belostotsky 94
Ero 94
3.5 – 6 (3.442 – 4.024)
Azhgirey 94B
3.5 – 6.5 (3.442 – 4.134)
Azhgirey 97
Azhgirey 97B
4.2 (3.61) Averichev 95B
Averichev 95C
4.24 – 6.5 (3.619 – 4.134)
Azhgirey 97
4.495 (3.679) Azhgirey 98
4.5 (3.681) Azhgirey 95
Azhgirey 95B
5.5 (3.912) Azhgirey 95
Azhgirey 95B
5.532 (3.919) Azhgirey 98
6.5 (4.134) Averichev 95B
Averichev 95C
7.3 – 8.9 (4.306 – 4.633)
Anisimov 97
9 (4.653) Afanasiev 98C
Azhgirey 98
Azhgirey 96
Averichev 95B
Averichev 95C
Azhgirey 94

deuteron nucleus

2.5 Troyan 94B
8.266 – 9.084 Okonov 94
9 Ghosh 94B

deuteron deuteron

0.001285 (3.751)
Bulgakov 97
0.2125 (3.757) Felsher 97
0.569 (3.793) Bargholtz 97B
1.568 (4.026) Bargholtz 97
1.602 (4.036) Johansson 98B
2.337 – 2.36 (4.275 – 4.283)
Willis 97
2.337 (4.275) Wurzinger 98
Frascaria 94
2.338 (4.276) Frascaria 94
2.34 (4.276) Frascaria 94
2.341 (4.276) Frascaria 94

deuteron ^{6}Li

0.6967 (7.558) Xu 95
9 (11.73) Bondarev 94

deuteron ^{7}Li

9 (12.88) Bondarev 94

deuteron Be

9 (15.11) Afanasiev 98C

deuteron ^{9}Be

0.379 (10.29) Auce 96
0.5 (10.31) Auce 96
0.6122 (10.34) Auce 96

deuteron C

0.8289 – 2.926 (13.21 – 14.37)
Ladygin 97
1.616 (13.57) Peterson 94
3.4 (14.68) Ermakov 94
3.731 (14.9) Debowski 97
5.5 (16.08) Anisimov 98
6 – 9 (16.41 – 18.29)
Aono 95
Chernykh 94
6.615 (16.81) Sugaya 97
7.3 – 8.9 (17.24 – 18.23)
Anisimov 97
7.649 (17.46) Sugaya 97
Chiba 94
8.4 (17.92) Simic 98
Suleimanov 98
Kuznetsov 97B
Kuznetsov 97C
Kuznetsov 96
Angelov 94
Backovic 94
Bazarov 94
Bekmirzaev 94
Dedovich 94
Ermakov 94
Bekmirzaev 93
8.675 (18.09) Sugaya 97
Chiba 94
8.982 (18.28) Baldin 95
9 (18.29) Abraamyan 98
Afanasiev 98C
Abraamyan 94C
Baldin 94
Bondarev 94
Nomofilov 94
9.696 (18.7) Sugaya 97
Chiba 94
11.73 (19.86) Sugaya 97
Chiba 94
400 (95.28) Baglin 98B

deuteron ^{12}C

0.379 (13.09) Auce 96
0.5 (13.11) Auce 96
0.6122 (13.14) Auce 96
0.6967 (13.16) Xu 95
0.8 (13.19) Baldin 95B
0.8889 (13.23) Morlet 94
Vandewiele 94
1 (13.27) Baldin 95B
1.042 (13.28) Okamura 94
2.926 (14.36) Sams 95
3.391 (14.67) Sams 95
3.8 (14.94) Averichev 95C
4.2 (15.21) Averichev 95B
4.495 (15.41) Azhgirey 98
4.5 (15.41) Azhgirey 95
Azhgirey 95B
5.5 (16.08) Azhgirey 95
Azhgirey 95B
5.532 (16.1) Azhgirey 98
5.8 – 9 (16.27 – 18.28)
Azhgirey 96B
6 – 9 (16.4 – 18.28)
Kuehn 94
6.2 (16.53) Afanasiev 97
6.2 – 9 (16.53 – 18.28)
Anisimov 95
6.5 (16.73) Averichev 95B

deuteron ^{12}C

	Averichev 95C
7 (17.05)	Afanasiev 97
7.4 (17.3)	Afanasiev 97
8.4 (17.92)	Bondarenko 98C
	Bondarenko 96
8.6 (18.04)	Afanasiev 97
9 (18.28)	Afanasiev 98
	Afanasiev 98B
	Azhgirey 98
	Azhgirey 98B
	Afanasiev 97
	Azhgirey 96
	Averichev 95B

deuteron ^{13}C

0.6967 (14.09)	Xu 95

deuteron ^{16}O

0.379 (16.81)	Auce 96
0.5 (16.83)	Auce 96
0.6122 (16.86)	Auce 96
0.8889 (16.95)	Vandewiele 94

deuteron ^{24}Mg

0.6967 (24.35)	Xu 95
1.042 (24.48)	Niizeki 94

deuteron ^{26}Mg

1.042 (26.35)	Niizeki 94

deuteron Al

7.649 (32.11)	Chiba 94
8.675 (32.88)	Chiba 94
9 (33.13)	Baldin 94
	Bondarev 94
9.696 (33.64)	Sugaya 97
	Chiba 94
11.73 (35.1)	Sugaya 97
	Chiba 94

deuteron Si

9 (34.19)	Bondarev 94

deuteron ^{28}Si

0.379 (27.99)	Auce 96
0.5 (28.02)	Auce 96
0.6122 (28.05)	Auce 96
1.042 (28.21)	Niizeki 94

deuteron Ca

1.616 (39.78)	Peterson 94
3.391 (41.07)	Porter 98
	Porter 97

deuteron ^{40}Ca

0.379 (39.17)	Auce 96
0.5 (39.2)	Auce 96
0.6122 (39.23)	Auce 96
0.8889 (39.33)	Morlet 94
1.042 (39.39)	Ohnishi 98

deuteron ^{48}Ca

0.379 (46.62)	Auce 96
0.5 (46.65)	Auce 96
0.6122 (46.68)	Auce 96

deuteron ^{58}Ni

0.379 (55.94)	Auce 96
0.5 (55.97)	Auce 96
0.6122 (56)	Auce 96
0.8889 (56.1)	Vandewiele 94
9 (62.58)	Bondarev 94

deuteron ^{60}Ni

0.379 (57.8)	Auce 96
0.5 (57.83)	Auce 96
0.6122 (57.86)	Auce 96

deuteron ^{64}Ni

9 (68.22)	Bondarev 94

deuteron Cu

5.5 (64.77)	Anisimov 98

deuteron Cu

6.615 (65.74)	Sugaya 97
7.649 (66.64)	Sugaya 97
	Chiba 94
8.675 (67.52)	Sugaya 97
	Chiba 94
9 (67.8)	Abraamyan 98
	Abraamyan 94C
	Baldin 94
9.696 (68.39)	Sugaya 97
	Chiba 94
11.73 (70.1)	Sugaya 97
	Chiba 94

deuteron ^{64}Zn

9 (68.14)	Bondarev 94

deuteron ^{90}Zr

0.8889 (85.91)	Vandewiele 94

deuteron ^{112}Sn

0.379 (106.2)	Auce 96
0.5 (106.3)	Auce 96
0.6122 (106.3)	Auce 96

deuteron ^{114}Sn

9 (114.9)	Bondarev 94

deuteron ^{116}Sn

0.379 (110)	Auce 96
0.5 (110)	Auce 96
0.6122 (110)	Auce 96
0.8889 (110.1)	Vandewiele 94

deuteron ^{120}Sn

0.379 (113.7)	Auce 96
0.5 (113.7)	Auce 96
0.6122 (113.8)	Auce 96
0.8889 (113.9)	Vandewiele 94

deuteron ^{124}Sn

0.379 (117.4)	Auce 96
0.5 (117.5)	Auce 96
0.6122 (117.5)	Auce 96
9 (124.4)	Bondarev 94

deuteron Ta

8.4 (177)	Garsevanishv 98
	Simic 98
	Kuznetsov 96
	Backovic 94
	Bekmirzaev 94B
	Dedovich 94

deuteron Au

400 (424.8)	Alber 97

deuteron Pb

0.8606 (195.1)	Lott 97
1.616 (195.5)	Peterson 94
2 (195.7)	Pienkowski 97
3 (196.5)	Pienkowski 97
3.731 (197.2)	Debowski 97
4 (197.4)	Pienkowski 97
5 (198.3)	Pienkowski 97
6.615 (199.8)	Sugaya 97
7.3 – 8.9 (200.4 – 201.9)	Anisimov 97
7.649 (200.7)	Sugaya 97
9 (202)	Baldin 94
	Bondarev 94
9.696 (202.7)	Sugaya 97
11.73 (204.6)	Sugaya 97

deuteron ^{208}Pb

0.379 (195.7)	Auce 96
0.5 (195.7)	Auce 96
0.6122 (195.7)	Auce 96
1.616 (196.2)	Yamazaki 98

deuteron U

400 (476)	Baglin 98B

dibaryon nucleus

7 – 8	Belz 96B

^{3}H p

1.132 (3.788)	Korsheninnik 97

^{3}H C

9 (18.54)	Avramenko 94

^{3}H ^{12}C

5.979 (16.74)	Avramenko 96

^{3}H Mg

9 (30.77)	Avramenko 94

^{3}He p

13.5 (5.879)	Glagolev 95B
	Glagolev 94B

^{3}He nucleus

0.2366	Egorov 97

^{3}He ^{3}He

0.01076 – 0.01175 (5.589 – 5.589)	Arpesella 96
< 0.01672 (< 5.589)	Arpesella 97

^{3}He ^{12}C

1.648 (14.33)	Harakeh 94

^{3}He ^{71}Ga

1.648 (69.32)	Ejiri 98
	Fujiwara 94

^{3}He ^{90}Zr

1.648 (87.06)	Fujiwara 94
	Yamagata 94

^{3}He Ag

3.647 (105)	Foxford 96
	Morley 96
	Brzychczyk 95
	Morley 95
3.647 – 7.062 (105 – 107.8)	Kwiatkowski 98
3.896 (105.2)	Ledoux 98
	Pienkowski 94
5.752 (106.7)	Foxford 96
	Morley 96
	Brzychczyk 95
	Morley 95
7.062 (107.8)	Kwiatkowski 98B
	Foxford 96
	Morley 96
	Brzychczyk 95
	Kwiatkowski 95
	Morley 95

^{3}He ^{112}Sn

1.076 (107.3)	Pham 95

^{3}He ^{114}Sn

1.076 (109.1)	Pham 95

^{3}He ^{116}Sn

1.076 (111)	Pham 95

^{3}He ^{117}Sn

1.076 (111.9)	Pham 95

^{3}He ^{118}Sn

1.076 (112.9)	Pham 95

^{3}He ^{119}Sn

1.076	Pham 95

^{3}He ^{120}Sn

1.076 (114.8)	Pham 95

^{3}He ^{122}Sn

1.076 (116.6)	Pham 95

^{3}He ^{124}Sn

1.076 (118.5)	Pham 95

^{3}He Au

3.647 (188)	Morley 96
	Morley 95
3.896 (188.2)	Ledoux 98
	Pienkowski 94
5.752 (189.8)	Morley 96
	Morley 95
7.062 (190.9)	Morley 96
	Morley 95

^{3}He ^{197}Au

0.3432 – 0.8791 (187.2 – 187.3)	Rubehn 96C
3.647 (188.9)	Brzychczyk 95
3.647 – 7.062 (188.9 – 191.8)	Kwiatkowski 98
7.062 (191.8)	Brzychczyk 98
	Kwiatkowski 98B
	Wang 97F
	Brzychczyk 95
	Kwiatkowski 95

^{3}He ^{208}Pb

0.3432 – 0.8791 (196.6 – 196.7)	Rubehn 96C
1.648 (197)	Harakeh 94
	Yamagata 94

^{3}He ^{209}Bi

0.3432 – 0.8791 (197.5 – 197.6)	Rubehn 96C

^{3}He Bi

3.896 (199.4)	Ledoux 98
	Pienkowski 94

^{3}He U

3.896 (226.5)	Ledoux 98
	Pienkowski 94

^{4}He p

2.7 (4.837)	Blinov 95B
	Grechko 94
	Abdullin 92
5 (5.144)	Chadeeva 97
5.353 (5.196)	Alkhazov 97
8.6 (5.688)	Glagolev 98
	Glagolev 98B
	Glagolev 97
	Glagolev 95B
	Sobchak 95B
8.6 – 13.6 (5.688 – 6.421)	Sobchak 95
13.48 (6.404)	Glagolev 95B
13.6 (6.421)	Glagolev 98
	Sobchak 95B

^{4}He nucleus

16.8	Bondarenko 98B
18	Ghosh 94B
243.7	Elnadi 94

^{4}He deuteron

7 (6.866)	Morsch 94

^{4}He ^{4}He

0.497 – 0.5119 (7.468 – 7.469)	Debraeckelee 95
0.9451 (7.511)	Warner 94

^{4}He Li

18 (17.13)	Besliu 98

^{4}He C

11.12 – 23.43 (20.04 – 25.88)	Chiba 94
13.21 (21.12)	Sugaya 97
15.28 (22.16)	Sugaya 97
16.8 (22.89)	Suleimanov 98
	Suleimanov 98B
	Kuznetsov 97B
	Kuznetsov 97C

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^{4}He C

	Bekmirzaev 94
	Ermakov 94
	Bekmirzaev 93
17.33 (23.15)	Sugaya 97
18 (23.46)	Abraamyan 98
	Abraamyan 92
19.37 (24.09)	Sugaya 97
23.43 (25.88)	Sugaya 97

^{4}He ^{12}C

7 (17.78)	Morsch 94
16.8 (22.88)	Bondarenko 98C
	Bondarenko 96

^{4}He Al

17.74 (39.45)	Adyasevich 94
	Adyasevich 94B
18 (39.62)	Besliu 98
19.37 (40.46)	Sugaya 97
23.43 (42.87)	Sugaya 97

^{4}He ^{27}Al

0.6125 (28.92)	Mukherjee 95
0.6714 (28.93)	Mukherjee 95

^{4}He Si

0.7763 – 1.359 (29.96 – 30.1)	
	Warner 96

^{4}He Cu

11.12 (70.05)	Sugaya 97
11.12 – 23.43 (70.05 – 79.54)	
	Chiba 94
13.21 (71.72)	Sugaya 97
15.28 (73.35)	Sugaya 97
17.33 (74.95)	Sugaya 97
18 (75.46)	Abraamyan 98
	Besliu 98
	Abraamyan 92
19.37 (76.51)	Sugaya 97
23.43 (79.54)	Sugaya 97

^{4}He Ag

1.237 (104.4)	Zhang 97
16 (115.8)	Todorovic 98

^{4}He Ta

16.8 (185)	Bekmirzaev 94B

^{4}He Au

1.237 (187.4)	Zhang 97
16 (199.3)	Todorovic 98

^{4}He ^{197}Au

4 – 14.4 (189.8 – 198.7)	
	Lips 94C
6.768 (191.9)	Lips 94
17.74 (201.7)	Lips 94
	Lips 94B
17.94 (201.9)	Shmakov 95

^{4}He Pb

1.281 (196.9)	Lott 97
16 (208.8)	Todorovic 98
17.74 (210.4)	Adyasevich 94
	Adyasevich 94B
18 (210.6)	Besliu 98
$> 2 \cdot 10^{4}$ (> 2785)	
	Apanasenko 94

^{4}He ^{232}Th

1.237 (220)	Chen 96B

^{4}He U

16 (237.6)	Todorovic 98

He nucleus

16.51 – 18.15	Okonov 94

He He

0.68 – 1.098 (7.487 – 7.535)	
	Mercer 97

He He

1.228 (7.555)	Cowley 94

He Li

18 (17.13)	Anikina 98
	Chkhaidze 95
	Albaaj 94

He ^{6}Li

18 (15.83)	Bondarev 94

He ^{7}Li

18 (17.21)	Bondarev 94

He ^{9}Be

1.228 (12.25)	Cowley 94
2.159 (12.51)	Nadasen 99

He C

7.447 (18.04)	Debowski 97
16.8 (22.89)	Aslanyan 96
	Kuznetsov 96
	Angelov 94
	Backovic 94
18 (23.46)	Anikina 98
	Chkhaidze 95
	Jipa 95
	Abraamyan 94C
	Bondarev 94

He ^{12}C

0.7491 (14.96)	Auce 94
0.8833 (14.99)	Auce 94
0.9904 (15.01)	Auce 94
1.103 (15.03)	Auce 94
1.214 (15.05)	Auce 94
1.237 (15.06)	Steyn 99
2.159 (15.34)	Nadasen 99

He ^{16}O

0.7491 (18.69)	Auce 94
0.8833 (18.71)	Auce 94
0.9904 (18.73)	Auce 94
1.103 (18.76)	Auce 94
1.214 (18.78)	Auce 94

He Ne

18 (32.52)	Jipa 95

He Al

18 (39.62)	Jipa 95
	Bondarev 94

He Si

18 (40.75)	Bondarev 94

He ^{28}Si

0.7491 (29.88)	Auce 94
0.8833 (29.9)	Auce 94
0.9904 (29.92)	Auce 94
1.103 (29.95)	Auce 94
1.214 (29.98)	Auce 94

He Ca

6.77 (44.55)	Porter 98
	Porter 97

He ^{40}Ca

0.7491 (41.06)	Auce 94
0.8833 (41.08)	Auce 94
0.9904 (41.11)	Auce 94
1.103 (41.13)	Auce 94
1.214 (41.16)	Auce 94

He ^{48}Ca

0.7491 (48.51)	Auce 94
0.8833 (48.54)	Auce 94
0.9904 (48.56)	Auce 94
1.103 (48.59)	Auce 94
1.214 (48.62)	Auce 94

He ^{58}Ni

0.7491 (57.83)	Auce 94
0.8833 (57.85)	Auce 94
0.9904 (57.88)	Auce 94
1.103 (57.9)	Auce 94
1.214 (57.94)	Auce 94
18 (70.14)	Bondarev 94

He ^{60}Ni

0.7491 (59.69)	Auce 94
0.8833 (59.72)	Auce 94
0.9904 (59.74)	Auce 94
1.103 (59.77)	Auce 94
1.214 (59.8)	Auce 94

He ^{64}Ni

18 (75.89)	Bondarev 94

He Cu

18 (75.46)	Jipa 95
	Abraamyan 94C

He ^{64}Zn

18 (75.81)	Bondarev 94

He ^{114}Sn

18 (123.2)	Bondarev 94

He ^{124}Sn

0.7491 (119.3)	Auce 94
0.8833 (119.3)	Auce 94
0.9904 (119.4)	Auce 94
1.103 (119.4)	Auce 94
1.214 (119.4)	Auce 94
18 (132.7)	Bondarev 94

He Ta

16.8 (185)	Garsevanishv 98
	Backovic 94

He Pb

7.447 (201.2)	Debowski 97
18 (210.6)	Jipa 95
	Bondarev 94

He ^{208}Pb

0.7491 (197.6)	Auce 94
0.8833 (197.6)	Auce 94
0.9904 (197.6)	Auce 94
1.103 (197.6)	Auce 94
1.214 (197.7)	Auce 94

^{6}He p

1.689 (6.563)	Cortinagil 97
2.223 (6.588)	Korsheninnik 97
2.559 (6.607)	Brown 96C
8.161 (7.119)	Alkhazov 97

^{6}He Si

1.164 – 2.038 (31.85 – 32.05)	
	Warner 96

^{6}He ^{209}Bi

0.4612 – 0.5799 (200.3 – 200.3)	
	Kolata 98

^{8}He p

10.46 (8.973)	Alkhazov 97

^{8}He C

5.683 (19.76)	Nilsson 96

^{8}He Si

1.553 – 2.717 (33.74 – 33.99)	
	Warner 96

^{6}Li p

6.804 (6.974)	Webber 98

^{6}Li nucleus

27	Lepekhin 98
	Lepekhin 95
	Elsharkawy 94
	Lepekhin 94B
27.22	Elnadi 98

^{6}Li Si

1.164 – 2.038 (31.85 – 32.05)	
	Warner 96

^{7}Li p

2.556 (7.519)	Cortinagil 97

^{7}Li nucleus

20.93	Elnadi 98
26.74	Yasin 95
28.7	Elnaghy 94
31.76	Elnadi 94C
37.46	Yasin 95

^{7}Li Si

1.358 – 2.378 (32.79 – 33.02)	
	Warner 96

^{8}Li Si

1.553 – 2.717 (33.74 – 33.99)	
	Warner 96

^{9}Li Si

1.747 – 3.057 (34.68 – 34.95)	
	Warner 96

^{11}Li Be

2.531 (18.78)	Nilsson 95

^{11}Li C

8.521 (22.99)	Nilsson 95

^{11}Li Si

2.135 – 3.736 (36.57 – 36.88)	
	Warner 96

^{11}Li Ni

2.531 (65.19)	Nilsson 95

^{11}Li Au

2.531 (194)	Nilsson 95

^{11}Li Pb

8.521 (206.2)	Nilsson 95

^{9}Be ^{208}Pb

0.7668 – 0.9261 (202.2 – 202.2)	
	Dasgupta 99

^{10}Be p

3.377 (10.31)	Cortinagil 97

^{10}Be Si

1.941 – 3.398 (35.63 – 35.92)	
	Warner 96

^{11}Be p

3.378 (11.23)	Cortinagil 97

^{11}Be Be

3.073 (18.84)	Nilsson 95

^{11}Be ^{9}Be

3.073 (18.83)	Anne 94

^{11}Be C

11.37 (23.93)	Nilsson 95

^{11}Be Ti

3.073 (55.23)	Nilsson 95
	Anne 94

^{11}Be ^{197}Au

3.073 (195)	Anne 94

^{8}Bor ^{208}Pb

0.8813 (201.3)	Kikuchi 98

^{10}Bor p

11.26 (10.73)	Webber 98

C p

23.79 (13.24)	Kulakov 98

C p

50.4 (14.93)	Kuznetsov 97
51.49 (15)	Kulakov 98
54 (15.15)	Ameeva 94

C nucleus

49.54 – 54.45	Okonov 94
50.4	Belaga 95E
54	Belaga 95H
	Ameeva 94
	Belaga 94
	Ghosh 94B

C ^{6}Li

54 (27.8)	Bondarev 94

C ^{7}Li

54 (29.78)	Bondarev 94

C C

20.31 (27.73)	Porter 98
	Porter 97
23.79 (28.96)	Kulakov 98
50.4 (37.49)	Simic 98
	Kuznetsov 97
	Kuznetsov 97B
	Kuznetsov 97C
	Aslanyan 96
	Kuznetsov 96
	Bazarov 95
	Boos 95
	Cheplakov 95
	Simic 95
	Angelov 94
	Backovic 94
	Bazarov 94
	Ermakov 94
51.49 (37.81)	Kulakov 98
54 (38.53)	Abraamyan 98
	Abraamyan 96
	Jipa 95
	Abraamyan 94C
	Bondarev 94

C Ne

54 (50.5)	Anikina 98
	Chkhaidze 97
	Chkhaidze 95
	Jipa 95

C Al

54 (59.4)	Bondarev 94

C Si

54 (60.79)	Bondarev 94

C Fe

$> 1.2 \cdot 10^4$ ($>$ 1119)	Apanasenko 97
$> 6 \cdot 10^4$ ($>$ 2499)	Apanasenko 94

C ^{58}Ni

54 (94.88)	Bondarev 94

C ^{64}Ni

54 (101.3)	Bondarev 94

C Cu

22 (80.94)	Bisplinghoff 94
23.79 (82.11)	Kulakov 98
44 (94.89)	Bisplinghoff 94
51.49 (99.33)	Kulakov 98
54 (100.8)	Abraamyan 98
	Anikina 98
	Chkhaidze 97
	Abraamyan 96
	Chkhaidze 95
	Jipa 95
	Abraamyan 94C

C ^{64}Zn

54 (101.2)	Bondarev 94

C Zr

54 (129.3)	Jipa 95

C ^{114}Sn

54 (151.9)	Bondarev 94

C ^{124}Sn

54 (161.9)	Bondarev 94

C Ta

50.4 (214.3)	Garsevanishv 98
	Simic 98
	Kuznetsov 97
	Kuznetsov 96
	Simic 96
	Bazarov 95
	Boos 95
	Cheplakov 95
	Simic 95
	Backovic 94
	Bazarov 94

C Pb

54 (242.2)	Chkhaidze 95
	Jipa 95
	Bondarev 94
$> 1.2 \cdot 10^4$ ($>$ 2161)	Apanasenko 97
$> 6 \cdot 10^4$ ($>$ 4816)	Apanasenko 94

^{12}C p

50.4 (14.92)	Belaga 95B
	Bondarenko 94

^{12}C nucleus

49.14	Belaga 96
50.4	Belyakov 98
	Bondarenko 98B
	Belaga 95
	Chernov 95B
52.8	Belaga 95F
54	Bondarenko 98
	Ahmad 95
	Belaga 95D
	Belaga 95I
	Chernov 95B
	Gulamov 95
	Khan 95
	Tariq 95
	Yasinelbakry 95
	Ahmad 94
	Ghosh 94D
	Tariq 94

^{12}C C

4.304 – 6.98 (22.76 – 23.35)	Holzmann 97
17.52 – 33.36 (26.74 – 32.21)	Laue 99
50.4 (37.49)	Suleimanov 98
	Suleimanov 98B
	Belaga 95G
	Bekmirzaev 94
	Bondarenko 94
	Bekmirzaev 93
53.83 (38.48)	Baldin 95
54 (38.52)	Zarubin 94

^{12}C ^{12}C

2.49 (22.5)	Horn 96
3.898 (22.69)	Llope 95
4.575 (22.81)	Llope 95
5.724 (23.04)	Llope 95
6.233 (23.16)	Ichihara 94
6.712 (23.27)	Llope 95
17.52 (26.73)	Averbeck 97
20.31 (27.72)	Averbeck 97
33.36 (32.2)	Averbeck 97
50.4 (37.47)	Bondarenko 98C
	Kulakov 97
	Bondarenko 96

^{12}C Al

53.22 (59.08)	Adyasevich 94
	Adyasevich 94B

^{12}C Cu

22 (80.94)	Kulakov 95
26.95 (84.17)	Brandt 95
44 (94.89)	Kulakov 95
53.22 (100.3)	Adyasevich 94
	Adyasevich 94B
53.83 (100.7)	Baldin 95
54 (100.8)	Gelovani 98
	Gogiberidze 98
	Gazdzicki 96
	Sarkisyan 95
54.04 (100.8)	Brandt 95

^{12}C Yt

53.83 (126.8)	Fedorets 94

^{12}C Zr

54 (129.3)	Gazdzicki 96

^{12}C Ag

2.329 (111.9)	Chen 94B
53.83 (145.8)	Fedorets 94

^{12}C Ta

50.4 (214.3)	Belaga 95G
	Bekmirzaev 94B
	Bondarenko 94

^{12}C ^{197}Au

17.52 (204.4)	Averbeck 97

^{12}C Pb

53.22 (241.6)	Adyasevich 94
	Adyasevich 94B
53.83 (242.1)	Baldin 95
54 (242.2)	Elnaghy 94

^{17}C C

27.01 (32.82)	Baumann 98B

^{19}C C

30.2 (34.97)	Baumann 98B

^{19}C Ta

4.993 (186.9)	Marques 96

Nit Fe

$> 1.4 \cdot 10^4$ ($>$ 1208)	Apanasenko 97

Nit Pb

$> 1.4 \cdot 10^4$ ($>$ 2333)	Apanasenko 97

^{14}Nit nucleus

35	Bondarenko 98
40.6	Belaga 95D
	Belaga 95F

^{14}Nit Cu

2.851 (72.49)	Sosin 94

^{14}Nit Ag

2.851 (113.8)	Sosin 94

^{14}Nit ^{159}Tb

2.851 (161.4)	Sosin 94

^{14}Nit ^{197}Au

6.203 (198.7)	Lou 96
7.126 (199.1)	Lou 96
7.857 (199.4)	Lou 96

^{17}Nit Be

23.8 (28.31)	Ozawa 94

^{17}Nit C

22.98 (31.63)	Ozawa 94
23.6 (31.81)	Ozawa 94

^{17}Nit Al

23.39 (47.99)	Ozawa 94

^{21}Nit Ta

5.826 (188.9)	Marques 96

O p

50 (17.91)	Gaitinov 94

O nucleus

66.04 – 72.59	Okonov 94

O Ne

72 (57.77)	Jipa 95

O Fe

$> 1.6 \cdot 10^4$ ($>$ 1291)	Apanasenko 97

O Cu

56.05 (102.9)	Butsev 97

O Kr

3.813 – 12.89 (93.37 – 96.91)	Jakobsson 98

O Au

3200 (1099)	Alber 97
	Awes 96
	Bachler 94C
	Fialkowski 94
	Wosiek 94

O Pb

72 (256.6)	Anikina 98
	Chkhaidze 95
	Jipa 95
$> 1.6 \cdot 10^4$ ($>$ 2493)	Apanasenko 97

^{16}O p

52 (18.01)	Gulamov 96
	Glagolev 95
	Glagolev 94

^{16}O nucleus

46.15	Ghosh 94D
	Ghosh 94E
	Ghosh 94F
72	Avetyan 96
	Chernov 95
	Chernov 95B
	Gulamov 95
	Sherif 95
	Yasinelbakry 95
72.59	Andreeva 95B
233.6	Adamovich 95H
960	Ghosh 98
	Ghosh 97D
	Ghosh 96B
	Mukhopadhyay 95
974.8	Ghosh 98B
	Elnadi 96
	Elnadi 96B
	Elnadi 95B
	Elnadi 94
3200	Elnadi 95C
	Mukhopadhyay 95
	Albrecht 94E
3215	Elnadi 97
	Elnadi 96
	Adamovich 95F
	Dabrowska 95B
	Elnadi 95

^{16}O C

71.77 (44.58)	Sampsonidis 95
	Sampsonidis 95B
3200 (268.2)	Awes 95
	Awes 95B

^{16}O Ne

72 (57.77)	Gazdzicki 96

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^{16}O Al
71.77 (67.37) Sampsonidis 95
Sampsonidis 95B
233.6 (112.3) Abbott 94B

^{16}O ^{27}Al
2.57 (40.19) Deyoung 96

^{16}O Cu
71.77 (111.4) Sampsonidis 95
Sampsonidis 95B
232 (176.8) Tannenbaum 94
233.6 (177.3) Abbott 95
Abbott 94B
3200 (618.5) Baglin 98
Abreu 97T
Awes 95
Awes 95B

^{16}O Ag
71.77 (158.3) Sampsonidis 95
Sampsonidis 95B
3200 (808.3) Awes 95
Awes 95B

^{16}O Wt
3200 (1061) Tserruya 95

^{16}O Au
3200 (1099) Awes 95
Awes 95B

^{16}O ^{197}Au
10.28 (202.2) Gaff 95

^{16}O Pb
71.77 (256.5) Sampsonidis 95
Sampsonidis 95B
3200 (1128) Abreu 97T

^{16}O U
3200 (1212) Abreu 97T

^{22}O Ta
6.657 (190) Marques 96

^{17}Fl Be
23.18 (28.15) Ozawa 94

^{17}Fl C
21.73 (31.26) Ozawa 94
22.77 (31.57) Ozawa 94

^{17}Fl Al
22.56 (47.62) Ozawa 94

^{19}Fl p
21.25 (19.13) Webber 98

^{24}Fl Ta
7.484 (192) Marques 96

^{17}Ne Be
22.78 (28.06) Ozawa 94

^{17}Ne C
21.1 (31.09) Ozawa 94
22.36 (31.46) Ozawa 94

^{17}Ne Al
22.78 (47.72) Ozawa 94

^{19}Ne p
0.1379 – 0.1744 (16.79 – 16.79)
Michotte 96

Ne p
82 (22.62) Ameeva 94

Ne nucleus
33.93 Muntz 97
Muntz 95
57.81 Weigang 98

Ne nucleus
82 Ameeva 94
82.68 – 90.87 Okonov 94

Ne Nit
6.211 – 9.795 (32.24 – 32.8)
Jakobsson 97
8.897 – 19.09 (32.64 – 34.96)
Jakobsson 97

Ne Fl
33.93 (45.16) Ahner 97
Elmer 96
41.54 (47.75) Gillitzer 96
45.89 (49.21) Gillitzer 96
50.19 (50.62) Gillitzer 96
54.44 (52) Gillitzer 96
55.71 (52.41) Ahner 97

Ne Na
33.93 (49.71) Ahner 97
Elmer 96
41.54 (52.56) Gillitzer 96
45.89 (54.17) Gillitzer 96
50.19 (55.72) Gillitzer 96
54.44 (57.24) Gillitzer 96
55.71 (57.69) Ahner 97

Ne Ar
6.211 – 9.795 (56.66 – 57.57)
Jakobsson 97
8.897 – 19.09 (57.31 – 61.09)
Jakobsson 97

Ne Xe
6.211 – 9.795 (142 – 143.2)
Jakobsson 97
8.897 – 19.09 (142.8 – 147.9)
Jakobsson 97

^{20}Ne p
13.54 (19.78) Dudkin 94
15.49 (19.83) Bogdanov 94

^{20}Ne nucleus
13.54 Dudkin 94
15.49 Bogdanov 94

^{20}Ne C
13.54 (31.43) Dudkin 94

^{20}Ne Nit
13.54 (33.44) Dudkin 94

^{20}Ne O
13.54 (35.43) Dudkin 94

^{20}Ne Fl
54.11 (51.83) Schroeter 94

^{20}Ne Na
54.11 (57.05) Schroeter 94

^{20}Ne ^{27}Al
6.496 (44.41) Llope 95
7.625 (44.63) Llope 95
9.539 (45.08) Llope 95
10.39 (45.3) Llope 95

^{20}Ne Cu
53.48 (102.7) Schroeter 94

^{20}Ne Br
13.54 (96.52) Dudkin 94

^{20}Ne Ag
13.54 (122.8) Dudkin 94

^{20}Ne Sn
44.7 (152.6) Schroeter 94
49.01 (155.4) Schroeter 94
53.27 (158.3) Schroeter 94

^{20}Ne ^{197}Au
49.22 (231.8) Aumann 94

^{20}Ne Bi
52.84 (245.1) Schroeter 94

^{21}Ne p
23.38 (20.99) Webber 98

^{22}Ne p
18.98 – 34.54 (21.75 – 22.28)
Chen 94

^{22}Ne nucleus
90.2 Bondarenko 98
Belaga 95D
Belaga 95F
Boos 95
Elnaghy 95
Elnaghy 94
Zhumanov 94
90.81 Andreeva 95B
99 Gulamov 95

^{22}Na p
24.25 (21.91) Webber 98

^{23}Na p
25.51 (22.86) Webber 98

Na C
36.49 (39.11) Suzuki 95

^{24}Mg p
26.37 (23.78) Webber 98

^{24}Mg nucleus
108 Bondarenko 98
Ghosh 97
Belaga 95D
Elnadi 95E
Jilany 95
Elnaghy 94
Ghosh 94B
Ghosh 94D

^{24}Mg C
107.7 (55.55) Sampsonidis 95

^{24}Mg ^{24}Mg
108 (77.01) Kulakov 97

^{24}Mg Al
107.7 (81.6) Sampsonidis 95

^{24}Mg Cu
107.7 (130.5) Sampsonidis 95

^{24}Mg Ag
107.7 (180.8) Sampsonidis 95

^{24}Mg Pb
107.7 (283.2) Sampsonidis 95
108 (283.4) Elnaghy 94

Mg p
108 (26.84) Ameeva 94

Mg nucleus
99.29 – 109.1 Okonov 94
108 Ameeva 94

Mg Mg
103.2 (76.22) Anikina 98B
Chkhaidze 98
Chkhaidze 96
105.6 (76.91) Anikina 95
Anikina 95B
108 (77.6) Anikina 98
Chkhaidze 95

Mg Pb
$> 1.2 \cdot 10^5$ (> 6809)
Apanasenko 94

^{25}Mg p
27.64 (24.73) Webber 98

^{26}Mg p
22.43 – 40.82 (25.48 – 26.01)
Chen 94

^{26}Al p
28.5 (25.64) Webber 98

^{27}Al p
29.74 (26.58) Webber 98

Si p
126 (30.44) Ameeva 94

Si nucleus
126 Ameeva 94

Si Al
324.8 (133) Gazdzicki 96
408.8 (148) Kaufman 97
Stocker 95
Abbott 94
Ahle 94
Barrette 94
Gonin 94
Hamagaki 94
Hayano 94
Kaufman 94
Kaufman 94C
Lissauer 94C

Si Si
324.8 (135.7) Gazdzicki 96
408.8 (151) Stocker 95
Longacre 93

Si Cu
408.8 (229.5) Kaufman 97
Stocker 95
Abbott 94
Gonin 94
Hamagaki 94
Hayano 94

Si Pt
408.8 (427.3) Lowe 96
Saito 94

Si Au
406 (428.5) Kaufman 95
408.8 (429.7) Kaufman 97
Ogilvie 97
Stephans 97
Cianciolo 95
Stocker 95
Wang 95
Abbott 94
Ahle 94
Gonin 94
Hamagaki 94
Hayano 94
Kaufman 94
Kaufman 94C
Vossnack 94
Wang 94

Si Pb
408.8 (442.8) Longacre 95
Stocker 95
Barrette 94B
Barrette 94C
Eiseman 94
Hayano 94
Hemmick 94
Lissauer 94C
Xu 94
Longacre 93

^{28}Si p

30.66 (27.51)	Webber 98
127 (30.41)	Adamovich 95G
408.8 (38.08)	Adamovich 95G

^{28}Si nucleus

126	Bondarenko 98
	Singh 98B
	Belaga 95D
	Elnaghy 95
	Sherif 95
	Tariq 95
	Ahmad 94
	Elnaghy 94
	Jilany 94
	Singh 94C
	Tariq 94
127	Adamovich 95G
	Andreeva 95B
406	Elnadi 98B
	Mukhopadhyay 95
408.8	Adamovich 95G
	Adamovich 95H
	Tretyakova 94
408.9	Andreeva 95B
431.3	Jain 95
	Jain 94B
	Singh 94B

^{28}Si Al

403.2 (147)	Barrette 95
408.8 (148)	Barrette 95C
	Barrette 95F
	Fatyga 94
	Lissauer 94B
	Ludlam 94
	Sonnadara 94

^{28}Si Cu

403.2 (228.1)	Barrette 95
408.8 (229.5)	Barrette 95C
	Barrette 95F
	Fatyga 94
	Lissauer 94B

^{28}Si ^{112}Sn

6.673 (131.1)	Laforest 99
7.725 (131.3)	Laforest 99
8.66 (131.5)	Laforest 99

^{28}Si Sn

403.2 (319.8)	Barrette 95
408.8 (321.7)	Barrette 95C
	Barrette 95F
	Sonnadara 94

^{28}Si ^{124}Sn

6.673 (142.3)	Laforest 99
7.725 (142.5)	Laforest 99
8.66 (142.7)	Laforest 99

^{28}Si ^{196}Au

408.8 (428.5)	Akiba 96

^{28}Si Au

408.8 (429.7)	Kaufman 97B

^{28}Si Pb

403.2 (440.3)	Barrette 95
408.8 (442.8)	David 97
	Barrette 95C
	Barrette 95F
	Barrette 95G
	Eiseman 95B
	Fatyga 94
	Lissauer 94B
	Ludlam 94
	Sonnadara 94

^{29}Si p

31.14 (28.4)	Webber 98

^{30}Ph p

32.65 (29.37)	Webber 98

^{31}Ph p

33.22 (30.26)	Webber 98

S S

6400 (619.7)	Boggild 99
	Baglin 98C
	Bearden 98B
	Bearden 98C
	Alber 97
	Andrighetto 97
	Kaimi 97
	Seyboth 97
	Venables 97
	Bearden 96B
	Boggild 96
	Gazdzicki 96
	Abatzis 95
	Abatzis 95C
	Albrecht 95F
	Alvarezdelar 95
	Andersen 95
	Boggild 95C
	Boggild 95D
	Gunther 95
	Panagiotou 95
	Abatzis 94C
	Albrecht 94C
	Albrecht 94H
	Bachler 94
	Bachler 94C
	Boggild 94
	Fialkowski 94
	Gazdzcki 94
	Roland 94
	Sollfrank 94
	Viyogi 94
	Wosiek 94
6430 (621.1)	Baillie 97
	Alber 95

S Cu

6400 (873)	Panagiotou 95

S Ag

6400 (1139)	Alber 97
	Kaimi 97
	Seyboth 97
	Ferenc 96
	Gazdzicki 96
	Gunther 95
	Panagiotou 95
	Gazdzcki 94
	Roland 94
6430 (1142)	Panagiotou 97
	Alber 95

S Wt

6400 (1491)	Angelis 98
	Abatzis 97
	Angelis 97
	Antinori 97
	Seyboth 97
	Abatzis 96
	Delosheros 96
	Abatzis 95D
	Abatzis 95E
	Gerschel 95
	Masera 95
	Abatzis 94
	Abatzis 94B
	Appelquist 94
	Borer 94

S Pt

6400 (1536)	Tserruya 95
	Baur 94B
	Baur 93

S Au

6400 (1544)	Aggarwal 97B
	Mitchell 94
	Aggarwal 98F
	Alber 97
	Baur 97
	Kampert 97
	Retyk 97
	Seyboth 97
	Awes 96
	Delosheros 96
	Agakichiev 95
	Aggarwal 95
	Albrecht 95F
	Baur 95
	Ceretto 95
	Gunther 95
	Panagiotou 95
	Slegt 95
	Tserruya 95
	Albrecht 94C
	Albrecht 94E
	Albrecht 94H
	Bachler 94B
	Bachler 94C
	Fialkowski 94
	Gazdzcki 94
	Roland 94
	Viyogi 94
	Wosiek 94
	Baur 93
6430 (1547)	Alber 95

S Pb

6400 (1584)	Boggild 99
	Bearden 98B
	Bearden 98C
	Boggild 98
	Schmidtsoren 98
	Kaimi 97
	Bearden 96C
	Boggild 96
	Alvarezdelar 95
	Andersen 95
	Boggild 95
	Boggild 95C
	Boggild 95D
	Boggild 94
6430 (1588)	Boggild 95B

S U

6400 (1699)	Lourenco 95
	Abreu 98R
	Abreu 98U
	Baglin 98B
	Baglin 98C
	Abreu 96ZE
	Abreu 96ZF
	Gerschel 95
	Tserruya 95
	Lourenco 94
	Lourenco 93

^{32}S p

27.6 – 50.24 (31.07 – 31.61)	
	Chen 94
34.83 (31.23)	Webber 98
35.2 (31.24)	Webber 98
6400 (113.6)	Adamovich 95G

^{32}S nucleus

144	Elnadi 98B
	Elnadi 97B
145.2	Elnadi 95D
6400	Ghosh 98
	Elnadi 97B
	Ghosh 97B
	Ghosh 97C
	Ghosh 96
	Kamel 96
	Adamovich 95G
	Andreeva 95B
	Ghosh 95
	Mukhopadhyay 95
6430	Adamovich 95F
	Dabrowska 95B
	Singh 94B

^{32}S C

143.6 (65.53)	Sampsonidis 95
	Sampsonidis 95B

^{32}S Al

143.6 (94.29)	Sampsonidis 95
	Sampsonidis 95B
6400 (568.5)	Awes 95
	Awes 95B

^{32}S S

6400 (619.7)	Alber 96
	Alber 95C
	Foka 95
	Alber 94
	Andersen 94C
	Kampert 94
	Panagiotou 94

^{32}S Cu

143.6 (147.5)	Sampsonidis 95
	Sampsonidis 95B
6400 (873)	Alber 95C

^{32}S ^{96}Mo

3.281 (119.4)	Herrick 95

^{32}S ^{100}Mo

3.281 (123.1)	Herrick 95

^{32}S ^{110}Pd

2.479 – 2.779 (132.2 – 132.3)	
	Stefanini 95

^{32}S Ag

143.6 (201.1)	Sampsonidis 95
	Sampsonidis 95B
6400 (1139)	Alber 96
	Alber 95C
	Aoki 95
	Alber 94
	Panagiotou 94

^{32}S Wt

6400 (1491)	Abatzis 95B
	Aoki 95
	Tserruya 95
	Mazzoni 94
	Kinson 91

^{32}S ^{184}Wt

3.141 – 3.923 (201.3 – 201.4)	
	Back 99

^{32}S Pt

6400 (1536)	Tserruya 95

^{32}S Au

6400 (1544)	Albrecht 98
	Alber 96
	Albrecht 96
	Alber 95C
	Albrecht 95I
	Awes 95
	Awes 95B
	Baglin 95
	Alber 94
	Albrecht 94D
	Irmscher 94
	Kampert 94
	Panagiotou 94
6430 (1547)	Aggarwal 97
	Aggarwal 97C

^{32}S Pb

143.6 (307.8)	Sampsonidis 95
	Sampsonidis 95B
6400 (1584)	Abreu 97T
	Andersen 94
	Andersen 94C
	Beker 94B
	Beker 94C
	Boggild 94B
	Hafidouni 94
	Beker 93

^{32}S U

6400 (1699)	Abreu 98G
	Baglin 98

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

^{32}S U

Abreu 97T
Baglin 95
Baglin 95B
Baglin 94

^{33}S p

35.4 (32.12) Webber 98

^{36}S ^{110}Pd

2.673 – 3.034 (135.9 – 136) Stefanini 95

^{34}Cl p

36.11 (33.04) Webber 98

^{37}Cl p

40.12 (35.89) Webber 98

^{36}Ar p

31.05 – 56.52 (34.8 – 35.33) Chen 94
32.26 (34.82) Knott 97
39.03 (34.95) Webber 98
41.28 (35) Knott 97
51.9 (35.23) Knott 97

^{36}Ar ^{12}C

15.27 (45.53) Legrain 97
Lecolley 95

^{36}Ar ^{27}Al

11.69 (59.52) Angelique 97
Buta 97C
11.69 – 15.53 (59.52 – 60.13) Buta 95
12.94 (59.7) Angelique 97
Buta 97C
14.1 (59.89) Angelique 97
14.74 (59.99) Angelique 97
15.53 (60.13) Badala 98
Angelique 97
Badala 97
Badala 97B
Buta 97C
Badala 96
Badala 96B
Badala 96C
Badala 95

^{36}Ar Ti

15.27 (80.02) Legrain 97
Lecolley 95

^{36}Ar ^{58}Ni

11.36 (88.7) Borderie 96
Rivet 96
13.63 (89.19) Borderie 96
Rivet 96
14.56 (89.4) Borderie 96
Rivet 96
15.53 (89.64) Badala 96
Badala 96B
Badala 96C
Borderie 96
Rivet 96

^{36}Ar ^{112}Sn

15.53 (140.4) Badala 97B
Badala 96
Badala 96B
Badala 96C

^{36}Ar ^{181}Ta

15.27 (204.9) Legrain 97
Lecolley 95
15.44 (204.9) Germain 97

^{36}Ar ^{197}Au

15.53 (220.7) Badala 97B
Badala 96
Badala 96B
Badala 96C
Holzmann 96

^{38}Ar p

41.66 (36.83) Webber 98

Ar nucleus

75.32 Weigang 98

Ar C

94.5 (61.5) Brady 94

Ar Ca

66.51 (92.03) Berg 94
Schwalb 94
88.18 (99.63) Berg 94

Ar Au

13.4 (222.6) Lecolley 97

^{40}Ar p

30.35 (38.46) Bogdanov 94
Dudkin 94
34.5 – 62.8 (38.53 – 39.07) Chen 94
35.32 (38.54) Knott 97

^{40}Ar nucleus

30.35 Bogdanov 94
Dudkin 94

^{40}Ar C

30.35 (50.88) Dudkin 94

^{40}Ar Nit

30.35 (53.03) Dudkin 94

^{40}Ar O

30.35 (55.16) Dudkin 94

^{40}Ar Ca

7.762 – 12.37 (74.99 – 75.59) Holzmann 97

^{40}Ar ^{45}Sc

1.615 – 2.93 (79.18 – 79.22) Pak 96
6.714 (79.48) Llope 95
10.31 (79.9) Llope 95
15.25 (80.73) Llope 95
17.25 (81.15) Llope 95
19.08 (81.56) Llope 95

^{40}Ar ^{51}Va

11.59 (85.75) Sapienza 98

^{40}Ar Br

30.35 (118.7) Dudkin 94

^{40}Ar ^{98}Mo

10.61 (129.6) Sapienza 98

^{40}Ar Ag

7.151 (138.2) Gelderloos 96
30.35 (145.4) Dudkin 94

^{40}Ar ^{197}Au

8.69 (222.4) He 97

Ca Ca

67.73 (92.53) Porter 98
Porter 97

^{40}Ca p

34.5 – 62.8 (38.53 – 39.07) Chen 94
35.55 (38.55) Chen 97
35.61 (38.55) Tuve 99
Tuve 97
46.85 (38.75) Tuve 99
Chen 97
Tuve 97
56.62 (38.94) Chen 97

^{40}Ca Ca

7.762 – 12.37 (74.99 – 75.59) Holzmann 97

^{40}Ca ^{40}Ca

10.31 (75.22) Pawlowski 97

^{42}Ca p

49.78 (40.62) Webber 98

^{44}Ca p

52.21 (42.49) Webber 98

^{44}Sc p

51.98 (42.48) Webber 98

^{46}Sc p

54.41 (44.35) Webber 98

^{46}Ti p

54.17 (44.35) Webber 98

^{46}Ti nucleus

63.95 Brohm 95

^{47}Ti nucleus

62.91 Brohm 95

^{48}Ti p

56.59 (46.21) Webber 98

^{48}Va p

56.34 (46.21) Webber 98

^{48}Va nucleus

57.38 Brohm 95
66.33 Brohm 95

^{49}Va nucleus

56.58 Brohm 95
65.33 Brohm 95

^{50}Va p

58 (48) Webber 98

^{50}Va nucleus

56.48 Brohm 95

Va C

50.71 (62.7) Blank 95B

Va Al

50.71 (79.84) Blank 95B

Va Pb

50.71 (257.5) Blank 95B

^{51}Va nucleus

57.77 Brohm 95

^{49}Cr nucleus

61.19 Brohm 95

^{50}Cr p

57.75 (47.99) Webber 98

^{50}Cr nucleus

58.87 Brohm 95
67.93 Brohm 95

^{51}Cr nucleus

59.6 Brohm 95
68.74 Brohm 95

^{52}Cr p

44.33 – 80.56 (49.64 – 50.17) Chen 94
60.15 (49.85) Webber 98

^{52}Cr nucleus

58.77 Brohm 95

Cr C

52.34 (63.77) Blank 95B

Cr Al

52.34 (81.01) Blank 95B

Cr Pb

52.34 (259.1) Blank 95B

^{53}Cr nucleus

58.63 Brohm 95

^{50}Mn nucleus

64.22 Brohm 95

^{51}Mn nucleus

64.22 Brohm 95

^{52}Mn p

59.9 (49.88) Webber 98

^{52}Mn nucleus

61.34 Brohm 95
70.02 Brohm 95

^{53}Mn nucleus

61.05 Brohm 95
70.29 Brohm 95

^{54}Mn nucleus

61.58 Brohm 95
71.01 Brohm 95

Mn nucleus

60.52 Blank 95

Mn C

54.74 (66.49) Blank 95B

Mn Al

54.74 (83.77) Blank 95B

Mn Pb

54.74 (262.3) Blank 95B

^{55}Mn p

63.54 (52.68) Webber 98

^{55}Mn nucleus

60.81 Brohm 95

^{56}Mn nucleus

61.39 Brohm 95

^{51}Fe nucleus

66.14 Brohm 95

^{52}Fe nucleus

67.04 Brohm 95

^{53}Fe nucleus

67.1 Brohm 95

^{54}Fe p

62.69 (51.79) Webber 98

^{54}Fe nucleus

64.42 Brohm 95
73.51 Brohm 95

^{55}Fe nucleus

63.24 Brohm 95
72.58 Brohm 95

^{56}Fe p

59.39 (53.58) Bogdanov 94
Dudkin 94
66.16 (53.67) Webber 98
97.94 (54.13) Zeitlin 97
140 (54.79) Ameeva 94

^{56}Fe nucleus

59.39 Bogdanov 94
Dudkin 94
63.65 Brohm 95
73.43 Brohm 95

^{56}Fe nucleus
137.8 Jain 94B
140 Bondarenko 98
Belaga 95D
Belaga 95F
Ameeva 94

^{56}Fe C
59.39 (67.93) Dudkin 94
97.94 (73) Zeitlin 97

^{56}Fe Nit
59.39 (70.38) Dudkin 94

^{56}Fe O
59.39 (72.8) Dudkin 94

^{56}Fe Al
97.94 (94.5) Zeitlin 97

^{56}Fe Cu
97.94 (139.2) Zeitlin 97

^{56}Fe Br
59.39 (141.5) Dudkin 94

^{56}Fe Ag
59.39 (169.4) Dudkin 94

^{56}Fe Ta
2.8 (220.8) Sangster 95
5.6 (220.9) Sangster 95

^{56}Fe Au
2.8 (235.7) Sangster 95
5.6 (235.9) Sangster 95

^{56}Fe Pb
97.94 (287.8) Zeitlin 97

^{56}Fe Th
2.8 (268.4) Sangster 95
5.6 (268.5) Sangster 95

Fe nucleus
61.59 Blank 95

Fe C
55.71 (67.36) Blank 95B

Fe Al
55.71 (84.67) Blank 95B

Fe Pb
55.71 (263.4) Blank 95B

^{57}Fe nucleus
63.6 Brohm 95

^{58}Fe nucleus
62.73 Brohm 95

^{54}Co nucleus
68.44 Brohm 95

^{55}Co nucleus
69.2 Brohm 95

^{57}Co nucleus
66.25 Brohm 95
75.79 Brohm 95

^{58}Co nucleus
65.69 Brohm 95
75.84 Brohm 95

Co C
58.76 (70.27) Blank 95B

Co Al
58.76 (87.68) Blank 95B

Co Pb
58.76 (267) Blank 95B

^{59}Co nucleus
65.52 Brohm 95

^{60}Co nucleus
65.46 Brohm 95
82.04 Brohm 95

^{56}Ni nucleus
71.36 Brohm 95

^{58}Ni p
50.03 – 91.06 (55.3 – 55.84)
Chen 94

^{58}Ni Be
74.13 (67.3) Blank 94

^{58}Ni ^{58}Ni
29.34 (111.7) Andronic 97
64.45 (122.2) Andronic 97
98.04 (133.9) Andronic 97
Buta 95B
102.1 (135.3) Buta 98
Hong 97
Legrand 97
127.1 (144.1) Buta 98
Hong 97
Legrand 97
156.9 (154.2) Buta 98
Hong 97
Legrand 97

^{58}Ni Ni
84.66 (130) Muntz 97
98.14 (134.8) Muntz 97
140.3 (149.5) Schroeter 94
148.9 (152.4) Muntz 97
152 (153.5) Schroeter 94

Ni C
58.67 (70.08) Blank 95B

Ni Al
58.67 (87.49) Blank 95B

Ni Ni
85.02 (130.5) Barth 97
98.53 (135.3) Barth 97
Buta 96
Elmer 96
102.5 (136.7) Andronic 98
Buta 96
112.9 (140.4) Gillitzer 96
119.3 (142.6) Gillitzer 96
127.6 (145.5) Andronic 98
Buta 96
135.1 (148.1) Gillitzer 96
149.4 (152.9) Barth 97
152.5 (153.9) Gillitzer 96
157.4 (155.6) Andronic 98
Buta 97
Buta 96

Ni Cu
98.53 (140.8) Hauger 96
130.7 (152.5) Hauger 96
159.9 (162.8) Hauger 96
161.7 (163.4) Justice 97
Justice 95

Ni Au
55.46 – 143.2 (255.4 – 304.8)
Hauger 96

Ni Pb
58.67 (266.8) Blank 95B

^{59}Ni nucleus
67.6 Brohm 95
77.28 Brohm 95

^{60}Ni nucleus
67.96 Brohm 95
78.24 Brohm 95

^{61}Ni nucleus
67.5 Brohm 95

^{62}Ni nucleus
67.47 Brohm 95
84.48 Brohm 95

^{63}Ni nucleus
84.92 Brohm 95

^{61}Cu nucleus
80.44 Brohm 95

^{62}Cu nucleus
79.75 Brohm 95

^{65}Cu nucleus
87.3 Brohm 95

^{63}Zn nucleus
82.77 Brohm 95

^{64}Zn nucleus
82.04 Brohm 95

^{64}Zn ^{48}Ti
16.35 – 24.85 (105.2 – 106.4)
Buta 95

^{64}Zn ^{58}Ni
16.35 – 24.85 (114.6 – 115.9)
Buta 95
19.42 (115) Buta 97C
23.16 (115.6) Buta 97C
24.85 (115.9) Buta 97C

^{67}Zn nucleus
88.52 Brohm 95

^{68}Zn nucleus
89.12 Brohm 95

^{69}Ga nucleus
90.61 Brohm 95

^{70}Ga nucleus
91.34 Brohm 95

^{72}Ge nucleus
94.33 Brohm 95

^{73}Ge nucleus
94.23 Brohm 95

^{71}As e^-
0. (66.14) Hampel 98

^{74}As nucleus
95.62 Brohm 95

^{75}As nucleus
97.52 Brohm 95

^{76}Se nucleus
98.63 Brohm 95

^{77}Se nucleus
98.88 Brohm 95

^{78}Kr ^{58}Ni
29.52 (129) Pfaff 96

^{84}Kr p
85.7 – 188.7 (79.63 – 80.66)
Nilsen 95

^{84}Kr nucleus
130.2 Adamovich 97E
190.5 Jain 94B

^{84}Kr C
85.7 – 188.7 (94.04 – 104)
Nilsen 95

^{84}Kr Al
85.7 – 188.7 (112.2 – 130.5)
Nilsen 95

^{84}Kr ^{59}Co
53.96 (140) Donzaud 95

^{84}Kr Cu
85.7 – 188.7 (152.9 – 183.9)
Nilsen 95

^{84}Kr ^{93}Nb
21.65 (166.7) Llope 95
27.28 (167.6) Llope 95
32.03 (168.5) Llope 95

^{84}Kr Sn
85.7 – 188.7 (209.8 – 252)
Nilsen 95

^{84}Kr ^{197}Au
21.65 (264.6) Tsang 97
Peaslee 94
27.28 (265.8) Tsang 97
Peaslee 94
30.9 (266.7) Tsang 97
Cornell 96
Peaslee 94
37.22 (268.4) Tsang 97
Peaslee 94
46.16 (271.3) Quednau 96
53.96 (274.1) Tsang 97
Donzaud 95
Peaslee 94
79.92 (285.2) Tsang 97
Peaslee 94

^{84}Kr Pb
85.7 – 188.7 (296.9 – 349.6)
Nilsen 95

^{84}Kr U
46.16 (309.1) Quednau 96

Kr p
87.25 – 184.2 (79.46 – 80.43)
Nilsen 94

Kr nucleus
87.25 – 184.2 Nilsen 94
116.2 Ghosh 94B

Kr C
87.25 – 184.2 (94.01 – 103.4)
Nilsen 94

Kr Al
87.25 – 184.2 (112.3 – 129.5)
Nilsen 94

Kr Cu
87.25 – 184.2 (153.2 – 182.4)
Nilsen 94

Kr Zr
140.9 (201.7) Schwalb 94

Kr Sn
87.25 – 184.2 (210.2 – 250.1)
Nilsen 94

Kr Au
21.49 (263.6) Williams 97
27.08 (264.7) Williams 97
30.67 (265.6) Williams 97
36.94 (267.3) Williams 97
53.55 (272.9) Williams 97
79.28 (283.9) Williams 97

Kr Pb
87.25 – 184.2 (297.6 – 347.2)
Nilsen 94

^{86}Kr ^{9}Be
93.48 (92.48) Weber 94

^{86}Kr Ni
29.21 (136.9) Schutz 98
Schutz 97

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

^{86}Kr Cu
93.48 (156.5) Weber 94

^{86}Kr Zr
145.5 (204.6) Berg 94

^{86}Kr ^{93}Nb
26.6 (169.3) Popescu 98

^{86}Kr Ta
93.48 (276.3) Weber 94

^{86}Kr ^{197}Au
145.5 (318.8) Aumann 94

Nb C
222.1 (113.8) Brady 94

Nb Al
70.41 (117.2) Heilbronn 98

Nb Nb
70.41 (185.2) Heilbronn 98
87.89 (190.6) Htun 98
Elaasar 94
92.35 (192.1) Heilbronn 98

Ru Ru
96.12 (207.5) Buta 98B

Ag *p*
109.5 – 240.9 (101.9 – 102.9)
Nilsen 95
Nilsen 94

Ag nucleus
109.5 – 240.9 Nilsen 94

Ag Li
109.5 – 240.9 (109.8 – 116.2)
Nilsen 95
Nilsen 94

Ag C
109.5 – 240.9 (116.4 – 126.7)
Nilsen 95
Nilsen 94

Ag Al
109.5 – 240.9 (134.9 – 154.4)
Nilsen 95
Nilsen 94

Ag Cu
109.5 – 240.9 (176.6 – 210.9)
Nilsen 95
Nilsen 94

Ag Sn
109.5 – 240.9 (234.9 – 282.9)
Nilsen 95
Nilsen 94

Ag Pb
109.5 – 240.9 (323.6 – 384.8)
Nilsen 95
Nilsen 94

^{112}Sn ^{112}Sn
30.9 (210.9) Kunde 97

^{124}Sn ^{124}Sn
34.21 (233.5) Kunde 97

^{129}Xe Be
156.8 (133.5) Schuttauf 96

^{129}Xe C
156.8 (137.8) Schuttauf 96

^{129}Xe Al
156.8 (158.1) Schuttauf 96

^{129}Xe ^{27}Al
186.8 (162) Reinhold 98
Summerer 95

^{129}Xe Cu
37.8 (181.3) Bruno 94
156.8 (203.3) Schuttauf 96

^{129}Xe In
156.8 (261) Schuttauf 96

^{129}Xe Sn
31.77 (232.7) Rivet 98
39.9 (233.8) Marie 98

^{129}Xe ^{139}La
28.03 (251.3) Llope 95
33.25 (252) Llope 95
37.8 (252.7) Llope 95
41.9 (253.3) Llope 95

^{129}Xe Au
156.8 (347.3) Schuttauf 96

^{129}Xe U
156.8 (388.9) Schuttauf 96

Xe I
124.8 (265) Buta 98B

Xe Cs
124.8 (271.2) Buta 98B

^{132}Xe *p*
222.1 (124.8) Basova 95B

^{132}Xe nucleus
222.1 Basova 95
Basova 95B

^{132}Xe ^{51}Va
38.07 (172) Sapienza 98

^{136}Xe strangelet
10.69 Perilloisaac 98

^{139}La ^{12}C
198.8 (149) Hashimoto 94

^{139}La ^{139}La
198.8 (308.2) Hashimoto 94

La C
265.1 (153.2) Brady 94

La La
100.6 (275.5) Htun 98
131.6 (285) Htun 98
194.8 (306.6) Dardenne 94

Gd ^{238}U
44.03 (382.5) Rivet 98

^{181}Ta ^{197}Au
49.94 (356.7) Schutz 98
Schutz 97

Au *p*
299.1 – 333.3 (185.3 – 185.4)
Rusch 94
2264 (194.7) Stocker 95
Waddington 94

Au nucleus
2264 Dabrowska 97
Cherry 95
Stocker 95
Cherry 94
Cherry 94B
Nilsen 94
Waddington 94
2284 Andreeva 98
Andreeva 97B
2285 Adamovich 95D

Au nucleus
Adamovich 95E
Adamovich 95F
Adamovich 95I
Adamovich 94C
Adamovich 94E

Au C
299.1 – 333.3 (204.1 – 205.7)
Rusch 94
333.3 (205.7) Hauger 98
Lauret 98
Elliott 96
Brady 94
Gilkes 94
2264 (290.9) Stocker 95
Nilsen 94
Waddington 94

Au Al
2128 (376.3) Bennett 98
Beavis 97
Barrette 95B
Voloshin 95
2167 (379) Beavis 95
2264 (385.3) Nilsen 94

Au Cu
2128 (538.5) Bennett 98
Beavis 97
Barrette 95B
Voloshin 95
2167 (542.8) Beavis 95
2264 (553.3) Stocker 95
Nilsen 94
Waddington 94

Au Ag
2285 (710.3) Stocker 95
Adamovich 94
Adamovich 94B

Au Sn
2264 (740.4) Nilsen 94

Au Pt
2128 (918.1) Lowe 96
Rusek 95
2266 (944.9) Saito 94

Au Au
42.79 (369.4) Petrovici 95
60.92 (371.8) Lynen 98
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Buta 98B
87.27 (376.7) Lynen 98
Kotte 95
Kunde 95
Poggi 95
Zhang 95C
87.27 – 187.4 (376.7 – 404.4)
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87.27 – 287.5 (376.7 – 438.7)
Crochet 97C
Bastid 96
108.2 (381.4) Lynen 98
Buta 97B
Buta 96
Dzelalija 95
Kotte 95
Poggi 95
126.5 (386.1) Lynen 98
143.2 (390.8) Buta 96
Kotte 95
Petrovici 95
Poggi 95
Zhang 95C
143.2 – 366.7 (390.8 – 466.7)
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Partlan 95
187.4 (404.4) Buta 96
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Pochodzalla 95

Au Au
251.8 (426.2) Zhang 95C
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333.3 (454.9) Lynen 98
Shin 98
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547.5 (528.4) Ajitanand 98
Back 98
Back 98B
Ogilvie 98
954 (651) Ajitanand 98
Back 98
Back 98B
Ogilvie 98
1353 (753.9) Ajitanand 98
Back 98
Back 98B
Liu 98
Ogilvie 98
1750 (844.4) Ajitanand 98
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Back 98B
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Barrette 95B
Barrette 95E
Beavis 95B
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Voloshin 95
Zhang 95B
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Hayano 94
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Au Pb

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Au U

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^{197}Au p

2157 (195) Hirzebruch 95
2276 (195.6) Geer 95

^{197}Au nucleus

2276 Singh 97
Cherry 96
Jain 96
Singh 96
Geer 95
Jain 95
Mukhopadhyay 95
Jain 94
Jain 94B
Singh 94
Singh 94B
2296 Andreeva 97
2297 Andreeva 98B
Adamovich 95H

^{197}Au Be

188.3 (196.2) Schuttauf 96
240.6 (197.8) Schuttauf 96
289 (199.5) Schuttauf 96
335 (201.2) Schuttauf 96

^{197}Au C

188.3 (200) Schuttauf 96
240.6 (202.2) Begemannblai 98
Schuttauf 96
Botvina 95
289 (204.4) Schuttauf 96
335 (206.5) Hauger 96C
Schuttauf 96
2157 (287.3) Hirzebruch 95
2276 (291.9) Geer 95
2435 (297.9) He 94

^{197}Au ^{12}C

289 (204.4) Averbeck 97

^{197}Au Al

188.3 (218.8) Schuttauf 96
240.6 (223.3) Schuttauf 96
Botvina 95
289 (227.7) Schuttauf 96
335 (232) Schuttauf 96
2157 (378.7) Hirzebruch 95
2276 (386.5) Geer 95
2435 (396.7) He 94

^{197}Au Fe

2435 (539.2) He 94

^{197}Au Cu

188.3 (262.1) Schuttauf 96
240.6 (270.9) Begemannblai 98
Schuttauf 96
Botvina 95
289 (279.4) Schuttauf 96
335 (287.7) Schuttauf 96
2157 (542) Hirzebruch 95
2276 (554.8) Geer 95
2435 (571.4) He 94

^{197}Au Ag

2157 (692.1) Hirzebruch 95

^{197}Au In

188.3 (319) Schuttauf 96
240.6 (332.1) Schuttauf 96
289 (344.6) Schuttauf 96
335 (356.7) Schuttauf 96

^{197}Au Sn

2276 (742.3) Geer 95
2435 (765.6) He 94

^{197}Au Au

188.3 (405.4) Schuttauf 96
240.6 (422.9) Schuttauf 96
289 (439.8) Schuttauf 96
335 (456) Schuttauf 96

^{197}Au ^{197}Au

12.15 (368.9) Ramillien 95
108.8 (383.2) Reisdorf 97
143.9 (392.6) Reisdorf 97
188.3 (406.4) Reisdorf 97
Lambrecht 94
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Lambrecht 94
289 (440.8) Wolf 98
Lambrecht 94
335 (457.1) Muntz 97
Xi 97
Aumann 94
Berg 94
368.5 (468.9) Hauger 97
2138 (927) Barrette 97B
David 97B

^{197}Au Pb

240.6 (433.9) Begemannblai 98
Botvina 95
2157 (952.2) Hirzebruch 95
2170 (955) He 97B
2276 (976) Geer 95
2435 (1007) He 94

Pb nucleus

$3.29 \cdot 10^4$ Dabrowska 98

Pb Ni

$3.271 \cdot 10^4$ (1902)
Angelis 96

Pb Nb

$3.271 \cdot 10^4$ (2389)
Angelis 96

Pb Au

48.51 (379.4) Lecolley 96
$3.271 \cdot 10^4$ (3475)
Agakichiev 98
Agakichiev 98B
Agakichiev 97
$3.312 \cdot 10^4$ (3496)
Agakichiev 96

Pb Pb

$3.264 \cdot 10^4$ (3560)
Appelquist 95
$3.271 \cdot 10^4$ (3564)
Bormann 97
Friese 97
Holme 97
Kabana 97
Kaneta 97
Odyniec 97
Abreu 99F
Abreu 98U
Andersen 98
Appelshauser 98B
Baglin 98B
Bearden 98
Bearden 98C

Pb Pb

Abreu 97S
Abreu 97T
Adamovich 97D
Ambrosini 97
Appelshauser 97
Baillie 97
Angelis 96
Appelquist 96
Appelquist 96B
Baglin 96
Baglin 96B
Baglin 96C
Bearden 96
Bearden 96B
Bearden 96C
Boggild 96
Deinesjones 96
Ferenc 96
$3.29 \cdot 10^4$ (3574)
Aggarwal 98C
Aggarwal 98D
Aggarwal 98E
Ambrosini 98C
Bearden 98D
Panafiotou 98
Panafiotou 98B
Panafiotou 98C
Panagiotou 98
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Vassiliadis 98B
Seyboth 97
Bearden 96D
Panafiotou 96
Panagiotou 96
Panagiotou 96B
Rosselet 96
Vassiliadis 96
Adamovich 95E
Margetis 95
$3.312 \cdot 10^4$ (3586)
Boggild 95
Boggild 95C
$3.331 \cdot 10^4$ (3596)
Alber 95
Vassiliadis 95

^{208}Pb nucleus

$3.306 \cdot 10^4$ Singh 97
$3.347 \cdot 10^4$ Singh 96

^{208}Pb C

$3.3 \cdot 10^4$ (880.9)
Datz 97

^{208}Pb Si

$3.3 \cdot 10^4$ (1328)
Datz 97

^{208}Pb Cu

351.9 (297.7) Dejong 98
Clerc 95
$3.3 \cdot 10^4$ (1987)
Datz 97

^{208}Pb Sn

$3.3 \cdot 10^4$ (2710)
Datz 97

^{208}Pb Au

49.57 (380.2) Schutz 98
Schutz 97

^{208}Pb Pb

$3.286 \cdot 10^4$ (3572)
Abreu 99G
Baglin 98
$3.3 \cdot 10^4$ (3580)
Datz 97
$3.306 \cdot 10^4$ (3583)
Alber 95D
$3.328 \cdot 10^4$ (3595)
He 97B

^{208}Pb ^{208}Pb

$3.286 \cdot 10^4$ (3579)
Aggarwal 98
Aggarwal 98B
Appelshauser 98
Skrzypczak 98

^{208}Pb ^{238}U

92.16 (426.4) Polikanov 94
226.1 (467.7) Polikanov 94
351.9 (514.6) Polikanov 94

^{209}Bi ^{197}Au

353.6 (469.8) Aumann 94

^{209}Bi Pb

305 (463.5) Muntz 97

^{209}Bi ^{208}Pb

353.6 (481.5) Kuhn 94

^{209}Bi ^{209}Bi

198.9 (429.1) Brill 97
Brill 96
279.9 (456.7) Brill 97
Brill 96
353.6 (482.7) Brill 97
Brill 96

Bi Pb

76.06 (394.7) Kugler 94

U Ta

24.99 – 26.03 (390.9 – 390.9)
Ganz 96
25.2 – 26.03 (390.9 – 390.9)
Leinberger 96

U Th

24.78 – 24.99 (438.6 – 438.6)
Ganz 96

^{238}U nucleus

391.8 Jain 94B

^{238}U Be

289.3 (235.2) Rubehn 96
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^{238}U ^{9}Be

116.1 (231.1) Justice 94

^{238}U C

289.3 (239.7) Rubehn 96
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402.7 (244.1) Rubehn 96
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Rubehn 95

^{238}U Al

289.3 (261) Rubehn 96
Rubehn 96B
Schuttauf 96
Rubehn 95
Summerer 95B
389.1 (268.9) Summerer 95B
402.7 (270) Rubehn 96
Rubehn 96B
Schuttauf 96
Rubehn 95

^{238}U ^{27}Al

116.1 (249.7) Justice 94
382.8 (268.4) Bhattacharyy 97

Entries are in order of beam name, then target name, then beam momentum. Particle names are ordered as described in the legend on page 117 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 118. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are equivalent p_{lab} in GeV/c; then E_{cm} in GeV follows in parentheses. For certain initial states only E_{cm} (in parentheses) is given.

^{238}U Cu

116.1 (286.9)	Justice 94
289.3 (309.5)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95
	Summerer 95B
389.1 (325.1)	Clerc 95
	Summerer 95B
402.7 (327.2)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95

^{238}U Ag

116.1 (331)	Justice 94

^{238}U In

289.3 (372.2)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95
402.7 (398.6)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95

^{238}U ^{181}Ta

24.76 – 25.1 (390.9 – 390.9)	
	Ahmad 97
	Ahmad 95B
25.08 – 25.41 (390.9 – 390.9)	
	Ahmad 97
	Ahmad 95B
25.48 – 25.83 (390.9 – 390.9)	
	Ahmad 97
	Ahmad 95B

^{238}U Au

289.3 (465.4)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95
402.7 (501.5)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95

^{238}U Pb

289.3 (476.6)	Summerer 95B
389.1 (509.2)	Summerer 95B

^{238}U ^{208}Pb

333.2 (491.7)	Donzaud 98
	Schwab 98

^{238}U ^{232}Th

24.74 – 25.1 (438.5 – 438.5)	
	Ahmad 97
	Ahmad 95B
24.76 – 25.1 (438.5 – 438.5)	
	Ahmad 95B
25.08 – 25.41 (438.5 – 438.5)	
	Ahmad 95B
25.48 – 25.83 (438.5 – 438.5)	
	Ahmad 95B

^{238}U U

116.1 (457.5)	Justice 94
289.3 (509.9)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95
402.7 (549.7)	Rubehn 96
	Rubehn 96B
	Schuttauf 96
	Rubehn 95

This index lists papers by complete reactions: beam, target, final state, and momentum. There are three kinds of "reactions" in the data base: particle fluxes, particle decays, and collisions of two particles. Fluxes go first here, then collisions. Decays are indexed in the Particle/Decay Index.

In each class the ordering is by beam particle name, then by target particle name. For a given beam and target, reactions are further divided into two classes, inclusive and exclusive, with inclusive first. In each inclusive or exclusive sample, ordering is by the final state multiplicity with separation of semileptonic from nonleptonic final states, with semileptonic first. Reactions are further ordered by names of the final state particles, taking into account the weak and strong isospin multiplet structures.

Particle names follow the ordering in the Particle Vocabulary of this compilation: Gauge bosons, leptons, mesons, baryons, atoms, and nuclei; and within each group the ordering is mainly by increasing mass. Within mesons and baryons, however, we further categorize these particles as having only light quarks, or as having as the heaviest quark, a strange, charmed, bottom, or top quark. To simplify searching in this Index, a short "Table of Contents" of the full Index comes first.

The beam momentum is the equivalent lab momentum in GeV/c. For most colliding beam experiments and for reactions above 2 TeV/c equivalent lab momentum, we give instead the c.m. energy $E_{\rm cm}$ in GeV. C.m. energies are enclosed in parentheses. For a given beam momentum, papers are ordered by year (most recent first), then first author name.

When a range of momenta were studied, we list the range, e.g. "50 – 70," ordered by the lower end. For some experiments, such as neutrino experiments, the listed range is only approximate.

A question mark means that information is unknown, usually because it was not given in the paper.

Illustrative Key

Initial State of the Reaction: see the *Particle Vocabulary* for nomenclature.

Final State of the Reaction: see the *Particle Vocabulary* for nomenclature.

Document ID: see the *ID/Reference/Title Index* for the full reference.

Lab Momentum: in GeV/c or (in parentheses) the c.m. energy $E_{\rm cm}$, in GeV.

Data Descriptor: brief description of the data measured; see the *Data Descriptor Vocabulary* for nomenclature.

$\boxed{\gamma\ p}$			
J/ψ X			
	80 – 190	Sokoloff 86	cs
$\boxed{D^{\pm}\ \text{X}}$			
	20	Butler 86	–
D_s^- X			
	100 – 260	$\boxed{\text{Anjos 89B}}$	cs
D_s^+ X			
	100 – 260	Anjos 89B	cs
		Anjos 87C	–
$D^*(2010)^0$ X			
	$\boxed{20}$	Abe 86	cs
$\overline{D}^*(2010)^0$ X			
	20	Abe 86	cs
$D^*(2010)^+$ X			
	20	Abe 86	cs
	(40 – 160)	Sliwa 83	
			angp, cs, pt
$D^*(2010)^-$ X			
	20	Abe 86	$\boxed{\text{cs}}$

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$\gamma\,^{15}$Nit 169
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$\gamma\,^{28}$Si 169
γ Ca 169
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^{197}Au C 318
^{197}Au ^{12}C 318
^{197}Au Al 318
^{197}Au Fe 318
^{197}Au Cu 318
^{197}Au Ag 318
^{197}Au In 318
^{197}Au Sn 318
^{197}Au Au 318
^{197}Au ^{197}Au 318
^{197}Au Pb 319
Pb nucleus 319
Pb Ni 319
Pb Nb 319
Pb Au 319
Pb Pb 319
^{208}Pb nucleus 320
^{208}Pb C 321
^{208}Pb Si 321
^{208}Pb Cu 321
^{208}Pb Sn 321
^{208}Pb Au 321
^{208}Pb Pb 321
^{208}Pb ^{208}Pb 321
^{208}Pb ^{238}U 321
^{209}Bi ^{197}Au 321
^{209}Bi Pb 321
^{209}Bi ^{208}Pb 321
^{209}Bi ^{209}Bi 321
Bi Pb 321
U Ta 321
U Th 321
^{238}U nucleus 321
^{238}U Be 321
^{238}U ^{9}Be 321
^{238}U C 321
^{238}U Al 321
^{238}U ^{27}Al 321
^{238}U Cu 322
^{238}U Ag 322
^{238}U In 322
^{238}U ^{181}Ta 322
^{238}U Au 322
^{238}U Pb 322
^{238}U ^{208}Pb 322
^{238}U ^{232}Th 322
^{238}U U 322

γ

0.0001 – 1	Honda 97	flux
0.1 – 30	Blom 98	flux
> 10	Aglietta 96C	flux
100 – 10^4	Strausz 97	flux
> 350	Akerlof 97	flux
> 500	Lindner 98	flux
> 1000	Hess 98	flux
3000 – $1.5 \cdot 10^4$	Eschstruth 94	flux
> $1.5 \cdot 10^4$	Krawczynski 96	flux
$6.5 \cdot 10^4$ – $2 \cdot 10^5$	Karle 95	flux
> $8 \cdot 10^4$	Aglietta 96C	flux
> 10^5	Borione 94	angp,flux
> $1.15 \cdot 10^5$	Borione 97	flux
$1.4 \cdot 10^5$ – $1.3 \cdot 10^6$	Borione 97B	flux
$5.7 \cdot 10^5$ – $5.5 \cdot 10^7$	Chantell 97	flux
> $8.7 \cdot 10^5$	Aglietta 96	flux
?	Webb 98	const,flux
	Kalmakhelidz 97	col,flux
	Bond 94	flux
	Losecco 93	flux

axion

< 10^{-5}	Avignone 98	flux
	Avignone 98B	flux

graviton

?	Mauceli 97	flux
	Astone 96	flux

ν

0.07 – 2.5	Losecco 93	flux
< 1	Fukuda 96	flux
10^4 – 10^6	Aglietta 94	flux

ν_e

> 0.0002	Abdurashitov 94	flux
> 0.000233	Anselmann 95B	flux
	Vignaud 95	flux
	Anselmann 94	flux
> 0.0008	Vignaud 95	flux
0.005 – 0.01	Fukuda 96B	flux
0.005 – 0.02	Vignaud 95	flux
0.0065 – 0.02	Fukuda 98B	flux
	Fukuda 98D	flux,p
> 0.0065	Fukuda 98G	flux
> 0.0075	Vignaud 95	flux
0.1 – 1.33	Fukuda 98F	flux
0.1 – 100	Fukuda 98C	ang,flux
> 0.1	Beier 94	flux
> 0.2	Beier 94	flux
> 0.3	Beier 94	flux
0.32 – 31.6	Daum 95B	flux,p
0.5 – 2.5	Losecco 95	flux
> 0.95	Clark 97	flux
< 1	Allison 96B	flux
> 1	Oyama 98B	flux
1.33 – 100	Fukuda 98	flux
> 1.33	Fukuda 94	flux
> 10	Oyama 97	angp,flux,p

$\bar{\nu}_e$

> 0.0002	Aglietta 97	flux
> 0.0075	Vignaud 95	flux
< 0.01	Achkar 96	p
> 0.1	Beier 94	flux
> 0.2	Beier 94	flux
> 0.3	Beier 94	flux
0.32 – 31.6	Daum 95B	flux,p
0.5 – 2.5	Losecco 95	flux
> 0.95	Clark 97	flux
> 1	Oyama 98B	flux
1.33 – 100	Fukuda 98	flux
> 10	Oyama 97	angp,flux,p
$6.4 \cdot 10^6$	Aglietta 94	flux

ν_μ

> 0.0075	Vignaud 95	flux
0.1 – 100	Fukuda 98C	ang,flux
> 0.1	Beier 94	flux
0.2 – 1.33	Fukuda 98F	flux
> 0.2	Beier 94	flux
0.25 – 10^4	Daum 95B	flux,p
0.3 – 1.5	Losecco 98	amp,angp,flux,p,qnc
> 0.3	Beier 94	flux
0.5 – 2.5	Losecco 95	flux
> 0.8	Fukuda 94	flux
> 0.95	Clark 97	flux
< 1	Allison 96B	flux
> 1	Oyama 98B	flux
1.33 – 100	Fukuda 98	flux
> 1.5	Ambrosio 98C	angp,flux
> 1.6	Fukuda 98E	flux,qnc
> 2.5	Losecco 93	flux
4	Spurio 98	flux
> 6	Balkanov 98	angp,flux
> 10	Oyama 97	angp,flux,p

$\bar{\nu}_\mu$

> 0.0075	Vignaud 95	flux
> 0.1	Beier 94	flux
> 0.2	Beier 94	flux
0.25 – 10^4	Daum 95B	flux,p
> 0.3	Beier 94	flux
0.5 – 2.5	Losecco 95	flux
> 0.95	Clark 97	flux
> 1	Oyama 98B	flux
1.33 – 100	Fukuda 98	flux
4	Spurio 98	flux
> 6	Balkanov 98	angp,flux
> 10	Oyama 97	angp,flux,p

$e^\pm$

> 1	Vishnevskaya 98	flux
	Voevodsky 98	flux,mult
> 10	Aglietta 96	flux,mult
11.2 – 16.4	Oyama 98B	angp,flux,p
$1.5 \cdot 10^5$	Aglietta 96B	flux,mult
$2.5 \cdot 10^5$	Aglietta 96B	flux,mult

e^-

0.000335 – 1	Honda 97	flux
0.3 – 4	Grimani 95	flux
0.85 – 14	Barbiellini 96	flux
1.3 – 26	Golden 92	flux
2 – 50	Basini 95B	flux
4 – 50	Aversa 95	flux
4.5 – 50	Barwick 96	flux,p
5 – 60	Golden 96	flux
?	Aglietta 96D	flux
	Barnaveli 96	flux

e^+

0.3 – 4	Grimani 95	flux
0.85 – 14	Barbiellini 96	flux
1.3 – 26	Golden 92	flux
2 – 15	Basini 95B	flux
4 – 50	Aversa 95	flux
4.5 – 50	Barwick 96	flux,p
5 – 60	Golden 96	flux
?	Aglietta 96D	flux
	Barnaveli 96	flux

$\mu^\pm$

0.04704 – 10.1	Honda 97	flux
0.9944 – 1000	Ambrosio 97D	flux
0.9944 – 10^4	Ambrosio 97H	flux
> 0.9944	Vishnevskaya 98	flux
	Aglietta 96	flux,mult
1 – 100	Ambrosio 98D	angp,flux
> 1	Ahlen 95	angp,flux
	Glushkov 95	angp,flux,p
	Hayashida 95	flux,p
> 1.597	Oyama 98	flux
> 5.999	Balkanov 98	flux
100	Ambrosio 98	angp,flux

$\mu^\pm$

100 – 1000	Ambrosio 97G	flux,p
> 200	Voevodsky 98	flux,mult
> 220	Bakatanov 98	flux,mult
	Bakatanov 97	flux,mult
1000 – $5 \cdot 10^4$	Ambrosio 95	flux,p
> 1000	Ambrosio 97C	flux,mult
	Munakata 97	flux
> 1300	Ambrosio 97B	flux,mult
1500 – $4 \cdot 10^4$	Aglietta 98	flux
	Aglietta 97B	flux
> 3000	Adarkar 98	flux,mult
10^4 – $1.5 \cdot 10^4$	Ambrosio 98B	flux
> $3 \cdot 10^4$	Aglietta 94	flux
?	Ambrosio 97F	flux
	Belolaptikov 97	flux
	Wischnewski 94	flux

μ^-

0.2266 – 20	Grimani 95	flux,p
0.3 – 40	Bellotti 96	flux
0.3126 – 40	Basini 95	flux
0.33 – 20	Stephens 95	flux
> 0.9944	Aglietta 95	angp,flux
10 – 10^4	Aglietta 96D	flux

μ^+

0.2266 – 20	Grimani 95	flux,p
0.3126 – 1.496	Basini 95	flux
0.33 – 20	Stephens 95	flux
10 – 10^4	Aglietta 96D	flux

heavy-ν

?	Klimenko 98B	flux

neutralino

?	Minowa 98	flux
	Bottino 97	flux
	Sarsa 97	flux

cosmion

?	Bernabei 99	flux
	Klimenko 98B	flux
	Bottino 97	flux
	Sarsa 97	flux
	Smith 96	flux

dark

?	Bernabei 99	flux
	Klimenko 98B	flux
	Bottino 97	flux
	Sarsa 97	flux
	Alessandrell 96	flux
	Sarsa 96	flux
	Smith 96	flux
	Alcock 95	flux
	Quenby 95	flux
	Bacci 94	flux
	Bacci 94B	flux
	Mosca 94	flux
	Su 94	const,flux
	Bacci 93	flux

monopole

< 1.1	Ambrosio 97	flux
?	Balkanov 98	flux
	Ahlen 94	flux
	Beckerszendy 94	flux

unspec

> 1000	Hess 98	flux
10^5 – 10^7	Gress 98	flux
$3 \cdot 10^7$ – $3 \cdot 10^{10}$	Hayashida 95	flux
> $4 \cdot 10^7$	Hayashida 96	angp,flux
10^8 – $5 \cdot 10^{10}$	Glushkov 97	flux,p
10^9 – 10^{11}	Takeda 98B	flux
$3 \cdot 10^9$ – $3 \cdot 10^{11}$	Takeda 98	flux,p

unspec

$> 3 \cdot 10^9$	Yoshida 95	flux
$> 10^{11}$	Medinatanco 98	angp,flux
$1.7 \cdot 10^{11} - 2.6 \cdot 10^{11}$	Hayashida 94	flux

charged

$6.5 \cdot 10^4 - 2 \cdot 10^5$	Karle 95	flux

hadron

$3.2 - 1.78 \cdot 10^4$	Mielke 94	flux
$5 \cdot 10^4 - 5 \cdot 10^6$	Barnaveli 96	flux,p
$> 5 \cdot 10^9$	Glushkov 95	flux
$3.2 \cdot 10^{11}$	Bird 94	flux,p

hadron^0

$10 - 10^4$	Kornmayer 95	flux

charged-hadron

$10 - 10^4$	Kornmayer 95	flux

π^-

$4.998 - 15$	Grimani 95	flux

p

$0.33 - 3$	Papini 95	flux
$0.33 - 20$	Stephens 95	flux
$0.4446 - 10.9$	Geer 98	flux
$0.4446 - 20$	Geer 98B	flux
$0.5992 - 0.8081$	Yoshimura 95	flux
$0.7291 - 4.03$	Mitchell 96	flux
$0.8 - 1.8$	Bogomolov 94	flux
$0.8081 - 1.09$	Yoshimura 95	flux
$1.244 - 4.02$	Boezio 97	flux
$3.579 - 18.98$	Hof 96	flux
$3.888 - 18.98$	Hof 95	flux
$19.98 - 200$	Boezio 98	flux
$10^4 - 2 \cdot 10^5$	Zatsepin 94	flux
$10^4 - 10^8$	Adarkar 98	flux
$2 \cdot 10^4 - 4 \cdot 10^5$	Zatsepin 97	flux
	Zatsepin 94B	flux
$2 \cdot 10^4 - 2 \cdot 10^6$	Vildanova 94B	flux
$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B	flux,p
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$10^5 - 2 \cdot 10^6$	Antonov 94	flux,p
$10^5 - 10^7$	Bernlohr 98	flux
$2 \cdot 10^5 - 1.5 \cdot 10^7$	Boothby 97	flux
$3 \cdot 10^5 - 10^7$	Lindner 98	flux
$8 \cdot 10^5 - 1.3 \cdot 10^7$	Kasahara 97	flux
$10^6 - 10^8$	Atrashkevich 94	flux
$3 \cdot 10^6 - 10^7$	Danilova 97	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 10^8$	Bakatanov 98	flux

n

< 1	Fukuda 96	flux
$10 - 10^4$	Kornmayer 95	flux
$10^4 - 10^7$	Adarkar 98	flux
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$> 5.6 \cdot 10^7$	Bakatanov 98	flux

$\bar{p}$

$0.4446 - 10.9$	Geer 98	flux
$0.4446 - 20$	Geer 98B	flux
$0.5992 - 0.8081$	Yoshimura 95	flux
$0.6084 - 2.142$	Matsunaga 98	flux
$0.7291 - 4.03$	Mitchell 96	flux
$0.8081 - 1.09$	Yoshimura 95	flux
$1.244 - 4.02$	Boezio 97	flux
$3.579 - 18.98$	Hof 96	flux
$3.888 - 18.98$	Hof 95	flux

R-baryon

$> 2 \cdot 10^{11}$	Farrar 97	flux

R-proton

$> 2 \cdot 10^{11}$	Farrar 97	flux

strangelet

?	Ambrosio 97E	flux

nucleus

$100 - 10^7$	Adamov 94	a-dep,flux
> 5000	Ambrosio 97F	flux
$10^4 - 2 \cdot 10^5$	Zatsepin 94	flux
$2 \cdot 10^4 - 2 \cdot 10^6$	Vildanova 94B	flux
$> 2 \cdot 10^4$	Asakimori 95	flux
$3 \cdot 10^4 - 10^7$	Longley 95	a-dep,flux,p
$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B	a-dep,flux,p
$10^5 - 2 \cdot 10^6$	Antonov 95	flux,p
	Antonov 95B	angp,flux,p
$2 \cdot 10^5 - 1.5 \cdot 10^7$	Boothby 97	flux
$> 3 \cdot 10^5$	Borione 97B	flux
$8 \cdot 10^5 - 1.3 \cdot 10^7$	Kasahara 97	flux
$10^6 - 10^8$	Vishnevskaya 98	flux,mass
	Atrashkevich 94	flux
$10^6 - 10^{11}$	Vildanova 94	flux,p
$> 5 \cdot 10^6$	Borisov 97	flux
$> 10^7$	Barnaveli 95	flux
$3.2 \cdot 10^{11}$	Bird 94	flux,p
?	Ambrosio 97G	a-dep,flux
	Su 94	const,flux

deuteron

$0.33 - 3$	Papini 95	flux
$1.6 - 3.6$	Bogomolov 94	flux
$2.926 - 5.144$	Bogomolov 95	flux
$39.96 - 400$	Boezio 98	flux

^{3}H

$59.94 - 600$	Boezio 98	flux

^{3}He

17.27	Hatano 95	flux
$3 \cdot 10^4 - 3 \cdot 10^8$	Adarkar 98	flux

^{4}He

$3.2 - 7.2$	Bogomolov 94	flux
$5.838 - 10.27$	Bogomolov 95	flux
23.03	Hatano 95	flux
$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B	flux,p
$10^6 - 10^8$	Atrashkevich 94	flux

He

< 15	Anraku 96	flux
$39.83 - 400$	Boezio 98	flux
$10^4 - 2 \cdot 10^5$	Zatsepin 94	flux
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$10^5 - 10^7$	Bernlohr 98	flux
$2 \cdot 10^5 - 1.5 \cdot 10^7$	Boothby 97	flux
$3 \cdot 10^5 - 10^7$	Lindner 98	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 7.2 \cdot 10^7$	Bakatanov 98	flux

$\overline{\text{He}}$

< 15	Anraku 96	flux

C

$> 2 \cdot 10^4$	Asakimori 95	flux
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$1.2 \cdot 10^5 - 1.2 \cdot 10^8$	Adarkar 98	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 5.6 \cdot 10^7$	Bakatanov 98	flux

Nit

$> 2 \cdot 10^4$	Asakimori 95	flux
$10^5 - 10^7$	Bernlohr 98	flux
$10^7 - 10^8$	Bakatanov 97	flux

O

$> 2 \cdot 10^4$	Asakimori 95	flux
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$1.6 \cdot 10^5 - 1.6 \cdot 10^8$	Adarkar 98	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 5.6 \cdot 10^7$	Bakatanov 98	flux

Ne

$> 2 \cdot 10^4$	Asakimori 95	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 4.2 \cdot 10^7$	Bakatanov 98	flux

Na

$> 2 \cdot 10^4$	Asakimori 95	flux

Mg

$> 2 \cdot 10^4$	Asakimori 95	flux
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$10^5 - 10^7$	Bernlohr 98	flux
$2.4 \cdot 10^5 - 2.4 \cdot 10^8$	Adarkar 98	flux

Al

$> 2 \cdot 10^4$	Asakimori 95	flux

Si

$> 2 \cdot 10^4$	Asakimori 95	flux

Ph

$> 2 \cdot 10^4$	Asakimori 95	flux

S

$> 2 \cdot 10^4$	Asakimori 95	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 4.2 \cdot 10^7$	Bakatanov 98	flux

Fe

$5 \cdot 10^4 - 5 \cdot 10^5$	Aglietta 94B	flux,p
$> 5 \cdot 10^4$	Ambrosio 97C	flux
$10^5 - 10^7$	Bernlohr 98	flux
$5.5 \cdot 10^5 - 5.5 \cdot 10^8$	Adarkar 98	flux
$10^6 - 10^8$	Atrashkevich 94	flux
$10^7 - 10^8$	Bakatanov 97	flux
$> 3.4 \cdot 10^7$	Bakatanov 98	flux

$\gamma\,\gamma$

mult[jet]		
$(0.3 - 20)$	Morgan 94	cs,mult
e^- X		
(< 3)	Iwasaki 94	cs,pt
e^+ X		
(< 3)	Iwasaki 94	cs,pt
jet X		
$(0.3 - 20)$	Morgan 94	cs,mult
hadron (hadrons)		
$(0.3 - 20)$	Morgan 94	cs,mass,p,pt
charged-hadron X		
$(10 - 125)$	Ackerstaff 98O	p,pt
vmeson (hadrons)		
$(0.3 - 20)$	Morgan 94	cs,mass,p,pt
K_S X		
$(10 - 125)$	Ackerstaff 98O	p,pt
charm X		
(< 3)	Iwasaki 94	cs

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\gamma\,\gamma$

charm X		
(4 – 20)	Uehara 93	cs
$\overline{\text{charm}}$ X		
(< 3)	Iwasaki 94	cs
2hadron (hadrons)		
(2)	Itoh 95	cs
(5 – 75)	Acciarri 97E	cs
(25)	Itoh 95	cs
$p\,\bar{p}$ X		
(2 – 9)	Uehara 95	ang,cs,p,pt
$p\,\bar{\Lambda}$ X		
(2 – 9)	Uehara 95	ang,cs,p,pt
$\Lambda\,\bar{\Lambda}$ X		
(2 – 9)	Uehara 95	ang,cs,p,pt
unspec		
(1 – 4.3)	Baru 96	cs,mass
η		
(0.547)	Baru 96	cs
η'		
(0.958)	Baru 96	cs
$f_2(1270)$		
(1.27)	Baru 96	cs
(1.275)	Yabuki 94	cs
$\pi(1300)^0$		
(1.45 – 2.1)	Albrecht 96B	–
(1.5 – 3)	Acciarri 97O	–
(1.5 – 3.5)	Kriznic 94	cs
$a_2(1320)^0$		
(0.5 – 1.5)	Acciarri 97O	–
(1.32)	Baru 96	cs
(1.45 – 2.1)	Albrecht 96B	–
(1.5 – 3.5)	Kriznic 94	cs
$f_2'(1525)$		
(1.525)	Acciarri 95O	cs
$\pi_2(1670)^0$		
(1.45 – 2.1)	Albrecht 96B	–
(1.5 – 3)	Acciarri 97O	–
(1.5 – 3.5)	Kriznic 94	cs
$f_J(2220)$		
(2.2)	Alam 98	cs
(2.22)	Godang 97	cs
$\chi_{c2}(1P)$		
(3.556)	Shelkov 93	cs
$e^-\,e^+$		
(0.35 – 1.6)	Kaloshin 94	angp,cs
(> 0.5)	Acciarri 97D	cs
$\mu^-\,\mu^+$		
(> 0.5)	Acciarri 97D	cs
$\tau^-\,\tau^+$		
(> 2)	Acciarri 97D	cs
2jet		
(> 12)	Buergin 97	angp,et,p
$2\pi^0$		
(0.8 – 2)	Kaloshin 94	angp,cs
$\pi^+\,\pi^-$		
(0.7 – 1.6)	Kaloshin 94	angp,cs
(1 – 1.5)	Yabuki 94	angp,cs,pwa
(1.5 – 4)	Baru 96	cs,mass
$\rho^+\,\pi^- + \rho^-\,\pi^+$		
(0.8 – 1.5)	Albrecht 96B	amp,cs
(1.45 – 2.1)	Albrecht 96B	amp,cs
$\rho^+\,\pi^-$		
(1.5 – 3.5)	Kriznic 94	mass
$\rho^-\,\pi^+$		
(1.5 – 3.5)	Kriznic 94	mass
$\omega\,\rho^0$		
(1.9 – 2.3)	Ressing 95	cs,pwa
2ω		
(1.6 – 3)	Albrecht 95G	cs

$\gamma\,\gamma$

$f_0(980)\,\pi^0$		
(1.45 – 2.1)	Albrecht 96B	amp,cs
$f_2(1270)\,\pi^0$		
(1.45 – 2.1)	Albrecht 96B	amp,cs
$2K_S$		
(2.1 – 2.35)	Godang 97	cs
$\phi(1020)\,\rho^0$		
(1.5 – 3.5)	Kriznic 94	cs
(1.6 – 3.4)	Albrecht 94B	ang,cs
(1.9 – 2.3)	Ressing 95	cs
$\phi(1020)\,\omega$		
(1.5 – 3.5)	Kriznic 94	cs
(1.9 – 2.3)	Ressing 95	cs
(2.1 – 3.4)	Albrecht 94B	cs
$p\,\bar{p}$		
(2 – 3.25)	Artuso 93	angp,cs
(2.2 – 3.3)	Hamasaki 97	cs
$\Lambda\,\bar{\Lambda}$		
(2.25 – 3.6)	Anderson 97	angp,cs
$\ell^+\,\ell^-\,\gamma$		
(3.56)	Shelkov 93	mass
$\pi^+\,\pi^0\,\pi^-$		
(0.5 – 3)	Acciarri 97O	cs,pt,pwa
(0.8 – 1.5)	Albrecht 96B	amp,cs
(1.45 – 2.1)	Albrecht 96B	amp,cs
(1.5 – 3.5)	Kriznic 94	mass
$\omega\,\pi^+\,\pi^0\,\pi^-$		
(1.6 – 3)	Albrecht 95G	cs
$K^+\,K^-\,\pi^+\,\pi^-$		
(1.5 – 3.5)	Kriznic 94	angp,cor,mass
$K^+\,K^-\,\pi^+\,\pi^0\,\pi^-$		
(1.5 – 3.5)	Kriznic 94	angp,cor,mass
$2\pi^+\,2\pi^0\,2\pi^-$		
(1.6 – 3)	Albrecht 95G	cs

$\gamma\,\gamma^*$

mult[hadron]		
(1 – 10)	Abreu 95	mult
charged X		
(1 – 10)	Abreu 95	angp,p,pt
unspec X		
100	Bassompierre 95	cs
jet X		
(1 – 10)	Abreu 95	angp,p,pt
hadron (hadrons)		
(0.3 – 20)	Morgan 94	cs,mass,p,pt
axion X		
100	Bassompierre 95	cs

$\gamma\,e^\pm$

$e^\pm\,\gamma^*$		
(< 183)	Abbiendi 98C	angp,cs
$e^\pm\,Z^0$		
(< 183)	Abbiendi 98C	angp,cs

$\gamma\,e^-$

mult[hadron]		
(< 91.2)	Abreu 95	mult
charged X		
(< 91.2)	Abreu 95	angp,p,pt
jet X		
(< 91.2)	Abreu 95	angp,p,pt
$2e^-\,e^+$		
0.025 – 0.075	Boldyshev 95	angp,cs

γ nucleon

$\bar{c}$ X + c X		
80 – 160	Halling 96	cs
$D^\pm$ X		
80 – 160	Halling 96	cs,p,pt
D X		
80 – 160	Halling 96	cs
D^0 X + $\bar{D}^0$ X		
80 – 160	Halling 96	cs,p,pt
$\bar{D}$ X		
80 – 160	Halling 96	cs
D_s^+ X		
80 – 160	Halling 96	cs
D_s^- X		
80 – 160	Halling 96	cs
Λ_c^+ X		
80 – 160	Halling 96	cs
$\bar{\Lambda}_c^-$ X		
80 – 160	Halling 96	cs

$\gamma\,p$

X		
3.7 – 18.3	Arneodo 92	cs
(50 – 280)	Wolf 94	cs
(90 – 290)	Levy 95	cs
	Kiesling 94	cs
(167 – 194)	Derrick 94	cs
(180)	Haas 94	cs
	Harnew 94	cs
(186 – 233)	Levy 95	cs
	Lohr 95	cs
(197)	Haas 94	cs
	Harnew 94	cs
(200)	Breitweg 97B	cs
	Aid 95F	cs
	Burow 94	cs
	Dainton 94	cs
	Deroeck 94	cs
	Feltesse 94	cs
	Krasny 93B	cs
charged X		
(165 – 251)	Adloff 98K	p,pt
(179)	Dainton 94	pt
	Deroeck 94	pt
(180)	Derrick 95G	p,pt
(200)	Kiesling 94	pt
mult[hadron] X		
(20 – 25)	Alton 96	col,p,pt
jet X		
(20 – 25)	Alton 96	et,p
(100 – 295)	Lohr 95	cs,p,pt
	Derrick 93C	cs,p,pt
(134 – 277)	Breitweg 97K	col,et
(135 – 265)	Harnew 94	et,p
(150 – 250)	Kiesling 94	et,p
(160 – 250)	Breitweg 98L	col,pt
(175 – 250)	Levy 95	pt
	Krasny 93B	pt
(179)	Dainton 94	angp,et
	Deroeck 94	angp,et
π^+ X		
0.184	Fissum 96	a-dep,angp,cs,p
0.194	Fissum 96	a-dep,angp,cs,p
0.204	Fissum 96	a-dep,angp,cs,p
0.213	Fissum 96	a-dep,angp,cs,p
0.215 – 0.8	Dutz 96	angp,asym
π^0 X		
0.1447 – 0.1693	Bergstrom 97	amp,angp
	Bergstrom 96	amp,angp,cs
ρ^0 X		
(50 – 100)	Breitweg 97M	angp,cs
(200)	Aid 95F	cs
ω X		
(200)	Aid 95F	cs

$\gamma\, p$

K_S X		
(187)	Adloff 97I	p,pt
$K^*(892)^0$ X		
65 – 175	Apsimon 93	angp,p,pt
$\overline{K}^*(892)^0$ X		
65 – 175	Apsimon 93	angp,p,pt
$\phi(1020)$ X		
65 – 175	Apsimon 93	angp,p,pt
(200)	Aid 95F	cs
charm X		
(114)	Brisson 94B	cs
$\overline{\text{charm}}$ X		
(114)	Brisson 94B	cs
D^+ X		
80 – 230	Wiss 96	–
D^0 X		
80 – 230	Wiss 96	–
D^- X		
80 – 230	Wiss 96	–
$D^*(2010)^\pm$ X		
(130 – 280)	Breitweg 98E	cs,p,pt
$D^*(2010)^+$ X		
(95 – 190)	Aid 96D	cs,p,pt
(159 – 242)	Aid 96D	cs,p,pt
(190 – 268)	Aid 96D	cs,p,pt
$D^*(2010)^-$ X		
(95 – 190)	Aid 96D	cs,p,pt
(159 – 242)	Aid 96D	cs,p,pt
(190 – 268)	Aid 96D	cs,p,pt
$J/\psi(1S)$ X		
(30 – 150)	Tokushuku 98	pt
(30 – 180)	Jung 95	cs
	Ahmed 94D	cs
(40 – 140)	Gerhards 96	cs,p
(50 – 180)	Tokushuku 98	pt
	Breitweg 97C	angp,cs
	Mass 95	cs,p
(90)	Brisson 94B	cs
(< 150)	Aid 96K	cs,mass
(200)	Gerhards 96	cs,p
DD < X > $J/\psi(1S)$		
(< 150)	Aid 96K	cs,mass
$\psi(2S)$ X		
(40 – 120)	Adloff 97L	cs
DD < X > p		
(164 – 212)	Adloff 97	cs
(200)	Breitweg 97B	cs,mass
(212 – 251)	Adloff 97	cs
p X		
(176 – 225)	Breitweg 98J	angp
(200)	Aid 95F	cs
Λ X		
(187)	Adloff 97I	p,pt
$\overline{\Lambda}$ X		
(187)	Adloff 97I	p,pt
charged (chargeds) X		
(200)	Burow 94	angp,cor,p,pt
(jets) jet X		
(150 – 250)	Burow 94	cs,et,mult,p
2jet X		
50 – 400	Conrad 95	a-dep,ang,pt
	Naples 94	a-dep,ang,pt
(100 – 295)	Hessling 95	cs,et
	Lohr 95	cs,mass,p,pt
	Derrick 93C	cs,mass,p,pt
(100 – 300)	Labarga 94	ang,cor,et,p
(134 – 277)	Breitweg 97K	col,et
(135 – 265)	Haas 94	et,p
	Harnew 94	et,mass,p
(160 – 250)	Breitweg 98L	col,pt
(179)	Dainton 94	p
	Deroeck 94	p

$\gamma\, p$

2jet X		
(200)	Colombo 94	angp,cor,et,p
hadron (hadrons) X		
(150 – 250)	Ahmed 94C	col,et,p,pt
(185)	Aid 95H	angp,et
(200)	Feltesse 94	cor,et,p,pt
2hadron (hadrons)		
(164 – 212)	Adloff 97	angp,const,cs,mass,p
(212 – 251)	Adloff 97	angp,const,cs,mass,p
2γ X		
0.627 – 0.79	Krusche 95C	mass
$\bar{c}\, c$ X		
(95 – 190)	Aid 96D	cs
(100 – 300)	Tokushuku 98	cs
(115 – 275)	Eisenberg 96	cs
	Bargende 95	cs
	Derrick 95	cs
	Garbincius 95	cs
(159 – 242)	Aid 96D	cs
(190 – 268)	Aid 96D	cs
(300)	Tokushuku 98	cs
2DD < X >		
(200)	Breitweg 97B	cs,mass
2charged (chargeds) X		
(179)	Dainton 94	ang,col
	Deroeck 94	ang,col
(jets) 2jet X		
50 – 400	Adams 94	ang,p,pt
hadron (hadrons) jet X		
(200)	Feltesse 94	cor,et,p,pt
charm 2jet X		
(130 – 280)	Breitweg 98E	cs,p,pt
e^- (hadrons) 2jet X		
(60 – 250)	Derrick 94F	ang,cor,et,p,pt
γ hadron 2jet X		
(135 – 280)	Derrick 95O	cor,cs,et,p
$N(1535\, S_{11})^+$		
0.7 – 0.78	Krusche 97	cs
0.8 – 0.9	Krusche 97	cs
$\Delta(1232\, P_{33})^+$		
0.25 – 0.5	Molinari 96	angp,cs,p
DD < γ > p		
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
$p\, \gamma$		
0.07 – 0.15	Macgibbon 95	angp,cs
0.2 – 0.41	Peise 96	amp,angp,p
0.2 – 0.5	Hunger 97	amp,angp
0.213 – 0.333	Blanpied 96	angp,asym
0.25 – 0.5	Molinari 96	cs
	Molinari 94	angp,p
$p\, \pi^0$		
0.144 – 0.16	Bernstein 97	amp,angp
0.145 – 0.154	Fuchs 96	angp,cs,pwa
0.27 – 0.42	Beck 97	amp,angp,asym
0.717 – 1.105	Bock 98B	angp,asym
$n\, \pi^+$		
0.22 – 0.8	Althoff 94	angp,asym
0.22 – 0.9	Buchler 94	angp
$p\, \eta$		
0.627 – 0.79	Krusche 95C	cs
0.632 – 0.854	Hoffmannroth 97	amp,cs
0.7 – 0.78	Krusche 97	angp,cs
0.707 – 0.79	Krusche 95	angp,cs
0.708 – 0.72	Price 95	cs
0.717 – 1.105	Bock 98B	angp,asym
0.729 – 0.753	Dytman 95	angp,cs
0.8 – 0.9	Krusche 97	angp,cs
< 1.1	Ajaka 98	angp,asym

$\gamma\, p$

$p\, \eta$		
1.15	Breuer 95	angp
$p\, \rho^0$		
9 – 20	Ackerstaff 98W	cs
(10 – 100)	Burow 94	cs
(20 – 167)	Breitweg 98K	cs
(50 – 100)	Breitweg 97M	angp,cs,dme
	Derrick 96E	angp,cs
(55)	Aid 96	angp,cs
(60 – 80)	Derrick 95R	angp,cs,dme
	Lamberti 95	cs,pt
	Haas 94	cs
(60 – 200)	Lamberti 95	cs,pt
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
(187)	Aid 96	angp,cs
(200)	Aid 95F	cs
	Lamberti 95	cs,pt
	Barreiro 94	cs,pt
DD < p > ρ^0		
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
$p\, \omega$		
(10 – 100)	Burow 94	cs
(70 – 90)	Derrick 96D	angp,cs
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
(200)	Aid 95F	cs
DD < p > ω		
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
$p\, \eta'$		
0.9 – 2.6	Plotzke 98	amp,angp,cs
1.4 – 2.6	Ernst 98	cs
$p\, \phi(1020)$		
(10 – 100)	Burow 94	cs
(60 – 80)	Derrick 95Q	angp,cs
	Lamberti 95	cs,pt
(60 – 200)	Lamberti 95	cs,pt
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
(200)	Aid 95F	cs
	Lamberti 95	cs,pt
	Barreiro 94	cs,pt
DD < p > $\phi(1020)$		
(167 – 194)	Levy 95	cs
	Lohr 95	cs
	Derrick 94	cs
$p\, J/\psi(1S)$		
(30 – 180)	Haas 94	cs
(40 – 140)	Breitweg 97E	angp,cs,pt
	Gerhards 96	cs
	Grab 96	cs
	Derrick 95F	cs
	Haas 94	cs
(40 – 160)	Mass 95	angp,cs
(60 – 80)	Lamberti 95	cs,pt
(60 – 200)	Lamberti 95	cs,pt
(< 150)	Aid 96K	cs,mass
(200)	Gerhards 96	cs,pt
	Grab 96	cs,pt
	Garbincius 95	cs,pt
	Lamberti 95	cs,pt
	Barreiro 94	cs,pt
$p\, \Upsilon(1S)$		
(80 – 160)	Breitweg 98G	cs
$p\, \Upsilon(2S)$		
(80 – 160)	Breitweg 98G	cs
$p\, \Upsilon(3S)$		
(80 – 160)	Breitweg 98G	cs

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\gamma\, p$

$\Delta(1232\, P_{33})^+\, \rho^0$
19.3 Condo 94 cs
$\Delta(1232\, P_{33})^{++}\, b_1(1235)^-$
16.5 – 21 Blackett 97 cs
$\Lambda\, K^+$
0.9 – 2 Tran 98 angp,cs,pol
0.957 – 1.476 Bockhorst 94 angp,cs,pol
0.96 – 2.1 Menze 94 cs,pol
1.32 – 2.02 Jungst 94 angp,cs,pol
$\Sigma^+\, K^0$
1.047 – 1.6 Bennhold 98 angp,cs
$\Sigma^0\, K^+$
0.9 – 2 Tran 98 angp,cs,pol
0.957 – 1.476 Bockhorst 94 angp,cs,pol
0.96 – 2.1 Menze 94 cs,pol
1.32 – 2.02 Jungst 94 angp,cs,pol
3jet
(134 – 269) Breitweg 98I ang,angp,cs,mass
$p\, 2\pi^0$
0.309 – 0.792 Harter 97 cs
0.4 – 0.8 Braghieri 95 cs
0.627 – 0.79 Krusche 95C mass
$p\, \pi^+\, \pi^-$
0.4 – 0.8 Braghieri 95 cs
(50 – 100) Breitweg 97M angp,cs
Derrick 96E angp,cs,mass
(55) Aid 96 ang,angp,cs,mass
(187) Aid 96 ang,angp,cs,mass
$n\, \pi^+\, \pi^0$
0.4 – 0.8 Braghieri 95 cs
0.45 – 0.8 Zabrodin 97 cs
$n\, \rho^0\, \pi^+$
19.3 Condo 94 ang,angp,cs,mass
$\Delta(1232\, P_{33})^{++}\, \omega\, \pi^-$
16.5 – 21 Blackett 97 mass
$p\, 3\pi^0$
0.627 – 0.79 Krusche 95C mass
$n\, 2\pi^+\, \pi^-$
19.3 Condo 94 mass
$p\, \eta\, \pi^+\, \pi^-$
0.9 – 2.6 Ernst 98 mass
$\Delta(1232\, P_{33})^{++}\, \pi^+\, \pi^0\, 2\pi^-$
16.5 – 21 Blackett 97 cs
$p\, 2\pi^+\, \pi^0\, 2\pi^-$
0.9 – 2.6 Plotzke 98 amp,angp,cs
16.5 – 21 Blackett 97 mass

$\gamma\, n$

η X
0.627 – 0.79 Krusche 95B amp,angp,cs
$n\, \eta$
0.632 – 0.854 Hoffmannroth 97 amp,cs
$p\, \pi^0\, \pi^-$
0.45 – 0.8 Zabrodin 97 cs

$\gamma\, (\bar{p}\,\mathrm{He})_{atom}$

$(\bar{p}\,\mathrm{He})_{atom^*}$
0. Yamazaki 96 –

γ H(atom)*

H(atom)* γ
? Berkeland 95 const,p

$\gamma\, {}^{12}$C(atom)

^{11}C(atom) n
0.028 Barabash 98B const

γ Tl(atom)

Tl(atom) γ
? Edwards 95 asym,qnc
Vetter 95 amp,asym,qnc

γ nucleus

mult[n] X
0.2 – 1 Terranova 94 a-dep,cs
shower X
$> 2.5 \cdot 10^6$ Borisov 97 cs,p,pt
π X
0.2 – 1 Terranova 94 a-dep,cs
π^+ X
0.25 Sakamoto 99 a-dep,cs
0.4 Sakamoto 99 a-dep,cs
0.8 Sakamoto 99 a-dep,cs
π^- X
0.25 Sakamoto 99 a-dep,cs
0.4 Sakamoto 99 a-dep,cs
0.8 Sakamoto 99 a-dep,cs
D^+ X
220 Semenov 96 cs
D^0 X
220 Semenov 96 cs
D_s^+ X
220 Semenov 96 cs
Λ_c^+ X
220 Semenov 96 cs
$\Lambda_c(2625)^+$ X
100 – 350 Frabetti 93C –
Ξ_c^+ X
220 Frabetti 98B –
Semenov 96 cs
Ξ_c^0 X
220 Semenov 96 cs
$\Xi_c^*(\mathrm{unspec})^+$ X
220 Frabetti 98 –
Ω_c X
221 Frabetti 95C –
Frabetti 94H cs
$\overline{\Omega}_c$ X
221 Frabetti 95C –
fragt (fragts)
0.2 – 1 Terranova 94 a-dep,cs
mult[p] mult[n] X
0.2 – 1 Terranova 94 a-dep,cs
hadron (hadrons) X
0.2 – 1 Terranova 94 a-dep,cs
mult[n] π^- X
0.25 Sakamoto 99 a-dep,cs
0.4 Sakamoto 99 a-dep,cs
0.8 Sakamoto 99 a-dep,cs
$D\, \overline{D}$ X
200 Slaughter 96 cor,mass,p,pt
$\Sigma_c(2455)^{++}\, \pi^-$ X
100 – 350 Frabetti 93C mass
$\Sigma_c(2455)^0\, \pi^+$ X
100 – 350 Frabetti 93C mass
$\Lambda_c^+\, \pi^+\, \pi^-$ X
100 – 350 Frabetti 93C mass
$\Sigma^+\, 2K^-\, \pi^+$ X
221 Frabetti 95C mass
$\overline{\Sigma}^-\, 2K^+\, \pi^-$ X
221 Frabetti 95C mass
$p\, K^-\, 2\pi^+\, \pi^-$ X
100 – 350 Frabetti 93C mass
$\Sigma^+ < p\, \pi^0 >\, 2K^-\, \pi^+$ X
221 Frabetti 94H mass
$\Sigma^+ < n\, \pi^+ >\, 2K^-\, \pi^+$ X
221 Frabetti 94H mass

γ nucleus

nucleus γ
0.14 – 0.45 Akhmadaliev 98 angp,p
nucleus $\mu^-\, \mu^+$
< 100 Akkus 98 const,cs,mass
nucleus $\omega\, \pi^+\, \pi^-$
50 – 300 Sapozhnikov 95 cs
nucleus $\phi(1020)\, \pi^+\, \pi^-$
50 – 300 Sapozhnikov 95 cs

γ deuteron

X
3.7 – 18.3 Arneodo 92 cs
π^0 X
0.14 – 0.16 Bergstrom 98 cs
η X
0.627 – 0.79 Krusche 95B amp,angp,cs
2jet X
50 – 400 Conrad 95 a-dep,ang,pt
Naples 94 a-dep,ang,pt
$p\, n$
0.03 – 0.05 Babusci 98 angp,asym
0.1 – 0.8 Crawford 96 angp
0.113 – 0.315 Blanpied 95 angp,asym
0.2 Kolb 94 angp
1.5 – 2.8 Belz 95 angp
< 4 Bochna 98 angp,cs,pt
deuteron π^0
0.14 – 0.16 Bergstrom 98 amp,angp,cs
< 1 Garcilazo 95 angp,pol
deuteron η
0.632 – 0.854 Hoffmannroth 97 angp,cs
deuteron ρ^0
9 – 20 Ackerstaff 98W cs
$2p\, \pi^-$
0.22 – 0.28 Quraan 98 angp,cs
$p\, n\, \pi^0$
0.29 Adams 95B angp,asym
$p\, n\, \eta$
0.632 – 0.854 Hoffmannroth 97 angp,cs
$2p\, \pi^0\, \pi^-$
0.45 – 0.8 Zabrodin 97 cs

$\gamma\, {}^3$He

ρ^0 X
0.8 – 1.12 Kagarlis 98 mass
Lolos 98 –
p X
0.195 – 0.304 Ruth 94 angp,asym
1.2 Zybalov 95 pol
$\pi^+\, \pi^-$ X
0.38 – 0.7 Watts 96 angp,cs,mass,p
0.8 – 1.12 Kagarlis 98 ang,mass,p
Lolos 98 ang,mass,p
deuteron p
0.166 – 0.213 Kolb 94 angp
0.2 – 0.8 Isbert 94 angp
^{3}He ρ^0
9 – 20 Ackerstaff 98W cs
$2p\, n$
0.135 – 0.455 Emura 94B angp,cs,p
0.2 – 0.5 Emura 94 angp,mass,p
0.2 – 0.8 Audit 97 cs
0.235 – 0.305 Tedeschi 94 angp,asym
Tedeschi 94B angp,asym
$p\, \Delta(1232\, P_{33})^+\, \Delta(1232\, P_{33})^0$
0.38 – 0.7 Watts 96 cs
$p\, \Delta(1232\, P_{33})^{++}\, \Delta(1232\, P_{33})^-$
0.38 – 0.7 Watts 96 cs

$\gamma\ ^3He$

$^3He\ \pi^+\ \pi^-$		
0.38 – 0.7	Watts 96	cs
$2p\ N(1440\ B)^+\ \pi^-$		
0.38 – 0.7	Watts 96	cs
$p\ n\ \Delta(1232\ P_{33})^{++}\ \pi^-$		
0.38 – 0.7	Watts 96	cs
$p\ n\ \Delta(1232\ P_{33})^0\ \pi^+$		
0.38 – 0.7	Watts 96	cs
$2p\ \Delta(1232\ P_{33})^-\ \pi^+$		
0.38 – 0.7	Watts 96	cs
$2p\ n\ \pi^+\ \pi^-$		
0.38 – 0.7	Watts 96	cs

$\gamma\ ^4He$

inelastic		
0.2 – 0.8	Maccormick 97	cs
γ X		
0.285	Selke 96	p
0.495	Selke 96	p
$p\ \pi$ X		
0.13 – 0.525	Wichmann 96	angp
p nucleon X		
0.13 – 0.525	Wichmann 96	angp
$p\ n$ X		
0.145 – 0.425	Maruyama 96	mass
$^3H\ p$ X		
0.13 – 0.525	Wichmann 96	angp
$^3H\ p$		
0.04	Lyakhno 96	asym
0.06	Lyakhno 96	asym
0.08	Lyakhno 96	asym
$^3He\ n$		
0.04	Lyakhno 96	asym
0.051 – 0.068	Sims 96	angp,p
0.06	Lyakhno 96	asym
0.08	Lyakhno 96	asym
$^4He\ \gamma$		
0.061	Proff 99	angp,p
0.12 – 0.51	Selke 96	angp
0.1405	Igarashi 95	angp
0.15 – 0.5	Kraus 98	angp,cs,p,pol
$^4He\ \pi^0$		
0.15 – 0.4	Kraus 97	angp,cs,mass,p,pol
deuteron $p\ n$		
0.145 – 0.425	Maruyama 96	cs

γ Li

X		
0.3 – 1.2	Bianchi 94	a-dep,cs

$\gamma\ ^6Li$

π^0 X		
0.1356 – 0.16	Bergstrom 99	angp,cs
deuteron X		
0.059	Dias 97	angp
0.075	Dias 97	angp
^3H X		
0.059	Dias 97	angp
0.075	Dias 97	angp
deuteron p X		
0.06	Ryckbosch 94	cs,p
$^3H\ p$ X		
0.06	Ryckbosch 94	cs,p
^3H deuteron X		
0.06	Ryckbosch 94	cs,p

$\gamma\ ^7Li$

hadron X		
0.3 – 1.163	Bianchi 95	a-dep,cs

γ Be

vee X		
220	Frabetti 94G	cs

γ Be

D^+ X		
80 – 230	Garbincius 95	cs,p,pt
	Freyberger 94	–
200	Frabetti 97	–
	Frabetti 97B	–
	Frabetti 97C	–
	Frabetti 96B	–
	Frabetti 95	–
	Frabetti 95D	–
	Frabetti 95I	p,pt
	Gardner 95	–
220	Halling 96	p,pt
	Frabetti 95E	–
	Garbincius 95	p,pt
	Frabetti 94C	–
	Frabetti 94G	cs
	Frabetti 94J	–
	Johns 94	p,pt
	Moroni 94	p,pt
221	Wiss 96	–
D^0 X		
80 – 230	Garbincius 95	cs,p,pt
200	Frabetti 95B	–
	Frabetti 95I	p,pt
220	Halling 96	p,pt
	Frabetti 95H	–
	Garbincius 95	p,pt
	Frabetti 94E	–
	Frabetti 94F	–
	Frabetti 94G	cs
	Frabetti 94I	–
	Johns 94	–
	Moroni 94	p,pt
221	Wiss 96	–
$\overline{D}^0$ X		
80 – 230	Garbincius 95	cs,p,pt
200	Frabetti 95B	–
	Frabetti 95I	p,pt
220	Halling 96	p,pt
	Garbincius 95	p,pt
	Frabetti 94G	cs
	Frabetti 94I	–
	Johns 94	–
	Moroni 94	p,pt
221	Wiss 96	–
D^- X		
80 – 230	Garbincius 95	cs,p,pt
200	Frabetti 97	–
	Frabetti 97B	–
	Frabetti 97C	–
	Frabetti 95	–
	Frabetti 95D	–
	Frabetti 95I	p,pt
	Gardner 95	–
220	Halling 96	p,pt
	Frabetti 95E	–
	Garbincius 95	p,pt
	Frabetti 94C	–
	Frabetti 94G	cs
	Frabetti 94J	–
	Moroni 94	p,pt
221	Wiss 96	–
$D^*(2010)^\pm$ X		
220	Frabetti 94C	–
$D^*(2010)^+$ X		
200	Frabetti 96	mass,p
	Frabetti 95I	p,pt
220	Frabetti 94E	–
	Frabetti 94I	–
221	Frabetti 94D	–
$D^*(2010)^-$ X		
200	Frabetti 95I	p,pt
220	Frabetti 94I	–
D_s^+ X		
80 – 230	Wiss 96	–
	Garbincius 95	cs,p,pt
200	Frabetti 97B	–
	Frabetti 97C	–
	Frabetti 95	–
	Frabetti 95D	–
	Frabetti 95I	p,pt
	Gardner 95	–

γ Be

D_s^+ X		
220	Halling 96	p,pt
	Frabetti 95E	–
	Garbincius 95	p,pt
	Frabetti 94	–
	Frabetti 94J	–
	Johns 94	p,pt
	Moroni 94	–
D_s^- X		
80 – 230	Wiss 96	–
	Garbincius 95	cs,p,pt
200	Frabetti 97B	–
	Frabetti 97C	–
	Frabetti 95	–
	Frabetti 95D	–
	Frabetti 95I	p,pt
	Gardner 95	–
220	Halling 96	p,pt
	Frabetti 95E	–
	Garbincius 95	p,pt
	Frabetti 94J	–
	Moroni 94	–
$D_1(2420)^0$ X		
220	Moroni 94	–
$\overline{D}_1(2420)^0$ X		
220	Moroni 94	–
$D_2^*(2460)^+$ X		
220	Frabetti 94E	–
	Moroni 94	–
$D_2^*(2460)^0$ X		
220	Frabetti 94E	–
	Moroni 94	–
$\overline{D}_2^*(2460)^0$ X		
220	Moroni 94	–
$D_2^*(2460)^-$ X		
220	Moroni 94	–
$D_{s1}(2536)^+$ X		
220	Frabetti 94E	–
Λ_c^+ X		
80 – 230	Garbincius 95	cs,p,pt
200	Frabetti 95I	p,pt
	Fujino 95	–
220	Halling 96	p,pt
	Garbincius 95	p,pt
	Frabetti 94B	–
	Johns 94	p,pt
	Moroni 94	–
$\overline{\Lambda}_c^-$ X		
80 – 230	Garbincius 95	cs,p,pt
200	Frabetti 95I	p,pt
$\Lambda_c(2625)^+$ X		
220	Frabetti 95F	cs
$\overline{\Lambda}_c(2625)^-$ X		
220	Frabetti 95F	cs
Λ_c^{*+} X		
220	Frabetti 95F	cs
$\overline{\Lambda}_c^{*-}$ X		
220	Frabetti 95F	cs
$\Sigma_c(2455)^{++}$ X		
220	Frabetti 95F	cs
$\Sigma_c(2455)^0$ X		
220	Frabetti 95F	cs
$\overline{\Sigma}_c(2455)^0$ X		
220	Frabetti 95F	cs
$\overline{\Sigma}_c(2455)^{--}$ X		
220	Frabetti 95F	cs
Ξ_c^+ X		
220	Halling 96	p,pt
	Garbincius 95	p,pt
	Johns 94	p,pt
	Moroni 94	–
Ξ_c^0 X		
220	Halling 96	p,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

γ Be

Ξ_c^0 X			
		Garbincius 95	p,pt
		Johns 94	p,pt
		Moroni 94	–
Ω_c X			
	200	Fujino 95	–
	220	Garbincius 95	–
		Johns 94	–
		Moroni 94	–
$K^+ \mu^-$ X			
	220	Johns 94	mass,p
$K^- \mu^+$ X			
	220	Johns 94	mass,p
2jet X			
	50 – 400	Conrad 95	a-dep,ang,pt
		Naples 94	a-dep,ang,pt
$\pi^+ \pi^-$ X			
	220	Frabetti 94F	mass
$K^+ \pi^-$ X			
	220	Frabetti 94G	mass
		Johns 94	mass,p
$K^- \pi^+$ X			
	220	Frabetti 94F	mass
		Frabetti 94G	mass
		Johns 94	mass,p
$K_S \pi^+$ X			
	220	Frabetti 94J	mass
$K_S \pi^-$ X			
	220	Frabetti 94J	mass
$K^0 \overline{K}^0$ X			
	220	Frabetti 94I	mass
$K^+ K^-$ X			
	220	Frabetti 94F	mass
$K^+ K_S$ X			
	220	Frabetti 94J	mass
$K_S K^-$ X			
	220	Frabetti 94J	mass
$K^*(892)^0 K^-$ X			
	220	Frabetti 94C	mass
$K^*(892)^+ K_S$ X			
	220	Frabetti 94J	mass
$\overline{K}^*(892)^0 K^+$ X			
	220	Frabetti 94C	mass
$K^*(892)^- K_S$ X			
	220	Frabetti 94J	mass
$\phi(1020) \pi^+$ X			
	220	Frabetti 94C	mass
$\phi(1020) \pi^-$ X			
	220	Frabetti 94C	mass
$D^+ \pi^-$ X			
	220	Frabetti 94E	mass
$D^0 \pi^+$ X			
	200	Frabetti 96	mass,p
	220	Frabetti 94C	–
		Frabetti 94E	mass
	221	Frabetti 94D	–
$D^0 \pi^0$ X			
	220	Frabetti 94I	mass
$\overline{D}^0 \pi^-$ X			
	220	Frabetti 94C	–
		Frabetti 94I	mass
$D \overline{D}$ X			
	220	Moroni 94	ang,cor,mass,p,pt
$D^+ \overline{D}^0$ X			
	220	Halling 96	ang,cor,p,pt
		Garbincius 95	ang,cor,p,pt
		Johns 94	ang,cor,p,pt
$D^0 D^-$ X			
	220	Halling 96	ang,cor,p,pt
		Garbincius 95	ang,cor,p,pt

γ Be

$D^0 D^-$ X			
		Johns 94	ang,cor,p,pt
$D^*(2010)^+ \pi^-$ X			
	220	Frabetti 94E	mass
$D^*(2010)^+ K^0$ X			
	220	Frabetti 94E	mass
$D^*(2010)^+ \overline{D}^0$ X			
	200	Frabetti 95I	p,pt
$D^*(2010)^+ D^-$ X			
	200	Frabetti 95I	p,pt
$D^*(2010)^- D^+$ X			
	200	Frabetti 95I	p,pt
$D^*(2010)^- D^0$ X			
	200	Frabetti 95I	p,pt
$D^*(2010)^+ D^*(2010)^-$ X			
	200	Frabetti 95I	p,pt
$D^*(2007)^0 K^+$ X			
	220	Frabetti 94E	mass
$D_s^+ D^*(2010)^-$ X			
	200	Frabetti 95I	p,pt
$D_s^- D^*(2010)^+$ X			
	200	Frabetti 95I	p,pt
$\Sigma^- \pi^+$ X			
	220	Johns 94	mass,p
$\Lambda_c^+ D^*(2010)^-$ X			
	200	Frabetti 95I	p,pt
$\overline{\Lambda}_c^- D^*(2010)^+$ X			
	200	Frabetti 95I	p,pt
$K^+ K^- \mu^\pm$ X			
	220	Frabetti 94	ang,mass,p
$2\pi^+ \pi^-$ X			
	220	Johns 94	mass,p
$K^+ 2\pi^-$ X			
	220	Frabetti 94C	mass
		Frabetti 94G	mass
		Frabetti 94I	mass
$\overline{K}^0 \pi^+ \pi^-$ X			
	220	Frabetti 94I	mass
$K^- 2\pi^+$ X			
	220	Frabetti 94C	mass
		Frabetti 94G	mass
		Frabetti 94I	mass
	221	Frabetti 94D	mass
$K^- \pi^+ \pi^0$ X			
	221	Frabetti 94D	mass
$K_S \pi^+ \pi^-$ X			
	221	Frabetti 94D	mass
$K^+ K^- \pi^+$ X			
	220	Frabetti 94C	mass
		Johns 94	mass,p
$K^+ K^- \pi^-$ X			
	220	Frabetti 94C	mass
$3K_S$ X			
	220	Frabetti 94I	mass
$p K^- \pi^+$ X			
	220	Johns 94	mass,p
$\Sigma^+ 2\pi^+$ X			
	220	Frabetti 94B	mass
$\Sigma^- 2\pi^+$ X			
	220	Johns 94	mass,p
$\Sigma^- \pi^+ \pi^-$ X			
	220	Frabetti 94B	mass
$2\pi^+ 2\pi^-$ X			
	220	Johns 94	mass,p
$K^+ \pi^+ 2\pi^-$ X			
	220	Frabetti 94G	mass
$K^- 2\pi^+ \pi^-$ X			
	220	Frabetti 94G	mass
		Johns 94	mass,p

γ Be

$K^+ K^- \pi^+ \pi^-$ X			
	220	Johns 94	mass,p
$2K^+ K^- \pi^-$ X			
	220	Johns 94	mass,p
$K^+ 2K^- \pi^+$ X			
	220	Johns 94	mass,p
$\Sigma^+ 2K^- \pi^+$ X			
	220	Johns 94	mass
$p K^+ K^- \pi^+ \pi^0$ X			
	220	Johns 94	mass
$n K^+ K^- 2\pi^+$ X			
	220	Johns 94	mass

γ C

X			
	0.3 – 1.2	Bianchi 94	a-dep,cs
	3.7 – 18.3	Arneodo 92	cs
inelastic			
	0.5 – 2.6	Muccifora 98	cs
		Mirazita 97	cs
hadron X			
	0.3 – 1.163	Bianchi 95	a-dep,cs
γ X			
	0.2 – 0.5	Wissmann 94	angp
π^+ X			
	0.184	Fissum 96	a-dep,angp,cs,p
	0.194	Fissum 96	a-dep,angp,cs,p
	0.204	Fissum 96	a-dep,angp,cs,p
	0.213	Fissum 96	a-dep,angp,cs,p
2jet X			
	50 – 400	Conrad 95	a-dep,ang,pt
		Naples 94	a-dep,ang,pt
C γ			
	0.2 – 0.5	Wissmann 94	angp

γ ^{12}C

π^0 X			
	0.17 – 0.177	Gothe 95	angp,cs
K^+ X			
	0.7 – 1.1	Maeda 94	angp,cs
	0.8 – 1.1	Yamazaki 95	angp,cs,mass
p X			
	0.2	Cross 95	angp,p
	0.3	Cross 95	angp,p
	0.4	Cross 95	angp,p
	0.5	Cross 95	angp,p
$p \pi^\pm$ X			
	0.2	Cross 95	angp,p
	0.25 – 0.6	Harty 98	mass,p
	0.3	Cross 95	angp,p
	0.4	Cross 95	angp,p
	0.5	Cross 95	angp,p
$p \pi^+$ X			
	0.24 – 0.4	Liang 97	angp,p
$n \pi^+$ X			
	0.24 – 0.4	Liang 97	angp,p
$2p$ X			
	0.08 – 0.157	Mcgeorge 95	cs,p
	0.12 – 0.4	Macgregor 98	angp
	0.187 – 0.227	Hackett 96	ang,angp,cs,p
	0.2	Cross 95	angp,p
	0.3	Cross 95	angp,p
	0.4	Cross 95	angp,p
	0.5	Cross 95	angp,p
$p\ n$ X			
	0.08 – 0.157	Mcgeorge 95	cs,p
	0.12 – 0.15	Yau 98	angp,p
	0.12 – 0.4	Macgregor 98	angp
	0.18 – 0.34	Franczuk 99	ang,angp,asym,p

$\gamma\ ^{12}C$

$p\ n$ X
- 0.2 — Cross 95 — angp,p
- 0.25 – 0.6 — Harty 98 — mass,p
- 0.3 — Cross 95 — angp,p
- 0.4 — Cross 95 — angp,p
- 0.5 — Cross 95 — angp,p

$2n$ X
- 0.08 – 0.157 — Mcgeorge 95 — cs,p

$3p$ X
- 0.25 – 0.6 — Harty 98 — mass,p

^{11}Bor p
- 0.025 – 0.075 — Ruijter 96 — angp
- 0.044 – 0.098 — Mori 95 — angp
- 0.08 – 0.157 — Harty 95 — angp,p

^{11}Bor* p
- 0.025 – 0.075 — Ruijter 96 — angp
- 0.08 – 0.157 — Harty 95 — angp,p

^{12}Bor π^+
- 0.192 — Choi 94 — angp,p

^{12}C γ
- 0.058 — Hager 95 — angp
- 0.075 — Hager 95 — angp
- 0.137 – 0.2806 — Igarashi 95 — angp

^{12}C π^0
- 0.17 – 0.177 — Gothe 95 — angp,cs

^{12}C* γ
- 0.137 – 0.2806 — Igarashi 95 — angp

^{11}Bor $n\ \pi^+$
- 0.114 – 0.792 — Mackenzie 96 — angp,p

$\gamma\ ^{13}C$

π^0 X
- 0.17 – 0.177 — Gothe 95 — angp,cs

^{13}Bor π^+
- 0.192 — Choi 94 — angp,p

^{13}C π^0
- 0.17 – 0.177 — Gothe 95 — angp,cs

$\gamma\ ^{14}$Nit

^{14}Nit ρ^0
- 9 – 20 — Ackerstaff 98W — cs

$\gamma\ ^{15}$Nit

^{15}O π^-
- 0.22 — Shaw 95 — angp

$\gamma\ ^{16}O$

$p\ \pi^-$ X
- 0.273 – 0.313 — Hicks 97 — asym

^{16}O γ
- 0.027 – 0.064 — Feldman 96 — angp,cs,p
- 0.058 — Hager 95 — angp
- 0.06 – 0.108 — Feldman 96 — angp,cs,p
- 0.061 — Proff 99 — angp,p
- 0.075 — Hager 95 — angp

4He
- 0.018 – 0.048 — Kirichenko 95 — ang,p

γ Al

X
- 0.3 – 1.2 — Bianchi 94 — a-dep,cs

inelastic
- 0.5 – 2.6 — Muccifora 98 — cs

hadron X
- 0.3 – 1.163 — Bianchi 95 — a-dep,cs

2jet X
- 50 – 400 — Conrad 95 — a-dep,ang,pt
- Naples 94 — a-dep,ang,pt

γ Si

D_c X
- 50 – 200 — Slaughter 96 — p,pt
- Garbincius 95 — p,pt

γ Si

$D\ \overline{D}$ X
- 50 – 200 — Slaughter 96 — ang,mass,p,pt
- Garbincius 95 — ang,mass,p,pt

$\gamma\ ^{28}Si$

$p\ n$ X
- 0.05 – 0.075 — Babusci 96 — angp,p

γ Ca

π^+ X
- 0.184 — Fissum 96 — a-dep,angp,cs,p
- 0.194 — Fissum 96 — a-dep,angp,cs,p
- 0.204 — Fissum 96 — a-dep,angp,cs,p
- 0.213 — Fissum 96 — a-dep,angp,cs,p

$\gamma\ ^{40}Ca$

^{40}Ca γ
- 0.058 — Proff 99 — angp,p
- 0.074 — Proff 99 — angp,p

γ Cu

X
- 0.3 – 1.2 — Bianchi 94 — a-dep,cs
- 3.7 – 18.3 — Arneodo 92 — cs

inelastic
- 0.5 – 2.6 — Muccifora 98 — cs

hadron X
- 0.3 – 1.163 — Bianchi 95 — a-dep,cs

2jet X
- 50 – 400 — Conrad 95 — a-dep,ang,pt
- Naples 94 — a-dep,ang,pt

$\gamma\ ^{85}Rb$

^{84}Rb n
- 0.02 – 0.07 — Danagulyan 97B — cs
- 4.5 — Danagulyan 97B — cs

γ Sn

X
- 0.3 – 1.2 — Bianchi 94 — a-dep,cs

inelastic
- 0.5 – 2.6 — Muccifora 98 — cs

hadron X
- 0.3 – 1.163 — Bianchi 95 — a-dep,cs

π^+ X
- 0.184 — Fissum 96 — a-dep,angp,cs,p
- 0.194 — Fissum 96 — a-dep,angp,cs,p
- 0.204 — Fissum 96 — a-dep,angp,cs,p
- 0.213 — Fissum 96 — a-dep,angp,cs,p

fragt X
- < 4.5 — Alexandryan 94 — cs

$\gamma\ ^{119}Sn$

Sn*
- $2.38 \cdot 10^{-5}$ — Tsinoev 98 — angp,const,cs,p,pol,pwa

^{119}Sn γ
- $2.38 \cdot 10^{-5}$ — Tsinoev 98 — angp,const,cs,p,pol,pwa

$\gamma\ ^{130}Te$

^{129}Sb p
- 0.02 – 0.07 — Danagulyan 97B — cs
- 4.5 — Danagulyan 97B — cs

^{129}Te n
- 0.02 – 0.07 — Danagulyan 97B — cs

$\gamma\ ^{130}Te$

^{129}Te n
- 4.5 — Danagulyan 97B — cs

γ Pb

X
- 0.3 – 1.2 — Bianchi 94 — a-dep,cs
- 3.7 – 18.3 — Arneodo 92 — cs

inelastic
- 0.5 – 2.6 — Muccifora 98 — cs
- Mirazita 97 — cs

hadron X
- 0.3 – 1.163 — Bianchi 95 — a-dep,cs

π^+ X
- 0.184 — Fissum 96 — a-dep,angp,cs,p
- 0.194 — Fissum 96 — a-dep,angp,cs,p
- 0.204 — Fissum 96 — a-dep,angp,cs,p
- 0.213 — Fissum 96 — a-dep,angp,cs,p

2jet X
- 50 – 400 — Conrad 95 — a-dep,ang,pt
- Naples 94 — a-dep,ang,pt

$\gamma\ ^{208}Pb$

3fragt (fragts)
- < 1.85 — Arakelyan 95 — cs

2fragt
- < 1.85 — Arakelyan 95 — cs

$\gamma\ ^{209}Bi$

3fragt (fragts)
- < 1.85 — Arakelyan 95 — cs

2fragt
- < 1.85 — Arakelyan 95 — cs

$\gamma\ ^{235}U$

inelastic
- 0.05 – 0.8 — Frommhold 94 — cs

p fragt X
- 0.06 – 0.24 — Ivanov 94 — cs,p

2fragt (fragts)
- 0.05 – 0.8 — Frommhold 94 — cor,cs,mass,p

3fragt (fragts)
- < 1.85 — Arakelyan 95 — cs

2fragt
- < 1.85 — Arakelyan 95 — cs

$\gamma\ ^{238}U$

inelastic
- 0.05 – 0.8 — Frommhold 94 — cs

$p\ \gamma$ X
- 0.06 – 0.24 — Ivanov 94 — cs,p

2fragt (fragts)
- 0.05 – 0.8 — Frommhold 94 — cor,cs,mass,p

$\gamma\ ^{237}Np$

p fragt X
- 0.06 – 0.24 — Ivanov 94 — cs,p

$\gamma\ ^{239}Pu$

3fragt (fragts)
- < 1.85 — Arakelyan 95 — cs

2fragt
- < 1.85 — Arakelyan 95 — cs

$\gamma\ ^{243}Am$

3fragt (fragts)
- < 1.85 — Arakelyan 95 — cs

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$\gamma\ ^{243}$Am

2fragt

< 1.85	Arakelyan 95	cs

γ crystal

$e^-\ e^+$ X

100	Bassompierre 95	mass

$\gamma^*\ \gamma$

hadron (hadrons) X

(> 2.5)	Ackerstaff 97E	angp
	Ackerstaff 97G	angp

π^0

(0.135)	Gronberg 97	p
	Savinov 95	p

η

(0.547)	Gronberg 97	p
	Savinov 95	p

η'

(0.958)	Gronberg 97	p
	Savinov 95	p

$\gamma^*\ \gamma^*$

jet X

(> 2)	Adachi 99	angp,cs,et,mass,p

hadron (hadrons)

(> 2)	Acciarri 98ZC	angp,cs

2jet

(> 2)	Adachi 99	angp,cs,et,mass,p

$q\ \bar{q}$

(> 2)	Adachi 99	–

$K^+\ K^-\ +\ \pi^+\ \pi^-$

(1.5 – 5)	Dominick 94	angp,cs

γ^* nucleon

nucleon ρ^0

40 – 180	Arneodo 95D	angp,cs

$\gamma^*\ p$

X

(20 – 200)	Tokushuku 98	cs
(50 – 240)	Adloff 97C	cs
	Wolf 94	cs
(100 – 230)	Breitweg 97J	cs
(100 – 250)	Tokushuku 98	cs

charged-hadron X

(100 – 295)	Kniehl 94	p,pt

K_S X

(187)	Adloff 97I	p,pt

$J/\psi(1S)$ X

(60 – 120)	Grab 96	cs

Λ X

(187)	Adloff 97I	p,pt

$\bar{\Lambda}$ X

(187)	Adloff 97I	p,pt

charged (chargeds) X

(150 – 250)	Aid 96J	cs,p,pt

$\bar{c}\ c$ X

(100 – 295)	Eisenberg 96	cs

2DD < X >

(60 – 200)	Breitweg 98F	angp,mass,p

DD < p < X >> DD < γ^* < ρ^0 >>

(60 – 180)	Adloff 97D	angp,cs

$p\ \rho^0$

(10.1 – 24.1)	Adams 97C	angp,cs,p
(20 – 167)	Breitweg 98K	cs
(60 – 180)	Adloff 97D	angp,cs

$p\ \phi(1020)$

(42 – 134)	Adloff 97D	angp,cs
	Derrick 96F	cs

$\gamma^*\ p$

$p\ J/\psi(1S)$

(50 – 150)	Breitweg 98K	cs

axion γ

γ (γ's)

?	Moriyama 98	const,p

axion e^-

$e^-\ \gamma$

$< 10^{-5}$	Avignone 98	const,cs,p
	Avignone 98B	const,cs,p

axion p

$p\ \gamma$

$< 10^{-5}$	Avignone 98	const,cs,p
	Avignone 98B	const,cs,p

axion ^{71}Ge(atom)

γ X

$< 10^{-5}$	Avignone 98	const,cs,p
	Avignone 98B	const,cs,p

axion ^{57}Fe

^{57}Fe*

$< 1.44 \cdot 10^{-5}$	Krcmar 98B	cs

$\nu\ e^-$

$e^-\ \nu$

> 0.0075	Vignaud 95	cs,p

$\nu_e\ e^-$

$e^-\ \nu_e$

> 0.0075	Vignaud 95	cs,p
< 0.053	Gninenko 98	cs

$\nu_e\ n$

$p\ e^-$

20 – 30	Vilain 94B	cs,p

ν_e nucleus

e^- X

> 0.0075	Vignaud 95	cs,p

$\nu_e\ ^{12}$C

e^- X

< 0.3	Athanassopou 97C	p

^{12}C* ν_e

< 0.035	Armbruster 98	cs
	Armbruster 94	cs

^{12}Nit e^-

< 0.035	Armbruster 98	cs
0.035 – 0.055	Imlay 98	angp,cs,p
< 0.05	Athanassopou 97	angp,cs,p
< 0.052	Armbruster 98D	cs,p
< 0.0528	Armbruster 98B	cs
< 0.3	Athanassopou 97B	cs,p

^{12}Nit* e^-

< 0.035	Armbruster 94	cs
0.035 – 0.055	Imlay 98	angp,cs,p
< 0.05	Athanassopou 97	angp,cs,p

^{12}Nit < ^{12}C $e^+\ \nu_e$ > e^-

< 0.035	Armbruster 94	cs
< 0.0528	Bodmann 94	cor,cs,p
	Bodmann 94B	cor,cs,p
	Kretschmer 94B	cor,cs,p

$\nu_e\ ^{37}$Cl

^{37}Ar e^-

> 0.0008	Vignaud 95	cs

$\nu_e\ ^{37}$Cl

^{37}Ar e^-

0.005 – 0.02	Vignaud 95	p

$\nu_e\ ^{40}$Ar

X

< 0.005	Trinder 97	cs

ν_e Fe

ν_e hadron (hadrons) X

160	Mcfarland 97	angp,const

e^- hadron (hadrons) X

160	Mcfarland 97	angp,const

$\nu_e\ ^{71}$Ga

^{71}Ge e^-

> 0.0002	Abdurashitov 94	cs
> 0.000233	Anselmann 95B	cs
	Vignaud 95	p
	Anselmann 94	p
0.000426	Bahcall 95	cs
0.000431	Bahcall 95	cs
0.000462	Abdurashitov 96	cs
0.000746	Bahcall 95	cs
0.000751	Abdurashitov 96	cs
	Bahcall 95	cs

$\bar{\nu}_e\ e^-$

W^-

$6.4 \cdot 10^6$	Aglietta 94	cs

$e^-\ \bar{\nu}_e$

0.0006 – 0.0052	Derbin 92B	cs

$\bar{\nu}_e\ p$

$n\ e^+$

> 0.0002	Aglietta 97	p
0.002 – 0.008	Greenwood 96	p
0.002 – 0.009	Gninenko 98	cs
	Vidyakin 94	cs
0.002 – 0.01	Vyrodov 95	cs
	Declais 94	cs
> 0.00223	Kozlov 98	const,cs
0.004 – 0.01	Vyrodov 98	cs
< 0.01	Gninenko 98	cs
	Apollonio 97	const,cs,p
	Achkar 96	cs,p
	Achkar 95	cs
0.01 – 0.05	Armbruster 98D	p
< 0.0528	Gninenko 98	p
	Athanassopou 96	p
	Athanassopou 96B	p
20 – 30	Vilain 94B	cs,p

$\bar{\nu}_e$ deuteron

$p\ n\ \bar{\nu}_e$

0.002 – 0.01	Riley 99	const,cs
> 0.00223	Kozlov 98	const,cs

$2n\ e^+$

0.002 – 0.01	Riley 99	const,cs
> 0.00223	Kozlov 98	const,cs

$\bar{\nu}_e$ Fe

$\bar{\nu}_e$ hadron (hadrons) X

160	Mcfarland 97	angp,const

e^+ hadron (hadrons) X

160	Mcfarland 97	angp,const

$\nu_\mu\ e^-$

$e^-\ \nu_\mu$

0.0298	Gninenko 98	cs
20	Gninenko 98	angp
	Vilain 94C	angp
23.7	Vilain 94	const,cs

$\nu_\mu\ e^-$

$e^-\ \nu_\mu$

	Vilain 94D	const,cs
	Vilain 93B	angp,const

$\mu^-\ \nu_e$

> 10.9	Vilain 95B	const,cs,p,pt
23.8	Vilain 95B	const,cs,p,pt

ν_μ nucleon

ν_μ X

4 – 160	Loverre 96	cs

μ^- X

3 – 30	Anikeyev 95	cs,p
	Anikeyev 95B	cs
4 – 160	Loverre 96	cs
6 – 28	Barabash 96B	angp,cs
20 – 600	Yang 96	angp,p

heavy-ν X

5 – 100	Vilain 95	cs

μ^- hadron (hadrons)

23.6	Altegoer 98C	angp,col,mult,p

$\mu^-\ \mu^+\ \nu_\mu$ X

5 – 100	Vilain 95	angp

nucleon $D_s^{*+}\ \mu^-$

24.9	Annis 98	–

$\nu_\mu\ p$

μ^- X

5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p

μ^- charged X

5 – 400	Burkot 96	p

$\rho^0\ \mu^-$ X

10 – 150	Zaetz 95	dme

$D^*(2010)^+\ \mu^-$ X

10 – 200	Asratyan 95	cs

$D_{s1}(2536)^+\ \mu^-$ X

61.4	Asratyan 94	cs

$\pi^+\ \pi^-\ \mu^-$ X

10 – 150	Zaetz 95	ang,mass,p

$K^+\ K^-\ \pi^+\ \mu^-\ \gamma$ X

61.4	Asratyan 94	mass

$K^+\ K^-\ \pi^+\ \pi^0\ \mu^-$ X

61.4	Asratyan 94	mass

$K^*(892)^-\ K^+\ \pi^+\ \mu^-\ \gamma$ X

61.4	Asratyan 94	mass

$K^*(892)^-\ K^+\ \pi^+\ \pi^0\ \mu^-$ X

61.4	Asratyan 94	mass

$K^0\ K^-\ 2\pi^+\ \pi^0\ \mu^-$ X

61.4	Asratyan 94	mass

$K^0\ K^-\ 3\pi^+\ \pi^-\ \mu^-$ X

61.4	Asratyan 94	mass

$\nu_\mu\ n$

$p\ \mu^-$

20 – 30	Vilain 94B	cs,p

ν_μ nucleus

X $0\mu^-$

27	Aleshin 97	cs,p,pt

μ^- X

> 0.0075	Vignaud 95	cs,p
> 1	Ambrosio 98	p
3 – 30	Aleshin 96B	angp,p
27	Aleshin 97	cs,p,pt

mult[grey] X

49 – 63	Gorichev 93	mult

mult[htrack] X

49 – 63	Gorichev 93	mult

ν_μ nucleus

mult[black] X

49 – 63	Gorichev 93	mult

grey X

49 – 63	Gorichev 93	angp,mult

black X

49 – 63	Gorichev 93	angp,mult

μ^- charged-hadron X

8.7	Aleshin 96C	angp,mass,mult

$K^0\ \mu^-$ X

3 – 30	Aleshin 95B	mult

μ^- charm X

3 – 30	Aleshin 95B	cs

$\Lambda\ \mu^-$ X

3 – 30	Aleshin 95B	mult

ν_μ deuteron

$\rho^0\ \mu^-$ X

10 – 260	Zaetz 95	dme

$D^*(2010)^+\ \mu^-$ X

10 – 260	Asratyan 95	cs

$D_{s1}(2536)^+\ \mu^-$ X

61.4	Asratyan 94	cs

$p\ \mu^-$ X

5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p

$n\ \mu^-$ X

5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p

$\pi^+\ \pi^-\ \mu^-$ X

10 – 260	Zaetz 95	ang,mass,p

$K^0\ K^-\ 2\pi^+\ \mu^-$ X

61.4	Asratyan 94	mass

$\nu_\mu\ ^{12}C$

μ^- X

0.12 – 0.3	Imlay 98	cs,p
0.1231 – 0.3	Church 97	cs,p
0.1237 – 0.28	Albert 95	cs
< 0.3	Church 97	cs,p

$^{12}C^*\ \nu_\mu$

0.0298	Armbruster 98C	cs
0.03	Armbruster 98D	cs,p

^{12}Nit μ^-

0.12 – 0.3	Imlay 98	cs,p
0.1231 – 0.3	Church 97	cs,p
< 0.3	Church 97	cs,p

^{12}Nit* μ^-

0.12 – 0.3	Imlay 98	cs,p

ν_μ Ne

μ^- X

65	Asratyan 97	cs,p
131	Asratyan 97	cs,p

$D^*(2010)^+$ X

65	Asratyan 97	cs,p
131	Asratyan 97	cs,p

μ^- charged X

5 – 400	Burkot 96	p

$\rho^0\ \mu^-$ X

10 – 100	Zaetz 95	dme
10 – 200	Zaetz 95	dme

$K_S\ \mu^-$ X

10 – 300	Deprospo 94	mult,p,pt

$D^*(2010)^+\ \mu^-$ X

10 – 100	Asratyan 95	cs,p

$D_1(2420)^0\ \mu^-$ X

10 – 100	Asratyan 95	cs

$D_2^*(2460)^0\ \mu^-$ X

10 – 100	Asratyan 95	cs

ν_μ Ne

$D_{s1}(2536)^+\ \mu^-$ X

61.4	Asratyan 94	cs

$\Lambda\ \mu^-$ X

10 – 300	Deprospo 94	mult,p,pol,pt

$\bar{\Lambda}\ \mu^-$ X

10 – 300	Deprospo 94	mult,p,pt

$\Sigma^0\ \mu^-$ X

10 – 300	Deprospo 94	cs

$\pi^+\ \pi^-\ \mu^-$ X

10 – 100	Zaetz 95	ang,mass,p
10 – 200	Zaetz 95	ang,mass,p
10 – 300	Deprospo 94	angp,mass,p

$n\ \mu^-\ \gamma$ X

10 – 300	Deprospo 94	angp,mass,p

$\bar{n}\ \mu^-\ \gamma$ X

10 – 300	Deprospo 94	angp,mass,p

$p\ \pi^-\ \mu^-$ X

10 – 300	Deprospo 94	angp,mass,p

$\bar{p}\ \pi^+\ \mu^-$ X

10 – 300	Deprospo 94	angp,mass,p

$\Lambda\ \mu^-\ \gamma$ X

10 – 300	Deprospo 94	angp,mass,p

$K^*(892)^-\ K^+\ \mu^-\ \gamma$ X

61.4	Asratyan 94	mass

$K^*(892)^-\ K^+\ \pi^0\ \mu^-$ X

61.4	Asratyan 94	mass

$K^0\ K_S\ \pi^+\ \pi^0\ \mu^-$ X

61.4	Asratyan 94	mass

ν_μ Al

μ^- X

3 – 30	Anikeyev 95B	cs

ν_μ Fe

ν_μ X

10 – 160	Loverre 96	cs
30 – 600	Arroyo 94	const,cs

μ^- X

2 – 600	Kim 98	angp,const,p
10 – 160	Loverre 96	cs
30 – 600	Arroyo 94	const,cs
	Mallot 94	p
< 360	Seligman 97	const,p
	Seligman 97B	const,p
	Seligman 97C	const,p
< 600	Mcfarland 96	const,p

$\mu^-\ \mu^+$ X

< 600	Bazarko 95	const,p

ν_μ hadron (hadrons) X

165	Mcfarland 97	angp,const

μ^- hadron (hadrons) X

165	Mcfarland 97	angp,const

$\bar{\nu}_\mu\ e^-$

$e^-\ \bar{\nu}_\mu$

< 0.053	Gninenko 98	cs
19.1	Vilain 94	const,cs
	Vilain 94D	const,cs
	Vilain 93B	angp,const
20	Gninenko 98	angp
	Vilain 94C	angp

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$\overline{\nu}_\mu$ nucleon

μ^+ X		
3 – 30	Anikeyev 95	cs,p
	Anikeyev 95B	cs
6 – 28	Barabash 96B	angp,cs
20 – 600	Yang 96	angp,p
μ^+ hadron (hadrons)		
22.7	Altegoer 98C	angp,col,mult,p

$\overline{\nu}_\mu$ p

μ^+ X		
5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p
μ^+ charged X		
5 – 400	Burkot 96	p
ρ^0 μ^+ X		
10 – 150	Zaetz 95	dme
$D^*(2010)^-$ μ^+ X		
10 – 200	Asratyan 95	cs
π^+ π^- μ^+ X		
10 – 150	Zaetz 95	ang,mass,p
n μ^+		
20 – 30	Vilain 94B	cs,p

$\overline{\nu}_\mu$ nucleus

μ^+ X		
> 1	Ambrosio 98	p

$\overline{\nu}_\mu$ deuteron

μ^+ X		
10 – 250	Arneodo 92	a-dep,p,pt
ρ^0 μ^+ X		
10 – 260	Zaetz 95	dme
$D^*(2010)^-$ μ^+ X		
10 – 260	Asratyan 95	cs
p μ^+ X		
5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p
n μ^+ X		
5 – 160	Jones 94C	angp,p
	Jones 94D	angp,p
π^+ π^- μ^+ X		
10 – 260	Zaetz 95	ang,mass,p

$\overline{\nu}_\mu$ ^{12}C

^{12}C* $\overline{\nu}_\mu$		
< 0.035	Armbruster 94	cs
^{12}C* < ^{12}C 2γ > $\overline{\nu}_\mu$		
< 0.0528	Bodmann 94	cor,cs,p
	Kretschmer 94B	cor,cs,p

$\overline{\nu}_\mu$ Ne

μ^+ X		
10 – 250	Arneodo 92	a-dep,p,pt
μ^+ charged X		
5 – 400	Burkot 96	p
ρ^0 μ^+ X		
10 – 100	Zaetz 95	dme
10 – 200	Zaetz 95	dme
K_S μ^+ X		
10 – 300	Deprospo 94	mult,p,pt
$D^*(2010)^-$ μ^+ X		
10 – 100	Asratyan 95	cs,p
$\overline{D}_1(2420)^0$ μ^+ X		
10 – 100	Asratyan 95	cs
$\overline{D}_2^*(2460)^0$ μ^+ X		
10 – 100	Asratyan 95	cs

$\overline{\nu}_\mu$ Ne

$D_{s1}(2536)^-$ μ^+ X		
48.6	Asratyan 94	cs
Λ μ^+ X		
10 – 300	Deprospo 94	mult,p,pol,pt
$\overline{\Lambda}$ μ^+ X		
10 – 300	Deprospo 94	mult,p,pt
Σ^0 μ^+ X		
10 – 300	Deprospo 94	cs
π^+ π^- μ^+ X		
10 – 100	Zaetz 95	ang,mass,p
10 – 200	Zaetz 95	ang,mass,p
10 – 300	Deprospo 94	angp,mass,p
n μ^+ γ X		
10 – 300	Deprospo 94	angp,mass,p
$\overline{n}$ μ^+ γ X		
10 – 300	Deprospo 94	angp,mass,p
p π^- μ^+ X		
10 – 300	Deprospo 94	angp,mass,p
$\overline{p}$ π^+ μ^+ X		
10 – 300	Deprospo 94	angp,mass,p
Λ μ^+ γ X		
10 – 300	Deprospo 94	angp,mass,p
K^+ $\overline{K}^0$ π^0 $2\pi^-$ μ^+ X		
48.6	Asratyan 94	mass

$\overline{\nu}_\mu$ Al

μ^+ X		
3 – 30	Anikeyev 95B	cs

$\overline{\nu}_\mu$ Fe

$\overline{\nu}_\mu$ X		
30 – 600	Arroyo 94	const,cs
μ^+ X		
30 – 600	Arroyo 94	const,cs
	Mallot 94	p
< 360	Seligman 97	const,p
	Seligman 97B	const,p
	Seligman 97C	const,p
< 600	Mcfarland 96	const,p
μ^- μ^+ X		
< 600	Bazarko 95	const,p
$\overline{\nu}_\mu$ hadron (hadrons) X		
135	Mcfarland 97	angp,const
μ^+ hadron (hadrons) X		
135	Mcfarland 97	angp,const

ν_τ e^-

e^- ν_τ		
< 400	Gninenko 98	cs
	Babu 94	cs

ν_τ nucleon

τ^- X		
20	Danilov 94	cs
23.6	Altegoer 98B	cs,p

ν_τ nucleus

τ^- X		
25	Gregoire 97	cs
mult[htrack] mult[grey] X		
25	Aleshin 96	mult

$\overline{\nu}_\tau$ e^-

e^- $\overline{\nu}_\tau$		
< 400	Gninenko 98	cs

$e^\pm$ γ

$e^\pm$ X		
(> 1)	Kojima 97	angp
$e^\pm$ hadron (hadrons)		
(3 – 26)	Acciarri 98N	p
(3 – 35)	Acciarri 98R	angp,p

$e^\pm$ γ^*

e^- e^+ $e^\pm$		
(< 91.2)	Acciarri 98I	angp,p
μ^- μ^+ $e^\pm$		
(< 91.2)	Acciarri 98I	angp,p

$e^\pm$ nucleus

$2\pi^+$ X		
5	Degtyarenko 95	cor
π^+ π^- X		
5	Degtyarenko 95	cor
$2\pi^-$ X		
5	Degtyarenko 95	cor

$e^\pm$ ^{16}O

p π^+ X		
5.001	Degtyarenko 94B	cor
p π^- X		
5.001	Degtyarenko 94B	cor
2p X		
5	Degtyarenko 93	ang,cor,mass,pt
5.001	Degtyarenko 94B	cor
2p mult[p] X		
5	Degtyarenko 93	cor,mult

e^- γ

e^- X		
45.6	Akers 93G	angp,mass,p
(> 1)	Kojima 97	angp
(2.5 – 40)	Ackerstaff 96L	angp

e^- γ^*

e^- X		
25 – 30.7	Sahu 95	p
	Sahu 95B	p

e^- nucleon

$\Delta(1232\ P_{33})$ e^-		
0.5 – 0.52	Achasov 98D	cs
p π^0 e^-		
0.5 – 0.52	Achasov 98D	mass
p π^- e^-		
0.5 – 0.52	Achasov 98D	mass
n π^+ e^-		
0.5 – 0.52	Achasov 98D	mass
n π^0 e^-		
0.5 – 0.52	Achasov 98D	mass

e^- p

X		
(295)	Hessling 95	cs,et
	Derrick 93C	cs,et
(296)	Lohr 95	cs
ν X		
(296)	Jung 95	cs,pt
	Ahmed 94G	cs,pt
ν_e X		
(295)	Ahmed 94	et,p
(296)	Derrick 95D	angp,cs,p
	Haas 94	cs,pt

$e^- p$

ν_e X

(300)	Adloff 97B	angp,cs
	Aid 96L	angp,cs,p,pt
	Derrick 96I	cs,p

$e^\pm$ X

(295)	Ahmed 94	et,p

e^- X

5 – 21	Dasu 94	a-dep,angp,p
5.507	Stuart 98	angp,cs
9.7	Abe 98B	asym,p
	Abe 96ZC	p
9.8	Stuart 98	angp,cs
< 10	Tao 95	angp,p
16.19	Adeva 93B	p,pol
	Altarelli 93	p,pol
16.2	Abe 98B	asym,p
20	Adeva 93B	asym
	Altarelli 93	asym
22.66	Adeva 93B	p,pol
	Altarelli 93	p,pol
29.1	Abe 98B	asym,p
	Adeva 98B	angp,asym,p
	Abe 97ZL	asym,p
	Abe 95F	asym,p
	Abe 95ZL	asym,p
	Abe 95ZO	asym,p
	Breton 95	asym,p
	Ehrnsperger 95	angp,asym,p
38.8	Anthony 99	angp,p
(295)	Hessling 95	cs,et
	Burow 94	angp,cs
	Greenshaw 94	cs,p
	Kiesling 94	p
	Wolf 94	p
	Derrick 93C	cs,et
(295.4)	Levy 95	angp,p
	Derrick 94	angp,p
(296)	Ahmed 95B	p
	Aid 95C	angp,p
	Aid 95F	p
	Aid 95G	angp
	Derrick 95D	angp,cs,p
	Jung 95	p
	Levy 95	p
	Lohr 95	angp,cs,et,p
	Brisson 94	angp,p
	Brisson 94B	angp,p
	Dainton 94	p
	Deroeck 94	p
	Derrick 94D	p
	Derrick 94H	angp
	Haas 94	angp,p
	Harnew 94	cs,mass,pt
	Joensson 94	p
	Labarga 94	angp
	Mallot 94	p
	Abt 93B	p
	Krasny 93B	p
(300)	Tokushuku 98	angp,p
	Adloff 97B	angp,cs
	Adloff 97C	angp
	Adloff 97G	angp,p
	Aid 96L	angp,cs,p,pt
	Derrick 96I	cs,p
	Derrick 95N	const,cs,p

mult[jet] X

(300)	Derrick 96I	cs

mult[hadron] X

(296)	Jung 95	col,cs,pt

jet X

(296)	Harnew 94	cs,mass,p,pt

lepto-quark X

(295)	Ahmed 94	cs
	Barreiro 94	cs
	Greenshaw 94	cs
	Kiesling 94	cs
(296)	Brummer 96B	cs
	Derrick 96H	cs
	Brisson 94B	const,cs
	Harnew 94	cs

$e^- p$

lepto-quark X

	Krasny 93B	cs
(300)	Brummer 96B	cs
	Derrick 96H	cs
	Aid 95J	cs

heavy-ν_e X

(300)	Brummer 96	cs

X $\tilde{q}$

(295)	Ahmed 94	cs
	Feltesse 94	cs
	Greenshaw 94	cs
	Kiesling 94	cs

ν^* X

(295)	Ahmed 94B	cs
	Kiesling 94	cs
(296)	Brisson 94B	const,cs
	Derrick 94G	const,cs

$\overline{\nu}^*$ X

(295)	Ahmed 94B	cs

$e^{*\pm}$ X

(295)	Greenshaw 94	cs
	Kiesling 94	cs

e^{*-} X

(295)	Ahmed 94B	cs
	Feltesse 94	cs
(296)	Brisson 94B	const,cs
	Derrick 94G	const,cs
	Harnew 94	cs

e^{*+} X

(295)	Ahmed 94B	cs

q^* X

(295)	Greenshaw 94	cs
	Kiesling 94	cs
(296)	Brisson 94B	const,cs
	Derrick 94G	const,cs

lepton-colored X

(295)	Ahmed 94	cs
	Greenshaw 94	cs
	Kiesling 94	cs
(296)	Harnew 94	cs

D^* (unspec) X

(300)	Tokushuku 98	angp,pt

ν jet X

(300)	Aid 95J	cs,et,mass

e^- mult[charged] X

(296)	Jung 95	col,et,p

e^- charged X

(296)	Derrick 95C	angp,mult,p
	Derrick 95G	p,pt
	Derrick 95P	mult,p,pt
	Abt 94B	p,pt
	Abt 94C	angp,p,pt
	Kuhlen 94	cor,p,pt

e^- mult[jet] X

(296)	Levy 95	mult
	Abt 94	mult
	Krasny 93B	mult

e^- mult[hadron] X

(296)	Jung 95	p

ν_e jet X

(295)	Barreiro 94	angp,cor,et,p,pt

e^- jet X

(295)	Eisenberg 96	p,pt
	Hessling 95	et,pt
	Barreiro 94	cor,p,pt
	Derrick 94E	et,p
	Feltesse 94	cs,et,p
	Greenshaw 94	et,mass,p
	Kiesling 94	p
(296)	Aid 95D	cs,p,pt
	Aid 95I	angp,et,p
	Butterworth 95	et,p
	Levy 95	pt

$e^- p$

e^- jet X

	Ahmed 94E	angp,const,cs
	Brisson 94B	cs,p
	Deroeck 94	cs
	Harnew 94	cs,mass,p,pt
	Kuhlen 94	cor,et,p
	Labarga 94	et,p
	Krasny 93B	pt
(300)	Adloff 97J	et,p
	Aid 95J	cs,et,mass

ν_e hadron X

(295)	Greenshaw 94	cs,pt
	Kiesling 94	pt

e^- hadron X

(295)	Hessling 95	p
	Greenshaw 94	cs,pt
	Kiesling 94	p,pt
(296)	Harnew 94	angp,p

e^- hadron$^+$ X

(296)	Aid 95E	angp,mult,p

e^- hadron$^-$ X

(296)	Aid 95E	angp,mult,p

ν_e hadron (hadrons)

(296)	Aid 95B	angp,cs,pt

e^- hadron (hadrons)

9.71	Adeva 93B	angp,asym
12.95	Adeva 93B	angp,asym
16.18	Adeva 93B	angp,asym
(296)	Aid 96B	ang,angp,cor,p
	Derrick 94I	ang,cor,et,p
(300)	Adloff 97F	col

e^- charged-hadron X

(295)	Kniehl 94	p

$e^- \gamma$ X

(295)	Feltesse 94	cs,mass
(296)	Ahmed 95	et,p
	Derrick 94G	mass
	Harnew 94	cs,mass,pt

$\nu_e W^-$ X

(296)	Harnew 94	cs,mass,pt

$e^- W^+$ X

(296)	Derrick 94G	mass

$e^- Z^0$ X

(296)	Derrick 94G	mass
	Harnew 94	cs,mass,pt

μ^- jet X

(300)	Aid 95J	cs,et,mass

τ^- jet X

(300)	Aid 95J	cs,et,mass

K_S e^- X

(296)	Derrick 95H	mult,p,pt

e^- charm X

(296)	Brisson 94B	cs,p

e^- $\overline{\text{charm}}$ X

(296)	Brisson 94B	cs,p

D^0 e^- X

(300)	Adloff 96B	cs,pt

$\overline{D}^0$ e^- X

(300)	Adloff 96B	cs,pt

$D^*(2010)^+$ e^- X

(295)	Barreiro 94	cs,p,pt
(296)	Eisenberg 96	cs,p,pt
	Bargende 95	cs,p,pt
	Derrick 95	cs,p,pt
	Garbincius 95	cs,p,pt
	Brisson 94B	cs
(300)	Adloff 96B	cs,pt

$D^*(2010)^-$ e^- X

(295)	Barreiro 94	cs,p,pt
(296)	Eisenberg 96	cs,p,pt
	Bargende 95	cs,p,pt

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$e^- p$

$D^*(2010)^- e^- X$

	Derrick 95	cs,p,pt
	Garbincius 95	cs,p,pt
	Brisson 94B	cs
(300)	Adloff 96B	cs,pt

$J/\psi(1S) e^- X$

(295)	Gerhards 96	cs,pt
	Jung 95	cs,pt
	Ahmed 94D	cs,pt
(296)	Brisson 94B	cs

$p e^- X$

5 – 21.5	Bosted 93	angp,p
(296)	Derrick 96	angp,cs,mass,p
	Ahmed 95D	angp,p

$\Lambda e^- X$

(296)	Derrick 95H	mult,p,pt

2jet X

(296)	Derrick 94G	mass

hadron (hadrons) X

(295)	Barreiro 94	cor,et,p,pt
	Wolf 94	cs,et,p
(296)	Ahmed 94G	col,cs,pt
	Dainton 94	angp,col,et,mass,p
	Deroeck 94	angp,col,et,mass,p

γ jet X

(295)	Greenshaw 94	mass
(296)	Derrick 94G	mass

W^- jet X

(296)	Derrick 94G	mass

Z^0 jet X

(296)	Derrick 94G	mass

e^- charged (chargeds) X

(295)	Burow 94	angp,col
	Derrick 94E	ang,col,et,p
(296)	Lohr 95	ang,col,et,p
	Abt 94B	col,et,p

e^- (chargeds) jet X

(295)	Jung 95	ang,cor,et,mass,p,pt
	Derrick 94C	ang,cor,et,mass,p,pt
(296)	Lohr 95	ang,cor,et,mass,p,pt

e^- (jets) jet X

(296)	Bassler 95	et,p
	Nisius 95	angp
	Kuhlen 94	angp,const,cs

$e^\pm$ 2jet X

(295)	Ahmed 94	et,p

e^- 2jet X

(295)	Barreiro 94	cor,p,pt
	Feltesse 94	cs,et,p
(296)	Ahmed 95C	angp,et,p,pt
	Aid 95	angp,p,pt
	Butterworth 95	et,p
	Derrick 95E	angp,cs,p
	Ahmed 94E	angp,const,cs
	Colombo 94	angp,cor,et,p
	Dainton 94	cs,p
	Deroeck 94	cs
	Haas 94	cs,p
	Kuhlen 94	ang,angp,cs,p
	Labarga 94	et,p
(300)	Brummer 96	cs,p

ν_e hadron (hadrons) X

(295)	Feltesse 94	cs,pt

$e^- p$

e^- hadron (hadrons) X

(295)	Ahmed 94C	angp
	Barreiro 94	cor,p,pt
	Derrick 94F	et,mass,p,pt
	Feltesse 94	angp,col,p
(296)	Aid 95D	et,p
	Aid 95H	angp,et
	Bassler 95	p
	Lohr 95	p
	Ahmed 94H	p
	Brisson 94B	cor,et,p,pt
	Colombo 94	cor,p,pt
	Derrick 94B	p
	Derrick 94G	col,et,mass
	Labarga 94	cor,mass,p

$2e^- e^+ X$

(295)	Jung 95	cs,mass
	Ahmed 94D	cs,mass
(296)	Brisson 94B	mass
	Derrick 94G	mass
	Harnew 94	cs,mass,pt

μ^- hadron (hadrons) X

(296)	Derrick 96H	mass,pt
(300)	Derrick 96H	mass,pt

$\mu^- \mu^+ e^- X$

(295)	Grab 96	mass
	Jung 95	cs,mass
	Ahmed 94D	cs,mass
(296)	Brisson 94B	mass

τ^- hadron (hadrons) X

(296)	Derrick 96H	mass,pt
(300)	Derrick 96H	mass,pt

$e^- \bar{c} c X$

(296)	Eisenberg 96	cs,p,pt
	Bargende 95	cs,p,pt
	Derrick 95	cs,p,pt
	Garbincius 95	cs,p,pt

$D^0 \pi^+ e^- X$

(296)	Brisson 94B	mass

$\overline{D}^0 \pi^- e^- X$

(296)	Brisson 94B	mass

$p e^-$ jet X

(296)	Derrick 95K	et,p

$p e^-$ hadron (hadrons)

(296)	Aid 96B	ang,angp,cor,p
	Doeker 95	angp

γ hadron (hadrons) X

(296)	Derrick 94G	col,et,mass

e^- (chargeds) 2jet X

(295)	Jung 95	ang,cor,et,mass,p,pt
	Derrick 94C	ang,cor,et,mass,p,pt
(296)	Lohr 95	ang,cor,et,mass,p,pt

e^- (jets) 2jet X

(296)	Derrick 95B	et,p
	Nisius 95	const,et,p
	Deroeck 94	cs

e^- (hadrons) 2jet X

(295)	Derrick 94F	ang,cor,et,mass,p,pt

(K_S's) e^- 2jet X

(295)	Barreiro 94	cor,et,p

e^- 3jet X

(295)	Barreiro 94	cor,p,pt
	Feltesse 94	cs,et,p
(296)	Aid 95	angp,p,pt
	Derrick 95E	angp,cs,p
	Derrick 95J	angp,et,p,pt
	Haas 94	cs,p
(300)	Derrick 95N	const,cs,p

$e^- p$

e^- hadron (hadrons) jet X

(295)	Feltesse 94	cs,et,p

$e^\pm \gamma$ 2jet X

(295)	Ahmed 94B	mass

$K_S e^-$ hadron (hadrons) X

(296)	Derrick 95H	cor,mult,p,pt

$K^+ 2\pi^- e^- X$

(296)	Brisson 94B	mass

$K^- 2\pi^+ e^- X$

(296)	Brisson 94B	mass

nucleon e^- hadron (hadrons) X

(296)	Derrick 96	angp,cs,mass,p

$p e^-$ hadron (hadrons) X

(296)	Derrick 95I	cor,mass,p,pt

Λe^- hadron (hadrons) X

(296)	Derrick 95H	cor,mult,p,pt

e^- charged (chargeds) 2jet X

(296)	Aid 95I	angp,et,p

e^- (jets) 3jet X

(296)	Nisius 95	const,et,p

e^- 4jet X

(295)	Feltesse 94	cs,et,p

e^- hadron (hadrons) 2jet X

(295)	Barreiro 94	cor,et,p

$p e^-$

0.2	Mueller 97	angp,asym
0.58	Milbrath 97	angp,p,pol
0.855	Eyl 95	asym,pol
1.6 – 8.2	Walker 94	angp,p
2 – 5	Makins 94	angp
3.356	Aniol 98	asym,p
(295)	Barreiro 94	p

$\Delta(1232\, P_{33})^+ e^-$

0.51	Achasov 97	cs
3.2 – 4	Frolov 99	const
5.507	Stuart 98	angp,cs
9.8	Stuart 98	angp,cs

$p e^- \gamma$

2.015	Vandenbrandt 95	angp,p
(296)	Ahmed 95	et,p

DD < p > DD < γ^* > e^-

(300)	Adloff 97G	angp,p

$p \pi^0 e^-$

0.525	Vandenbrink 97	amp,angp
	Vandenbrink 95	angp
0.719	Mertz 99	ang,angp,mass
	Warren 98	ang,cs,mass,pol
0.799	Mertz 99	ang,angp,mass
0.855	Distler 98	angp
3.2 – 4	Frolov 99	ang,mass,p

$n \pi^+ e^-$

(1.125)	Blomqvist 96	angp,cs,p

$p \eta e^-$

3.245	Armstrong 98B	ang,const,cs,mass,p
4.045	Armstrong 98B	ang,const,cs,mass,p

$p \rho^0 e^-$

(295)	Feltesse 94	cs
(296)	Derrick 95L	ang,cs,dme,p,pt
(300)	Breitweg 97M	p
	Derrick 95R	cs,p

$p J/\psi(1S) e^-$

(295)	Gerhards 96	cs,pt

$e^- p$

$p\ J/\psi(1S)\ e^-$

(296)	Gerhards 96	cs,pt
	Grab 96	cs,pt
	Derrick 95F	cs,pt

$\Lambda\ K^+\ e^-$

2.445 – 4.045	Baker 98	angp,p
	Niculescu 98	angp,cs

$\Sigma^0\ K^+\ e^-$

2.445 – 4.045	Baker 98	angp,p

$p\ 2e^-\ e^+$

(295)	Lamberti 95	mass
	Barreiro 94	mass

$p\ \mu^-\ \mu^+\ e^-$

(295)	Grab 96	mass
	Garbincius 95	mass
	Lamberti 95	mass
	Barreiro 94	mass

$p\ \pi^+\ \pi^-\ e^-$

(295)	Lamberti 95	mass
	Barreiro 94	mass
	Burow 94	mass,pt
	Feltesse 94	mass
(296)	Aid 96	angp,mass,p
(300)	Breitweg 97M	mass,p
	Derrick 95R	mass

$p\ K^+\ K^-\ e^-$

(295)	Lamberti 95	mass
	Barreiro 94	mass
	Burow 94	mass,pt

$p\ \pi^+\ \pi^0\ \pi^-\ e^-$

(295)	Burow 94	mass,pt

$e^- n$

e^- X

9.7	Abe 96ZC	p
19 – 26	Mallot 94	asym,p
25.4	Roblin 95	asym,p
48.3	Adeva 98B	angp,asym,p
	Petratos 98	angp,p
	Abe 97ZF	asym,p
	Abe 97ZG	asym,p
	Abe 97ZL	asym,p

e^- nucleus

X millicharged

29.5	Prinz 98	cs

$\pi\ e^-$ X

14.5	Degtyarenko 94	angp,cs,p

$2\pi^+$ X

5	Degtyarenko 97	cor

$\pi^+\ \pi^-$ X

5	Degtyarenko 97	cor

$2\pi^-$ X

5	Degtyarenko 97	cor

$p\ \pi^-$ X

5	Degtyarenko 97	cor

$2p$ X

5	Degtyarenko 97	cor

$p\ \pi^-\ e^-$ X

14.5	Elouadrhiri 94	angp,mass,p

$2p\ e^-$ X

14.5	Degtyarenko 94	angp,mass,p

e^- deuteron

e^- X

2.02	Arrington 96	a-dep,cs,p
3	Arneodo 92	angp,p
3.191	Arrington 96	a-dep,cs,p
3.7 – 18	Seligman 97	const,p
	Seligman 97C	const,p
3.75 – 19.5	Arneodo 92	a-dep,angp,p

e^- deuteron

e^- X

4.21	Arrington 96	a-dep,cs,p
4.5 – 20	Arneodo 92	angp,p
5	Arneodo 92	angp,p
5 – 21	Dasu 94	a-dep,angp,p
5.121	Arrington 96	a-dep,cs,p
5.507	Stuart 98	angp,cs
6	Arneodo 92	angp,p
7	Arneodo 92	angp,p
8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p
9.7	Abe 98B	asym,p
	Adeva 98B	angp,asym,p
	Abe 96ZC	p
	Abe 95S	asym,p
9.77 – 18.51	Stuart 98	angp,cs
< 10	Tao 95	angp,p
16.2	Abe 98B	asym,p
	Adeva 98B	angp,asym,p
	Abe 95S	asym,p
29.1	Abe 98B	asym,p
	Adeva 98B	angp,asym,p
	Abe 97ZL	asym,p
	Abe 95S	asym,p
	Abe 95ZL	asym,p
	Abe 95ZO	asym,p
	Breton 95	asym,p
38.8	Anthony 99	angp,p

$K^+\ e^-$ X

2.445	Bailey 98	angp,mass,p
3.245	Bailey 98	angp,mass,p

$p\ e^-$ X

0.1005 – 0.7205	Ducret 94	angp,p,pt
0.292	Jordan 94	cs,pol
0.5	Dolfini 95	asym,pol
0.555 – 0.855	Anklin 98	angp
0.577	Jordan 94	cs,pol
2 – 5	Oneill 95	a-dep,angp

$n\ e^-$ X

0.555 – 0.855	Anklin 98	angp

deuteron e^-

0.3475 – 0.9135	Schmitt 97	angp,p
0.565	Zhou 98	asym,pol
	Ferroluzzi 96	amp,angp,cs,p
0.6535	Garson 94	angp,p,pol
0.704	Bouwhuis 98	pol
0.7555	Garson 94	angp,p,pol
0.8535	Garson 94	angp,p,pol
1.412 – 4.05	Abbott 98I	ang,const,cs,p
3.2 – 4.4	Alexa 98	angp

$p\ n\ e^-$

0.2927	Jordan 96	ang,angp,asym,p
0.3475 – 0.9135	Schmitt 97	angp,p
0.525	Pellegrino 97	angp,mass
0.576	Jordan 96	ang,angp,asym,p
0.5771	Jordan 96	ang,angp,asym,p
0.58	Milbrath 97	angp,p,pol
0.855	Eyl 95	asym,pol
0.868	Eden 94	asym,pol
1.602	Frommberger 94	ang,angp
2	Theunissen 94	asym
2 – 5	Bulten 95	angp,p

p(spect) $n\ e^-$

0.4509	Anklin 94	cs
0.4577	Anklin 94	cs
0.9 – 1.6	Bruins 95	cs,p

n(spect) $p\ e^-$

0.4509	Anklin 94	cs
0.4577	Anklin 94	cs
0.9 – 1.6	Bruins 95	cs,p

e^- deuteron

$2p\ \pi^-\ e^-$

2	Loginov 98	angp,mass,pol

$e^-\ {}^3\mathrm{H}$

${}^3\mathrm{H}\ e^-$

0.1 – 0.75	Retzlaff 94	angp,p
0.189 – 0.689	Amroun 94	angp

$e^-\ {}^3\mathrm{He}$

e^- X

0.37	Jones 95	angp,asym
	Hansen 94	angp,asym,p
19.4	Adeva 93B	pol
	Altarelli 93	pol
19.4 – 25.5	Ehrnsperger 95	angp,asym,p
19.42	Anthony 96	asym,p,pol
	Dunne 94	asym,p
22.66	Anthony 96	asym,p,pol
22.7	Dunne 94	asym,p
	Adeva 93B	pol
	Altarelli 93	pol
25.4	Roblin 95	asym,p
	Petratos 93	asym,p
25.5	Dunne 94	asym,p
	Adeva 93B	pol
	Altarelli 93	pol
25.51	Anthony 96	asym,p,pol
48.3	Adeva 98B	angp,asym,p
	Petratos 98	angp,p
	Abe 97ZF	asym,p
	Abe 97ZG	asym,p
	Abe 97ZL	asym,p

$p\ e^-$ X

0.396	Legoff 97	p,pt
0.67	Legoff 97	p,pt

${}^3\mathrm{He}\ e^-$

0.1 – 0.75	Retzlaff 94	angp,p
0.189 – 0.689	Amroun 94	angp

deuteron $p\ e^-$

0.37	Spaltro 98	angp,p
0.396	Legoff 97	p,pt
0.576	Spaltro 98	angp,p
0.67	Legoff 97	p,pt

${}^3\mathrm{H}\ \pi^+\ e^-$

0.555	Blomqvist 97	angp
	Blomqvist 96B	angp,cs,mass,p,pol
0.6	Blomqvist 97	angp
	Blomqvist 96B	angp,cs,mass,p,pol
0.675	Blomqvist 97	angp
	Blomqvist 96B	angp,cs,mass,p,pol
0.855	Blomqvist 97	angp
	Blomqvist 96B	angp,cs,mass,p,pol

$2p\ n\ e^-$

0.37	Hansen 95	angp,asym
	Gao 94	angp,asym
	Gao 94B	angp,asym,p
0.396	Legoff 97	p,pt
0.67	Legoff 97	p,pt
0.855	Meyerhoff 94	asym

deuteron $n\ \pi^+\ e^-$

0.555	Blomqvist 96B	angp,cs,mass,p,pol
0.6	Blomqvist 96B	angp,cs,mass,p,pol
0.675	Blomqvist 96B	angp,cs,mass,p,pol
0.855	Blomqvist 96B	angp,cs,mass,p,pol

$3p\ \pi^-\ e^-$

0.555	Blomqvist 96B	angp,cs,mass,p,pol
0.6	Blomqvist 96B	angp,cs,mass,p,pol

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^-\ {}^3He$

$3p\ \pi^-\ e^-$

0.675	Blomqvist 96B	angp,cs,mass,p,pol
0.855	Blomqvist 96B	angp,cs,mass,p,pol

$p\ 2n\ \pi^+\ e^-$

0.555	Blomqvist 96B	angp,cs,mass,p,pol
0.6	Blomqvist 96B	angp,cs,mass,p,pol
0.675	Blomqvist 96B	angp,cs,mass,p,pol
0.855	Blomqvist 96B	angp,cs,mass,p,pol

$e^-\ {}^4He$

e^- X

0.091 – 0.193	Buki 95	angp
0.3 – 0.64	Zghiche 94	angp
0.813	Kuplennikov 95	angp,p
1.169	Kuplennikov 95	angp,p
	Kuplennikov 94	angp,p
1.203	Kuplennikov 95	angp,p

$p\ e^-$ X

0.5	Legoff 94	angp,p
0.5255	Vanleeuwe 98B	angp,p

$\Delta(1232\ P_{33})\ e^-$ X

1.169	Kuplennikov 94	angp,p

deuteron e^- X

0.466	Ent 94	angp,p

2deuteron e^-

0.466	Ent 94	angp,p

${}^3H\ p\ e^-$

0.22 – 0.69	Vanleeuwe 98	angp
0.525	Vanleeuwe 96	angp

deuteron $p\ n\ e^-$

0.466	Ent 94	angp,p

e^- He

e^- X

8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p

$e^-\ {}^6Li$

$p\ e^-$ X

0.134	Hotta 98	angp,p

deuteron e^- X

0.466	Ent 94	angp,p

${}^4He$ deuteron e^-

0.466	Ent 94	angp,p

${}^4He^*$ deuteron e^-

0.466	Ent 94	angp,p

e^- Be

e^- X

8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p
< 10	Tao 95	angp,p
13	Arneodo 92	angp,p
20	Arneodo 92	angp,p

$e^-\ {}^{11}Bor$

${}^{11}Be\ \pi^+\ e^-$

0.2005	Yamaya 95	angp,p

e^- C

e^- X

2.02	Arrington 96	a-dep,cs,p
3.191	Arrington 96	a-dep,cs,p
4.045	Arrington 98	angp
4.21	Arrington 96	a-dep,cs,p
5.121	Arrington 96	a-dep,cs,p
8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p

e^- C

e^- X

	Arneodo 92	a-dep,angp,p

γ X

25	Anthony 95	p

$p\ e^-$ X

2 – 5	Oneill 95	a-dep,angp
	Makins 94	angp,p
2.45 – 3.25	Abbott 98O	a-dep,angp

$e^-\ {}^{12}C$

e^- X

1.45 – 2.39	Vartapetyan 95	angp,p
29	Abe 98ZF	angp

$p\ e^-$ X

0.129	Tadokoro 94	angp,p
0.475	Kester 95	angp
0.579	Woo 97	angp,pol
0.696	Morrison 98	amp,angp,cs,p
0.796	Morrison 98	amp,angp,cs,p
1.6	Alanakyan 97	angp
1.94	Alanakyan 98	angp,p
2.06	Alanakyan 97	angp

$2p\ e^-$ X

0.475	Kester 95B	angp
0.705	Blomqvist 98	ang,angp,p

${}^{10}Bor$ deuteron e^-

0.466	Ent 94	angp,p

${}^{11}Bor\ p\ e^-$

0.576	Holtrop 97	angp,p

$e^-\ {}^{16}O$

e^- X

0.5 – 1.5	Anghinolfi 95	angp
0.5005 – 1.5	Anghinolfi 96	angp,p

$2\pi^+$ X

5	Doroshkevich 98	cor,pt

$\pi^+\ \pi^-$ X

5	Doroshkevich 98	cor,pt

$2\pi^-$ X

5	Doroshkevich 98	cor,pt

$p\ \pi^+$ X

5	Doroshkevich 98	cor,pt

$p\ \pi^-$ X

5	Doroshkevich 98	cor,pt

$2p$ X

5	Doroshkevich 98	cor,pt

e^- Al

e^- X

3	Arneodo 92	angp,p
4.5 – 20	Arneodo 92	angp,p
5	Arneodo 92	angp,p
6	Arneodo 92	angp,p
7	Arneodo 92	angp,p
8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p
13	Arneodo 92	angp,p
20	Arneodo 92	angp,p

$e^-\ {}^{40}Ar$

e^- X

0.5 – 1.5	Anghinolfi 95	angp

e^- Ca

e^- X

8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p

$e^-\ {}^{40}Ca$

e^- X

0.13 – 0.84	Williamson 97	angp,p

e^- Fe

e^- X

2.02	Arrington 96	a-dep,cs,p
3.191	Arrington 96	a-dep,cs,p
3.7 – 18	Seligman 97	const,p
	Seligman 97C	const,p
3.75 – 19.5	Arneodo 92	a-dep,angp,p
4.045	Arrington 98	angp
4.21	Arrington 96	a-dep,cs,p
5 – 21	Dasu 94	a-dep,angp,p
5.121	Arrington 96	a-dep,cs,p
8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p

$p\ e^-$ X

2 – 5	Oneill 95	a-dep,angp
2.45 – 3.25	Abbott 98O	a-dep,angp

e^- Cu

e^- X

13	Arneodo 92	angp,p
20	Arneodo 92	angp,p

e^- Ag

e^- X

8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p

e^- Wt

X millicharged

29.5	Jaros 95	cs

e^- Au

e^- X

2.02	Arrington 96	a-dep,cs,p
3.191	Arrington 96	a-dep,cs,p
3.75 – 19.5	Arneodo 92	a-dep,angp,p
4.045	Arrington 98	angp
4.21	Arrington 96	a-dep,cs,p
5 – 21	Dasu 94	a-dep,angp,p
5.121	Arrington 96	a-dep,cs,p
8 – 24.5	Gomez 93	a-dep,p
	Arneodo 92	a-dep,angp,p
13	Arneodo 92	angp,p
20	Arneodo 92	angp,p

γ X

8	Anthony 95	p
25	Anthony 95	p

$p\ e^-$ X

2 – 5	Oneill 95	a-dep,angp
2.45 – 3.25	Abbott 98O	a-dep,angp

$e^-\ {}^{197}Au$

fragt X

3	Markaryan 95	angp,p

$e^-\ {}^{208}Pb$

e^- X

0.262 – 0.645	Zghiche 94	angp

$e^+\ \gamma$

e^+ X

45.6	Akers 93G	angp,mass,p
(> 1)	Kojima 97	angp
(2.5 – 40)	Ackerstaff 96L	angp

$e^+\ e^-$

mult[hadron]

(91.2)	Acciarri 95E	ang,col,p

ℓ^- X

(88.2 – 94.2)	Behnke 95	col,pt
	Buskulic 94D	col,pt

ℓ^+ X

(88.2 – 94.2)	Behnke 95	col,pt

$e^+ e^-$

ℓ^+ X

	Buskulic 94D	col,pt

e^- X

(10.58)	Artuso 97	cs,p
(58)	Aso 95	angp,p,pt
	Aso 95B	angp,cs,p,pt
	Sakuda 93	p,pt
(91.2)	Ackerstaff 96L	angp

e^+ X

(10.58)	Artuso 97	cs,p
(58)	Aso 95	angp,p,pt
	Aso 95B	angp,cs,p,pt
	Sakuda 93	p,pt
(91.2)	Ackerstaff 96L	angp

μ^- X

(10.58)	Artuso 97	cs,p
(58)	Aso 95	angp,p,pt
	Aso 95B	angp,cs,p,pt

μ^+ X

(10.58)	Artuso 97	cs,p
(58)	Aso 95	angp,p,pt
	Aso 95B	angp,cs,p,pt

$\tau^\pm$ X

(9 – 11.5)	Danilov 94	cs

τ^- X

(3 – 4)	Danilov 94	cs
(3 – 8.4)	Danilov 94	cs
(9 – 11.5)	Danilov 94	cs
(9 – 12)	Danilov 94	cs
(14 – 47.3)	Danilov 94	cs
(29)	Danilov 94	cs
(91.2)	Danilov 94	cs

(chargeds) X

(91.2)	Batyunya 97	mass,pt

mult[charged] X

(91.2)	Buskulic 95M	mult,p
(130 – 136)	Abreu 96R	col,mult,p

charged X 0bottom

(91.2)	Akers 93H	mult

charged X 0bottom 0charm

(91.2)	Akers 95I	mult
	Behnke 95	col,p

charged X

(14)	Goulianos 94	mult,p
(22)	Goulianos 94	mult,p
(29)	Goulianos 94	mult,p
(34)	Goulianos 94	mult,p
(52 – 57)	Abreu 96Y	const,p,pt
(58)	Itoh 94	p
(91.2)	Ackerstaff 98P	p
	Abreu 96ZD	p,pt
	Behnke 95	mult
	Buskulic 95M	mult,p
	Buskulic 95X	angp,const,p,pt
(91.55)	Abe 94ZC	mult
(130)	Buskulic 97	mult,p
	Abreu 96T	mult,p
(130 – 136)	Alexander 96L	angp,col,const,mass,mult,p,pt
(133 – 136)	Abreu 96R	mult,p
(136)	Buskulic 97	mult,p
	Abreu 96T	mult,p
(140)	Abreu 96T	mult,p
(161)	Abreu 97N	mult
	Ackerstaff 97J	const,mult,p
(172)	Abreu 97N	mult
(172.1)	Ackerstaff 97T	mult,p

mult[charged] (neutrals)

(14 – 46.8)	Dremin 94	mult
(29)	Dremin 94	mult
(91)	Dremin 94	mult
(91.2)	Abe 96ZB	col,cor,mult
	Abe 94ZB	mult,p
	Dremin 94	mult
	Akers 93J	col,cor,pt
(91.25)	Dremin 94	mult

$e^+ e^-$

mult[charged] (neutrals)

(183)	Abbiendi 98L	col,mult,p

mult[jet] X

(161)	Ackerstaff 97J	col,const,p

mult[charged-hadron] X

(183)	Acciarri 98Z	mult

multicharged X

(91.2)	Akers 95H	cs

jet X

(58)	Adachi 99	angp,cs,et,mass,p
(130 – 136)	Alexander 96L	angp,col,const,mass,mult,p,pt
(161)	Ackerstaff 97J	const,mult,p

(neutrals) jet

(91.2)	Alexander 96H	ang,angp,pt

hadron X

(14)	Goulianos 94	mult,p
(22)	Goulianos 94	mult,p
(29)	Goulianos 94	mult,p
(34)	Goulianos 94	mult,p
(130.3)	Acciarri 95N	mult
(136.3)	Acciarri 95N	mult

hadron (hadrons)

(1.82 – 2.44)	Gauzzi 94	cs
(3.08 – 3.11)	Bai 95B	cs
(7.23 – 10.34)	Baru 96	cs
(9.46)	Albrecht 94G	cs
(10.45)	Albrecht 94G	cs
(10.58)	Albrecht 94G	cs
(90.5 – 91.5)	Alexander 98B	col,cs,p,pt

charged-hadron X

(29)	Abreu 96Y	const,p
(52 – 57)	Abreu 96Y	const,p,pt
(58)	Itoh 94	p
(91.2)	Abreu 97K	angp,const,mult,p
	Abreu 96Y	const,p
	Wilson 96	angp,p
	Akers 95L	angp,p
	Padilla 95	p
(91.25)	Abreu 96Y	const,p,pt
(172.1)	Ackerstaff 97T	mult,p
(183)	Acciarri 98Z	const,p

X heavy

(91.2)	Akers 95H	cs

γ X

(91.2)	Ackerstaff 98I	mult,p

γ mult[hadron]

(91.2)	Acciarri 95E	ang,col,p

q X

(91.2)	Akers 95H	cs

$\bar{q}$ X

(91.2)	Akers 95H	cs

$\pi^\pm$ X

(91.2)	Barate 97ZC	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

π^+ X

(58)	Itoh 94	p
(91.2)	Abe 98L	p
	Abreu 98O	p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

π^0 X

(10.35)	Butler 93	mass
(91.2)	Ackerstaff 98I	mult,p
	Barate 96	cs,mult,p
	Adam 95	p
	Becattini 95	mult,p

$e^+ e^-$

π^0 X

	Acciarri 94B	mult,p

π^- X

(58)	Itoh 94	p
(91.2)	Abe 98L	p
	Abreu 98O	p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

η X

(10.6)	Browder 97	–
(91.2)	Ackerstaff 98I	mult,p
	Becattini 95	mult,p
	Acciarri 94B	mult,p

ρ^+ X

(91.2)	Ackerstaff 98I	mult,p

ρ^0 X

(9.46)	Albrecht 94G	angp,cs,p
(10.45)	Albrecht 94G	angp,cs,p
(10.58)	Albrecht 94G	angp,cs,p
(91.2)	Abreu 98S	cs,mult,p
	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p

ρ^- X

(91.2)	Ackerstaff 98I	mult,p

ω X

(9.46)	Albrecht 94G	angp,cs,p
(10.45)	Albrecht 94G	angp,cs,p
(10.58)	Albrecht 94G	angp,cs,p
(88.4 – 93.7)	Acciarri 96M	cs,mult,p
(91.2)	Ackerstaff 98I	mult,p
	Abreu 96ZD	p,pt
	Becattini 95	mult,p

η' X

(10.6)	Browder 98	p
(88.4 – 93.7)	Acciarri 96M	cs,mult,p
(91.2)	Ackerstaff 98I	mult,p
	Becattini 95	mult,p

$f_0(980)$ X

(91.2)	Abreu 98S	cs,mult,p
	Ackerstaff 98B	cs,p
	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p

$a_0(980)^+$ X

(91.2)	Ackerstaff 98I	mult,p

$a_0(980)^-$ X

(91.2)	Ackerstaff 98I	mult,p

$f_2(1270)$ X

(91.2)	Abreu 98S	cs,mult,p
	Ackerstaff 98B	cs,p
	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p

$f_2'(1525)$ X

(91.2)	Abreu 98S	cs,mult,p
	Abreu 96E	cs,p

$K^\pm$ X

(91.2)	Barate 99F	p
	Barate 97ZC	mult,p
	Abreu 95V	angp
	Akers 94C	cs,p
	Buskulic 94N	p

K^+ X

(58)	Itoh 94	p
(91.2)	Abe 98L	p
	Abreu 98O	p
	Abreu 96ZD	p,pt
	Abreu 95D	mult,p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

K^0 X

(91.2)	Abe 98L	p
	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p
	Buskulic 94M	mult,p,pt

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$e^+ e^-$

$\overline{K}^0$ X

(91.2)	Abe 98L	p
	Abreu 96ZD	p,pt

K^- X

(58)	Itoh 94	p
(91.2)	Abe 98L	p
	Abreu 98O	p
	Abreu 96ZD	p,pt
	Abreu 95D	mult,p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

K_S X 0bottom 0charm

(91.2)	Behnke 95	col,p

K_S X

(58)	Itoh 94	p
(91.2)	Acciarri 97G	mult,p
	Becattini 95	mult,p
	Acciarri 94B	mult,p
	Buskulic 94M	mult,p,pt

K_L X

(91.2)	Abreu 95V	angp,p
	Buskulic 94M	mult,p,pt

$K^*(892)^+$ X

(9.46)	Albrecht 94G	angp,cs,p
(10.45)	Albrecht 94G	angp,cs,p
(10.58)	Albrecht 94G	angp,cs,p
(91.2)	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p

$K^*(892)^0$ X

(9.46)	Albrecht 94G	angp,cs,p
(10.45)	Albrecht 94G	angp,cs,p
(10.58)	Albrecht 94G	angp,cs,p
(91.2)	Abe 98L	p
	Ackerstaff 97X	angp,p
	Abreu 96ZD	p,pt

$\overline{K}^*(892)^0$ X

(91.2)	Abe 98L	p
	Ackerstaff 97X	angp,p
	Abreu 96ZD	p,pt

$K^*(892)^-$ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 94Q	mult,p

$K_2^*(1430)^0$ X

(91.2)	Abreu 98S	cs,mult,p

$\overline{K}_2^*(1430)^0$ X

(91.2)	Abreu 98S	cs,mult,p

$\phi(1020)$ X

(91.2)	Abe 98L	p
	Ackerstaff 98B	cs,p
	Abreu 96E	cs,p
	Abreu 96ZD	p,pt
	Ackerstaff 96R	p

charm X

(58)	Sakuda 93	cs,p

$\overline{\text{charm}}$ X

(58)	Sakuda 93	cs,p

D^+ X + D^- X

(88.2 – 94.2)	Abreu 93G	p
(91.2)	Behnke 95	p

D^+ X

(9 – 12)	Semenov 96	cs
(9.4 – 10.6)	Albrecht 94J	cs
(10.35)	Freyberger 94	–
(10.5)	Bishai 97	–
(10.52 – 10.58)	Freyberger 94	–
(10.58)	Jessop 97B	–
	Freyberger 94	–
(10.6)	Bartelt 97	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Barate 98K	angp
	Abe 95ZQ	angp,asym
	King 94	asym,p

$e^+ e^-$

D^+ X

(92.26)	Barate 98K	angp

D^0 X + $\overline{D}^0$ X

(88.2 – 94.2)	Abreu 93G	p
(91.2)	Behnke 95	p

D^0 X

(9 – 11.5)	Danilov 94	cs
(9 – 12)	Semenov 96	cs
	Danilov 94	cs
(9.3 – 10.6)	Semenov 94	cs
(9.4 – 10.6)	Albrecht 94J	cs
(10 – 10.6)	Albrecht 95E	–
	Ressing 95	–
(10.4)	Albrecht 94L	–
	Litvintsev 94	cs
(10.52 – 10.58)	Freyberger 94	–
(10.58)	Barish 96	–
(10.6)	Asner 98	p
	Bartelt 95	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Ackerstaff 98D	cs,p
	Barate 98K	angp
	Barate 97H	p
(92.26)	Barate 98K	angp
(< 120)	Danilov 94	cs

$\overline{D}^0$ X

(10 – 10.6)	Albrecht 95E	–
	Ressing 95	–
(10.4)	Albrecht 94L	–
(10.58)	Barish 96	–
(10.6)	Bartelt 95	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Ackerstaff 98D	cs,p
	Barate 98K	angp
	Barate 97H	p
(92.26)	Barate 98K	angp

D^- X

(10.5)	Bishai 97	–
(10.58)	Jessop 97B	–
(10.6)	Bartelt 97	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Barate 98K	angp
	King 94	asym,p
(92.26)	Barate 98K	angp

$D^*(2010)^+$ X

(9 – 12)	Danilov 94	cs
(9.3 – 10.6)	Semenov 96B	cs
	Semenov 94	cs
(10)	Albrecht 94N	–
(10 – 10.6)	Ressing 95	–
(10.4)	Albrecht 94L	–
	Litvintsev 94	–
(10.5)	Brandenburg 98	p
(10.52 – 10.58)	Kubota 95	–
	Freyberger 94	–
(10.52 – 10.7)	Balest 94	–
(10.56)	Spaan 96	–
(10.58)	Butler 95	–
	Cinabro 93B	cs
(10.6)	Bartelt 97B	–
	Freyberger 96	–
	Bartelt 95	–
(58)	Sakuda 93	angp,cs
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Barate 98K	angp
	Barate 98P	–
	Barate 97H	cs
	Ackerstaff 96R	p
	Abe 95ZQ	angp,asym
	Buskulic 95J	p
	King 94	asym,p
(92.26)	Barate 98K	angp

$e^+ e^-$

$D^*(2010)^+$ X + $D^*(2010)^-$ X

(88.2 – 94.2)	Abreu 93G	p
(91.2)	Behnke 95	p

$D^*(2010)^-$ X

(10)	Albrecht 94N	–
(10 – 10.6)	Ressing 95	–
(10.4)	Albrecht 94L	–
(10.5)	Brandenburg 98	p
(10.52 – 10.58)	Kubota 95	–
(10.56)	Spaan 96	–
(10.58)	Butler 95	–
(10.6)	Bartelt 97B	–
	Freyberger 96	–
	Bartelt 95	–
(58)	Sakuda 93	angp,cs
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(89.37)	Barate 98K	angp
(91.2)	Barate 98K	angp
	Barate 98P	–
	Barate 97H	cs
	Ackerstaff 96R	p
	Buskulic 95J	p
	King 94	asym,p
(92.26)	Barate 98K	angp

$D^*(2007)^0$ X

(9 – 12)	Danilov 94	cs
(10)	Albrecht 94N	–
(10.6)	Brown 94	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Ackerstaff 98D	cs,p

$\overline{D}^*(2007)^0$ X

(10)	Albrecht 94N	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Ackerstaff 98D	cs,p

D_s^+ X

(9 – 12)	Semenov 96	cs
(10.35 – 10.58)	Muheim 93B	cs
(10.52 – 10.58)	Freyberger 94	–
(10.58)	Chadha 97	–
	Jessop 97B	–
(10.6)	Balest 97	–
	Brandenburg 95	–
	Butler 94	–

D_s^- X

(10.58)	Chadha 97	–
	Jessop 97B	–
(10.6)	Balest 97	–
	Brandenburg 95	–

D_s^* X

(10.6)	Acosta 93	–

D_s^{*+} X

(10.35 – 10.58)	Bartelt 96B	–
(10.6)	Gronberg 95	–
	Brown 94	–
(91.2)	Ackerstaff 98D	cs,p

D_s^{*-} X

(10.35 – 10.58)	Bartelt 96B	–
(10.6)	Gronberg 95	–
(91.2)	Ackerstaff 98D	cs,p

$D_1(2420)^+$ X

(9.3 – 10.6)	Semenov 96B	cs,mass,p
(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Furtjes 96	cs,p
	Bergfeld 94B	cs,p

$D_1(2420)^0$ X

(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Avery 94	cs
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Abreu 98D	cs
	Ackerstaff 97Y	p

$\overline{D}_1(2420)^0$ X

(10.35 – 10.58)	Bartelt 96B	–

$e^+ e^-$

$\overline{D}_1(2420)^0$ X

(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Abreu 98D	cs
	Ackerstaff 97Y	p

$D_1(2420)^-$ X

(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Furtjes 96	cs,p
	Bergfeld 94B	cs,p

$D_2^*(2460)$ X

(9.3 – 10.6)	Semenov 96B	cs,mass,p

$D_2^*(2460)^+$ X

(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Furtjes 96	cs,p
	Bergfeld 94B	cs,p

$D_2^*(2460)^0$ X

(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Avery 94	cs
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Abreu 98D	cs
	Ackerstaff 97Y	p

$\overline{D}_2^*(2460)^0$ X

(10.35 – 10.58)	Bartelt 96B	–
(88.3 – 94.3)	Behnke 95	cs,p
	Buskulic 93P	cs,p
(91.2)	Abreu 98D	cs
	Ackerstaff 97Y	p

$D_2^*(2460)^-$ X

(10.35 – 10.58)	Bartelt 96B	–
(10.58)	Furtjes 96	cs,p
	Bergfeld 94B	cs,p

$D_{s1}(2536)^+$ X

(9 – 12)	Danilov 94	cs
(10.35 – 10.58)	Bartelt 96B	–
(91.2)	Ackerstaff 97Y	p

$D_{s1}(2536)^-$ X

(10.35 – 10.58)	Bartelt 96B	–
(91.2)	Ackerstaff 97Y	p

$D^*(2600)^+$ X

(91.2)	Abreu 98D	cs

$D^*(2600)^-$ X

(91.2)	Abreu 98D	cs

$D_{sJ}(2564)^+$ X

(9 – 12)	Danilov 94	cs

$D_{sJ}(2573)$ X

(9.3 – 10.6)	Semenov 96B	cs

$D_{sJ}(2573)^+$ X

(10 – 10.6)	Albrecht 95D	cs,p
(10.35 – 10.58)	Bartelt 96B	–
	Kubota 94	cs

$D_{sJ}(2573)^-$ X

(10 – 10.6)	Albrecht 95D	cs,p
(10.35 – 10.58)	Bartelt 96B	–

$J/\psi(1S)$ X

(91.2)	Abreu 95O	cs
	Alexander 95E	cs,mult,p
	Abreu 94M	cs

$\chi_{c1}(1P)$ X

(91.2)	Abreu 94M	cs

$\psi(2S)$ X

(4.03)	Bai 98B	angp,cs
(91.2)	Abreu 95O	cs
	Alexander 95E	cs,mult,p
	Abreu 94M	cs

bottom X

(58)	Sakuda 93	cs,p
(88.2 – 94.2)	Abreu 94F	cs
(91.2)	Acciarri 97W	p
	Abreu 96L	–

$e^+ e^-$

bottom X + $\overline{\text{bottom}}$ X

(88.2 – 94.2)	Buskulic 95E	p

$\overline{\text{bottom}}$ X

(58)	Sakuda 93	cs,p
(91.2)	Acciarri 97W	p
	Abreu 96L	–

B X

(9 – 12)	Semenov 96	cs
(88.2 – 94.2)	Luke 93	–
(91.2)	Abe 98H	p
	Abreu 98	–
	Abreu 98C	–
	Abe 97U	p
	Abreu 96C	–
	Acciarri 95D	cs
	Alexander 95E	p

B^+ X

(10.58)	Jessop 97	–
(10.6)	Bergfeld 98	–
	Anastassov 97	–
(88.3 – 94.3)	Buskulic 93D	cs
(91.2)	Abe 97B	–
	Ackerstaff 97ZH	cs
	Abe 96T	–
	Abe 96U	–
	Abe 96ZE	–
	Abe 96ZF	–
	Buskulic 96V	–
	Zachariadou 96	–
	Abe 95ZN	–
	Abreu 95L	–
	Adam 95B	–
	Akers 95R	–
	Alexander 95C	p
	Alexander 95E	p
	Buskulic 95L	p

B^+ X + B^- X

(10.58)	Smith 98	p

B^0 X

(9 – 12)	Semenov 96	cs
(9.3 – 10.6)	Semenov 96	cs
(10.58)	Jessop 97	–
	Alam 94C	p
	Ammar 93B	–
(10.6)	Bergfeld 98	–
	Nemati 97	–
(88.3 – 94.3)	Buskulic 93D	cs
(91)	Abreu 95E	cs
(91.2)	Abe 97B	–
	Ackerstaff 97ZH	cs
	Abe 96T	–
	Abe 96U	–
	Abe 96ZE	–
	Abe 96ZF	–
	Abreu 96C	–
	Adam 96D	–
	Buskulic 96S	–
	Buskulic 96V	–
	Buskulic 96W	–
	Checchia 96	–
	Zachariadou 96	–
	Abe 95ZN	–
	Abreu 95L	–
	Adam 95B	–
	Akers 95R	–
	Alexander 95C	p
	Alexander 95E	p
	Buskulic 95L	p

B^0 X + $\overline{B}^0$ X

(10.58)	Smith 98	p

$\overline{B}$ X

(91.2)	Abe 98H	p
	Abreu 98	–
	Abreu 98C	–
	Abe 97U	p
	Abreu 96C	–
	Alexander 95E	p

$\overline{B}^0$ X

(10.58)	Jessop 97	–
	Alam 94C	p

$e^+ e^-$

$\overline{B}^0$ X

	Athanas 94	p
(10.6)	Bergfeld 98	–
	Nemati 97	–
(88.3 – 94.3)	Buskulic 93D	cs
(91.2)	Abe 97B	–
	Ackerstaff 97ZH	cs
	Abe 96T	–
	Abe 96U	–
	Abe 96ZE	–
	Abe 96ZF	–
	Abreu 96C	–
	Adam 96D	–
	Buskulic 96S	–
	Buskulic 96V	–
	Buskulic 96W	–
	Checchia 96	–
	Zachariadou 96	–
	Abe 95ZN	–
	Abreu 95L	–
	Adam 95B	–
	Akers 95R	–
	Alexander 95C	p
	Alexander 95E	p
	Buskulic 95L	p
	Buskulic 95S	–

B^- X

(10.58)	Jessop 97	–
	Alam 94C	p
	Athanas 94	p
(10.6)	Bergfeld 98	–
	Anastassov 97	–
(88.3 – 94.3)	Buskulic 93D	cs
(91)	Abreu 95E	cs
(91.2)	Abe 97B	–
	Ackerstaff 97ZH	cs
	Abe 96T	–
	Abe 96U	–
	Abe 96ZE	–
	Abe 96ZF	–
	Buskulic 96V	–
	Zachariadou 96	–
	Abe 95ZN	–
	Abreu 95L	–
	Adam 95B	–
	Akers 95R	–
	Alexander 95C	p
	Alexander 95E	p
	Buskulic 95L	p

B(unspec) X

(91.2)	Semenov 96	cs

B^* X

(91.2)	Sciolla 96	–
	Semenov 96	cs
	Acciarri 95D	cs

B^{*+} X

(91.2)	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p
	Abreu 95H	p

B^{*0} X

(91.2)	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p
	Abreu 95H	p

$\overline{B}^*$ X

(91.2)	Sciolla 96	–

$\overline{B}^{*0}$ X

(91.2)	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p
	Abreu 95H	p

B^{*-} X

(91.2)	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p
	Abreu 95H	p

$B_J^*(5732)$ X

(91.2)	Barate 98	–
	Ackerstaff 97Y	p
	Sciolla 96	–
	Abreu 95R	cs

$\overline{B}_J^*(5732)$ X

(91.2)	Barate 98	–

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$e^+ e^-$

$\overline{B}^*_J(5732)$ X

	Ackerstaff 97Y	p
	Sciolla 96	–
	Abreu 95R	cs

B_s X

(91)	Abreu 95E	cs
(91.2)	Ackerstaff 97N	–
	Ackerstaff 97ZF	–
	Ackerstaff 97ZH	cs
	Barate 97ZB	–
	Adam 96D	–
	Buskulic 96S	–
	Checchia 96	–
	Zachariadou 96	–
	Akers 95P	cs
	Alexander 95E	p
	Buskulic 95T	cs
	Buskulic 94B	cs

$\overline{B}_s$ X

(91.2)	Ackerstaff 97N	–
	Ackerstaff 97ZF	–
	Ackerstaff 97ZH	cs
	Barate 97ZB	–
	Adam 96D	–
	Buskulic 96S	–
	Checchia 96	–
	Zachariadou 96	–
	Akers 95P	cs
	Alexander 95E	p
	Buskulic 95T	cs
	Buskulic 94B	cs

B^*_s X

(91.2)	Ackerstaff 97Y	p
	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p

$\overline{B}^*_s$ X

(91.2)	Ackerstaff 97Y	p
	Ackerstaff 97ZH	cs
	Ackerstaff 96R	p

B_c^+ X

(91.2)	Ackerstaff 97ZB	cs
	Barate 97I	cs
	Abreu 96Z	cs
	Alexander 95E	cs

B_c^- X

(91.2)	Ackerstaff 97ZB	cs
	Barate 97I	cs
	Abreu 96Z	cs
	Alexander 95E	cs

$\Upsilon(1S)$ X

(91.2)	Acciarri 97I	cs

$\Upsilon(2S)$ X

(91.2)	Acciarri 97I	cs

$\Upsilon(3S)$ X

(91.2)	Acciarri 97I	cs

Υ(unspec) X

(91.2)	Alexander 96Z	cs
	Abreu 95O	cs

p X

(58)	Itoh 94	p
(91.2)	Abe 98L	p
	Abreu 98O	p
	Barate 97ZC	mult,p
	Abreu 96ZD	p,pt
	Abreu 95D	mult,p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

p X + $\overline{p}$ X

(91.2)	Akers 94C	cs,p
	Buskulic 94N	p

n X

(91.2)	Abreu 95V	angp,p

$\overline{p}$ X

(58)	Itoh 94	p
(91.2)	Abe 98L	p

$e^+ e^-$

$\overline{p}$ X

	Abreu 98O	p
	Barate 97ZC	mult,p
	Abreu 96ZD	p,pt
	Abreu 95D	mult,p
	Tesch 95	mult,p
	Akers 94C	cs,p
	Buskulic 94N	p

$\Delta(1232\,P_{33})^{++}$ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95J	mult,p
	Alexander 95B	p

$\overline{\Delta}(1232\,P_{33})^{--}$ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95J	mult,p
	Alexander 95B	p
	Alexander 95C	p

Λ X

(7.2 – 9.4)	Blinov 94	mult
(9.4 – 10)	Blinov 94	mult
(9.46)	Blinov 94	mult,p
(91.2)	Abe 98L	p
	Acciarri 97G	mult,p
	Ackerstaff 97H	asym,pol,pt
	Abreu 96ZD	p,pt
	Abreu 95V	p
	Becattini 95	mult,p
	Acciarri 94B	mult,p
	Buskulic 94M	mult,p,pt

$\overline{\Lambda}$ X

(91.2)	Abe 98L	p
	Acciarri 97G	mult,p
	Ackerstaff 97H	asym,pol,pt
	Abreu 96ZD	p,pt
	Abreu 95V	p
	Becattini 95	mult,p
	Buskulic 94M	mult,p,pt

Σ^+ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95C	mult,p

Σ^0 X

(91.2)	Adam 96	cs

Σ^- X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95C	mult,p

$\overline{\Sigma}^+$ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95C	mult,p

$\overline{\Sigma}^0$ X

(91.2)	Adam 96	cs

$\overline{\Sigma}^-$ X

(91.2)	Abreu 96ZD	p,pt
	Abreu 95C	mult,p

$\Sigma(1385\,P_{13})^+$ X

(91.2)	Abreu 95C	mult,p

$\Sigma(1385\,P_{13})^-$ X

(91.2)	Abreu 95C	mult,p

$\overline{\Sigma}(1385\,P_{13})^+$ X

(91.2)	Abreu 95C	mult,p

$\overline{\Sigma}(1385\,P_{13})^-$ X

(91.2)	Abreu 95C	mult,p

Ξ^- X

(9.46)	Blinov 94	mult
(91.2)	Abreu 96ZD	p,pt
	Abreu 95C	mult,p

$\overline{\Xi}^+$ X

(91.2)	Abreu 96ZD	p,pt

$\Xi(1530\,P_{13})^0$ X

(91.2)	Abreu 95C	mult,p

$\overline{\Xi}(1530\,P_{13})^0$ X

(91.2)	Abreu 95C	mult,p

$e^+ e^-$

Ω^- X

(91.2)	Adam 96	cs

$\overline{\Omega}^+$ X

(91.2)	Adam 96	cs

Λ_c^+ X

(9 – 12)	Semenov 96	cs,mass
(10.4)	Albrecht 94F	–
	Albrecht 94S	cs
(10.5 – 10.7)	Yang 96B	–
(10.52 – 10.58)	Alexander 95	p
	Bishai 95	–
(10.56)	Spaan 96	–
	Ammar 95	–
	Crawford 95	–
	Spengler 94	cs
(10.58)	Bergfeld 94	–
(10.6)	Alam 97B	–

$\overline{\Lambda}_c^-$ X

(10.4)	Albrecht 94S	cs
(10.5 – 10.7)	Yang 96B	–
(10.52 – 10.58)	Bishai 95	–
(10.56)	Spaan 96	–
	Ammar 95	–
	Crawford 95	–
	Spengler 94	cs
(10.6)	Alam 97B	–

$\Lambda_c(2593)^+$ X

(9.3 – 10.6)	Semenov 96	cs
	Semenov 96B	cs
(10.4)	Albrecht 97	cs,p

$\overline{\Lambda}_c(2593)^-$ X

(10.4)	Albrecht 97	cs,p

$\Lambda_c(2625)^+$ X

(9.3 – 10.6)	Semenov 96	cs
	Semenov 96B	cs
	Semenov 94	cs
(10.4)	Litvintsev 94	cs
(10.52 – 10.58)	Fujino 95	cs,p
	Edwards 94	cs,p

$\overline{\Lambda}_c(2625)^-$ X

(10.52 – 10.58)	Fujino 95	cs,p
	Edwards 94	cs,p

Λ_c^{*+} X

(10.52 – 10.58)	Fujino 95	cs,p
	Edwards 94	cs,p
(10.56)	Spengler 94	cs,p

$\overline{\Lambda}_c^{*-}$ X

(10.52 – 10.58)	Fujino 95	cs,p
	Edwards 94	cs,p
(10.56)	Spengler 94	cs,p

$\Sigma_c(2455)^{++}$ X

(10.56)	Spengler 94	cs
(10.58)	Procario 93	p

$\Sigma_c(2455)^+$ X

(9 – 12)	Semenov 96	cs,mass
(10.58)	Procario 93	p

$\Sigma_c(2455)^0$ X

(10.56)	Spengler 94	cs
(10.58)	Procario 93	p

$\overline{\Sigma}_c(2455)^0$ X

(10.56)	Spengler 94	cs

$\overline{\Sigma}_c(2455)^{--}$ X

(10.56)	Spengler 94	cs

Ξ_c^+ X

(10)	Alexander 94	cs
(10.5 – 10.7)	Yang 96B	cs
(10.6)	Jessop 98	cs
	Bergfeld 96B	–
	Edwards 95B	cs,p

Ξ_c^0 X

(10)	Alexander 94	cs
(10.4)	Albrecht 94S	cs

$e^+ e^-$

Ξ_c^0 X

(10.5 – 10.7)	Yang 96B	cs
(10.56)	Spengler 94	cs
(10.6)	Jessop 98	cs

$\overline{\Xi}_c^0$ X

(10)	Alexander 94	cs
(10.4)	Albrecht 94S	cs
(10.5 – 10.7)	Yang 96B	cs
(10.56)	Spengler 94	cs

$\overline{\Xi}_c^-$ X

(10)	Alexander 94	cs
(10.5 – 10.7)	Yang 96B	cs
(10.6)	Bergfeld 96B	–
	Edwards 95B	cs,p

$\Xi_c(2645)^+$ X

(10.58)	Gibbons 96	p

$\Xi_c(2645)^0$ X

(10.58)	Gibbons 96	p

Ξ_c^*(unspec) X

(10.5 – 10.7)	Yang 96B	–
(10.6)	Jessop 98	cs

Ω_c X

(10.56)	Spengler 94	cs

$\overline{\Omega}_c$ X

(10.56)	Spengler 94	cs

Λ_b X

(91.2)	Abbiendi 98E	pol
	Ackerstaff 97ZF	–
	Barate 97R	–
	Buskulic 96P	pol
	Semenov 96	cs
	Zachariadou 96	–
	Abreu 95M	cs
	Akers 95U	–
	Akers 95W	cs
	Alexander 95E	cs
	Buskulic 95F	–
	Musolino 95	–

$\overline{\Lambda}_b$ X

(91.2)	Abbiendi 98E	pol
	Ackerstaff 97ZF	–
	Barate 97R	–
	Buskulic 96P	pol
	Zachariadou 96	–
	Abreu 95M	cs
	Akers 95U	–
	Akers 95W	cs
	Alexander 95E	cs
	Buskulic 95F	–
	Musolino 95	–

Σ_b X

(91.2)	Sciolla 96	–

Σ_b^+ X

(91.2)	Barate 97R	–

Σ_b^- X

(91.2)	Barate 97R	–

Ξ_b^0 X + Ξ_b^- X

(91.2)	Abreu 95N	cs

$\overline{\Xi}_b^+$ X + $\overline{\Xi}_b^0$ X

(91.2)	Abreu 95N	cs

$\overline{\text{deuteron}}$ X

(91.2)	Akers 95H	cs

$^3\overline{\text{H}}$ X

(91.2)	Akers 95H	cs

ℓ^+ jet$^-$ X

(91.2)	Buskulic 95U	angp,pt

$2\ell^-$ X

(88.2 – 94.2)	Behnke 95	col,pt
	Buskulic 94D	col,pt
(91.2)	Akers 95E	col,cs
	Abreu 94J	ang,col,pt

$e^+ e^-$

$\ell^+ \ell^-$ X

(10.58)	Athanas 94	mass
(88.2 – 94.2)	Behnke 95	col,pt
	Buskulic 94D	col,pt
(91.2)	Abreu 94J	ang,col,pt

$2\ell^+$ X

(91.2)	Akers 95E	col,cs
	Abreu 94J	ang,col,pt

$2\ell^+$ X + $2\ell^-$ X

(10.58)	Athanas 94	mass

$\nu\,\overline{\nu}$ (γ's)

(130.3)	Acciarri 95K	cs
(136.3)	Acciarri 95K	cs
(140.2)	Acciarri 95K	cs

e^- jet X

(57.9)	Nakano 94	angp,p,pt
(91.2)	Abe 94V	angp,const,p,pt

e^+ jet X

(57.9)	Nakano 94	angp,p,pt
(91.2)	Abe 94V	angp,const,p,pt

$e^\pm\,\gamma$ X

(10.6)	Edwards 97	ang,mass,pt
	Acosta 93	ang,mass,p,pt

$e^-\,e^+$ X

(10.58)	Ammar 93B	mass
(88.2 – 94.2)	Abreu 94M	mass
(91.2)	Alexander 96Z	mass
	Abreu 95G	angp,mass,p
	Abreu 95O	ang,mass

$e^-\,e^+$ (γ's)

(88 – 93)	Acciarri 98O	angp,cs,p
(130)	Acciarri 98O	angp,cs,p
	Buskulic 96Y	angp,const,cs
	Stichelbaut 96	angp,cs
(130.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(130.3)	Ackerstaff 97U	angp,const,cs,p
	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(136)	Abbiendi 98	angp,const,cs,p
	Acciarri 98O	angp,cs,p
	Buskulic 96Y	angp,const,cs
	Stichelbaut 96	angp,cs
(136.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Ackerstaff 97U	angp,const,cs,p
(136.3)	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(140.2)	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(161)	Acciarri 98O	angp,cs,p
	Acciarri 97Z	angp,cs
	Ackerstaff 96I	angp,cs
(161.3)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Acciarri 98B	angp,const,cs
	Ackerstaff 97U	angp,const,cs,p
(170.3)	Acciarri 98B	angp,const,cs
(172)	Acciarri 98O	angp,cs,p
	Acciarri 97Z	angp,cs
(172.1)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p

$e^+ e^-$

$e^-\,e^+$ (γ's)

(172.3)	Acciarri 98B	angp,const,cs
	Ackerstaff 97U	angp,const,cs,p
(182.7)	Barate 99D	angp,asym,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p
	Acciarri 98O	angp,cs,p

$e^-\,e^+$ (hadrons)

(91.2)	Batyunya 97	angp

$e^-\,e^+$ mult[charged-hadron]

(91.2)	Batyunya 97	mult

μ^- jet X

(91.2)	Abe 94V	angp,const,p,pt

μ^+ jet X

(91.2)	Abe 94V	angp,const,p,pt

$\mu^\pm\,\gamma$ X

(10.6)	Edwards 97	ang,mass,pt
	Acosta 93	ang,mass,p,pt

$\mu^-\,e^+$ X

(10)	Davier 95	cor,p
	Schmidtler 95	cor,p

$\mu^-\,e^+$ X + $\mu^+\,e^-$ X

(10.58)	Ammar 93B	mass

$\mu^+\,e^-$ X

(10)	Davier 95	cor,p
	Schmidtler 95	cor,p

$\mu^-\,\mu^+$ X

(10.58)	Ammar 93B	mass
(88.2 – 94.2)	Abreu 94M	mass
(91.2)	Alexander 96Z	mass
	Abreu 95O	ang,mass

$\mu^-\,\mu^+$ (γ's)

(88.2 – 93)	Barate 97B	ang,angp,const,cs,mass,p
(130)	Buskulic 96Y	angp,const,cs
(130.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(130.3)	Ackerstaff 97U	angp,const,cs,p
	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(136)	Abbiendi 98	angp,const,cs,p
	Buskulic 96Y	angp,const,cs
(136.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Barate 97B	ang,angp,const,cs,mass,p
	Ackerstaff 97U	angp,const,cs,p
(136.3)	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(140.2)	Acciarri 98B	angp,const,cs
	Acciarri 95K	cs
(161)	Acciarri 97Z	angp,cs
	Ackerstaff 96I	angp,cs
(161.3)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Acciarri 98B	angp,const,cs
	Ackerstaff 97U	angp,const,cs,p
(170.3)	Acciarri 98B	angp,const,cs

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^+ e^-$

$\mu^- \mu^+ (\gamma\text{'s})$
(172) Acciarri 97Z angp,cs
(172.1) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(172.3) Acciarri 98B angp,const,cs
Ackerstaff 97U angp,const,cs,p
(182.7) Barate 99D angp,asym,const,cs,p
(183) Abbiendi 98 angp,const,cs,p

$\mu^- \mu^+$ mult[γ]
(91.2) Abreu 94N cs

$\overline{\nu}_\tau$ hadron$^-$ X
(91.2) Abreu 95T angp,const,cor

$\tau^- \tau^+$ X
(91.2) Buskulic 95 col

$\tau^- \tau^+ (\gamma\text{'s})$
(88.24 – 94.23) Grunewald 93 angp,const,cs
(91.2) Acciarri 98H ang,angp,p
Taylor 97 ang,angp,p
Wermes 97 angp,const
(130) Buskulic 96Y angp,const,cs
(130.2) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(130.3) Ackerstaff 97U angp,const,cs,p
Acciarri 98B angp,const,cs
Acciarri 95K cs
(136) Abbiendi 98 angp,const,cs,p
Buskulic 96Y angp,const,cs
(136.2) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
Ackerstaff 97U angp,const,cs,p
(136.3) Acciarri 98B angp,const,cs
Acciarri 95K cs
(140.2) Acciarri 98B angp,const,cs
Acciarri 95K cs
(161) Acciarri 97Z angp,cs
Ackerstaff 96I angp,cs
(161.3) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
Acciarri 98B angp,const,cs
Ackerstaff 97U angp,const,cs,p
(170.3) Acciarri 98B angp,const,cs
(172) Acciarri 97Z angp,cs
(172.1) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(172.3) Acciarri 98B angp,const,cs
Ackerstaff 97U angp,const,cs,p
(182.7) Barate 99D angp,asym,const,cs,p
(183) Abbiendi 98 angp,const,cs,p

$\pi^+ e^- X + \pi^- e^+ X$
(10.58) Ammar 93B pt

$\pi^+ \mu^- X + \pi^- \mu^+ X$
(10.58) Ammar 93B pt

$e^+ e^-$

$\pi^+ \overline{\nu}_\tau$ X
(91.2) Abreu 95T angp,const,cor

$\rho^0 e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\rho^0 e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\rho^0 \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\rho^0 \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\rho^+ \overline{\nu}_\tau$ X
(91.2) Abreu 95T angp,const,cor

$a_1(1260)^+ \overline{\nu}_\tau$ X
(91.2) Abreu 95T angp,const,cor

$K^+ \overline{\nu}_\tau$ X
(91.2) Abreu 95T angp,const,cor

$K^*(892)^0 e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^*(892)^0 e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\overline{K}^*(892)^0 e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\overline{K}^*(892)^0 e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^*(892)^0 \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^*(892)^0 \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\overline{K}^*(892)^0 \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\overline{K}^*(892)^0 \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\phi(1020) e^- X$
(91.2) Abreu 96O ang,angp,cor,p

$\phi(1020) e^+ X$
(10.6) Butler 94 mass
(91.2) Abreu 96O ang,angp,cor,p

$\phi(1020) \mu^- X$
(91.2) Abreu 96O ang,angp,cor,p

$e^+ e^-$

$\phi(1020) \mu^+ X$
(10.6) Butler 94 mass
(91.2) Abreu 96O ang,angp,cor,p

$D^0 \ell^- X$
(88.3 – 94.3) Buskulic 93D mass,p

$\overline{D}^0 \ell^+ X$
(88.3 – 94.3) Buskulic 93D mass,p

$D^*(2010)^+ \ell^\pm X$
(91.2) Behnke 95 col,p

$D^*(2010)^+ \ell^- X$
(88.3 – 94.3) Buskulic 93D mass,p
(91.2) Buskulic 96R ang,cor

$D^*(2010)^+ \ell^+ X$
(91.2) Alexander 96N angp,cor,p
Buskulic 96R ang,cor

$D^*(2010)^- \ell^- X$
(91.2) Alexander 96N angp,cor,p
Buskulic 96R ang,cor

$D^*(2010)^- \ell^+ X$
(88.3 – 94.3) Buskulic 93D mass,p
(91.2) Buskulic 96R ang,cor

$D^*(2010)^+ e^- X$
(10.58) Artuso 97 cs,p

$D^*(2010)^- e^+ X$
(10.58) Artuso 97 cs,p

$D^*(2010)^+ \mu^- X$
(10.58) Artuso 97 cs,p

$D^*(2010)^- \mu^+ X$
(10.58) Artuso 97 cs,p

$D_s^+ e^- X$
(91.2) Abreu 96O ang,angp,cor,p

$D_s^- e^+ X$
(91.2) Abreu 96O ang,angp,cor,p

$D_s^+ \mu^- X$
(91.2) Abreu 96O ang,angp,cor,p

$D_s^- \mu^+ X$
(91.2) Abreu 96O ang,angp,cor,p

$\Lambda \ell^- X$
(91.2) Abreu 94J ang,col,pt

$\Lambda \ell^+ X$
(91.2) Abreu 94J ang,col,pt

$\overline{\Lambda} \ell^- X$
(91.2) Abreu 94J ang,col,pt

$\overline{\Lambda} \ell^+ X$
(91.2) Abreu 94J ang,col,pt

$\Lambda e^+ X$
(10.56) Spaan 96 ang,angp,mass
Crawford 95 ang,angp,mass
(10.58) Bergfeld 94 ang,mass

$\overline{\Lambda} e^- X$
(10.56) Spaan 96 ang,angp,mass
Crawford 95 ang,angp,mass

$\Lambda \mu^+ X$
(10.58) Bergfeld 94 mass

$\Xi^0 e^+ X$
(10) Alexander 94 angp,mass

$e^+ e^-$

$\Xi^- e^+ X$
(10) Alexander 94 angp,mass

$\bar{\Xi}^+ e^- X$
(10) Alexander 94 angp,mass

$\bar{\Xi}^0 e^- X$
(10) Alexander 94 angp,mass

2charged$^+$ X
(58) Choi 95 cor,mass,p,pt
(91.2) Alexander 96J angp,cor

charged$^+$ charged$^-$ X
(58) Choi 95 cor,mass,p,pt
(91.2) Alexander 96J angp,cor

2charged$^-$ X
(58) Choi 95 cor,mass,p,pt
(91.2) Alexander 96J angp,cor

(jets) jet X
(130.3) Acciarri 95N const,cs,mass,p
(136.3) Acciarri 95N const,cs,mass,p

neutral (neutrals) jet
(91.2) Buskulic 94I cs,mass,pt

2jet X
(58) Adachi 99 angp,cs,et,mass,p
Li 95 const,mass
(91.2) Buskulic 95V col
Akers 94R col
(130 – 136) Abreu 96R const,p

(neutrals) 2jet
(91.2) Alexander 96H ang,angp,pt

(γ's) 2jet
(130.3) Ackerstaff 97U angp,const,cs,p
(136) Abbiendi 98 angp,const,cs,p
(136.2) Ackerstaff 97U angp,const,cs,p
(161.3) Ackerstaff 97U angp,const,cs,p
(172.3) Ackerstaff 97U angp,const,cs,p
(183) Abbiendi 98 angp,const,cs,p

(jets) 2jet
(58) Kim 98B angp,const,cs,p
(91.2) Abreu 98Q const
Abreu 96ZD mass,p,pt
(183) Abreu 98Q const

hadron (hadrons) X
(7.2 – 10.34) Blinov 93 col,cs
(91.2) Fero 94 asym,const

(γ's) hadron (hadrons)
(130) Stichelbaut 96 angp,cs
(136) Stichelbaut 96 angp,cs

invisible hadron (hadrons)
(130 – 140) Acciarri 96D et,mass,p,pt

2hadron (hadrons)
(1.8 – 3.1) Antonelli 96 cs
(2.44) Antonelli 98 cs
(10.52) Ammar 97 const,cs
(14) Abreu 96Y ang,col,const,cs,p
(22) Movillaferna 97 col,const,cs,mass,p
Abreu 96Y ang,col,const,cs,p
(35) Movillaferna 97 col,const,cs,mass,p

$e^+ e^-$

2hadron (hadrons)
Abreu 96Y ang,col,const,cs,p
(43.7) Abreu 96Y ang,col,const,cs,p
(44) Movillaferna 97 col,const,cs,mass,p
(57.77) Miyabayashi 95 cor,cs
(58) Kim 98B angp,col,const,mass,p
Li 95 col
(88.2 – 94.2) Abreu 94E cs
Acciarri 94 angp,const,cs
(91 – 91.5) Buskulic 95G col
(91.2) Abbiendi 99D col,const,cor,cs,p
Abreu 99C angp,mult,p
Abreu 99K const,cs
Abbiendi 98O cs
Abe 98L –
Abreu 98Q ang,angp,cor,p
Barate 98D cs
Barate 98E ang,angp,col,mult,p
Barate 98O ang,col,cor,pt
Barate 97C const,cs
Ackerstaff 96O cs
Etzion 96 cs
Acciarri 95E ang,col,p
Akers 95C col,const,cor,p
Behnke 95 col,const,cs,p
Abe 94ZI col,const,p
Akers 93F cs
(91.26) Schumm 95 asym,const,cs
Abe 94C asym,const,cs
(91.27) Abe 96O asym,const
Buskulic 94E cs
(91.28) Buskulic 94E cs
Abe 96X asym,const,cs
Abreu 94G cs
(91.3) Akers 93D angp,const,cs
(91.55) Abe 95Z col,const,cs,p
(130) Abreu 99K const,cs
Buskulic 97 col,p
Alexander 96U cs
(130.3) Acciarri 95K cs
(136) Abreu 99K const,cs
Buskulic 97 col,p
Alexander 96U cs
(136.3) Acciarri 95K cs
(140.2) Acciarri 95K cs
(161) Abreu 99K const,cs
Acciarri 97Y col,const,mult,p
Ackerstaff 97J col,const
(172) Abreu 99K const,cs
Acciarri 97Y col,const,mult,p
(183) Abreu 99K const,cs
Abreu 98Q ang,angp,cor,p

charged-hadron (charged-hadrons) X
(91.2) Baranko 94 asym,col,const,p

2charged-hadron (charged-hadrons)
(91.2) Buskulic 96T angp,cor,p

γ mult[charged] (neutrals)
(10) Alam 97 mass,mult

γ neutral (neutrals)
(57.8) Sugimoto 95 angp,cs,p,pt
(91.2) Acciarri 97P angp,const,cs

$e^+ e^-$

γ (γ's) invisible
(130) Stichelbaut 96 cs
(136) Stichelbaut 96 cs
(161) Ackerstaff 96H angp,cs,mass

γ hadron (hadrons)
(91.2) Ackerstaff 97F p
Acciarri 96G cs,mass,p
Acciarri 95E ang,col,p

γ (γ's) longlived
(130.3) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(136.2) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(161.3) Ackerstaff 97ZD angp,cs,mass,p
(172.1) Ackerstaff 97ZD angp,cs,mass,p
(183) Abbiendi 98J angp,cs,mass,p

2γ X
(133 – 140) Acciarri 96 cs

2γ (γ's)
(88.2 – 94.2) Abreu 94H angp,cs
(130) Ackerstaff 97S angp,const,cs,pt
(130 – 136) Buskulic 96J angp,mass,p
(130 – 140) Acciarri 96 ang,angp,mass
Alexander 96P angp,mass,p
(130.3) Acciarri 95K cs
(130.4) Abreu 98F ang,angp,const,cs,p
(136) Ackerstaff 97S angp,const,cs,pt
(136.3) Abreu 98F ang,angp,const,cs,p
Acciarri 95K cs
(140.2) Acciarri 95K cs
(161) Ackerstaff 97S angp,const,cs,pt
(161.3) Acciarri 97J angp,const,cs,mass
(161.5) Abreu 98F ang,angp,const,cs,p
(172) Ackerstaff 97S angp,const,cs,pt
(172.1) Acciarri 97J angp,const,cs,mass
(172.4) Abreu 98F ang,angp,const,cs,p
(182.7) Abreu 98F ang,angp,const,cs,p
(183) Ackerstaff 98N angp,const,cs
Barate 98I angp,cs

(γ's) q $\bar{q}$
(130.2) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(136.2) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(161.3) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(172.1) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p
(182.7) Barate 99D angp,asym,const,cs,p

(γ's) $\bar{c}$ c
(130.2) Abreu 99 angp,cs
Barate 99D angp,asym,const,cs,p

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$e^+ e^-$

$(\gamma\text{'s})\ \bar{c}\ c$

(136.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(161.3)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(172.1)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(182.7)	Barate 99D	angp,asym,const,cs,p

$\bar{b}\ b\ X$

(91.2)	Abreu 95M	cs
	Akers 95W	cs

$(\gamma\text{'s})\ \bar{b}\ b$

(130.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(130.3)	Ackerstaff 97U	angp,const,cs,p
(136)	Abbiendi 98	angp,const,cs,p
(136.2)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Ackerstaff 97U	angp,const,cs,p
(161.3)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
	Ackerstaff 97U	angp,const,cs,p
(172.1)	Abreu 99	angp,cs
	Barate 99D	angp,asym,const,cs,p
(172.3)	Ackerstaff 97U	angp,const,cs,p
(182.7)	Barate 99D	angp,asym,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p

π^0 charged$^+$ X

(10.6)	Urheim 94	mass,p

π^0 charged$^-$ X

(10.6)	Urheim 94	mass,p

π^+ jet X

(91.2)	Barate 97H	cs

π^- jet X

(91.2)	Barate 97H	cs

$2\pi^+$ X

(7.2 – 10.3)	Blinov 95	cor,mass
(91.2)	Alexander 96J	ang,cor,mass,p
(91.28)	Abreu 94B	cor,mass
(172)	Abreu 97C	angp,const,cor,mass

$\pi^+ \pi^-$ X

(9.46)	Albrecht 94G	mass
(10.35)	Butler 93	mass
(91)	Abreu 95E	mass
(91.2)	Alexander 96J	ang,cor,mass,p
(91.28)	Abreu 94B	cor,mass
(91.3)	Abreu 94Q	mass,p
(172)	Abreu 97C	angp,const,cor,mass

$2\pi^-$ X

(7.2 – 10.3)	Blinov 95	cor,mass
(91.2)	Alexander 96J	ang,cor,mass,p
(91.28)	Abreu 94B	cor,mass
(172)	Abreu 97C	angp,const,cor,mass

$\eta\ \pi^+$ X

(10.58)	Smith 98	cs,mass

$\eta\ \pi^0$ X

(10.58)	Smith 98	cs,mass

2η X

(10.58)	Smith 98	cs,mass

$\rho^0\ \pi^-$ X

(91)	Abreu 95E	mass

$\rho^+\ \eta$ X

(10.58)	Smith 98	cs,mass

$\rho^0\ \eta$ X

(10.58)	Smith 98	cs,mass

$\omega\ \pi^+$ X

(10.58)	Smith 98	cs,mass

$\omega\ \pi^0$ X

(10.58)	Smith 98	cs,mass

$\omega\ \eta$ X

(10.58)	Smith 98	cs,mass

$\omega\ \rho^+$ X

(10.58)	Smith 98	cs,mass

$\omega\ \rho^0$ X

(10.58)	Smith 98	cs,mass

2ω X

(10.58)	Smith 98	cs,mass

$\eta'\ \pi^+$ X

(10.58)	Smith 98	cs,mass

$\eta'\ \pi^0$ X

(10.58)	Smith 98	cs,mass

$\eta'\ \rho^+$ X

(10.58)	Smith 98	cs,mass

$\eta'\ \rho^0$ X

(10.58)	Smith 98	cs,mass

$\eta'\ \omega$ X

(10.58)	Smith 98	cs,mass

$2\eta'$ X

(10.58)	Smith 98	cs,mass

$K^\pm$ (neutrals) X

(10.6)	Battle 94	mass

$K^\pm\ \pi^0$ X

(10.6)	Battle 94	mass

$K^+\ \pi^-$ X

(9.46)	Albrecht 94G	mass
(10)	Albrecht 94N	mass
(10.4)	Albrecht 94L	angp,mass,p
(10.58)	Barish 96	mass
(88.3 – 94.3)	Behnke 95	mass,p
	Buskulic 93P	mass,p
(91)	Abreu 95E	mass

$K^-\ \pi^+$ X

(10)	Albrecht 94N	mass
(10.4)	Albrecht 94L	angp,mass,p
	Litvintsev 94	mass
(10.52 – 10.7)	Balest 94	mass
(10.58)	Barish 96	mass
	Alam 94C	cs,mass
	Avery 94	mass
(10.6)	Brown 94	mass
(88.3 – 94.3)	Behnke 95	mass,p
	Buskulic 93P	mass,p

$K_S\ \pi^+$ X

(9.46)	Albrecht 94G	mass
(91.3)	Abreu 94Q	mass,p

$K_S\ \pi^-$ X

(91.3)	Abreu 94Q	mass,p

$K^+\ \eta$ X

(10.58)	Smith 98	cs,mass

$K^0\ \eta$ X

(10.58)	Smith 98	cs,mass

$K^-\ \rho^0$ X

(91)	Abreu 95E	mass

$K^+\ \omega$ X

(10.58)	Smith 98	cs,mass

$K^0\ \omega$ X

(10.58)	Smith 98	cs,mass

$K^+\ \eta'$ X

(10.58)	Smith 98	cs,mass

$K^0\ \eta'$ X

(10.58)	Smith 98	cs,mass

$K^+\ a_1(1260)^-$ X

(91)	Abreu 95E	mass

$2K^+$ X

(91.2)	Abreu 96H	angp,cor,cs,mass

$K^+\ K^-$ X

(91)	Abreu 95E	mass
(91.2)	Abreu 96H	angp,cor,cs,mass
	Ackerstaff 96R	ang,angp,mass
	Akers 95J	cs,p

$2K^-$ X

(91.2)	Abreu 96H	angp,cor,cs,mass

$2K_S$ X

(91.2)	Abreu 96H	angp,cor,cs,mass
	Akers 95J	const,cor,cs,mass,mult,p
	Schwiening 95	cor,p
	Buskulic 94M	ang,cor,mult,p
	Maur 94	cor,p
(92.28)	Abreu 94C	cor,mass

$\overline{K}^*(892)^0\ \pi^-$ X

(91)	Abreu 95E	mass

$K^*(892)^+\ \eta$ X

(10.58)	Smith 98	cs,mass

$K^*(892)^0\ \eta$ X

(10.58)	Smith 98	cs,mass

$K^*(892)^+\ \omega$ X

(10.58)	Smith 98	cs,mass

$K^*(892)^0\ \omega$ X

(10.58)	Smith 98	cs,mass

$K^*(892)^+\ \eta'$ X

(10.58)	Smith 98	cs,mass

$K^*(892)^0\ \eta'$ X

(10.58)	Smith 98	cs,mass

$\phi(1020)\ \pi^+$ X

(10.58)	Smith 98	cs,mass
(10.6)	Brown 94	mass

$\phi(1020)\ \pi^0$ X

(9.4 – 10.6)	Albrecht 94J	cs,mass
(10.58)	Smith 98	cs,mass

$\phi(1020)\ \eta$ X

(10.58)	Smith 98	cs,mass

$\phi(1020)\ \rho^+$ X

(10.58)	Smith 98	cs,mass

$\phi(1020)\ \rho^0$ X

(9.4 – 10.6)	Albrecht 94J	cs,mass
(10 – 10.6)	Ressing 95	cs
(10.58)	Smith 98	cs,mass

$\phi(1020)\ \omega$ X

(10 – 10.6)	Ressing 95	cs

$\phi(1020)\ \eta'$ X

(10.58)	Smith 98	cs,mass

$K^+\ \phi(1020)$ X

(10.58)	Smith 98	cs,mass

$K^0\ \phi(1020)$ X

(10.58)	Smith 98	cs,mass

$K^-\ \phi(1020)$ X

(91)	Abreu 95E	mass

$e^+ e^-$

$K^*(892)^+ \phi(1020)$ X
(10.58) Smith 98 cs,mass

$K^*(892)^0 \phi(1020)$ X
(10.58) Smith 98 cs,mass

$2\phi(1020)$ X
(10.58) Smith 98 cs,mass

charm $\overline{\text{charm}}$ X
(91.2) Su 96 asym,const,pol
Abe 94V asym,const,pol

$D^+ \gamma$ X
(10) Albrecht 94N mass

$D^0 \gamma$ X
(10) Albrecht 94N mass
(10.6) Brown 94 mass

$\overline{D}^0 \gamma$ X
(10) Albrecht 94N mass

$D^- \gamma$ X
(10) Albrecht 94N mass

$D \pi^-$ X
(10.58) Athanas 94 mass

$D^+ \pi^0$ X
(10) Albrecht 94N mass

$D^+ \pi^-$ X
(10.58) Alam 94C cs,mass
Avery 94 mass

$D^0 \pi^+$ X
(10.4) Albrecht 94L angp,mass,p
Litvintsev 94 cs,mass
(10.58) Alam 94C cs,mass
Bergfeld 94B angp,mass,p
Cinabro 93B mass
(91.2) Ackerstaff 96R ang,angp,mass

$D^0 \pi^0$ X
(10) Albrecht 94N mass
(10.58) Alam 94C cs,mass

$D^0 \pi^-$ X
(10.58) Alam 94C cs,mass

$\overline{D}^0 \pi^0$ X
(10) Albrecht 94N mass

$\overline{D}^0 \pi^-$ X
(10.4) Albrecht 94L angp,mass,p
(10.58) Bergfeld 94B angp,mass,p
(91.2) Ackerstaff 96R ang,angp,mass

$D^- \pi^0$ X
(10) Albrecht 94N mass

$D^0 \eta$ X
(10.58) Alam 94C cs,mass

$D \rho^-$ X
(10.58) Athanas 94 mass

$D^+ \rho^-$ X
(10.58) Alam 94C cs,mass

$D^0 \rho^0$ X
(10.58) Alam 94C cs,mass

$D^0 \rho^-$ X
(10.58) Alam 94C cs,mass

$D^0 \omega$ X
(10.58) Alam 94C cs,mass

$D^0 \eta'$ X
(10.58) Alam 94C cs,mass

$D\, a_1(1260)^-$ X
(10.58) Athanas 94 mass

$D^0 K^+$ X
(9.3 – 10.6) Semenov 96B mass

$e^+ e^-$

$D^0 K^+$ X
(10 – 10.6) Albrecht 95D mass,p
(10.35 – 10.58) Kubota 94 mass

$\overline{D}^0 K^-$ X
(10 – 10.6) Albrecht 95D mass,p

D^0 $\overline{\text{charm}}$ X
(10.6) Asner 96 –

$\overline{D}^0$ charm X
(10.6) Asner 96 –

$D^* \pi^-$ X
(10.58) Athanas 94 mass

$D^* \rho^-$ X
(10.58) Athanas 94 mass

$D^*\, a_1(1260)^-$ X
(10.58) Athanas 94 mass

$D^*(2010)^+$ jet X
(91.2) Abreu 94K col,cor

$D^*(2010)^-$ jet X
(91.2) Abreu 94K col,cor

$D^*(2010)^+$ charged-hadron (charged-hadrons)
(91.2) Buskulic 96T angp,cor,p

$D^*(2010)^-$ charged-hadron (charged-hadrons)
(91.2) Buskulic 96T angp,cor,p

$D^*(2010)^+ \pi^-$ X
(10.58) Avery 94 mass

$D^*(2010)^+ \rho^-$ X
(10.58) Alam 94C mass,pol

$D^*(2010)^+ K^+$ X
(10.58) Albrecht 95H p

$D^*(2010)^+ K^-$ X
(10.58) Albrecht 95H p

$D^*(2010)^- K^+$ X
(10.58) Albrecht 95H p

$D^*(2010)^- K^-$ X
(10.58) Albrecht 95H p

$D^*(2007)^0 \pi^+$ X
(10.58) Bergfeld 94B amp,angp,mass,p

$D^*(2007)^0 \pi^0$ X
(10.58) Alam 94C cs,mass

$D^*(2007)^0 \pi^-$ X
(10.58) Alam 94C cs,mass

$\overline{D}^*(2007)^0 \pi^-$ X
(10.58) Bergfeld 94B amp,angp,mass,p

$D^*(2007)^0 \eta$ X
(10.58) Alam 94C cs,mass

$D^*(2007)^0 \rho^0$ X
(10.58) Alam 94C cs,mass

$D^*(2007)^0 \rho^-$ X
(10.58) Alam 94C cs,mass

$D^*(2007)^0 \omega$ X
(10.58) Alam 94C cs,mass

$D^*(2007)^0 \eta'$ X
(10.58) Alam 94C cs,mass

D_s^+ hadron$^-$ X
(91.2) Abreu 96O ang,angp,cor,p

D_s^- hadron$^+$ X
(91.2) Abreu 96O ang,angp,cor,p

$e^+ e^-$

$D_s^+ \gamma$ X
(10.6) Brown 94 mass
Acosta 93 ang,mass,p,pt

$D_1(2420)^0 \pi^-$ X
(10.58) Alam 94C cs,mass

$D_1(2420)^0 \rho^-$ X
(10.58) Alam 94C cs,mass

$D_2^*(2460)^0 \pi^-$ X
(10.58) Alam 94C cs,mass

$D_2^*(2460)^0 \rho^-$ X
(10.58) Alam 94C cs,mass

$J/\psi(1S) \gamma$ X
(88.2 – 94.2) Abreu 94M mass

$K^0 J/\psi(1S)$ X
(10.58) Alam 94C cs,mass
Athanas 94 mass

$K^- J/\psi(1S)$ X
(10.58) Alam 94C cs,mass

$K^*(892) J/\psi(1S)$ X
(10.58) Athanas 94 mass

$K^*(892)^+ J/\psi(1S)$ X
(10.6) Albrecht 94P ang,angp,mass

$K^*(892)^0 J/\psi(1S)$ X
(10.58) Alam 94C cs,mass
(10.6) Albrecht 94P ang,angp,mass

$\overline{K}^*(892)^0 J/\psi(1S)$ X
(10.6) Albrecht 94P ang,angp,mass

$K^*(892)^- J/\psi(1S)$ X
(10.58) Alam 94C cs,mass
(10.6) Albrecht 94P ang,angp,mass

$K^0 \chi_{c1}(1P)$ X
(10.58) Alam 94C cs,mass

$K^- \chi_{c1}(1P)$ X
(10.58) Alam 94C cs,mass

$K^*(892)^0 \chi_{c1}(1P)$ X
(10.58) Alam 94C cs,mass

$K^*(892)^- \chi_{c1}(1P)$ X
(10.58) Alam 94C cs,mass

$K^0 \psi(2S)$ X
(10.58) Alam 94C cs,mass

$K^- \psi(2S)$ X
(10.58) Alam 94C cs,mass

$K^*(892)^0 \psi(2S)$ X
(10.58) Alam 94C cs,mass

$K^*(892)^- \psi(2S)$ X
(10.58) Alam 94C cs,mass

bottom $\overline{\text{bottom}}$ X
(91.2) Su 96 asym,const,pol
Behnke 95 cs
Abe 94U asym,const,pol
Abe 94V asym,const,pol

B charged X + $\overline{B}$ charged X
(91.2) Abreu 95Q mult,p

$B^\pm \gamma$ X
(91.2) Akers 94R cor,mass

$B^+ \gamma$ X
(91.2) Ackerstaff 96R ang,angp,mass

$B^0 \gamma$ X
(91.2) Ackerstaff 96R ang,angp,mass

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$e^+ e^-$

$\overline{B}^0 \gamma X$		
(91.2)	Ackerstaff 96R	ang,angp,mass
$B^- \gamma X$		
(91.2)	Ackerstaff 96R	ang,angp,mass
$B \pi^+ X$		
(91.2)	Abreu 95R	cs,mass
$B \pi^0 X$		
(91.2)	Adam 95	p
$B \pi^- X$		
(91.2)	Abreu 95R	cs,mass
$B^+ \pi^+ X$		
(91.2)	Akers 94R	cor,mass
$B^+ \pi^- X$		
(91.2)	Barate 98	mass
	Akers 94R	cor,mass
$B^0 \pi^\pm X$		
(91.2)	Akers 94R	cor,mass
$B^0 \pi^- X$		
(91.2)	Barate 98	mass
$\overline{B} \pi^+ X$		
(91.2)	Abreu 95R	cs,mass
$\overline{B} \pi^0 X$		
(91.2)	Adam 95	p
$\overline{B} \pi^- X$		
(91.2)	Abreu 95R	cs,mass
$\overline{B}^0 \pi^\pm X$		
(91.2)	Akers 94R	cor,mass
$\overline{B}^0 \pi^+ X$		
(91.2)	Barate 98	mass
$B^- \pi^+ X$		
(91.2)	Barate 98	mass
	Akers 94R	cor,mass
$B^- \pi^- X$		
(91.2)	Akers 94R	cor,mass
$K^\pm B X + K^\pm \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$K_S B X + K_S \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$B \overline{B} X$		
(91.2)	Acciarri 98P	–
	Barate 98B	–
	Barate 98G	–
	Barate 98J	–
$B^0 \overline{B} X$		
(91.2)	Acciarri 98E	p
	Acciarri 96O	p
	Buskulic 96R	cs
$\overline{B}^0 B X$		
(91.2)	Acciarri 98E	p
	Acciarri 96O	p
	Buskulic 96R	cs
$B^0 \overline{B}^0 X$		
(88.2 – 94.2)	Akers 94G	cs
(91.2)	Abe 96V	–
	Abe 96W	–
	Alexander 96N	–
	Buskulic 96F	angp,const,p
	Abreu 94K	cs
$\pi^+ B^* X$		
(91.2)	Abreu 95R	cs,mass
$\pi^- B^* X$		
(91.2)	Abreu 95R	cs,mass
$B^{*+} \pi^- X$		
(91.2)	Barate 98	mass
$B^{*0} \pi^- X$		
(91.2)	Barate 98	mass
$\pi^+ \overline{B}^* X$		
(91.2)	Abreu 95R	cs,mass

$e^+ e^-$

$\pi^- \overline{B}^* X$		
(91.2)	Abreu 95R	cs,mass
$\overline{B}^{*0} \pi^+ X$		
(91.2)	Barate 98	mass
$B^{*-} \pi^+ X$		
(91.2)	Barate 98	mass
$B_s \gamma X$		
(91.2)	Ackerstaff 96R	ang,angp,mass
$\overline{B}_s \gamma X$		
(91.2)	Ackerstaff 96R	ang,angp,mass
$B_s \overline{\text{bottom}} X$		
(91.2)	Abreu 96O	–
$\overline{B}_s$ bottom X		
(91.2)	Abreu 96O	–
$B_s \overline{B} X$		
(91.2)	Barate 98M	p
	Adam 97	const,p
	Barate 97ZB	–
$\overline{B}^0 B_s X$		
(91.2)	Buskulic 96F	angp,const,p
	Buskulic 96U	–
$\overline{B}_s B X$		
(91.2)	Barate 98M	p
	Adam 97	const,p
	Barate 97ZB	–
$B^0 \overline{B}_s X$		
(91.2)	Buskulic 96F	angp,const,p
	Buskulic 96U	–
$B_s \overline{B}_s X$		
(91.2)	Buskulic 96F	angp,const,p
	Buskulic 96U	–
	Checchia 96	–
	Buskulic 95U	–
$p \pi^- X$		
(7.2 – 10)	Blinov 94	mass
$p \phi(1020) X$		
(10.52 – 10.58)	Alexander 95	cs,mass
$p B X + p \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$\overline{p} B X + \overline{p} \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$2p X$		
(91.2)	Abreu 97B	cor,mult,p
$p \overline{p} X$		
(58)	Aoki 98	ang,cor
(91)	Abreu 95E	mass
(91.2)	Abreu 97B	cor,mult,p
$\Lambda \pi^+ X$		
(10.52 – 10.58)	Bishai 95	ang,angp,mass,p
(91.2)	Abreu 95C	mass,p
$\Lambda \pi^- X$		
(9.46)	Blinov 94	mass
(91.2)	Abreu 95C	mass,p
$\overline{\Lambda} \pi^+ X$		
(91.2)	Abreu 95C	mass,p
$\overline{\Lambda} \pi^- X$		
(10.52 – 10.58)	Bishai 95	ang,angp,mass,p
(91.2)	Abreu 95C	mass,p
$\Lambda K_S X$		
(10.4)	Albrecht 94S	cs,mass,p
(91.2)	Buskulic 94M	ang,cor,mult,p
$\overline{\Lambda} K_S X$		
(10.4)	Albrecht 94S	cs,mass,p

$e^+ e^-$

$\overline{\Lambda} K_S X$		
(91.2)	Buskulic 94M	ang,cor,mult,p
$\Lambda B X + \Lambda \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$\overline{\Lambda} B X + \overline{\Lambda} \overline{B} X$		
(91.2)	Abreu 95Q	mult,p
$p \Lambda X$		
(91.2)	Abreu 97B	cor,mult,p
$\overline{p} \Lambda X$		
(91.2)	Abreu 97B	cor,mult,p
$p \overline{\Lambda} X$		
(91.2)	Abreu 97B	cor,mult,p
$\overline{p} \overline{\Lambda} X$		
(91.2)	Abreu 97B	cor,mult,p
$2\Lambda X$		
(91.2)	Abbiendi 98D	angp,mult,p
	Abreu 97B	cor,mult,p
	Alexander 96M	ang,mass,p
	Buskulic 94M	ang,cor,mult,p
$\Lambda \overline{\Lambda} X$		
(91.2)	Abbiendi 98D	angp,mult,p
	Abreu 97B	cor,mult,p
	Alexander 96M	ang,mass,p
	Buskulic 94M	ang,cor,mult,p
$2\overline{\Lambda} X$		
(91.2)	Abbiendi 98D	angp,mult,p
	Abreu 97B	cor,mult,p
	Alexander 96M	ang,mass,p
	Buskulic 94M	ang,cor,mult,p
$\Sigma^+ \pi^0 X$		
(10.52 – 10.58)	Bishai 95	ang,angp,mass,p
$\overline{\Sigma}^- \pi^0 X$		
(10.52 – 10.58)	Bishai 95	ang,angp,mass,p
$\Sigma^+ \eta X$		
(10.56)	Ammar 95	mass,p
$\overline{\Sigma}^- \eta X$		
(10.56)	Ammar 95	mass,p
$\Sigma(1385 P_{13})^+ \eta X$		
(10.56)	Ammar 95	mass,p
$\overline{\Sigma}(1385 P_{13})^- \eta X$		
(10.56)	Ammar 95	mass,p
$\Xi^0 \pi^+ X$		
(10.6)	Edwards 95B	mass
$\Xi^- \pi^+ X$		
(10)	Alexander 94	angp,mass
(91.2)	Abreu 95C	mass,p
$\overline{\Xi}^+ \pi^- X$		
(10)	Alexander 94	angp,mass
$\overline{\Xi}^0 \pi^- X$		
(10.6)	Edwards 95B	mass
$\Lambda \overline{\Xi}^+ X + \overline{\Lambda} \Xi^- X$		
(91.2)	Abreu 95C	cor,mult
$\Xi(1530 P_{13})^0 K^+ X$		
(10.4)	Albrecht 94S	cs,mass,p
$\overline{\Xi}(1530 P_{13})^0 K^- X$		
(10.4)	Albrecht 94S	cs,mass,p

$e^+ e^-$

$\Lambda_c^+ \pi^+ X$
(10.58) Procario 93 mass

$\Lambda_c^+ \pi^0 X$
(10.58) Procario 93 mass

$\Lambda_c^+ \pi^- X$
(10.58) Procario 93 mass

$\Xi_c^+ \pi^- X$
(9 – 12) Semenov 96 cs,mass
(10.5 – 10.7) Avery 95 mass
(10.58) Gibbons 96 mass

$\Xi_c^0 \pi^+ X$
(10.58) Gibbons 96 mass

ℓ^- charged (chargeds) X
(91.2) Buskulic 96R ang,cor

ℓ^+ charged (chargeds) X
(91.2) Buskulic 96R ang,cor

$\ell^+ \ell^-$ mult[charged] (neutrals)
(91.2) Akers 94N col,cs,pt

$\nu \bar{\nu} \gamma$ (γ's)
(88.56 – 93.75) Acciarri 98 angp,const,cs
(130) Stichelbaut 96 cs
(130 – 136) Buskulic 96J angp,mass,p
(130 – 140) Alexander 96P angp,mass,p
(130.3) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(136) Stichelbaut 96 cs
(136.2) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(161) Barate 97V angp,cs,mass
(161.3) Acciarri 97K angp,cs,p,pt
Ackerstaff 97ZD angp,cs,mass,p
(170) Barate 97V angp,cs,mass
(172) Barate 97V angp,cs,mass
(172.1) Ackerstaff 97ZD angp,cs,mass,p
(172.3) Acciarri 97K angp,cs,p,pt
(183) Abbiendi 98J angp,cs,mass,p
Acciarri 98W angp,cs
Barate 98I angp,cs

$e^\pm$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

e^- hadron (hadrons) X
(58) Sahu 95 angp,mass,p,pt
Sahu 95B angp,mass,p,pt
(88.2 – 94.2) Acciarri 94D angp,col,p,pt
(89.2 – 93.2) Ackerstaff 97G angp
(91) Ackerstaff 97E angp
(161 – 172) Ackerstaff 97E angp

e^+ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt
(89.2 – 93.2) Ackerstaff 97G angp
(91) Ackerstaff 97E angp
(161 – 172) Ackerstaff 97E angp

e^- invisible hadron (hadrons)
(130 – 140) Acciarri 96D et,mass,p,pt

e^+ invisible hadron (hadrons)
(130 – 140) Acciarri 96D et,mass,p,pt

$e^- \bar{\nu}_e$ mult[charged] (neutrals)
(183) Abbiendi 98L col,mult,p

$e^+ \nu_e$ mult[charged] (neutrals)
(183) Abbiendi 98L col,mult,p

$e^- e^+$ neutral (neutrals)
(91.2) Buskulic 94I cs,mass,pt

$e^- e^+$ jet X
(58) Tauchi 94 p,pt
Sakuda 93 p,pt
(130) Ackerstaff 96 angp,p
(136) Ackerstaff 96 angp,p

$e^- e^+$ hadron (hadrons)
(9.4 – 10.6) Kriznic 94 –
(52 – 61.4) Muramatsu 94 angp,p
(58) Tauchi 94 col,p,pt
Sakuda 93 col,p,pt
(88.3 – 94.3) Abreu 94D col,cs,p
(91.2) Acciarri 98ZC angp,cs
Abreu 95 angp,col,p,pt
Akers 93G angp,mass
(183) Acciarri 98ZC angp,cs

$e^- e^+ \gamma$ mult[γ]
1.84 Baru 96 angp,cs,mult,p

$e^- e^+ e^\pm$ X
(58) Uehara 93 ang,col

$2e^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$e^- 2e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$e^- \nu_\tau \bar{\nu}_e$ X
(91.2) Abreu 95T angp,const,cor

$e^- \nu_\tau \bar{\nu}_e$ X + $e^+ \bar{\nu}_\tau \nu_e$ X
(91) Abreu 95F cs

$e^+ \bar{\nu}_\tau \nu_e$ X
(91.2) Abreu 95T angp,const,cor

$\mu^\pm$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

μ^- hadron (hadrons) X
(10) Korolko 95 cor,p
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

μ^+ hadron (hadrons) X
(10) Korolko 95 cor,p
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

μ^- invisible hadron (hadrons)
(130 – 140) Acciarri 96D et,mass,p,pt

μ^+ invisible hadron (hadrons)
(130 – 140) Acciarri 96D et,mass,p,pt

$\mu^- e^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- 2e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^+ 2e^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^+ e^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- \bar{\nu}_\mu$ mult[charged] (neutrals)
(183) Abbiendi 98L col,mult,p

$\mu^+ \nu_\mu$ mult[charged] (neutrals)
(183) Abbiendi 98L col,mult,p

$2\mu^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- \mu^+ e^\pm$ X
(91.2) Ackerstaff 96G angp

$\mu^- \mu^+ e^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- \mu^+ e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$2\mu^+ e^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$2\mu^- \mu^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- 2\mu^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\mu^- \nu_\tau \bar{\nu}_\mu$ X + $\mu^+ \bar{\nu}_\tau \nu_\mu$ X
(91) Abreu 95F cs

$\mu^+ \bar{\nu}_\tau \nu_\mu$ X
(91.2) Abreu 95T angp,const,cor

$\tau^- \tau^+ \gamma$ (γ's)
(91.2) Acciarri 98H ang,angp,p
Taylor 97 ang,angp,p
Wermes 97 angp,const

$\pi^+ \ell^- \bar{\nu}$ X + $\pi^- \ell^+ \nu$ X
(10.58) Gibbons 95B mass

$2\pi^+ e^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\pi^+ \pi^- e^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\pi^+ \pi^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$2\pi^- e^+$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$2\pi^+ \mu^-$ X
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^+ e^-$

$2\pi^+ \mu^- X$
(10.58) Bartelt 94 cs,mass,p,pt

$\pi^+ \pi^- \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\pi^+ \pi^- \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$2\pi^- \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$\rho^+ \ell^- \bar{\nu} X + \rho^- \ell^+ \nu X$
(10.58) Gibbons 95B mass

$K_S e^- e^+ X$
(58) Enomoto 94B cs,pt

$K^+ \pi^+ e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ \pi^- e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ \pi^- e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^+ e^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^+ e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^- e^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ \pi^+ \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ \pi^- \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ \pi^- \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^+ \mu^- X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^+ \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^- \pi^- \mu^+ X$
(9.4) Bartelt 94 cs,mass,p,pt
(9.46) Bartelt 94 cs,mass,p,pt
(10.58) Bartelt 94 cs,mass,p,pt

$K^+ K^- e^- X$
(10.6) Avery 94B amp,mass,p

$K^+ K^- e^+ X$
(10.6) Avery 94B amp,mass,p
Butler 94 mass

$e^+ e^-$

$K^+ K^- \mu^+ X$
(10.6) Butler 94 mass

$e^- e^+$ charm X
(58) Aso 95B cs

$e^- e^+ \overline{\text{charm}}$ X
(58) Aso 95B cs

$D^0 \pi^+ \ell^+ X$
(91.2) Alexander 96N angp,mass,p

$\bar{D}^0 \pi^- \ell^- X$
(91.2) Alexander 96N angp,mass,p

$D^*(2010)^\pm e^- e^+ X$
(57.16) Enomoto 93 cs,pt
(58.1) Enomoto 94 pt

$D^*(2010)^+ e^- e^+ X$
(58) Ohyama 96 cs,p,pt
Takashimizu 96 cs
Aso 95 cs,pt
Sakuda 93 pt
(90) Buskulic 95C cs

$D^*(2010)^- e^- e^+ X$
(58) Ohyama 96 cs,p,pt
Takashimizu 96 cs
Aso 95 cs,pt
Sakuda 93 pt
(90) Buskulic 95C cs

$D^*(2010)^+ K^+ e^- X$
(10.58) Albrecht 95H p

$D^*(2010)^+ K^- e^- X$
(10.58) Albrecht 95H p

$D^*(2010)^- K^+ e^+ X$
(10.58) Albrecht 95H p

$D^*(2010)^- K^- e^+ X$
(10.58) Albrecht 95H p

$D^*(2010)^+ K^+ \mu^- X$
(10.58) Albrecht 95H p

$D^*(2010)^+ K^- \mu^- X$
(10.58) Albrecht 95H p

$D^*(2010)^- K^+ \mu^+ X$
(10.58) Albrecht 95H p

$D^*(2010)^- K^- \mu^+ X$
(10.58) Albrecht 95H p

$p \pi^- e^+ X$
(10.4) Albrecht 94F ang,mass,p
(10.58) Bergfeld 94 mass

$p \pi^- \mu^+ X$
(10.4) Albrecht 94F ang,mass,p
(10.58) Bergfeld 94 mass

$\Lambda e^- e^+ X$
(58) Enomoto 94C angp,cs,pt

$\bar{\Lambda} e^- e^+ X$
(58) Enomoto 94C angp,cs,pt

$\Lambda \pi^0 e^+ X$
(10) Alexander 94 angp,mass

$\Lambda \pi^- e^+ X$
(10) Alexander 94 angp,mass

$\bar{\Lambda} \pi^+ e^- X$
(10) Alexander 94 angp,mass

$\bar{\Lambda} \pi^0 e^- X$
(10) Alexander 94 angp,mass

$e^+ e^-$

2charged (neutrals) X
(10.6) Battle 94 mass

2charged (chargeds) X
(58) Kanda 95 ang,cor,p,pt
(91.2) Buskulic 95M mult,p

2charged$^+$ mult[charged] X
(91.2) Alexander 96J angp,cor,mult

3charged$^+$ X
(91.2) Abreu 95I ang,cor,p

charged$^+$ charged$^-$ mult[charged] X
(91.2) Alexander 96J angp,cor,mult

2charged$^+$ charged$^-$ X
(91.2) Abreu 95I ang,cor,p

2charged$^-$ mult[charged] X
(91.2) Alexander 96J angp,cor,mult

charged$^+$ 2charged$^-$ X
(91.2) Abreu 95I ang,cor,p

3charged$^-$ X
(91.2) Abreu 95I ang,cor,p

2charged neutral (neutrals)
(91.2) Andreazza 95 cor,p
Davier 95 cor,p
Ferrante 95 cor,p

charged$^+$ charged$^-$ neutral (neutrals)
(91.2) Buskulic 94I cs,mass,pt

charged neutral (neutrals) X
(91.2) Biasini 95 cor,p
Davier 95 cor,p

(jets) 2jet X
(91.2) Buskulic 96H -

invisible (jets) 2jet
(130) Abreu 96M ang,cor,cs,et
(136) Abreu 96M ang,cor,cs,et

2jet < jet X >
(90.95 – 91.45) Akers 94E mult
(91.2) Moutoussi 96 mult,p

3jet X
(91.2) Akers 94Q ang,mass
(130 – 136) Abreu 96R const,p

(jets) 3jet
(91.2) Abreu 98E ang,cor,p
Abreu 96ZD mass,p,pt
Syed 95 angp,cs
Abe 94ZB const,cs,p

(γ's) 2hadron (hadrons)
(91.2) Acciarri 98G angp,col,cor,mult,p
Acciarri 97ZB angp,col,cor,mult,p
(130) Buskulic 96Y angp,const,cs
(130.3) Acciarri 98B angp,const,cs
Acciarri 95K cs
(136) Buskulic 96Y angp,const,cs
(136.3) Acciarri 98B angp,const,cs
Acciarri 95K cs
(140.2) Acciarri 98B angp,const,cs
Acciarri 95K cs
(161) Acciarri 97Z angp,cs
Ackerstaff 96I angp,cs
(161.3) Acciarri 98B angp,const,cs
(170.3) Acciarri 98B angp,const,cs

$e^+ e^-$

(γ's) 2hadron (hadrons)
(172) Acciarri 97Z angp,cs
(172.3) Acciarri 98B angp,const,cs

hadron$^+$ hadron$^-$ neutral (neutrals)
(91.2) Acciarri 95 col,mass

2charged-hadron (charged-hadrons) X
(91.2) Abbiendi 99B col,cor,mult,p,pt

γ 2neutral (neutrals)
(58) Hosoda 94 cs

jet jet < γ X >
(88.25 – 94.25) Buskulic 95D cs,p

γ (jets) 2jet
(91.2) Syed 95 angp,cs

γ 2hadron (hadrons)
(91.2) Acciarri 97M col,const,mass,p
(130) Alexander 96U angp,cor,cs
(136) Alexander 96U angp,cor,cs

γ (γ's) 2longlived
(183) Acciarri 98W angp,cs

2γ hadron (hadrons)
(91.2) Acciarri 96G cs,mass,p

2γ (γ's) longlived
(130.3) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(136.2) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(161.3) Ackerstaff 97ZD angp,cs,mass,p
(172.1) Ackerstaff 97ZD angp,cs,mass,p
(183) Abbiendi 98J angp,cs,mass,p

3γ X
(133 – 140) Acciarri 96 cs

Z^0 < hadron (hadrons) X >
(91.2) Fero 94 asym,const

c jet < charged X >
(91.2) Kobel 96 col,mult
Akers 95I col,mult

$\bar{c}$ jet < charged X >
(91.2) Kobel 96 col,mult
Akers 95I col,mult

b jet < charged X >
(91.2) Kobel 96 col,mult
Akers 95I col,mult
Behnke 95 col,mult
Akers 93H col,mult

$\bar{b}$ jet < charged X >
(91.2) Kobel 96 col,mult
Akers 95I col,mult
Behnke 95 col,mult
Akers 93H col,mult

γ (γ's) 2neutralino
(161) Barate 97V ang,angp,cs,mass
(161.3) Acciarri 97K cs
(170) Barate 97V ang,angp,cs,mass
(172) Barate 97V ang,angp,cs,mass
(172.3) Acciarri 97K cs
(183) Barate 98I cs

γ (γ's) 2photino
(161.3) Acciarri 97K cs
(172.3) Acciarri 97K cs

$e^+ e^-$

γ (γ's) 2gravitino
(183) Barate 98I cs

γ (γ's) 2higgsino
(161.3) Acciarri 97K cs
(172.3) Acciarri 97K cs

jet jet < π^+ X >
(91.2) Abe 97E cor,p

jet jet < π^- X >
(91.2) Abe 97E cor,p

$\pi^+ \pi^-$ neutral (neutrals)
(91.2) Acciarri 95 col,mass

$\pi^+ \pi^- \gamma$ X
(10.6) Asner 98 mass

3π^+ X
(91.2) Ackerstaff 98K ang,cor,p

2$\pi^+ \pi^-$ X
(91.2) Ackerstaff 98K ang,cor,p

2$\pi^+ \pi^-$ X + π^+ 2π^- X
(10.58) Albrecht 94I mass,p

$\pi^+ \pi^0 \pi^-$ X
(9.46) Albrecht 94G mass

π^+ 2π^- X
(29) Bauer 93B angp,mass,p
(91.2) Ackerstaff 98K ang,cor,p

3π^- X
(91.2) Ackerstaff 98K ang,cor,p

ρ^0 < $\pi^+ \pi^-$ > X
(91.2) Abreu 97G ang,angp,p

f_0(980) charged-hadron (hadrons) X
(91.2) Ackerstaff 98B cor,mult,p

f_2(1270) charged-hadron (hadrons) X
(91.2) Ackerstaff 98B cor,mult,p

K^0 charged (chargeds) X
(91.2) Abreu 95V p

jet jet < K^+ X >
(91.2) Abe 97E cor,p

jet jet < K^- X >
(91.2) Abe 97E cor,p

K^+ hadron (hadrons) X
(91.2) Abreu 94O p,pt

K^- hadron (hadrons) X
(91.2) Abreu 94O p,pt

$K^\pm$ 2γ X
(10.6) Battle 94 mass

$K^+ \pi^-$ neutral (neutrals)
(91.2) Acciarri 95 col,mass

$K^- \pi^+$ neutral (neutrals)
(91.2) Acciarri 95 col,mass

kaon $\pi \gamma$ X
(10.58) Alam 94B mass,p

$K^- \pi^+ \gamma$ X
(10.6) Asner 98 mass
Brown 94 mass

$K_S \pi \gamma$ X
(10.58) Alam 94B mass,p

$K^\pm$ 2π^0 X
(10.6) Battle 94 mass

$K^+ \pi^+ \pi^-$ X
(10.58) Cinabro 93B mass

$K^+ \pi^0 \pi^-$ X
(10.58) Barish 96 mass

$e^+ e^-$

K^+ 2π^- X
(10) Albrecht 94N mass
(10.58) Bergfeld 94B angp,mass,p
(29) Bauer 93B angp,mass,p
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

K^- 2π^+ X
(10) Albrecht 94N mass
(10.52 – 10.7) Balest 94 mass
(10.58) Alam 94C cs,mass
Bergfeld 94B angp,mass,p
Cinabro 93B mass
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

$K^- \pi^+ \pi^0$ X
(10.58) Barish 96 mass
Alam 94C cs,mass
Avery 94 mass

$K^- \pi^+ \pi^-$ X
(29) Bauer 93B angp,mass,p

$K_S \pi^+ \pi^-$ X
(10.4) Albrecht 94L angp,mass,p
Litvintsev 94 mass

$K^+ K^- \gamma$ X
(10.6) Asner 98 mass

$K^+ K^- \pi^+$ X
(10.35 – 10.58) Kubota 94 mass
(10.6) Butler 94 mass

$K^+ K^- \pi^0$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$K^+ K^- \pi^-$ X
(29) Bauer 93B angp,mass,p

2$K^- \pi^+$ X
(29) Bauer 93B angp,mass,p

K^+ 2K_S X
(9.4 – 10.6) Albrecht 94J cs,mass

jet jet < $K^*(892)^0$ X >
(91.2) Abe 97E cor,p

jet jet < $\overline{K}^*(892)^0$ X >
(91.2) Abe 97E cor,p

$K^*(892)^0$ < $K^+ \pi^-$ > X
(91.2) Abreu 97G ang,angp,p

$K^*(892)^0$ $K^- \pi^+$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$\overline{K}^*(892)^0$ $K^+ \pi^-$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$\overline{K}^*(892)^0$ < $K^- \pi^+$ > X
(91.2) Abreu 97G ang,angp,p

ϕ(1020) charged-hadron (hadrons) X
(91.2) Ackerstaff 98B cor,mult,p

ϕ(1020) $\pi^+ \gamma$ X
(10.6) Brown 94 mass

ϕ(1020) $\pi^+ \pi^-$ X
(9.4 – 10.6) Albrecht 94J cs,mass

ϕ(1020) < $K^+ K^-$ > X
(91.2) Abreu 97G ang,angp,p

D^+ charged (chargeds) X
(89.45) Alexander 96S angp,cor,p
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

D^0 charged (chargeds) X
(89.45) Alexander 96S angp,cor,p

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$e^+ e^-$

D^0 charged (chargeds) X
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

$\overline{D}^0$ charged (chargeds) X
(89.45) Alexander 96S angp,cor,p
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

D^- charged (chargeds) X
(89.45) Alexander 96S angp,cor,p
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

$D^+ 2\pi^- X$
(10.58) Alam 94C cs,mass

$D^0 \pi^+ \pi^0 X$
(10.58) Bergfeld 94B angp,mass,p

$D^0 \pi^+ \pi^- X$
(10.58) Alam 94C cs,mass

$\overline{D}^0 \pi^0 \pi^- X$
(10.58) Bergfeld 94B angp,mass,p

$D^*(2010)^+$ charged (chargeds) X
(89.45) Alexander 96S angp,cor,p
(91.2) Buskulic 96R ang,cor
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

$D^*(2010)^-$ charged (chargeds) X
(89.45) Alexander 96S angp,cor,p
(91.2) Buskulic 96R ang,cor
(91.22) Alexander 96S angp,cor,p
(93) Alexander 96S angp,cor,p

$D^*(2010)^+ \pi^+ \pi^- X$
(91.2) Abreu 98D cs,mass

$D^*(2010)^+ 2\pi^- X$
(10.58) Alam 94C cs,mass

$D^*(2010)^- \pi^+ \pi^- X$
(91.2) Abreu 98D cs,mass

$D^*(2010)^+ < D^0 \pi^+ > X$
(10.5) Brandenburg 98 ang,angp,p

$D^*(2010)^- < \overline{D}^0 \pi^- > X$
(10.5) Brandenburg 98 ang,angp,p

$J/\psi(1S) \pi^+ \pi^- X$
(4.03) Bai 98B mass
(88.2 – 94.2) Abreu 94M mass

$K^+ J/\psi(1S) \pi^0 X$
(10.6) Albrecht 94P ang,angp,mass

$K^+ J/\psi(1S) \pi^- X$
(10.6) Albrecht 94P ang,angp,mass

$K^0 J/\psi(1S) \pi^+ X$
(10.6) Albrecht 94P ang,angp,mass

$\overline{K}^0 J/\psi(1S) \pi^- X$
(10.6) Albrecht 94P ang,angp,mass

$e^+ e^-$

$K^- J/\psi(1S) \pi^+ X$
(10.6) Albrecht 94P ang,angp,mass

$K^- J/\psi(1S) \pi^0 X$
(10.6) Albrecht 94P ang,angp,mass

B^0 (jets) 2jet
(91.2) Ackerstaff 98 const,p

$\overline{B}^0$ (jets) 2jet
(91.2) Ackerstaff 98 const,p

B^0 charged-hadron (charged-hadrons) (neutrals)
(91.2) Ackerstaff 98 const,p

$\overline{B}^0$ charged-hadron (charged-hadrons) (neutrals)
(91.2) Ackerstaff 98 const,p

n charged (chargeds) X
(91.2) Abreu 95V p

$\overline{n}$ charged (chargeds) X
(91.2) Abreu 95V p

jet jet $< p$ X >
(91.2) Abe 97E cor,p

jet jet $< \overline{p}$ X >
(91.2) Abe 97E cor,p

$p 2\pi^0 X$
(10.52 – 10.58) Bishai 95 ang,angp,mass,p

$p \pi^+ \pi^- X$
(10.52 – 10.58) Bishai 95 ang,angp,mass,p

$\overline{p} 2\pi^0 X$
(10.52 – 10.58) Bishai 95 ang,angp,mass,p

$\overline{p} \pi^+ \pi^- X$
(10.52 – 10.58) Bishai 95 ang,angp,mass,p

$p K^- \pi^+ X$
(10.52 – 10.58) Alexander 95 cs,mass
(10.56) Ammar 95 mass,p

$\overline{p} K^+ \pi^- X$
(10.56) Ammar 95 mass,p

$p K_S \eta X$
(10.56) Ammar 95 mass,p

$\overline{p} K_S \eta X$
(10.56) Ammar 95 mass,p

$p K^+ K^- X$
(10.52 – 10.58) Alexander 95 cs,mass

jet jet $< \Lambda$ X >
(91.2) Abe 97E cor,p

jet jet $< \overline{\Lambda}$ X >
(91.2) Abe 97E cor,p

$\Lambda \pi^+ \pi^- X$
(10) Alexander 94 angp,mass
(91.2) Abreu 95C mass,p

$\overline{\Lambda} \pi^+ \pi^- X$
(10) Alexander 94 angp,mass
(91.2) Abreu 95C mass,p

$\Lambda \eta \pi^+ X$
(10.56) Ammar 95 mass,p

$\overline{\Lambda} \eta \pi^- X$
(10.56) Ammar 95 mass,p

$\Lambda K^+ K_S X$
(10.56) Ammar 95 mass,p

$\overline{\Lambda} K_S K^- X$
(10.56) Ammar 95 mass,p

$e^+ e^-$

$\overline{p} \Lambda K^+ X$
(91.2) Abreu 97B cor,mult,p

$\overline{p} \Lambda K^- X$
(91.2) Abreu 97B cor,mult,p

$p \overline{\Lambda} K^+ X$
(91.2) Abreu 97B cor,mult,p

$p \overline{\Lambda} K^- X$
(91.2) Abreu 97B cor,mult,p

$\Sigma^+ K^*(892) \pi^- X$
(10.5 – 10.7) Avery 95 mass

$\Xi^0 \pi^+ \pi^0 X$
(10.6) Edwards 95B mass

$\Xi^- 2\pi^+ X$
(10) Alexander 94 angp,mass

$\overline{\Xi}^+ 2\pi^- X$
(10) Alexander 94 angp,mass

$\overline{\Xi}^0 \pi^0 \pi^- X$
(10.6) Edwards 95B mass

$\Xi^- K^+ \pi^+ X$
(10.4) Albrecht 94S cs,mass,p

$\overline{\Xi}^+ K^- \pi^- X$
(10.4) Albrecht 94S cs,mass,p

$\Lambda_c^+ \pi^+ \pi^- X$
(10.4) Litvintsev 94 mass
(10.52 – 10.58) Fujino 95 cor,mass,p
Edwards 94 cor,mass,p

$\overline{\Lambda}_c^- \pi^+ \pi^- X$
(10.52 – 10.58) Fujino 95 cor,mass,p
Edwards 94 cor,mass,p

$2\ell^-$ charged (chargeds) X
(91.2) Buskulic 96R ang,cor

$\ell^+ \ell^-$ charged (chargeds) X
(91.2) Buskulic 96R ang,cor

$2\ell^+$ charged (chargeds) X
(91.2) Buskulic 96R ang,cor

$\nu \overline{\nu} 2\gamma$ (γ's)
(130.3) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(136.2) Abbiendi 98J angp,cs,mass,p
Ackerstaff 97ZD angp,cs,mass,p
(161) Barate 97V ang,angp,cs,mass
(161.3) Ackerstaff 97ZD angp,cs,mass,p
(170) Barate 97V ang,angp,cs,mass
(172) Barate 97V ang,angp,cs,mass
(172.1) Ackerstaff 97ZD angp,cs,mass,p
(183) Abbiendi 98J angp,cs,mass,p

e^- 2hadron$^+$ hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

e^+ hadron$^+$ 2hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$e^- e^+$ 2jet X
(58) Shirai 94 ang,p
Tauchi 94 p,pt
(130) Ackerstaff 96 angp,p
(136) Ackerstaff 96 angp,p
(161) Abbiendi 98B angp,cs,p
(172) Abbiendi 98B angp,cs,p

$e^+ e^-$

$e^- \overline{\nu}_e$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$e^+ \nu_e$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$e^- e^+$ (jets) 2jet
(91.2) Alexander 96 ang,mass,p
(130 – 136) Alexander 96 ang,mass,p

$e^- e^+$ (hadrons) 2jet
(88.3 – 94.3) Abreu 94D cs,p

$2e^-$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$e^- e^+$ hadron (hadrons) X
(58) Aso 95 angp,mass,p,pt
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$2e^+$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$e^- e^+$ hadron (hadrons) jet
(88.3 – 94.3) Abreu 94D cs,p

$e^- e^+$ 2hadron (hadrons)
(58) Kojima 97 angp,p
Itoh 95 p
(130) Acciarri 97E cs,mass
(136) Acciarri 97E cs,mass
(140) Acciarri 97E cs,mass
(161) Acciarri 97E cs,mass

(K_S) $e^- e^+$ charged-hadron (charged-hadrons)
(161) Ackerstaff 98O angp
(172) Ackerstaff 98O angp

$e^- e^+ \nu_e \overline{\nu}_e$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

μ^- 2hadron$^+$ hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

μ^+ hadron$^+$ 2hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$\mu^- e^-$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^- e^+$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^+ e^-$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^+ e^+$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^- e^+ \overline{\nu}_\mu \nu_e$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\mu^+ e^- \nu_\mu \overline{\nu}_e$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\mu^- \overline{\nu}_\mu$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$\mu^+ \nu_\mu$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$e^+ e^-$

$\mu^- \mu^+$ (jets) 2jet
(91.2) Alexander 96 ang,mass,p
(130 – 136) Alexander 96 ang,mass,p

$2\mu^-$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^- \mu^+$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$2\mu^+$ hadron (hadrons) X
(88.2 – 94.2) Acciarri 94D angp,col,p,pt

$\mu^- \mu^+ \nu_\mu \overline{\nu}_\mu$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\tau^- e^+ \overline{\nu}_\tau \nu_e$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\tau^+ e^- \nu_\tau \overline{\nu}_e$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\tau^- \mu^+ \overline{\nu}_\tau \nu_\mu$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\tau^+ \mu^- \nu_\tau \overline{\nu}_\mu$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$\tau^- \overline{\nu}_\tau$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$\tau^+ \nu_\tau$ (γ's) 2jet
(161.3) Acciarri 97 angp,const,mass,p

$\tau^- \tau^+ \nu_\tau \overline{\nu}_\tau$ (γ's)
(161.3) Acciarri 97 angp,const,mass,p

$e^- e^+ \overline{c}\, c$ X
(91) Acciarri 98T cs,pt
(133) Acciarri 98T cs,pt
(167) Acciarri 98T cs,pt
(183) Acciarri 98T cs,pt

$\tau^- < \pi^- \nu_\tau > \tau^+ < X >$
(91.2) Buskulic 94 cor

$\tau^- < X > \tau^+ < \pi^+ \overline{\nu}_\tau >$
(91.2) Buskulic 94 cor

$\pi^+ \pi^- e^- e^+$ X
(58) Enomoto 94B mass,pt

$\tau^- < \rho^- \nu_\tau > \tau^+ < X >$
(91.2) Buskulic 94 cor

$\tau^- < X > \tau^+ < \rho^+ \overline{\nu}_\tau >$
(91.2) Buskulic 94 cor

$D^*(2010)^+ \ell^-$ charged-hadron (charged-hadrons)X
(91.2) Alexander 96N angp,cor,p

$D^*(2010)^- \ell^+$ charged-hadron (charged-hadrons)X
(91.2) Alexander 96N angp,cor,p

$p \pi^0 \pi^- e^+$ X
(10) Alexander 94 angp,mass

$p\, 2\pi^- e^+$ X
(10) Alexander 94 angp,mass

$\overline{p}\, 2\pi^+ e^-$ X
(10) Alexander 94 angp,mass

$e^+ e^-$

$\overline{p} \pi^+ \pi^0 e^-$ X
(10) Alexander 94 angp,mass

$p \overline{p} e^- e^+$ X
(58) Uehara 95 ang,cs,p,pt

$p \overline{\Lambda} e^- e^+$ X
(58) Uehara 95 ang,cs,p,pt

$\Lambda \overline{\Lambda} e^- e^+$ X
(58) Uehara 95 ang,cs,p,pt

3charged neutral X
(9.38 – 9.51) Albrecht 94O cs,p
(9.98 – 10.04) Albrecht 94O cs,p
(10.54 – 10.61) Albrecht 94O cs,p

charged (jets) 3jet
(91.2) Abreu 95C mult

4jet X
(91.2) Abreu 95X col
(130 – 136) Abreu 96R const,p

3jet < jet X >
(90.95 – 91.45) Akers 94E mult
(91.2) Moutoussi 96 mult,p

(γ's) 4jet
(161.3) Acciarri 97 angp,const,mass,p

(jets) 4jet
(91.2) Abreu 96ZD mass,p,pt

2jet jet < γ X >
(88.25 – 94.25) Buskulic 95D cs,p

2γ (γ's) hadron$^+$ hadron$^-$
(91.2) Acciarri 95 col,mass

4γ X
(133 – 140) Acciarri 96 cs

2jet jet < ℓ X >
(88.28 – 95.04) Akers 95K mult

$2\overline{b}\, 2b$ X
(91.2) Abreu 95X col

2γ (γ's) 2neutralino
(161) Barate 97V ang,angp,cs,mass
(170) Barate 97V ang,angp,cs,mass
(172) Barate 97V ang,angp,cs,mass

π^0 2charged$^+$ charged$^-$ X
(10.6) Urheim 94 mass,p

π^0 charged$^+$ 2charged$^-$ X
(10.6) Urheim 94 mass,p

π^0 (jets) 3jet
(91.2) Acciarri 95M mult,p

$\pi^+ \pi^0 \pi^- \gamma$ X
(10.6) Asner 98 mass

η (jets) 3jet
(91.2) Acciarri 95M mult,p

2jet jet < $f_0(980)$ X >
(91.2) Ackerstaff 98B cs,p

2jet jet < $f_2(1270)$ X >
(91.2) Ackerstaff 98B cs,p

K^0 (jets) 3jet
(91.2) Abreu 95C mult

$K^+ \pi^0$ hadron (hadrons) X
(91.2) Abreu 94O mass,p,pt

$K^- \pi^0$ hadron (hadrons) X
(91.2) Abreu 94O mass,p,pt

kaon 2π γ X
(10.58) Alam 94B mass,p

kaon π^0 π γ X
(10.58) Alam 94B mass,p

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$e^+ e^-$

$K_S\ 2\pi\ \gamma$ X
(10.58) Alam 94B mass,p

$K_S\ \pi^0\ \pi\ \gamma$ X
(10.58) Alam 94B mass,p

$K^+\ \pi^+\ 2\pi^-$ X
(10) Albrecht 94N mass
(10.4) Albrecht 94L angp,mass,p
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

$K^+\ \pi^0\ 2\pi^-$ X
(10.58) Bergfeld 94B angp,mass,p
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

$K^-\ 2\pi^+\ \pi^0$ X
(10.58) Bergfeld 94B angp,mass,p
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

$K^-\ 2\pi^+\ \pi^-$ X
(10) Albrecht 94N mass
(10.4) Albrecht 94L angp,mass,p
Litvintsev 94 mass
(10.58) Alam 94C cs,mass
Avery 94 mass
(88.3 – 94.3) Behnke 95 mass,p
Buskulic 93P mass,p

$K^+\ K^-\ 2\gamma$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$K^+\ K^-\ \pi^+\ \gamma$ X
(10.6) Gronberg 95 mass

$K^+\ K^-\ \pi^-\ \gamma$ X
(10.6) Gronberg 95 mass

$K^+\ K^-\ \pi^+\ \pi^0$ X
(10.35 – 10.58) Kubota 94 mass
(10.6) Gronberg 95 mass

$K^+\ K^-\ \pi^+\ \pi^-$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$K^+\ K^-\ \pi^0\ \pi^-$ X
(10.6) Gronberg 95 mass

$2K_S\ \pi^+\ \pi^-$ X
(9.4 – 10.6) Albrecht 94J cs,mass
(10.4) Litvintsev 94 mass

2jet jet < $\phi(1020)$ X >
(91.2) Ackerstaff 98B cs,p

$D^*(2007)^0\ \pi^+\ 2\pi^-$ X
(10.58) Alam 94C cs,mass

$p\ \pi^+\ 2\pi^-$ X
(10) Alexander 94 angp,mass

$\bar{p}\ 2\pi^+\ \pi^-$ X
(10) Alexander 94 angp,mass

$p\ K_S\ \pi^+\ \pi^-$ X
(10.4) Litvintsev 94 mass,p

$p\ K^+\ K^-\ \pi^-$ X
(10.4) Albrecht 94S cs,mass,p

$\bar{p}\ K^+\ K^-\ \pi^+$ X
(10.4) Albrecht 94S cs,mass,p

$p\ \bar{p}\ \pi^+\ \pi^-$ X
(91.2) Alexander 96M ang,angp,mass,p

Λ (jets) 3jet
(91.2) Abreu 95C mult

$\Lambda\ 2\pi^+\ \pi^-$ X
(10) Alexander 94 angp,mass
(10.4) Litvintsev 94 mass,p

$e^+ e^-$

$\bar{\Lambda}\ \pi^+\ 2\pi^-$ X
(10) Alexander 94 angp,mass

$\Lambda\ K^+\ \pi^+\ \pi^-$ X
(10.4) Albrecht 94S cs,mass,p

$\bar{\Lambda}\ K^-\ \pi^+\ \pi^-$ X
(10.4) Albrecht 94S cs,mass,p

jet jet < 2Λ X >
(91.2) Abbiendi 98D angp,mult,p

jet jet < $\Lambda\ \bar{\Lambda}$ X >
(91.2) Abbiendi 98D angp,mult,p

jet jet < $2\bar{\Lambda}$ X >
(91.2) Abbiendi 98D angp,mult,p

Ξ^- (jets) 3jet
(91.2) Abreu 95C mult

$\Xi^0\ 2\pi^+\ \pi^-$ X
(10.6) Edwards 95B mass

$\Xi^0\ \pi^+\ \pi^0\ \pi^-$ X
(10.5 – 10.7) Avery 95 mass

$\Xi^-\ 2\pi^+\ \pi^-$ X
(10.5 – 10.7) Avery 95 mass

$\bar{\Xi}^0\ \pi^+\ 2\pi^-$ X
(10.6) Edwards 95B mass

$2e^-$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$e^-\ e^+$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$2e^+$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$2\mu^-$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$\mu^-\ \mu^+$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$2\mu^+$ hadron (hadrons) (neutrals) X
(91.2) Buskulic 96F et,p,pt

$\pi^0\ e^-$ 2hadron$^+$ hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$\pi^0\ e^+$ hadron$^+$ 2hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$\pi^0\ \mu^-$ 2hadron$^+$ hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$\pi^0\ \mu^+$ hadron$^+$ 2hadron$^-$ X
(9.4 – 10.6) Albrecht 95B ang,angp,cor

$K^-\ 2\pi^+\ \ell^-\ \bar{\nu}$ X
(10.58) Barish 94 mass

$K^-\ \pi^+\ \pi^0\ \ell^-\ \bar{\nu}$ X
(10.58) Barish 94 mass

$D^0\ \pi^+\ \ell^-$ charged-hadron (charged-hadrons)X
(91.2) Alexander 96N angp,mass,p

$\bar{D}^0\ \pi^-\ \ell^+$ charged-hadron (charged-hadrons)X
(91.2) Alexander 96N angp,mass,p

4charged (neutrals) X
(9.4) Bartelt 94 angp,p,pt
(9.46) Bartelt 94 angp,p,pt
(10.58) Bartelt 94 angp,p,pt
(10.6) Battle 94 mass

$e^+ e^-$

5charged X
(88.2 – 94.2) Akers 94D col
(90.95 – 91.45) Akers 94E col

3charged neutral (neutrals) X
(91.2) Charlesworth 95 cor,p
Davier 95 cor,p

5jet X
(130 – 136) Abreu 96R const,p

3jet < hadron (hadrons) > X
(91.2) Acciarri 95E mult,p

γ 2jet < hadron (hadrons) > X
(91.2) Acciarri 95E mult,p

$\bar{b}$ < charged X > b < charged X >
(91.55) Abe 94ZC mult

W^- < π^+ X > W^+ < π^+ X >
(172) Abreu 97C angp,const,cor,mass

W^- < π^- X > W^+ < π^+ X >
(172) Abreu 97C angp,const,cor,mass

W^- < π^+ X > W^+ < π^- X >
(172) Abreu 97C angp,const,cor,mass

W^- < π^- X > W^+ < π^- X >
(172) Abreu 97C angp,const,cor,mass

kaon $3\pi\ \gamma$ X
(10.58) Alam 94B mass,p

kaon $\pi^0\ 2\pi\ \gamma$ X
(10.58) Alam 94B mass,p

$K_S\ 3\pi\ \gamma$ X
(10.58) Alam 94B mass,p

$K_S\ \pi^0\ 2\pi\ \gamma$ X
(10.58) Alam 94B mass,p

$K^+\ 2\pi^0\ 2\pi^-$ X
(10.58) Bergfeld 94B angp,mass,p

$K^-\ 2\pi^+\ 2\pi^0$ X
(10.58) Bergfeld 94B angp,mass,p

$K^+\ K^-\ 2\pi^+\ \pi^-$ X
(10.4) Litvintsev 94 mass

$K^+\ K^-\ \pi^+\ \pi^0\ \pi^-$ X
(9.4 – 10.6) Albrecht 94J cs,mass

$p\ 2\pi^+\ 2\pi^-$ X
(10) Alexander 94 angp,mass

$\bar{p}\ 2\pi^+\ 2\pi^-$ X
(10) Alexander 94 angp,mass

$p\ K^+\ \pi^+\ 2\pi^-$ X
(10.4) Albrecht 94S cs,mass,p

$p\ K^-\ 2\pi^+\ \pi^-$ X
(10.4) Litvintsev 94 mass,p

$\bar{p}\ K^-\ 2\pi^+\ \pi^-$ X
(10.4) Albrecht 94S cs,mass,p

2jet jet < 2Λ X >
(91.2) Abbiendi 98D angp,mult,p

2jet jet < $\Lambda\ \bar{\Lambda}$ X >
(91.2) Abbiendi 98D angp,mult,p

2jet jet < $2\bar{\Lambda}$ X >
(91.2) Abbiendi 98D angp,mult,p

$e^-\ e^+$ 3charged (chargeds) X
(58) Enomoto 94B angp,pt

$e^-\ e^+$ 4charged (chargeds)
(58) Iwasaki 94 angp,p

$e^+ e^-$

5charged (chargeds) X

(58)	Kanda 95	p,pt
(91.2)	Baird 95	angp,col,const,cor,p,pt
	Abe 94W	angp,col,const,cor,p,pt

5charged (chargeds) (neutrals)

(91.2)	Abreu 96ZD	angp,col,mass,p,pt

5charged-hadron (charged-hadrons) X

(91.2)	Buskulic 96H	angp,col,cor,p,pt

(jets) 3jet jet $< \gamma$ X $>$

(88.25 – 94.25)	Buskulic 95D	cs,p

π^0 4charged (chargeds) (neutrals)

(91.2)	Barate 96	col,p,p,pt

$3\pi^+ \pi^0 2\pi^-$ X

(10.6)	Urheim 94	mass,p

$2\pi^+ \pi^0 3\pi^-$ X

(10.6)	Urheim 94	mass,p

kaon $4\pi \gamma$ X

(10.58)	Alam 94B	mass,p

kaon $\pi^0 3\pi \gamma$ X

(10.58)	Alam 94B	mass,p

K_S $4\pi \gamma$ X

(10.58)	Alam 94B	mass,p

K_S $\pi^0 3\pi \gamma$ X

(10.58)	Alam 94B	mass,p

Λ $3\pi^+ 2\pi^-$ X

(10.4)	Litvintsev 94	mass,p

$2\pi^+ 3\pi^- \tau^+ \nu_\tau$ (neutrals)

(10.6)	Gibaut 94	cs,mass

6charged (chargeds) X

(91.2)	Abe 96Z	cor,p

6charged-hadron (charged-hadrons) (neutrals)

(91.2)	Abreu 97I	col,cor,p

Z^0

(88.2 – 94.22)	Kramer 94	–
(88.28 – 95.04)	Akers 95K	–
(88.4 – 93.7)	Acciarri 96M	cs
(89.46)	Abreu 98L	–
(91)	Abreu 95E	cs
(91 – 91.5)	Kramer 94	–
(91.2)	Abbiendi 98H	–
	Abbiendi 98K	–
	Abreu 98L	–
	Abe 97B	–
	Abe 97J	–
	Abe 97U	–
	Abreu 97G	–
	Abreu 97H	–
	Abreu 97I	–
	Acciarri 97F	–
	Acciarri 97I	–
	Acciarri 97M	–
	Ackerstaff 97K	–
	Ackerstaff 97L	–
	Ackerstaff 97M	–
	Ackerstaff 97O	–
	Barate 97C	–
	Barate 97F	–
	Barate 97G	–
	Lorstad 97	–
	Roney 97	const,cs
	Weber 97	–
	Abe 96Y	–
	Abe 96ZE	–
	Abe 96ZF	–
	Abe 96ZG	–
	Abreu 96E	–
	Abreu 96F	–
	Abreu 96H	–
	Abreu 96J	–
	Abreu 96P	–

$e^+ e^-$

Z^0

	Abreu 96Q	–
	Abreu 96S	–
	Abreu 96U	–
	Abreu 96V	–
	Abreu 96ZB	–
	Abreu 96ZC	–
	Acciarri 96B	–
	Acciarri 96G	–
	Acciarri 96H	–
	Acciarri 96I	–
	Acciarri 96J	–
	Acciarri 96K	–
	Acciarri 96L	–
	Acciarri 96N	–
	Ackerstaff 96D	–
	Ackerstaff 96J	–
	Ackerstaff 96M	–
	Ackerstaff 96O	–
	Ackerstaff 96P	–
	Ackerstaff 96R	–
	Alexander 96C	–
	Alexander 96D	–
	Alexander 96E	–
	Alexander 96I	–
	Alexander 96K	–
	Alexander 96M	–
	Alexander 96N	–
	Alexander 96Q	–
	Alexander 96R	–
	Alexander 96W	–
	Allport 96	–
	Buskulic 96	–
	Buskulic 96B	–
	Buskulic 96C	–
	Buskulic 96E	–
	Buskulic 96F	–
	Buskulic 96X	–
	Chapkin 96	–
	Furtjes 96	–
	Goy 96	–
	Jackson 96	–
	Karlsson 96	–
	Keranen 96	–
	Kobel 96	–
	Malinin 96	–
	Pukhaeva 96	–
	Schenk 96	–
	Sciolla 96	–
	Su 96	–
	Wilson 96	–
	Ye 96	–
	Abe 95ZG	–
	Abe 95ZN	–
	Abe 95ZQ	–
	Abreu 95B	–
	Abreu 95D	–
	Abreu 95H	–
	Abreu 95O	–
	Acciarri 95P	–
	Akers 95F	–
	Akers 95G	–
	Akers 95L	–
	Akers 95M	–
	Akers 95O	–
	Akers 95T	–
	Akers 95V	–
	Alexander 95B	–
	Alexander 95C	–
	Alexander 95D	–
	Alexander 95E	–
	Alexander 95I	–
	Baird 95	–
	Behnke 95	–
	Duflot 95	–
	Musolino 95	–
	Podobrin 95	–
	Vorobiev 95B	–
	Abe 94U	–
	Abe 94V	–
	Abe 94W	–
	Abreu 94	–
	Abreu 94I	–
	Abreu 94J	–

$e^+ e^-$

Z^0

	Abreu 94O	–
	Abreu 94P	–
	Abreu 94R	cs
	Acciarri 94C	–
	Akers 94H	–
	Akers 94S	–
	Alemany 94	–
	Baird 94	–
	Bonivento 94	–
	Brient 94	–
	Buskulic 94J	–
	Carr 94	–
	Colas 94	–
	Dejongh 94	–
	Demin 94	–
	Golutvin 94	–
	Gomezycadena 94	–
	Janot 94	–
	Jones 94B	–
	Kramer 94	–
	Manly 94	–
	Maur 94	–
	Posthaus 94	–
	Richard 94	cs
	Shevchenko 94	–
	Strohmer 94	–
	Wermes 94	–
	Wormser 94	–
(91.27)	Abe 96O	–
(93)	Abreu 98L	–

axion

$< 4.526 \cdot 10^{-5}$	Vo 94	mass,p

ρ^0

(0.77)	Benayoun 96	–

ω

(0.782)	Benayoun 96	–

$\omega(1420)$

(1.35 – 2.4)	Castro 94	cs

$\rho(1450)^0$

(1 – 2)	Achasov 96	cs
(1.35 – 2.4)	Castro 94	cs

$\omega(1600)$

(1.35 – 2.4)	Castro 94	cs

$\rho(1700)^0$

(1 – 2)	Achasov 96	cs
(1.35 – 2.4)	Castro 94	cs

$\phi(1020)$

(0.98 – 1.26)	Achasov 99	cs
(1.02)	Akhmetshin 98	–
	Akhmetshin 97	–
	Akhmetshin 97B	–
	Akhmetshin 97C	–
	Benayoun 96	–
	Akhmetshin 95	cs
	Akhmetshin 95B	cs
	Aulchenko 99	–
	Aulchenko 98	–
	Aulchenko 98B	–
	Achasov 97	cs

$\phi(1680)$

(1.35 – 2.4)	Castro 94	cs

$J/\psi(1S)$

(3.097)	Bai 96D	cs,mass,p
	Burnett 96	–
(3.1)	Bai 98G	–
	Bai 98I	–
	Bai 98K	–
	Bai 96B	–
	Huang 96	–
	Jin 96	–
	Bai 95C	–
	Montanet 95	–
	Bertolotto 94	–
	Fan 94	–
	Fan 94B	–

$\psi(2S)$

(3.68)	Bai 96C	–

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^+ e^-$

$\psi(2S)$

(3.686)	Bai 98H	cs
	Bai 98L	–
	Huang 96	–

$\psi(3770)$

(3.77)	Freyberger 94	–

χ_c(unspec)

(4.03)	Bai 98B	cs

ψ(unspec)

(4.03)	Bai 98B	cs

$\Upsilon(1S)$

(9.46)	Anastassov 98	–
	Alam 97	–
	Nemati 96	–
	Blinov 95	–
	Sivertz 95	–
	Albrecht 94O	cs
	Balest 94B	–
	Cinabro 94	–
(9.461)	Baru 96	cs

$\Upsilon(2S)$

(10.02)	Alexander 98	–
	Edwards 98	–
	Baru 96	cs
	Albrecht 94O	cs

$\Upsilon(3S)$

(10.35)	Butler 93	–
	Baru 96	cs
	Avery 93B	–

$\Upsilon(4S)$

(10.58)	Richichi 98B	cs
	Artuso 97	–
	Athanas 97	–
	Barish 97	–
	Brandenburg 97	–
	Browder 97B	–
	Gibbons 97	–
	Glenn 97	–
	Alexander 96F	–
	Ammar 96	–
	Artuso 96	–
	Bergfeld 96	–
	Checchia 96	–
	Fu 96	–
	Gibbons 96	–
	Kubota 96	–
	Spaan 96	–
	Wang 96B	–
	Albrecht 95H	–
	Artuso 95	cs
	Artuso 95B	–
	Asner 95	–
	Barish 95	–
	Bishai 95B	–
	Duboscq 95	–
	Gibaut 95	–
	Ross 95	–
	Alam 94B	–
	Albrecht 94O	cs
	Albrecht 94P	–
	Albrecht 94U	–
	Alexander 94B	–
	Athanas 94	–
	Balest 94C	–
	Barish 94	–
	Dejongh 94	–
	Ehrlich 94	–
	Albrecht 93D	–
	Avery 93B	–

exotic

(4.03)	Bai 98B	cs

positronium

0.	Asai 95	–
	Asai 94	–
	Vonbusch 94	–

$\ell^+ \ell^-$

(91.2)	Akers 95E	col,cs
(91.27)	Buskulic 94E	asym,const,cs

$e^+ e^-$

$\ell^+ \ell^-$

(91.28)	Buskulic 94E	asym,const,cs
	Abreu 94G	asym,const,cs

$e^- e^+$

(2.44)	Antonelli 98	angp,cs
(3.08 – 3.11)	Bai 95B	cs
(7.23 – 10.34)	Baru 96	cs
(57.77)	Odaka 98	angp,const,cs,p
	Arima 96	angp,const
(88.2 – 94.2)	Acciarri 97V	angp,cs
	Abreu 94E	asym,const,cs
	Acciarri 94	angp,const,cs
	Vilain 93B	asym,cs,pol
(91.2)	Abe 97T	angp,asym,const
	Roney 97	angp,const,cs
	Abe 95ZM	angp,asym,const
(91.27)	Buskulic 94E	asym,const,cs
(91.28)	Buskulic 94E	asym,const,cs
	Abreu 94G	asym,const,cs
(91.3)	Akers 93D	angp,const,cs
(91.55)	Yamartino 94	asym,const,cs
(91.56)	Park 94	asym,cs
(130)	Alexander 96U	cs
(130 – 140)	Alexander 96B	angp,const,cs
(130.3)	Ackerstaff 97U	angp,const,cs,p
	Acciarri 97V	angp,cs
(136)	Abbiendi 98	angp,const,cs,p
	Alexander 96U	cs
(136.2)	Ackerstaff 97U	angp,const,cs,p
(136.3)	Acciarri 97V	angp,cs
(161.3)	Acciarri 97V	angp,cs
	Ackerstaff 97U	angp,const,cs,p
(170.3)	Acciarri 97V	angp,cs
(172.3)	Acciarri 97V	angp,cs
	Ackerstaff 97U	angp,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p

$\mu^- \mu^+$

(1.82 – 2.44)	Gauzzi 94	cs
(2.44)	Antonelli 98	angp,cs
(3.08 – 3.11)	Bai 95B	cs
(7.2 – 10.34)	Blinov 93	col,cs
(17 – 86)	Abreu 94N	const,cs
(50 – 86)	Acciarri 96E	cs
(57.77)	Miura 98	angp,cs
	Odaka 98	angp,const,cs,p
(57.8)	Velissaris 94	angp,cs
(58)	Sakuda 93	angp,cs
(88.2 – 94.2)	Acciarri 97V	angp,cs
	Abreu 94E	asym,const,cs
	Acciarri 94	angp,const,cs
(91.2)	Abe 97T	angp,asym,const
	Panvini 97	angp,asym
	Roney 97	angp,const,cs
	Abreu 96I	angp,asym,const
(91.27)	Buskulic 94E	asym,const,cs
(91.28)	Buskulic 94E	asym,const,cs

$e^+ e^-$

$\mu^- \mu^+$

	Abreu 94G	asym,const,cs
(91.3)	Akers 93D	angp,const,cs
(130)	Alexander 96U	cs
	Stichelbaut 96	angp,cs
(130 – 140)	Alexander 96B	angp,const,cs
(130.3)	Ackerstaff 97U	angp,const,cs,p
	Acciarri 97V	angp,cs
(136)	Abbiendi 98	angp,const,cs,p
	Alexander 96U	cs
	Stichelbaut 96	angp,cs
(136.2)	Ackerstaff 97U	angp,const,cs,p
(136.3)	Acciarri 97V	angp,cs
(161.3)	Acciarri 97V	angp,cs
	Ackerstaff 97U	angp,const,cs,p
(170.3)	Acciarri 97V	angp,cs
(172.3)	Acciarri 97V	angp,cs
	Ackerstaff 97U	angp,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p

$\tau^- \tau^+$

(3.54 – 3.6)	Gomezycadena 94	cs
(3.544 – 3.568)	Fan 94B	cs
(3.568 – 3.579)	Bai 95	cs
	Qi 95	cs
(3.578 – 3.579)	Jones 94	cs
(9 – 11.5)	Danilov 94	cs
(9.4)	Babu 94	–
	Bartelt 94	–
(9.4 – 10.6)	Albrecht 97B	–
	Weber 97	–
	Evans 96	–
	Albrecht 95B	–
	Albrecht 95C	–
	Rouge 95	–
	Albrecht 94K	–
	Albrecht 94Q	–
	Golutvin 94	–
(9.46)	Bartelt 94	–
(10)	Evans 96	–
	Albrecht 95	cs
	Coan 95	–
	Davier 95	–
	Korolko 95	–
	Schmidtler 95	–
	Eigen 94	–
(10.52 – 10.58)	Bartelt 96	–
	Coan 96	–
	Davier 95	–
	Heltsley 95	–
	Weinstein 95	–
	White 95	–
(10.58)	Bartelt 94	–
(10.6)	Asner 99	–
	Ammar 98	p
	Anderson 98	–
	Bartelt 98B	–
	Bishai 98	p
	Richichi 98	–
	Alexander 97	–
	Anastassov 97B	–
	Anderson 97B	–
	Avery 97	–
	Bergfeld 97	–
	Bliss 97	–
	Bonvicini 97	–
	Chadha 97B	–
	Coan 97	–
	Edwards 97	–
	Edwards 97B	–
	Heltsley 97	–
	Kass 97	–
	Shelkov 97	–
	Urheim 97	–
	Weber 97	–
	Balest 96	–

$e^+ e^-$

$\tau^- \tau^+$

	Alam 95	–
	Balest 95	–
	Rouge 95	–
	Alemany 94	–
	Artuso 94	–
	Babu 94	–
	Battle 94	cs
	Duflot 94	–
	Eigen 94	–
	Ford 94	–
	Gibaut 94	–
	Golutvin 94	–
	Gomezycadena 94	–
	Smith 94	–
	Urheim 94	–
(10.6 – 91.2)	Evans 97	ang,angp,asym,const,cs,p,pol
(29)	Weber 97	–
	Heltsley 95	–
	Alemany 94	–
	Bauer 93B	–
(35)	Weber 97	–
(57.8)	Velissaris 94	angp,cs
(58)	Hanai 97	angp,const,pol
	Hanai 95	angp
	Sakuda 93	angp,cs
(88.2 – 94.2)	Akers 95D	cs
	Bella 95	const,pol
	Buskulic 95B	cs
	Matorras 95	const,pol
	Rouge 95	cs
	Abreu 94E	asym,const,cs
	Acciarri 94	angp,const,cs
	Acciarri 94F	angp,const,pol
	Buskulic 94G	cs
	Duflot 94	–
(88.24 – 94.23)	Grunewald 93	angp,const,cs
(88.28 – 94.28)	Akers 95B	angp,asym,const,pol
	Bella 95	asym,const,pol
(91)	Abreu 95F	p
(91.2)	Barate 99E	–
	Barate 99F	–
	Abbiendi 98I	–
	Abreu 98B	–
	Acciarri 98C	angp,const
	Acciarri 98ZE	–
	Ackerstaff 98H	–
	Ackerstaff 98Q	–
	Ackerstaff 98S	–
	Ackerstaff 98T	–
	Barate 98H	–
	Abe 97G	angp,asym
	Abe 97T	angp,asym,const
	Abreu 97D	cor,p,pol
	Ackerstaff 97D	–
	Ackerstaff 97I	–
	Ackerstaff 97ZE	cs,mass,p
	Alemany 97	–
	Alvaro 97	angp,const
	Barate 97D	–
	Barate 97E	–
	Barate 97K	–
	Barate 97N	cor,p,pol
	Barate 97T	–
	Barate 97W	–
	Barate 97ZF	–
	Biasini 97	–
	Brient 97	const,cor,p,pol
	Camoana 97	–
	Cavallo 97	–
	Edsall 97	–
	Kounine 97	cor,p,pol
	Lohmann 97	–
	Moore 97	–
	Muller 97	–

$e^+ e^-$

$\tau^- \tau^+$

	Panvini 97	angp,asym
	Passalacqua 97	–
	Quigley 97	angp,asym
	Roney 97	angp,const,cs
	Rouge 97	–
	Ruiz 97	–
	Sanchez 97	cor,p,pol
	Sobie 97	–
	Towers 97	–
	Weber 97	–
	Wermes 97	angp,const
	Abe 96Z	–
	Acciarri 96C	–
	Ackerstaff 96P	angp,cs,p
	Alexander 96G	–
	Alexander 96K	angp,asym,const
	Alexander 96R	–
	Evans 96	–
	Vorobiev 96	asym,const,pol
	Abreu 95K	–
	Abreu 95P	–
	Abreu 95T	pol
	Acciarri 95	–
	Acciarri 95I	–
	Akers 95S	–
	Alcaraz 95	–
	Alexander 95F	p
	Alexander 95G	–
	Andreazza 95	–
	Biasini 95	–
	Bourdon 95	–
	Buskulic 95H	–
	Buskulic 95K	const,pol
	Buskulic 95N	–
	Buskulic 95O	–
	Buskulic 95P	–
	Cerutti 95	–
	Charlesworth 95	–
	Dam 95	–
	Davier 95	–
	Evans 95	–
	Ferrante 95	–
	Gentile 95	–
	Girone 95	–
	Harton 95	angp,const,cs,pol
	Heltsley 95	–
	Kounine 95	angp,const,cs,pol
	Park 95B	–
	Raab 95	–
	Rouge 95	cs
	Ruckstuhl 95	–
	Stahl 95	const
	Stugu 95	–
	Watkins 95	–
	Akers 94I	–
	Akers 94L	–
	Akers 94O	cs
	Akers 94P	cor,qnc
	Buskulic 94	pol
	Buskulic 94F	cs
	Fero 94	asym,const
	Hocker 94	const,cs,p
(91.26)	Schumm 95	asym,const,cs
	Abe 94C	asym,const,cs
(91.27)	Buskulic 94E	asym,const,cs
(91.28)	Buskulic 94E	asym,const,cs
	Abe 96X	asym,const,cs
	Abreu 94G	asym,const,cs
(91.3)	Akers 93D	angp,const,cs
(91.55)	Abe 95ZF	–
(130)	Alexander 96U	cs
	Stichelbaut 96	angp,cs

$e^+ e^-$

$\tau^- \tau^+$

(130 – 140)	Alexander 96B	angp,const,cs
(130.3)	Ackerstaff 97U	angp,const,cs,p
(136)	Abbiendi 98	angp,const,cs,p
	Alexander 96U	cs
	Stichelbaut 96	angp,cs
(136.2)	Ackerstaff 97U	angp,const,cs,p
(161.3)	Ackerstaff 97U	angp,const,cs,p
(172.3)	Ackerstaff 97U	angp,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p

$\bar{\nu}$ heavy-lepton^0

(170)	Ackerstaff 97Q	const,cs
(172)	Ackerstaff 97Q	const,cs

ν $\overline{\text{heavy-lepton}}^0$

(170)	Ackerstaff 97Q	const,cs
(172)	Ackerstaff 97Q	const,cs

$\bar{\nu}\ \nu^*$

(130)	Alexander 96T	cs
	Stichelbaut 96	cs
(130 – 140)	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
	Stichelbaut 96	cs

$\nu\ \bar{\nu}^* + \bar{\nu}\ \nu^*$

(89.48 – 91.26)	Abreu 96	cs

$\nu\ \bar{\nu}^*$

(130)	Alexander 96T	cs
	Stichelbaut 96	cs
(130 – 140)	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
	Stichelbaut 96	cs

$\bar{\nu}_e\ \nu_e^*$

(130)	Alexander 96T	cs
(130 – 140)	Buskulic 96G	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\nu_e\ \bar{\nu}_e^*$

(130)	Alexander 96T	cs
(130 – 140)	Buskulic 96G	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$e^- e^{*+}$

(88 – 93)	Acciarri 98O	cs
(91.2)	Barate 98C	cs
(130)	Acciarri 98O	cs
	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Acciarri 98O	cs
	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Acciarri 98O	cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Acciarri 98O	cs
	Ackerstaff 97Q	const,cs

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$e^+ e^-$

$e^- e^{*+}$

(183)	Abreu 98N	const,cs
	Acciarri 98O	cs

$e^+ e^{*-}$

(88 – 93)	Acciarri 98O	cs
(91.2)	Barate 98C	cs
(130)	Acciarri 98O	cs
	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Acciarri 98O	cs
	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Acciarri 98O	cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Acciarri 98O	cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs
	Acciarri 98O	cs

$\bar{\nu}_\mu \nu^*_\mu$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\nu_\mu \bar{\nu}^*_\mu$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\mu^- \mu^{*+}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\mu^+ \mu^{*-}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(172)	Abreu 98N	const,cs
(183)	Abreu 98N	const,cs

$\bar{\nu}_\tau \nu^*_\tau$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs

$e^+ e^-$

$\bar{\nu}_\tau \nu^*_\tau$

	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\nu_\tau \bar{\nu}^*_\tau$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\tau^- \tau^{*+}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const.cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const.cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\tau^+ \tau^{*-}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

charged$^+$ charged$^-$

(130)	Barate 97M	cs
(130 – 136)	Abreu 96X	cs,p
(133)	Ackerstaff 98E	cs
(136)	Barate 97M	cs
(161)	Ackerstaff 98E	cs
	Barate 97M	cs
	Abreu 96X	cs,p
(172)	Ackerstaff 98E	cs
	Barate 97M	cs
	Abreu 96X	cs,p
(183)	Ackerstaff 98E	cs

2unspec

(130.3)	Ackerstaff 98C	cs
(136.2)	Ackerstaff 98C	cs
(161.3)	Ackerstaff 98C	cs
(172.1)	Ackerstaff 98C	cs
(182.7)	Ackerstaff 98C	cs

2neutral

(161)	Ackerstaff 96H	cs
(182.6)	Ackerstaff 98R	cs

invisible neutral

(161)	Ackerstaff 96H	cs

2jet

(10.53)	Gibbons 95	cs,p
	Sivertz 95	const,cs,p
(22)	Movillaferna 97	const,cs,mass,p
(35)	Movillaferna 97	const,cs,mass,p
(44)	Movillaferna 97	const,cs,mass,p
(88.2 – 94.2)	Akers 94D	const,cs
	Akers 94G	–
(88.4 – 90.4)	Ackerstaff 97C	angp,const,cs
(91 – 91.5)	Buskulic 95G	const

$e^+ e^-$

2jet

(91.05 – 91.4)	Ackerstaff 97C	angp,const,cs
(91.2)	Abbiendi 99D	col,const,cor,cs,p
	Abreu 99K	col,cor,cs,p
	Abreu 97O	cs,p
	Acciarri 97G	–
	Barate 97C	const,cs
	Barate 97F	–
	Barate 97G	angp
	Alexander 96G	angp
	Abe 95ZP	angp,asym
	Akers 95C	col,const,cor,p
	Akers 95N	angp,const,cor,mass,p
	Akers 95V	angp
	Baird 95	const,cor,p
	Behnke 95	cs
	Ward 95	ang,angp
	Abe 94ZB	const,cs,p
	Buskulic 94H	angp
	Akers 93F	cs
(91.22)	Hasegawa 95B	angp,asym
(91.6)	Martirena 94	const,cs
(91.8 – 94)	Ackerstaff 97C	angp,const,cs
(130)	Abreu 99K	col,cor,cs,p
	Buskulic 97	const,p
(130.3)	Ackerstaff 97U	angp,const,cs,p
(136)	Abreu 99K	col,cor,cs,p
	Abbiendi 98	angp,const,cs,p
	Buskulic 97	const,p
(136.2)	Ackerstaff 97U	angp,const,cs,p
(161)	Abreu 99K	col,cor,cs,p
	Acciarri 97Y	const,cs
(161.3)	Ackerstaff 97U	angp,const,cs,p
(172)	Abreu 99K	col,cor,cs,p
	Acciarri 97Y	const,cs
(172.3)	Ackerstaff 97U	angp,const,cs,p
(183)	Abreu 99K	col,cor,cs,p
	Abbiendi 98	angp,const,cs,p

jet$^+$ jet$^-$

(58)	Stuart 94	angp,cs
(91.2)	Abreu 94S	angp,const,cs

neutral heavy

(91.2)	Ackerstaff 97R	cs
(130.3)	Ackerstaff 97R	cs
(136.2)	Ackerstaff 97R	cs
(140.1)	Ackerstaff 97R	cs
(161.3)	Ackerstaff 97R	cs
(170.3)	Ackerstaff 97R	cs
(172.3)	Ackerstaff 97R	cs

2heavy

(130)	Alexander 96Y	cs
(130 – 140)	Acciarri 97H	cs
(136)	Alexander 96Y	cs
(161)	Acciarri 97H	cs
(170 – 172)	Acciarri 97H	cs

γ neutral

0.	Skalsey 95	mass,p
(183)	Ackerstaff 98N	cs

γ invisible

(88.25 – 93.7)	Akers 94M	cs,p
(88.5 – 93.8)	Acciarri 94E	angp,const,p
(89.48 – 91.26)	Abreu 96	cs
(130 – 136)	Adam 96B	const,cs,mass,p
(161)	Abreu 97R	angp,const,cs
(172)	Abreu 97R	angp,const,cs

$e^+ e^-$

γ jet

(91.2)	Abreu 95U	const,cs

γ longlived

(91.2)	Acciarri 97P	angp,const,cs

2γ

0.	Chiba 98	cs
$< 4.526 \cdot 10^{-5}$	Vo 94	mass,p
(2.44)	Antonelli 98	angp,cs
(88.2 – 94.2)	Acciarri 95G	angp,cs
	Abreu 94H	angp,cs
(91.2)	Barate 98C	angp,cs
(130.3)	Acciarri 95K	cs
(136.3)	Acciarri 95K	cs
(140.2)	Acciarri 95K	cs
(161.3)	Acciarri 97J	cs
(172.1)	Acciarri 97J	cs

$W^- W^+$

(161)	Acciarri 99	–
	Barate 99C	cs
	Abreu 98K	cs
	Abreu 97R	angp,const,cs
(161.3)	Ackerstaff 97	angp,const,cs,p
	Ackerstaff 96F	cs
	Abreu 97	const,cs
	Barate 97J	cs
	Acciarri 97	const,cs
	Acciarri 97T	const
(172)	Acciarri 99	–
	Barate 99C	cs
	Abreu 98K	cs
	Abreu 97N	–
	Abreu 97Q	cs
	Abreu 97R	angp,const,cs
	Acciarri 97N	cs
	Barate 97ZD	const
(172.1)	Barate 97S	cs
	Barate 97ZE	–
	Ackerstaff 97P	const,cs
	Ackerstaff 97T	const,cs
(172.3)	Acciarri 97T	const
(182.6)	Abreu 99J	cs
(182.7)	Acciarri 98Q	cs
	Barate 99C	cs
(183)	Acciarri 99	–
	Abbiendi 98G	const,cs,pol
	Abbiendi 98L	–
	Abbiendi 98M	cs

Z^0 higgs

(91.2)	Ackerstaff 97R	cs
(130)	Stichelbaut 96	cs,mass
(130.3)	Acciarri 98J	cs
	Ackerstaff 97R	cs
(136)	Stichelbaut 96	cs,mass
(136.2)	Ackerstaff 97R	cs
(136.3)	Acciarri 98J	cs
(140.1)	Ackerstaff 97R	cs
(161)	Barate 99B	cs
	Bock 98	cs
	Ackerstaff 97V	cs
	Barate 97L	cs
(161 – 172)	Sopczak 98	cs,mass,p
(161.3)	Acciarri 98J	cs
	Bock 98	cs
	Abreu 97L	cs
	Acciarri 97Q	cs
	Acciarri 97U	cs
	Ackerstaff 97R	cs
(170)	Bock 98	cs
	Ackerstaff 97V	cs
	Barate 97L	cs
(170 – 172)	Barate 99B	cs
(170.3)	Bock 98	cs
	Abreu 97L	cs
	Acciarri 97Q	cs
	Acciarri 97U	cs
	Ackerstaff 97R	cs
(172)	Bock 98	cs

$e^+ e^-$

Z^0 higgs

	Ackerstaff 97V	cs
	Barate 97L	cs
(172.3)	Acciarri 98J	cs
	Acciarri 97Q	cs
	Acciarri 97U	cs
	Ackerstaff 97R	cs
(181 – 184)	Barate 99B	cs
(182.6)	Ackerstaff 98R	cs
(182.7)	Acciarri 98F	cs
	Acciarri 98J	cs
(183)	Abreu 99E	cs,p
	Abbiendi 98R	cs
	Barate 98S	cs
	Sopczak 98	cs,mass,p

$Z^0 \gamma$

(88.5 – 93.8)	Acciarri 94E	angp,const,p
(130)	Alexander 96U	const,cs
(136)	Alexander 96U	const,cs
(161)	Acciarri 98K	angp,const,cs
(170)	Acciarri 98K	angp,const,cs
(172)	Acciarri 98K	angp,const,cs
(183)	Acciarri 98K	angp,const,cs

$2Z^0$

(182.7)	Acciarri 98ZD	cs

$Z^0 H^0$

(161.3)	Ackerstaff 96N	cs
(183)	Abbiendi 98R	cs

$\overline{\text{lepto-quark}}$ lepto-quark

(183)	Abreu 98J	const,cs

heavy-lepton^0 $\overline{\text{heavy-lepton}}^0$

(130)	Stichelbaut 96	cs
(130 – 136)	Acciarri 96F	cs
	Alexander 96O	cs
	Buskulic 96Z	cs
(136)	Stichelbaut 96	cs
(161)	Acciarri 97L	cs
(161.3)	Ackerstaff 96E	cs
(170)	Ackerstaff 97Q	const,cs
(170 – 172)	Acciarri 97L	cs
(172)	Ackerstaff 97Q	const,cs

heavy-lepton$^-$ heavy-lepton$^+$

(130)	Stichelbaut 96	cs
(130 – 136)	Acciarri 96F	cs
	Alexander 96O	cs
	Buskulic 96Z	cs
(136)	Stichelbaut 96	cs
(161)	Acciarri 97L	cs
(161.3)	Ackerstaff 96E	cs
(170 – 172)	Acciarri 97L	cs

$q\,\bar{q}$

(29)	Abreu 96Y	–
(58)	Stuart 94	angp,cs
(91.2)	Abreu 98O	–
	Abreu 97O	const,cs
	Buskulic 96T	const
	Padilla 95	–
(130 – 136)	Abreu 96X	cs
(130 – 140)	Alexander 96B	const,cs
(161)	Abreu 96X	cs
(172)	Abreu 97N	–
	Abreu 96X	cs

$\bar{u}\, u$

(91.2)	Ackerstaff 97K	angp,const,cs
	Abe 94ZB	const

$\bar{d}\, d$

(91.2)	Abreu 95V	angp,const
	Abe 94ZB	const

$\bar{s}\, s + \bar{d}\, d$

(91.2)	Ackerstaff 97K	angp,const,cs

$\bar{s}\, s + \bar{d}\, d + \bar{u}\, u$

(91.2)	Abe 98L	–

$e^+ e^-$

$\bar{s}\, s + \bar{d}\, d + \bar{u}\, u$

	Abreu 98O	–
	Barate 97ZC	–
	Abreu 96Y	–
	Abe 95ZP	asym

$\bar{s}\, s$

(91.2)	Abreu 95V	angp,p
	Abe 94ZB	const

$\bar{c}\, c + \bar{b}\, b$

(91.2)	Abe 95ZP	asym

$\bar{c}\, c$

(57.9)	Nakano 94	const,p
(89.37)	Barate 98K	asym,const
(89.45)	Alexander 96S	const
(89.52)	Alexander 95H	const,cs,p
(91.2)	Abreu 99D	angp,const,p
	Abbiendi 98F	–
	Abe 98L	–
	Barate 98D	cs
	Barate 98K	asym,const
	Ackerstaff 97Y	–
	Barate 97ZC	–
	Abreu 96Y	–
	Buskulic 96T	const
	Ludovici 96	asym,const
	Su 96	asym,const,pol
	Abe 95ZQ	asym
	Abreu 95S	angp,p
	Behnke 95	asym,cs
	Buskulic 95I	cs
	Buskulic 95J	const,p
	Abe 94V	asym,const,pol
	Abe 94ZB	const
	Abreu 94S	angp,const,cs
	King 94	asym,const
	Buskulic 93P	asym
(91.22)	Alexander 96S	const
(91.24)	Alexander 95H	const,cs,p
(92.26)	Barate 98K	asym,const
(92.94)	Alexander 95H	const,cs,p
(93)	Alexander 96S	const

$\bar{b}\, b$

(57.8)	Liu 93	angp,cs
(57.9)	Ueno 96	angp,const
	Nakano 94	const,p
(88.4 – 90.4)	Ackerstaff 97C	angp,const,cs
(89.45)	Alexander 96S	const
(89.52)	Alexander 95H	const,cs,p
(89.52 – 92.44)	Akers 95X	const,p
(89.55)	Abreu 98M	angp,const
(91.05 – 91.4)	Ackerstaff 97C	angp,const,cs
(91.2)	Abbiendi 99D	col,const,cor,cs,p
	Abreu 99D	angp,const,p
	Abbiendi 98O	cs
	Abe 98H	const
	Abe 98L	–
	Abreu 98M	angp,const
	Abreu 98O	–
	Acciarri 98Y	angp,const
	Barate 98F	angp,const,cs
	Abreu 97O	const,cs
	Ackerstaff 97Y	–
	Barate 97R	–
	Barate 97ZC	–
	Abreu 96N	–
	Abreu 96Y	–
	Ackerstaff 96O	cs
	Buskulic 96O	–
	Buskulic 96Q	–
	Buskulic 96T	const
	Etzion 96	cs

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$e^+ e^-$

$\bar{b}\, b$

	Ludovici 96	asym,const
	Su 96	asym,const,pol
	Abreu 95N	cs
	Abreu 95S	angp,p
	Akers 95C	col,const,cor,p
	Behnke 95	asym,cs
	Buskulic 95	-
	Buskulic 95I	cs
	Buskulic 95J	const,p
	Padilla 95	-
	Abe 94U	asym,const,pol
	Abe 94V	asym,const,pol
	Abe 94ZB	const
	Abreu 94S	angp,const,cs
	Buskulic 94L	-
	King 94	asym,const
	Buskulic 93P	asym
(91.22)	Alexander 96S	const
(91.24)	Alexander 95H	const,cs,p
(91.24 – 91.28)	Abe 95ZR	-
(91.3)	Acciarri 94D	angp,cs
(91.8 – 94)	Ackerstaff 97C	angp,const,cs
(92.94)	Abreu 98M	angp,const
	Alexander 95H	const,cs,p
(93)	Alexander 96S	const
(130.3)	Ackerstaff 97U	angp,const,cs,p
(136)	Abbiendi 98	angp,const,cs,p
(136.2)	Ackerstaff 97U	angp,const,cs,p
(161)	Ackerstaff 96I	angp,cs
(161.3)	Ackerstaff 97U	angp,const,cs,p
(172.3)	Ackerstaff 97U	angp,const,cs,p
(183)	Abbiendi 98	angp,const,cs,p

$t\, \bar{c}$

(183)	Abreu 98J	const,cs

$\bar{t}\, c$

(183)	Abreu 98J	const,cs

2neutralino

(91.2)	Alexander 96H	cs
	Buskulic 96N	cs
	Buskulic 95W	cs
(130)	Abreu 96M	cs
	Alexander 96V	cs
	Stichelbaut 96	cs
(130 – 136)	Buskulic 96L	cs
	Buskulic 96M	cs
	Buskulic 96N	cs
(130 – 140)	Acciarri 96D	cs
(130.3)	Ackerstaff 97U	cs
	Abbiendi 98J	angp,cs,mass,p
	Ackerstaff 97ZD	angp,cs,mass,p
(136)	Abreu 96M	cs
	Alexander 96V	cs
	Stichelbaut 96	cs
(136.2)	Abbiendi 98J	angp,cs,mass,p
	Ackerstaff 97ZD	angp,cs,mass,p
	Ackerstaff 97U	cs
(161)	Abreu 98T	cs
	Abreu 97M	cs
	Acciarri 97X	cs
	Barate 97V	cs
	Ackerstaff 96K	cs
(161.3)	Ackerstaff 97ZD	angp,cs,mass,p
	Barate 97X	cs
	Barate 97Y	cs

$e^+ e^-$

2neutralino

	Ackerstaff 97U	cs
(170)	Barate 97V	cs
(170.3)	Ackerstaff 97W	cs
	Barate 97X	cs
	Barate 97Y	cs
(172)	Abreu 98T	cs
	Abreu 97M	cs
	Acciarri 97X	cs
	Barate 97V	cs
(172.1)	Ackerstaff 97ZD	angp,cs,mass,p
(172.3)	Ackerstaff 97U	cs
	Ackerstaff 97W	cs
	Barate 97X	cs
	Barate 97Y	cs
(181 – 184)	Abbiendi 98P	cs
(183)	Abbiendi 98J	angp,cs,mass,p
	Abreu 98T	cs
	Acciarri 98W	cs
	Barate 98I	cs

2neutralino$_1$

(130)	Abreu 99I	cs
(136)	Abreu 99I	cs
(161)	Abreu 99I	cs
(172)	Abreu 99I	cs
(183)	Abreu 99I	cs

neutralino$_2$ neutralino$_1$

(183)	Abreu 98V	cs

2neutralino$_2$

(130)	Abreu 99I	cs
(136)	Abreu 99I	cs
(161)	Abreu 99I	cs
(172)	Abreu 99I	cs
(183)	Abreu 99I	cs

chargino$^+$ chargino$^-$

(91.2)	Buskulic 96N	cs
(130)	Barate 97M	cs
	Alexander 96V	cs
	Alexander 96Y	cs
	Stichelbaut 96	cs
(130 – 136)	Abreu 96G	cs
	Abreu 96X	cs
	Buskulic 96L	cs
	Buskulic 96M	cs
	Buskulic 96N	cs
(130 – 140)	Acciarri 96D	cs
(130.3)	Ackerstaff 97U	cs
(133)	Ackerstaff 98E	cs
(136)	Barate 97M	cs
	Alexander 96V	cs
	Alexander 96Y	cs
	Stichelbaut 96	cs
(136.2)	Ackerstaff 97U	cs
(161)	Abbiendi 98N	cs
	Ackerstaff 98E	cs
	Hoffmann 98	const,cs,p
	Abreu 97M	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
	Ackerstaff 96K	cs
(161.3)	Barate 97X	cs
	Barate 97Y	cs
	Ackerstaff 97U	cs
(170.3)	Ackerstaff 97W	cs
	Barate 97X	cs
	Barate 97Y	cs
(172)	Abbiendi 98N	cs
	Ackerstaff 98E	cs
	Hoffmann 98	const,cs,p
	Abreu 97M	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
(172.3)	Ackerstaff 97U	cs
	Ackerstaff 97W	cs
	Barate 97X	cs
	Barate 97Y	cs

$e^+ e^-$

chargino$^+$ chargino$^-$

(181 – 184)	Abbiendi 98P	cs
(183)	Abbiendi 98N	cs
	Abreu 98V	cs
	Ackerstaff 98E	cs

neutralino gravitino

(161)	Hoffmann 98	const,cs,mass,p
(172)	Hoffmann 98	const,cs,mass,p
(183)	Acciarri 98W	cs

2gravitino

(183)	Acciarri 98W	cs

higgsino$^+$ higgsino$^-$

(161.3)	Barate 97X	cs
(170.3)	Barate 97X	cs
(172.3)	Barate 97X	cs

A^0 higgs

(130 – 136)	Buskulic 96K	cs
(130.2)	Barate 97O	cs
(130.3)	Acciarri 98J	cs
(136.2)	Barate 97O	cs
(136.3)	Acciarri 98J	cs
(161.3)	Acciarri 98J	cs
	Barate 97O	cs
(170.3)	Barate 97O	cs
(172.3)	Acciarri 98J	cs
	Barate 97O	cs
(181 – 184)	Barate 98R	cs
(182.7)	Acciarri 98J	cs
(183)	Abreu 99E	cs,p
	Abbiendi 98R	cs

$Z^0\ A^0$

(130 – 136)	Ackerstaff 98G	cs
(161)	Ackerstaff 98G	cs
(161.3)	Acciarri 97U	cs
(170 – 172)	Ackerstaff 98G	cs
(170.3)	Acciarri 97U	cs
(172.3)	Acciarri 97U	cs
(182.6)	Ackerstaff 98R	cs

$H^0\ A^0$

(130)	Alexander 96Y	cs
(136)	Alexander 96Y	cs
(183)	Abbiendi 98R	cs

$H_1^0\ A^0$

(91.2)	Abreu 95X	cs
	Akers 94Q	const,cs

$Z^0\ H_2^0$

(130 – 136)	Ackerstaff 98G	cs
(161)	Ackerstaff 98G	cs
(161 – 172)	Sopczak 98	const,cs,p
(161.3)	Acciarri 97U	cs
(170 – 172)	Ackerstaff 98G	cs
(170.3)	Acciarri 97U	cs
(172.3)	Acciarri 97U	cs

$H_2^0\ A^0$

(130 – 136)	Ackerstaff 98G	cs
(130.4 – 136.3)	Adam 96C	cs
(161)	Ackerstaff 98G	cs
(161 – 172)	Sopczak 98	const,cs,p
(161.3)	Abreu 97L	cs
(170 – 172)	Ackerstaff 98G	cs
(170.3)	Abreu 97L	cs
(182.6)	Ackerstaff 98R	cs

$H^+\ H^-$

(91.2)	Alexander 96ZB	cs
(130)	Barate 97U	cs
(130.4 – 136.3)	Adam 96C	cs
(131)	Ackerstaff 97ZG	cs
(133 – 136)	Acciarri 98U	cs
(136)	Ackerstaff 97ZG	cs
	Barate 97U	cs
(161)	Abbiendi 98N	cs
	Acciarri 98U	cs
	Ackerstaff 97Z	cs
	Ackerstaff 97ZG	cs
	Barate 97U	cs
(161 – 172)	Sopczak 98	const,cs,p

$e^+ e^-$

$H^+ H^-$

(161.3)	Abreu 97L	cs
(170)	Barate 97U	cs
(170.3)	Abreu 97L	cs
(172)	Abbiendi 98N	cs
	Acciarri 98U	cs
	Abreu 97P	cs
	Ackerstaff 97Z	cs
	Ackerstaff 97ZG	cs
	Barate 97U	cs
(181 – 184)	Barate 99	cs
(183)	Abbiendi 98N	cs
	Abbiendi 98R	cs
	Acciarri 98U	cs

$\tilde{\ell}^+ \tilde{\ell}^-$

(91.2)	Buskulic 96N	cs
	Buskulic 95W	cs
(130)	Abreu 96M	cs
(130 – 136)	Buskulic 96M	cs
	Buskulic 96N	cs
(130 – 140)	Acciarri 96D	cs
(136)	Abreu 96M	cs
(161)	Hoffmann 98	const,cs,cs,mass
(161.3)	Barate 97Y	cs
(170.3)	Barate 97Y	cs
(172)	Hoffmann 98	const,cs,cs,mass
(172.3)	Barate 97Y	cs

$\tilde{\nu} \bar{\tilde{\nu}}$

(91.2)	Buskulic 96N	cs
	Buskulic 95W	cs
(130 – 136)	Buskulic 96N	cs
(161.3)	Barate 97Y	cs
(170.3)	Barate 97Y	cs
(172.3)	Barate 97Y	cs

$\tilde{e}^- \tilde{e}^+$

(130)	Alexander 96Y	cs
(130 – 136)	Abreu 99H	cs
(136)	Alexander 96Y	cs
(161)	Abreu 99H	cs
	Abbiendi 98N	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Ackerstaff 96Q	cs
(161.3)	Barate 97P	cs
(170)	Abreu 99H	cs
(170.3)	Barate 97P	cs
(172)	Abreu 99H	cs
	Abbiendi 98N	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
(172.3)	Barate 97P	cs
(181)	Barate 98Q	cs
(182)	Barate 98Q	cs
(183)	Abbiendi 98N	cs
	Barate 98Q	cs
(184)	Barate 98Q	cs

$\tilde{\mu}^- \tilde{\mu}^+$

(130)	Barate 97M	cs
	Alexander 96Y	cs
(130 – 136)	Abreu 99H	cs
	Abreu 96X	cs
(130 – 183)	Abreu 98W	cs
(133)	Ackerstaff 98E	cs
(136)	Barate 97M	cs
	Alexander 96Y	cs
(161)	Abreu 99H	cs
	Abbiendi 98N	cs
	Ackerstaff 98E	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
	Ackerstaff 96Q	cs
(161.3)	Barate 97P	cs
(170)	Abreu 99H	cs
(170.3)	Barate 97P	cs
(172)	Abreu 99H	cs
	Abbiendi 98N	cs
	Ackerstaff 98E	cs
	Acciarri 97X	cs

$e^+ e^-$

$\tilde{\mu}^- \tilde{\mu}^+$

	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
(172.3)	Barate 97P	cs
(181)	Barate 98Q	cs
(182)	Barate 98Q	cs
(183)	Abbiendi 98N	cs
	Ackerstaff 98E	cs
	Barate 98Q	cs
(184)	Barate 98Q	cs

$\tilde{\tau}^- \tilde{\tau}^+$

(130)	Barate 97M	cs
	Alexander 96Y	cs
(130 – 136)	Abreu 99H	cs
	Abreu 96X	cs
(133)	Ackerstaff 98E	cs
(136)	Barate 97M	cs
	Alexander 96Y	cs
(161)	Abreu 99H	cs
	Abbiendi 98N	cs
	Abreu 98T	cs
	Ackerstaff 98E	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
	Ackerstaff 96Q	cs
(161.3)	Barate 97P	cs
(170)	Abreu 99H	cs
(170.3)	Barate 97P	cs
(172)	Abreu 99H	cs
	Abbiendi 98N	cs
	Abreu 98T	cs
	Ackerstaff 98E	cs
	Acciarri 97X	cs
	Ackerstaff 97Z	cs
	Barate 97M	cs
	Abreu 96X	cs
(172.3)	Barate 97P	cs
(181)	Barate 98Q	cs
(182)	Barate 98Q	cs
(183)	Abbiendi 98N	cs
	Abreu 98T	cs
	Ackerstaff 98E	cs
	Barate 98Q	cs
(184)	Barate 98Q	cs

$\bar{\tilde{q}} \tilde{q}$

(91.2)	Alexander 96H	cs
	Buskulic 96N	cs
	Buskulic 95W	cs
(130)	Abreu 96M	cs
	Stichelbaut 96	cs
(130 – 136)	Buskulic 96N	cs
(130 – 140)	Acciarri 96D	cs
(130 – 183)	Abreu 98W	cs
(136)	Abreu 96M	cs
	Stichelbaut 96	cs
(161.3)	Barate 97Y	cs
(170.3)	Barate 97Y	cs
(172.3)	Barate 97Y	cs

$\tilde{b} \bar{\tilde{b}}$

(130)	Barate 97Q	cs
	Ackerstaff 96B	cs
(130 – 136)	Abreu 99H	cs
(130 – 183)	Abreu 98W	cs
(136)	Barate 97Q	cs
	Ackerstaff 96B	cs
(161)	Abreu 99H	cs
	Acciarri 98ZF	cs
	Hoffmann 98	const,mass,p
	Barate 97Q	cs
	Ackerstaff 96B	cs
(170)	Abreu 99H	cs
	Barate 97Q	cs
(170.3)	Ackerstaff 97ZC	cs
(172)	Abreu 99H	cs
	Acciarri 98ZF	cs
	Hoffmann 98	const,mass,p
	Barate 97Q	cs

$e^+ e^-$

$\tilde{b} \bar{\tilde{b}}$

(172.3)	Ackerstaff 97ZC	cs
(183)	Acciarri 98ZF	cs
	Ackerstaff 98U	cs

$\bar{\tilde{t}} \tilde{t}$

(58)	Shirai 94	cs
(91.2)	Buskulic 96N	cs
(130)	Barate 97Q	cs
(130 – 136)	Abreu 99H	cs
	Buskulic 96M	cs
	Buskulic 96N	cs
(130 – 183)	Abreu 98W	cs
(136)	Barate 97Q	cs
(161)	Abreu 99H	cs
	Barate 97Q	cs
(170)	Abreu 99H	cs
	Barate 97Q	cs
(172)	Abreu 99H	cs
	Barate 97Q	cs

$\tilde{t}_1 \bar{\tilde{t}}_1$

(91.2)	Akers 94J	cs
(130)	Ackerstaff 96B	cs
	Alexander 96Y	cs
(136)	Ackerstaff 96B	cs
	Alexander 96Y	cs
(161)	Acciarri 98ZF	cs
	Hoffmann 98	const,cs,cs,mass
	Ackerstaff 96B	cs
(170.3)	Ackerstaff 97ZC	cs
(172)	Acciarri 98ZF	cs
	Hoffmann 98	const,cs,cs,mass
(172.3)	Ackerstaff 97ZC	cs
(183)	Acciarri 98ZF	cs
	Ackerstaff 98U	cs

$\nu^* \bar{\nu}^*$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs

$\nu_e^* \bar{\nu}_e^*$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$e^{*-} e^{*+}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
	Stichelbaut 96	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
	Stichelbaut 96	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\nu_\mu^* \bar{\nu}_\mu^*$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^+ e^-$

$\mu^{*-} \mu^{*\pm}$

(170)	Ackerstaff 97Q	const,cs
(172)	Ackerstaff 97Q	const,cs

$\mu^{*+} \mu^{*-}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
	Stichelbaut 96	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
	Stichelbaut 96	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\nu_\tau^* \bar{\nu}_\tau^*$

(130)	Alexander 96T	cs
(136)	Alexander 96T	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$\tau^{*+} \tau^{*-}$

(91.2)	Barate 98C	cs
(130)	Alexander 96T	cs
	Stichelbaut 96	cs
(130 – 136)	Abreu 96D	cs
(130 – 140)	Buskulic 96G	cs
	Acciarri 95L	const,cs
(136)	Alexander 96T	cs
	Stichelbaut 96	cs
(161)	Abreu 98N	const,cs
	Abreu 96W	cs
	Ackerstaff 96C	cs
(161.3)	Acciarri 97B	const,cs
(170)	Ackerstaff 97Q	const,cs
(172)	Abreu 98N	const,cs
	Ackerstaff 97Q	const,cs
(183)	Abreu 98N	const,cs

$q^* \bar{q}$

(91.2)	Barate 98C	cs

$\bar{q}^* q$

(91.2)	Barate 98C	cs

$\bar{q}^* q^*$

(91.2)	Barate 98C	cs

$\pi^0 \gamma$

(0.5 – 1.05)	Benayoun 96	cs,p
(0.984 – 1.04)	Achasov 97	cs,mass
(88.2 – 94.2)	Abreu 94H	angp,cs

$\pi^+ \pi^-$

(1 – 2)	Achasov 96	cs,mass,pwa
(1.35 – 2.4)	Castro 94	cs

$\eta \gamma$

(0.5 – 1.05)	Benayoun 96	cs,p
(0.98 – 1.05)	Achasov 98C	cs,mass
(0.984 – 1.04)	Achasov 98	cs,mass
	Achasov 97	cs,mass
(0.9939 – 1.027)		
	Akhmetshin 95	cs,mass
(1.005 – 1.035)	Akhmetshin 95B	cs
(88.2 – 94.2)	Abreu 94H	angp,cs

$\omega \gamma$

(88.2 – 94.2)	Abreu 94H	angp,cs

$\omega \pi^0$

(0.98 – 1.26)	Achasov 99	amp,angp,cs,mass,p
(1 – 2)	Achasov 96	cs,mass,pwa

$\eta' \gamma$

(0.984 – 1.04)	Achasov 97	cs,mass

$e^+ e^-$

$\eta' \gamma$

(1.005 – 1.035)	Akhmetshin 95B	cs

$f_0(980) \gamma$

(0.984 – 1.04)	Achasov 97	cs,mass
(1.005 – 1.035)	Akhmetshin 95B	cs

$a_0(980)^0 \gamma$

(0.984 – 1.04)	Achasov 97	cs,mass

$b_1(1235)^+ \pi^-$

(3.686)	Bai 98H	cs

$b_1(1235)^- \pi^+$

(3.686)	Bai 98H	cs

$K^+ K^-$

(0.9939 – 1.027)		
	Akhmetshin 95	cs,mass
(1.005 – 1.035)	Akhmetshin 95B	cs
(1.35 – 2.4)	Castro 94	cs

$K_S K_L$

(0.9939 – 1.027)		
	Akhmetshin 95	cs,mass
(1.005 – 1.035)	Akhmetshin 95B	cs
(1.02)	Akhmetshin 97	cs,p

$K_1(1270)^+ K^-$

(3.686)	Bai 98H	cs

$K_1(1270)^- K^+$

(3.686)	Bai 98H	cs

$\phi(1020) \eta$

(9.4 – 10.6)	Albrecht 94J	cs,mass

$\phi(1020) \omega$

(9.4 – 10.6)	Albrecht 94J	cs,mass

charm $\overline{\text{charm}}$

(58)	Sakuda 93	const

$D^0 \bar{D}^0$

(3.77)	Wiss 96	–
(9.4 – 10.6)	Wiss 96	–

$D^+ D^-$

(3.77)	Wiss 96	–
(9.4 – 10.6)	Wiss 96	–

$D^*(2010)^+ D^-$

(4.03)	Bai 98J	–
	Bai 96	cs

$D^*(2010)^- D^+$

(4.03)	Bai 98J	–
	Bai 96	cs

$D_s^+ D_s^-$

(4.03)	Bai 98	–
	Bai 97	–
	Bai 94	–
	Bai 94B	–
	Fan 94B	cs

$D_s^{*+} D_s^-$

(4.14)	Muheim 93B	cs

$D_s^{*-} D_s^+$

(4.14)	Muheim 93B	cs

bottom $\overline{\text{bottom}}$

(91.2)	Buskulic 94H	angp,const

$2B^0 + 2\bar{B}^0$

(10.52)	Checchia 96	–
(10.58)	Checchia 96	–

$B \bar{B}$

(10.57)	Albrecht 94R	cs
(10.58)	Bishai 97B	–
	Coan 97B	–
	Artuso 96	–
	Albrecht 95H	–
	Barish 95	–
	Gibaut 95	–
	Procario 93	–
(10.6)	Artuso 97B	–
	Bonvicini 97B	–

$e^+ e^-$

$B \bar{B}$

(91.55)	Abe 95ZD	angp,asym,const,p

$B^0 \bar{B}$

(10.6)	Godang 97B	–

$B^0 \bar{B}^0$

(10.52)	Checchia 96	–
(10.56)	Asner 97	–
(10.58)	Artuso 97	cs
	Behrens 97	–
	Coan 97B	–
	Artuso 96	–
	Checchia 96	–
	Spaan 96	–
	Albrecht 95H	–
	Artuso 95B	–
	Bishai 95B	–
	Duboscq 95	–
	Gibaut 95	–
	Gibbons 95B	–
	Ross 95	–
(10.6)	Artuso 98	–
	Bartelt 98	–
	Coan 98	–
	Payne 94	–
(89.5)	Acciarri 98V	angp,const
(91.2)	Acciarri 98X	–
	Acciarri 95H	p
(91.26)	Acciarri 98V	angp,const
(93.1)	Acciarri 98V	angp,const

$B^+ B^-$

(10.58)	Athanas 98	–
	Artuso 97	cs
	Behrens 97	–
	Coan 97B	–
	Albrecht 95H	–
	Bishai 95B	–
	Gibaut 95	–
	Ross 95	–
	Albrecht 94I	–
(10.6)	Bartelt 98	–
	Coan 98	–
	Godang 97B	–
	Payne 94	–
(91.2)	Acciarri 98X	–

$B_s \bar{B}_s$

(91.2)	Acciarri 98X	–
	Acciarri 95H	p

$\Upsilon(2S) \gamma$

(10.52)	Richichi 98B	cs,mass,p
(10.58)	Richichi 98B	cs,mass,p

$\Upsilon(3S) \gamma$

(10.52)	Richichi 98B	cs,mass,p
(10.58)	Richichi 98B	cs,mass,p

$n \bar{n}$

(1.82 – 3.1)	Morandin 94	cs
(1.9 – 2.44)	Antonelli 98	angp,cs
(3.1)	Antonelli 98	angp,cs

$p \bar{p}$

(1.9)	Antonelli 94	cs
(1.9 – 2.44)	Antonelli 98	angp,cs
(1.92)	Antonelli 94	cs
(2)	Antonelli 94	cs
(2.1)	Antonelli 94	cs
(2.44)	Antonelli 94	cs
(3.1)	Antonelli 98	angp,cs

$\Sigma^- \bar{\Sigma}^+$

(2.44)	Antonelli 98	cs

$\Sigma^+ \bar{\Sigma}^-$

(2.44)	Antonelli 98	cs

$\ell^+ \ell^-$ invisible

(130)	Abreu 96M	ang,cor,cs,et
(136)	Abreu 96M	ang,cor,cs,et

$\nu \bar{\nu}$ higgs

(88 – 95)	Akers 94F	cs
(91.2)	Buskulic 96I	cs

$e^+ e^-$

$\nu \bar{\nu}$ higgs
(183) Abreu 99E cs,p

$\nu \bar{\nu}$ jet
(88.4 – 93.9) Buskulic 94K cs,mass

$\ell^+ \ell^- \gamma$
(88.2 – 94.2) Acciarri 95G angp,cs

$\nu \bar{\nu} \gamma$
(57.8) Sugimoto 95 cs
(58) Hosoda 94 cs,p
(88.5 – 93.8) Acciarri 94E angp,const,p
(89.48 – 91.26) Abreu 96 cs
(130 – 136) Adam 96B const,cs,mass,p
(130.3) Acciarri 95K cs
(136.3) Acciarri 95K cs
(140.2) Acciarri 95K cs

$e^\pm \nu_e$ charged
(172.1) Ackerstaff 97T mult,p

$e^- e^+$ invisible
(130 – 140) Acciarri 96D et,mass,p,pt

$e^- e^+$ higgs
(88 – 95) Akers 94F cs
(91.2) Buskulic 96I cs
(183) Abreu 99E cs,p

$e^\pm \nu_e$ charged-hadron
(172.1) Ackerstaff 97T mult,p

$e^- e^+$ heavy
(91.2) Abreu 96K cs

$\nu_e \bar{\nu}_e \gamma$
(161) Barate 98N angp,const,cs,p
(172) Barate 98N angp,const,cs,p
(184) Barate 98N angp,const,cs,p

$e^- e^+ \gamma$
(0.984 – 1.04) Achasov 97 angp,cs,p
(10.52) Richichi 98B cs,mass,p
(10.58) Richichi 98B cs,mass,p
(130) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs
(130 – 136) Abreu 96D ang,mass,p
(136) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs

$e^- e^+ \gamma^*$
(183) Abbiendi 98C angp,cs,mass

$e^- \bar{\nu}_e W^+$
(130) Acciarri 98M angp,const,cs
(136) Acciarri 98M angp,const,cs
(161) Acciarri 98M angp,const,cs
Acciarri 97C angp,const,cs
(172) Acciarri 98M angp,const,cs
Acciarri 97C angp,const,cs
(183) Acciarri 98M angp,const,cs

$e^+ \nu_e W^-$
(130) Acciarri 98M angp,const,cs
(136) Acciarri 98M angp,const,cs
(161) Acciarri 98M angp,const,cs
Acciarri 97C angp,const,cs

$e^+ e^-$

$e^+ \nu_e W^-$
(172) Acciarri 98M angp,const,cs
Acciarri 97C angp,const,cs
(183) Acciarri 98M angp,const,cs

$e^- e^+ Z^0$
(183) Abbiendi 98C angp,cs,mass

$Z^0 < e^- e^+ >$
(91.2) Abe 97T angp,asym,const

$\mu^- e^+$ invisible
(130 – 140) Acciarri 96D et,mass,p,pt

$\mu^+ e^-$ invisible
(130 – 140) Acciarri 96D et,mass,p,pt

$\mu^\pm \nu_\mu$ charged
(172.1) Ackerstaff 97T mult,p

$\mu^- \mu^+$ invisible
(130 – 140) Acciarri 96D et,mass,p,pt

$\mu^- \mu^+$ higgs
(88 – 95) Akers 94F cs
(91.2) Buskulic 96I cs
(183) Abreu 99E cs,p

$\mu^\pm \nu_\mu$ charged-hadron
(172.1) Ackerstaff 97T mult,p

$\mu^- \mu^+$ heavy
(91.2) Abreu 96K cs

$\mu^- \mu^+ \gamma$
(0.994 – 1.04) Akhmetshin 97B angp,cs,mass
(10.52) Richichi 98B cs,mass,p
(10.58) Richichi 98B cs,mass,p
(81.2) Acciarri 96E cs,p
(89.5) Acciarri 96E cs,p
(91.2) Acciarri 98L angp,const
Abreu 97E angp,cs,mass,p
Demin 94 cs,mass
(93) Acciarri 96E cs,p
(130) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs
(130 – 136) Abreu 96D ang,mass,p
(136) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs

$Z^0 < \mu^- \mu^+ >$
(91.2) Abe 97T angp,asym,const

$\nu_\tau \tau^\pm$ charged
(172.1) Ackerstaff 97T mult,p

$\nu_\tau \tau^\pm$ charged-hadron
(172.1) Ackerstaff 97T mult,p

$\tau^- \tau^+$ heavy
(91.2) Abreu 96K cs

$\nu_\tau \bar{\nu}_\tau \gamma$
(91.2) Acciarri 97P angp,const,cs

$\tau^- \tau^+ \gamma$
(91.2) Ackerstaff 98F angp,const
(130) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs
(130 – 136) Abreu 96D ang,mass,p

$e^+ e^-$

$\tau^- \tau^+ \gamma$
(136) Alexander 96T ang,const,cor
Alexander 96U angp,cor,cs

$Z^0 < \tau^- \tau^+ >$
(91.2) Abe 97T angp,asym,const
Fero 94 asym,const

$\nu \bar{\nu} H_1^0$
(91.2) Akers 94Q const,cs

$\mu^- \mu^+ H_1^0$
(91.2) Akers 94Q const,cs

meson^0 $e^- e^+$
(91.2) Abreu 96K cs

meson^0 $\mu^- \mu^+$
(91.2) Abreu 96K cs

meson^0 $\tau^- \tau^+$
(91.2) Abreu 96K cs

$\pi^0 e^- e^+$
(0.774 – 0.79) Aulchenko 95 cs
(10.52 – 10.58) Gronberg 97 angp,cs
(10.58) Savinov 95 angp

$\eta e^- e^+$
(10.52 – 10.58) Gronberg 97 angp,cs
(10.58) Savinov 95 angp

$\eta' e^- e^+$
(10.52 – 10.58) Gronberg 97 angp,cs
(10.58) Savinov 95 angp
(91) Acciarri 97R angp,cs

$f_2(1270) e^- e^+$
(58) Yabuki 94 cs

$f_J(2220) e^- e^+$
(10.6) Alam 98 cs

$\eta_c(1S) e^- e^+$
(4.7 – 5.3) Albrecht 94M cs

$\chi_{c2}(1P) e^- e^+$
(9.5) Sivertz 95 const,cs
(10.58) Shelkov 93 cs
(91) Acciarri 98S cs
Ackerstaff 98V cs
(183) Acciarri 98S cs
Ackerstaff 98V cs

charged 2jet
(91.2) Abreu 95C mult

higgs 2jet
(183) Abreu 99E cs,p

3jet
(10.53) Gibbons 95 const,cor,cs,p
Sivertz 95 const,cs,p
(22) Movillaferna 97 const,cs,mass,p
(29) Bauer 94 const,p
(35) Movillaferna 97 const,cs,mass,p
(44) Movillaferna 97 const,cs,mass,p
(88.2 – 94.2) Akers 94D const,cs
(88.28 – 95.04) Akers 95K p
(91.2) Abbiendi 99C p
Abbiendi 99D col,const,cor,cs,p
Abe 99C angp,const,p
Abreu 99C –
Abreu 99K col,cor,cs,p
Ackerstaff 98J –
Barate 98E –
Abreu 97O cs,p
Acciarri 97G –
Barate 97 ang,p
Abreu 96B ang,angp,p
Abreu 96Q ang,angp
Alexander 96X ang,p

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$e^+ e^-$

3jet

	Buskulic 96E	ang,col,cor,p
	Moutoussi 96	p,pt
	Abe 95V	ang,cor,cs
	Acciarri 95J	col,cor,p,pt
	Akers 95C	col,const,cor,p
	Akers 95M	angp,p
	Akers 95N	angp,const,cor,mass,p
	Alexander 95D	–
	Baird 95	const,cor,p
	Behnke 95	cs
	Buskulic 95Q	p,pt
	Buskulic 95R	ang,angp,p
	Marti 95	ang,angp,p
	Ward 95	ang,angp
	Abe 94W	const,cor,p
(91.22)	Abe 98K	angp,cs
	Markiewicz 95	angp,cs
(91.6)	Martirena 94	const,cs
(130)	Abreu 99K	col,cor,cs,p
	Buskulic 97	const,p
(136)	Abreu 99K	col,cor,cs,p
	Buskulic 97	const,p
(161)	Abreu 99K	col,cor,cs,p
	Acciarri 97Y	const,cs
(172)	Abreu 99K	col,cor,cs,p
	Acciarri 97Y	const,cs
(183)	Abreu 99K	col,cor,cs,p

2jet heavy

(91.2)	Abreu 96K	cs

γ 2neutral

(58)	Abe 95ZJ	angp,cs,p,pt

γ 2jet

(10)	Alam 97	p
(91.2)	Acciarri 97M	mass,p
	Abreu 96B	ang,angp,p
	Moutoussi 96	ang,angp,p
	Abreu 95U	const,cs
	Akers 95Q	ang,mass,p,pt
	Akers 95V	angp
	Marti 95	ang,angp,p

2γ invisible

(130)	Abreu 99I	angp,mass,p
(136)	Abreu 99I	angp,mass,p
(161)	Abreu 99I	angp,mass,p
	Ackerstaff 96H	angp,cs,mass
(172)	Abreu 99I	angp,mass,p
(183)	Abreu 99I	angp,mass,p

3γ

$< 4.526 \cdot 10^{-5}$	Vo 94	mass,p
(0.5 – 1.05)	Benayoun 96	mass,p
(0.984 – 1.04)	Achasov 97	cs,mass
(88.2 – 94.2)	Acciarri 95G	angp,cs
	Abreu 94H	angp,cs
(88.5 – 93.7)	Acciarri 95B	cs,mass
(161.3)	Acciarri 97J	cs
(172.1)	Acciarri 97J	cs
(183)	Ackerstaff 98N	angp,cs,mass

$\gamma\ q\ \overline{q}$

(10)	Alam 97	–
(88.25 – 94.25)	Buskulic 95D	cs,p
(91.2)	Abreu 96B	–
	Acciarri 95E	ang
	Marti 95	–
	Syed 95	–

$q\ \overline{q}$ gluon

(91.2)	Abreu 99C	–
	Abreu 98E	–
	Ackerstaff 98J	–
	Barate 98E	–
	Abreu 97O	const,cs
	Acciarri 97G	–
	Abreu 96B	–

$e^+ e^-$

$q\ \overline{q}$ gluon

	Alexander 96X	ang,p
	Moutoussi 96	p,pt
	Wilson 96	–
	Abe 95V	ang,cor,cs
	Acciarri 95E	ang
	Buskulic 95Q	p,pt
	Buskulic 95R	–
	Marti 95	–
	Syed 95	–
(91.22)	Abe 98K	const
	Markiewicz 95	const

$\overline{u}\ u$ gluon

(91.2)	Abe 94ZB	const

$\overline{d}\ d$ gluon

(91.2)	Abe 94ZB	const

$\overline{s}\ s$ gluon + $\overline{d}\ d$ gluon + $\overline{u}\ u$ gluon

(91.2)	Abbiendi 99C	p
(91.22)	Abe 98K	const
	Markiewicz 95	const

$\overline{s}\ s$ gluon

(91.2)	Abe 94ZB	const

$\overline{c}\ c$ gluon

(91.2)	Abe 94ZB	const
(91.22)	Abe 98K	const
	Markiewicz 95	const

$\gamma\ \overline{b}\ b$

(91.2)	Abreu 96B	–
	Marti 95	–

$\overline{b}\ b$ gluon

(91.2)	Abbiendi 99D	col,const,cor,cs,p
	Abe 99C	angp,const,p
	Abreu 97O	const,cs
	Abreu 96B	–
	Buskulic 96E	ang,col,const,cor,p
	Akers 95C	col,const,cor,p
	Behnke 95	const
	Buskulic 95R	–
	Marti 95	–
	Abe 94ZB	const
(91.22)	Abe 98K	const
	Markiewicz 95	const

2neutralino jet

(88.2 – 94.2)	Acciarri 95F	cs

γ 2neutralino

(88.2 – 94.2)	Acciarri 95F	cs

γ 2photino

(57.8)	Sugimoto 95	cs
(58)	Hosoda 94	cs,p

γ 2gravitino

(161)	Hoffmann 98	const,cs,mass,p
(172)	Hoffmann 98	const,cs,mass,p

$3A^0$

(91.2)	Akers 94Q	const,cs

meson^0 2jet

(91.2)	Abreu 96K	cs

π^+ 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

π^0 2jet

(91.2)	Acciarri 95M	mult,p

π^- 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

$2\pi^0\ \gamma$

(0.984 – 1.04)	Achasov 98	cs,mass
	Achasov 97	cs,mass

$\pi^+\ \pi^-\ \gamma$

(0.994 – 1.04)	Akhmetshin 97B	angp,cs,mass

$e^+ e^-$

$\pi^+\ \pi^-\ \gamma$

(3.097)	Bai 96D	cs,mass,p
(3.7)	Bai 98E	mass

$3\pi^0$

(0.984 – 1.04)	Achasov 97	cs,mass

$\pi^+\ \pi^0\ \pi^-$

(0.984 – 1.04)	Achasov 97	cs,mass
(0.9939 – 1.027)	Akhmetshin 95	cs,mass
(0.994 – 1.04)	Akhmetshin 98	amp,angp,cs,mass
(1.005 – 1.035)	Akhmetshin 95B	cs
(1.35 – 2.4)	Castro 94	cs

η 2jet

(91.2)	Acciarri 95M	mult,p

$\eta\ \pi^0\ \gamma$

(0.98 – 1.04)	Achasov 98B	cs
(0.984 – 1.04)	Achasov 97	cs,mass

$\eta\ \pi^+\ \pi^-$

(1 – 2)	Achasov 96	cs,mass,pwa
(1.35 – 2.4)	Castro 94	cs

$\omega\ \pi^+\ \pi^-$

(1.35 – 2.4)	Castro 94	cs

K^+ 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

K^0 2jet

(91.2)	Abreu 95C	mult

K^- 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

$K^+\ K^-\ \gamma$

(3.097)	Bai 96D	cs,mass,p
(3.7)	Bai 98E	mass

$2K_S\ \gamma$

(3.097)	Bai 96D	cs,mass,p

$K^+\ K_S\ \pi^-$

(1.35 – 2.4)	Castro 94	amp,cs

$K_S\ K^-\ \pi^+$

(1.35 – 2.4)	Castro 94	amp,cs

$D^*(2010)^+$ 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

$D^*(2010)^-$ 2jet

(91.2)	Strohmer 94	const,cor,mass,p,pt

$J/\psi(1S)\ \pi^+\ \pi^-$

(3.7)	Bai 98C	mass

$\Upsilon(1S)\ 2\pi^0$

(10.35)	Butler 93	mass

$\Upsilon(1S)\ \pi^+\ \pi^-$

(10.35)	Butler 93	ang,mass,p

$\Upsilon(2S)\ 2\pi^0$

(10.35)	Butler 93	mass

$\Upsilon(2S)\ \pi^+\ \pi^-$

(10.35)	Butler 93	ang,mass,p

$p\ \overline{p}\ \gamma$

(3.097)	Bai 96D	cs,mass,p
(3.7)	Bai 98E	mass

$J/\psi(1S) < n\ \overline{n} >$

(3.1)	Baldini 98	amp,angp,cs

$J/\psi(1S) < p\ \overline{p} >$

(3.1)	Baldini 98	amp,angp,cs

Λ 2jet

(91.2)	Abreu 95C	mult

Ξ^- 2jet

(91.2)	Abreu 95C	mult

$e^+ e^-$

$2\ell^- 2$jet
(91.2) Buskulic 94C cs

$\ell^+ \ell^- 2$jet
(91.2) Acciarri 95C col,et,pt
Akers 94N ang,cs,pt
Buskulic 94C cs

$2\ell^+ 2$jet
(91.2) Buskulic 94C cs

$\ell \nu 2$jet
(91.2) Behnke 95 col,pt
Akers 93F cs

$\nu \bar{\nu} 2$jet
(88 – 95) Akers 94F cs,mass

$\ell^+ \ell^- 2\gamma$
(88.2 – 94.2) Acciarri 95G angp,cs

$\nu \bar{\nu} 2\gamma$
(91.2) Ackerstaff 97R ang,cs,mass
(130) Abreu 99I angp,mass,p
(130.3) Ackerstaff 97R ang,cs,mass
(136) Abreu 99I angp,mass,p
(136.2) Ackerstaff 97R ang,cs,mass
(140.1) Ackerstaff 97R ang,cs,mass
(161) Abreu 99I angp,mass,p
(161.3) Ackerstaff 97R ang,cs,mass
(170.3) Ackerstaff 97R ang,cs,mass
(172) Abreu 99I angp,mass,p
(172.3) Ackerstaff 97R ang,cs,mass
(182.6) Ackerstaff 98R angp,cs,mass
(183) Abreu 99I angp,mass,p

$e^\pm \nu 2$jet
(91.2) Behnke 95 cs,p,pt

$e^- \nu 2$jet
(88.2 – 94.2) Behnke 95 const,cs,pt
Buskulic 94D const,cs,pt

$e^+ \nu 2$jet
(88.2 – 94.2) Behnke 95 const,cs,pt
Buskulic 94D const,cs,pt

$e^- e^+ 2$invisible
(161) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(172) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(183) Abbiendi 98N ang,cs,mass,p,pt

$e^- \bar{\nu}_e 2$jet
(161) Acciarri 97C angp,cs,p
(161.3) Ackerstaff 97 angp,const,p
(172) Acciarri 97C angp,cs,p

$e^+ \nu_e 2$jet
(161) Acciarri 97C angp,cs,p
(161.3) Ackerstaff 97 angp,const,p
(172) Acciarri 97C angp,cs,p

$e^- e^+ 2$jet
(88 – 95) Akers 94F cs,mass
(91.2) Abreu 94S col
(161) Abbiendi 98B angp,cs,p
Buergin 97 angp,et,p
(172) Abbiendi 98B angp,cs,p
Buergin 97 angp,et,p

$e^+ e^-$

$e^- e^+ 2\gamma$
(0.774 – 0.79) Aulchenko 95 cs
(10.52 – 10.58) Gronberg 97 mass
(91.2) Ackerstaff 97R ang,cs,mass
Abreu 96K ang,mass,p
(130) Stichelbaut 96 cs
(130 – 136) Abreu 96D ang,mass,p
(130.3) Ackerstaff 97R ang,cs,mass
(136) Stichelbaut 96 cs
(136.2) Ackerstaff 97R ang,cs,mass
(140.1) Ackerstaff 97R ang,cs,mass
(161.3) Ackerstaff 97R ang,cs,mass
(170.3) Ackerstaff 97R ang,cs,mass
(172.3) Ackerstaff 97R ang,cs,mass
(182.6) Ackerstaff 98R angp,cs,mass

$e^- e^+ 2\gamma^*$
(10.6) Dominick 94 p
(58) Adachi 99 angp,cs,et,mass,p

$e^- e^+ \nu \bar{\nu}$
(88.4 – 93.9) Buskulic 94K cs,mass
(91.2) Buskulic 94I cs,mass,pt
(130 – 136) Buskulic 96D cs
(182.7) Acciarri 98ZD ang,angp,cs

$e^- e^+ \nu_e \bar{\nu}_e$
(161) Acciarri 97C angp,cs,p
(172) Acciarri 97C angp,cs,p

$2e^- 2e^+$
(10.28) Baru 96 angp,cs,mass,p
(29) Kaloshin 94 mass
(88.4 – 93.9) Buskulic 94K cs,mass
(88.5 – 93.7) Adam 93 ang,cs,mass
(91) Acciarri 97D angp,cs,mass
(91.2) Acciarri 98I ang,angp,cor,p
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\mu^\pm \nu 2$jet
(57.8) Liu 93 col
(88.3 – 94.3) Abreu 93L cs,pt
(91.2) Behnke 95 cs,p,pt

$\mu^- \nu 2$jet
(91.2) Strohmer 94 const,cor,mass,p,pt

$\mu^+ \nu 2$jet
(91.2) Strohmer 94 const,cor,mass,p,pt

$\mu^- e^+ 2$invisible
(161) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(172) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(183) Abbiendi 98N ang,cs,mass,p,pt

$\mu^- e^+ \bar{\nu}_\mu \nu_e$
(161) Acciarri 97C angp,cs,p
(172) Acciarri 97C angp,cs,p

$\mu^+ e^- \nu_\mu \bar{\nu}_e$
(161) Acciarri 97C angp,cs,p
(172) Acciarri 97C angp,cs,p

$e^+ e^-$

$\mu^- \mu^+ 2$invisible
(161) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(172) Abbiendi 98N ang,cs,mass,p,pt
Ackerstaff 97Z ang,cs,mass,p,pt
(183) Abbiendi 98N ang,cs,mass,p,pt

$\mu^- \bar{\nu}_\mu 2$jet
(161.3) Ackerstaff 97 angp,const,p

$\mu^+ \nu_\mu 2$jet
(161.3) Ackerstaff 97 angp,const,p

$\mu^- \mu^+ 2$jet
(88 – 95) Akers 94F cs,mass
(91.2) Abreu 94S col

$\mu^- \mu^+ 2\gamma$
(91.2) Ackerstaff 97R ang,cs,mass
Abreu 96K ang,mass,p
(130) Stichelbaut 96 cs
(130 – 136) Abreu 96D ang,mass,p
(130.3) Ackerstaff 97R ang,cs,mass
(136) Stichelbaut 96 cs
(136.2) Ackerstaff 97R ang,cs,mass
(140.1) Ackerstaff 97R ang,cs,mass
(161.3) Ackerstaff 97R ang,cs,mass
(170.3) Ackerstaff 97R ang,cs,mass
(172.3) Ackerstaff 97R ang,cs,mass
(182.6) Ackerstaff 98R angp,cs,mass

$\mu^- \mu^+ \nu \bar{\nu}$
(130 – 136) Buskulic 96D cs
(182.7) Acciarri 98ZD ang,angp,cs

$\mu^- \mu^+ e^- e^+$
(29) Kaloshin 94 mass
(57.77) Levine 97 const,cs
(58) Ahn 98C ang,angp,p
(88.4 – 93.9) Buskulic 94K cs,mass
(88.5 – 93.7) Adam 93 ang,cs,mass
(91) Acciarri 97D angp,cs,mass
(91.2) Abbiendi 99 angp,p
Acciarri 98I ang,angp,cor,p
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$2\mu^- 2\mu^+$
(88.4 – 93.9) Buskulic 94K cs,mass
(88.5 – 93.7) Adam 93 ang,cs,mass
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\tau^- e^+ \bar{\nu}_\tau \nu_e$
(161) Acciarri 97C angp,cs,p
(172) Acciarri 97C angp,cs,p

$\tau^+ e^- \nu_\tau \bar{\nu}_e$
(161) Acciarri 97C angp,cs,p
(172) Acciarri 97C angp,cs,p

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$e^+ e^-$

$\tau^- \overline{\nu}_\tau$ 2jet
(161.3) Ackerstaff 97 angp,const,p

$\tau^+ \nu_\tau$ 2jet
(161.3) Ackerstaff 97 angp,const,p

$\tau^- \tau^+$ 2jet
(91.2) Akers 94Q ang,mass
(130.2) Barate 97O angp,cs,mass
(136.2) Barate 97O angp,cs,mass
(161.3) Barate 97O angp,cs,mass
(170.3) Barate 97O angp,cs,mass
(172.3) Barate 97O angp,cs,mass

$\tau^- \tau^+ 2\gamma$
(91.2) Ackerstaff 97R ang,cs,mass
Abreu 96K ang,mass,p
(130) Stichelbaut 96 cs
(130.3) Ackerstaff 97R ang,cs,mass
(136) Stichelbaut 96 cs
(136.2) Ackerstaff 97R ang,cs,mass
(140.1) Ackerstaff 97R ang,cs,mass
(161.3) Ackerstaff 97R ang,cs,mass
(170.3) Ackerstaff 97R ang,cs,mass
(172.3) Ackerstaff 97R ang,cs,mass
(182.6) Ackerstaff 98R angp,cs,mass

$\tau^- \tau^+ \nu \overline{\nu}$
(91.2) Akers 94Q ang,mass
(130 – 136) Buskulic 96D cs
(182.7) Acciarri 98ZD ang,angp,cs

$\tau^- \tau^+ e^- e^+$
(88.4 – 93.9) Buskulic 94K cs,mass
(88.5 – 93.7) Adam 93 ang,cs,mass
(91) Acciarri 97D angp,cs,mass
(91.2) Akers 94Q ang,mass
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\tau^- \tau^+ \mu^- \mu^+$
(88.4 – 93.9) Buskulic 94K cs,mass
(88.5 – 93.7) Adam 93 ang,cs,mass
(91.2) Akers 94Q ang,mass
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$2\tau^- 2\tau^+$
(91.2) Akers 94Q ang,mass
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\ell^+ \ell^- q \overline{q}$
(161 – 172) Sopczak 98 cs,mass,p
(183) Sopczak 98 cs,mass,p

$\ell^\pm \nu q \overline{q}$
(183) Abbiendi 98M mass

$\nu \overline{\nu} q \overline{q}$
(91.2) Buskulic 94I cs,mass,pt

$e^+ e^-$

$\nu \overline{\nu} q \overline{q}$
(130 – 136) Buskulic 96D cs
(161 – 172) Sopczak 98 cs,mass,p
(183) Sopczak 98 cs,mass,p

$e^- e^+ q \overline{q}$
(88.5 – 93.7) Adam 93 ang,cs,mass
(91.2) Alexander 96 –
(130 – 136) Alexander 96 –
Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\mu^- \mu^+ q \overline{q}$
(88.5 – 93.7) Adam 93 ang,cs,mass
(91.2) Alexander 96 –
(130 – 136) Alexander 96 –
Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\tau^- \tau^+ q \overline{q}$
(130 – 136) Buskulic 96D cs
(130.3 – 136.3) Acciarri 97S cs,mass,p
(161.3) Acciarri 97S cs,mass,p
(170.3 – 172.3) Acciarri 97S cs,mass,p
(182.7) Acciarri 98ZD ang,angp,cs

$\ell^+ \ell^-$ 2neutralino
(88.2 – 94.2) Acciarri 95F cs

$\nu \overline{\nu}$ 2neutralino
(88.2 – 94.2) Acciarri 95F cs

$2\pi^0 e^- e^+$
(10.35) Butler 93 mass

$\pi^+ \pi^- e^- e^+$
(10.35) Butler 93 mass
(10.6) Alam 98 cs,mass
(29) Kaloshin 94 mass
(58) Yabuki 94 angp,mass
(88.4 – 93.9) Buskulic 94K cs,mass

$2\pi^0 \mu^- \mu^+$
(10.35) Butler 93 mass

$\pi^+ \pi^- \mu^- \mu^+$
(10.35) Butler 93 mass
(88.4 – 93.9) Buskulic 94K cs,mass

$\pi^+ \pi^- \nu_\tau \overline{\nu}_\tau$
(10.6) Coan 97 ang,angp,p
(91.2) Acciarri 98C ang,angp,const
Alvaro 97 ang,angp,const
Wermes 97 ang,angp,const

$\pi^+ \pi^- \tau^- \tau^+$
(88.4 – 93.9) Buskulic 94K cs,mass

$\rho e^- e^+ \gamma$
(10.52 – 10.58) Gronberg 97 mass

$\rho^+ \pi^- \nu_\tau \overline{\nu}_\tau$
(91.2) Acciarri 98C ang,angp,const
Alvaro 97 ang,angp,const
Wermes 97 ang,angp,const

$\rho^- \pi^+ \nu_\tau \overline{\nu}_\tau$
(91.2) Acciarri 98C ang,angp,const
Alvaro 97 ang,angp,const
Wermes 97 ang,angp,const

$2\rho^0 e^- e^+$
(91.2) Abreu 98H cs,mass

$e^+ e^-$

$\rho^+ \rho^- \nu_\tau \overline{\nu}_\tau$
(10.6) Golutvin 94 cor
(91.2) Acciarri 98C ang,angp,const
Alvaro 97 ang,angp,const
Wermes 97 ang,angp,const

$K^+ \pi^- \nu_\tau \overline{\nu}_\tau$
(10.6) Coan 97 ang,angp,p

$K^- \pi^+ \nu_\tau \overline{\nu}_\tau$
(10.6) Coan 97 ang,angp,p

$K^+ K^- e^- e^+$
(88.4 – 93.9) Buskulic 94K cs,mass

$2K_S e^- e^+$
(91.2) Acciarri 95O mass

$K^+ K^- \nu_\tau \overline{\nu}_\tau$
(10.6) Coan 97 ang,angp,p

$2\phi(1020) e^- e^+$
(4.7 – 5.3) Albrecht 94M cs,mass

$p \overline{p} e^- e^+$
(10.58) Artuso 93 col,p
(58) Hamasaki 97 angp

$\Lambda \overline{\Lambda} e^- e^+$
(10.6) Anderson 97 angp,cs

$\overline{\Lambda} \Sigma^0 e^- e^+$
(10.6) Anderson 97 angp,cs

$\Lambda \overline{\Sigma}^0 e^- e^+$
(10.6) Anderson 97 angp,cs

$\Sigma^0 \overline{\Sigma}^0 e^- e^+$
(10.6) Anderson 97 angp,cs

2neutral 2jet
(91.2) Akers 94J cs

2invisible 2jet
(161.3) Acciarri 97U cs,mass,p
(170.3) Acciarri 97U cs,mass,p
(172.3) Acciarri 97U cs,mass,p

4jet
(10.53) Gibbons 95 const,cor,cs,p
Sivertz 95 const,cs,p
(22) Movillaferna 97 const,cs,mass,p
(35) Movillaferna 97 const,cs,mass,p
(44) Movillaferna 97 const,cs,mass,p
(88.2 – 94.2) Akers 94D const,cs
(91.2) Barate 98L ang,cs,mass,p
Abreu 97F cor,cs,p
Abreu 97J ang,const,cor,p
Barate 97C angp,const,cs
Akers 95 ang,cor
Abreu 94L mass
Akers 94Q ang,mass
(130) Barate 97Z cs,mass,p
Buskulic 97 const,p
Stichelbaut 96 cs,mass
(130 – 136) Buskulic 96K mass,p
(130 – 140) Acciarri 97H cs,mass
(130.2) Abreu 99B cs,mass
Barate 97O angp,cs,mass
(130.3) Ackerstaff 98C cs,mass
(130.4 – 136.3) Adam 96C angp,cs,mass,p
(136) Barate 97Z cs,mass,p
Buskulic 97 const,p
Stichelbaut 96 cs,mass
(136.2) Abreu 99B cs,mass
Ackerstaff 98C cs,mass
Barate 97O angp,cs,mass

$e^+ e^-$

4jet

(161)	Abreu 99B	cs,mass
	Acciarri 97H	cs,mass
	Acciarri 97Y	const,cs
	Barate 97Z	cs,mass,p
(161 – 172)	Sopczak 98	cs,mass,p
(161.3)	Ackerstaff 98C	cs,mass
	Barate 97O	angp,cs,mass
(170 – 172)	Acciarri 97H	cs,mass
(170.3)	Barate 97O	angp,cs,mass
(172)	Acciarri 97Y	const,cs
	Barate 97Z	cs,mass,p
(172.1)	Ackerstaff 98C	cs,mass
(172.3)	Barate 97O	angp,cs,mass
(182.7)	Ackerstaff 98C	cs,mass
(183)	Abreu 99B	cs,mass
	Sopczak 98	cs,mass,p
(184)	Barate 97Z	cs,mass,p

γ 3jet

(91.2)	Abreu 95U	const,cs
	Akers 95Q	ang,mass,p,pt

2γ 2jet

(91.2)	Abreu 96K	ang,mass,p
(182.6)	Ackerstaff 98R	angp,cs,mass

4γ

0.	Chiba 98	cs
(161.3)	Acciarri 97J	cs
(172.1)	Acciarri 97J	cs

$2\gamma\ q\ \overline{q}$

(91.2)	Ackerstaff 97R	ang,cs,mass
	Abreu 96K	–
(130.3)	Ackerstaff 97R	ang,cs,mass
(136.2)	Ackerstaff 97R	ang,cs,mass
(140.1)	Ackerstaff 97R	ang,cs,mass
(161.3)	Ackerstaff 97R	ang,cs,mass
(170.3)	Ackerstaff 97R	ang,cs,mass
(172.3)	Ackerstaff 97R	ang,cs,mass

$q\ \overline{q}$ 2gluon

(91.2)	Akers 95	ang,cor
(130 – 136)	Buskulic 96K	cs

$2q\ 2\overline{q}$

(91.2)	Akers 95	ang,cor
(130 – 136)	Buskulic 96K	cs
(161 – 172)	Sopczak 98	cs,mass,p
(183)	Abbiendi 98M	mass
	Sopczak 98	cs,mass,p

$\overline{c}\ c$ 2gluon

(91.2)	Abreu 97J	const

$\overline{c}\ c\ q\ \overline{q}$

(88.28 – 95.04)	Akers 95K	mult

$\overline{b}\ b$ 2jet

(91.2)	Abreu 97F	cor,cs,p

$\overline{b}\ b$ 2gluon

(91.2)	Abreu 97J	const

2neutralino 2jet

(88.2 – 94.2)	Acciarri 95F	cs

2gluino 2jet

(91.2)	Barate 97C	cs

2γ 2gravitino

(161)	Hoffmann 98	const,cs,mass,p
(172)	Hoffmann 98	const,cs,mass,p

$3\pi^0\ \gamma$

(0.98 – 1.05)	Achasov 98C	cs,mass

$e^+ e^-$

$\pi^+ \pi^0 \pi^- \gamma$

(1.005 – 1.035)	Akhmetshin 95B	cs
(3.7)	Bai 98D	mass

$\pi^+ 2\pi^0 \pi^-$

(0.98 – 1.26)	Achasov 99	amp,angp,cs,mass,p
(1 – 2)	Achasov 96	cs,mass,pwa

$2\pi^+ 2\pi^-$

(1 – 2)	Achasov 96	cs,mass,pwa
(1.005 – 1.035)	Akhmetshin 95B	cs

$\eta\ \pi^+ \pi^- \gamma$

(0.994 – 1.04)	Akhmetshin 97C	angp,cs,mass
(3.7)	Bai 98D	mass

$K^+ K_S \pi^- \gamma + K_S K^- \pi^+ \gamma$

(3.7)	Bai 98F	mass

$K^+ K^- \pi^+ \pi^-$

(3.686)	Bai 98L	angp,cs,mass,p

$2K^+ 2K^-$

(3.686)	Bai 98L	angp,cs,mass,p

$2\ell\ \nu$ 2jet

(91.2)	Behnke 95	col,pt

$2\ell^+ 2\ell^-$ invisible

(130)	Abreu 96M	ang,cor,cs,et
(136)	Abreu 96M	ang,cor,cs,et

$e^\pm\ \nu$ 3jet

(91.2)	Behnke 95	cs,p,pt

$2e^-\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$e^-\ e^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$2e^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$e^-\ e^+\ \ell^+\ \ell^-\ \gamma$

(10.58)	Shelkov 93	mass,pt

$\mu^\pm\ \nu$ 3jet

(91.2)	Behnke 95	cs,p,pt

$\mu^-\ e^-\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$\mu^-\ e^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$\mu^+\ e^-\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$\mu^+\ e^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$2\mu^-\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$\mu^-\ \mu^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt
	Buskulic 94D	const,cs,pt

$2\mu^+\ \nu$ 2jet

(88.2 – 94.2)	Behnke 95	const,cs,pt

$e^+ e^-$

$2\mu^+\ \nu$ 2jet

	Buskulic 94D	const,cs,pt

$3\pi^0\ e^-\ e^+$

(10.52 – 10.58)	Gronberg 97	mass

$\pi^+ \pi^0 \pi^- e^- e^+$

(10.4)	Albrecht 96B	angp,mass
(10.52 – 10.58)	Gronberg 97	mass
(91.2)	Acciarri 97O	angp,mass,pt

$\eta\ 2\pi^0\ e^-\ e^+$

(10.52 – 10.58)	Gronberg 97	mass

$\eta\ \pi^+ \pi^- e^- e^+$

(10.52 – 10.58)	Gronberg 97	mass

$K^+ K_S \pi^- e^- e^+$

(4.7 – 5.3)	Albrecht 94M	cs,mass
(91.2)	Abreu 98H	cs,mass

$K_S\ K^- \pi^+ e^- e^+$

(4.7 – 5.3)	Albrecht 94M	cs,mass
(91.2)	Abreu 98H	cs,mass

$K^*(892)^0\ K^- \pi^+ e^- e^+$

(91.2)	Abreu 98H	cs,mass

$\overline{K}^*(892)^0\ K^+ \pi^- e^- e^+$

(91.2)	Abreu 98H	cs,mass

$K^+ K^- \phi(1020)\ e^- e^+$

(4.7 – 5.3)	Albrecht 94M	cs,mass

5jet

(130)	Buskulic 97	const,p
(136)	Buskulic 97	const,p
(161)	Acciarri 97Y	const,cs
(172)	Acciarri 97Y	const,cs

5γ

0.	Chiba 98	cs

$q\ \overline{q}$ gluon $< \overline{b}\ b >$

(91.2)	Barate 98L	cs,mass,p

$2\pi^+ 2\pi^- \gamma$

(3.7)	Bai 98F	mass

$2\pi^+ \pi^0 2\pi^-$

(1.35 – 2.4)	Castro 94	cs
(3.686)	Bai 98L	angp,cs,mass,p

$K^+ K^- \pi^+ \pi^- \gamma$

(3.7)	Bai 98F	mass

$2K_S\ \pi^+ \pi^- \gamma$

(3.7)	Bai 98F	mass

$2K^+ 2K^- \gamma$

(3.1)	Bertolotto 94	ang,mass
(3.7)	Bai 98F	mass

$\Upsilon(1S)\ \pi^+ \pi^- 2\gamma$

(10.35)	Butler 93	ang,mass,p

$\Upsilon(1S)\ \pi^+ 2\pi^0 \pi^-$

(10.35)	Butler 93	ang,mass,p

$\Upsilon(1S)\ 2\pi^+ 2\pi^-$

(10.35)	Butler 93	ang,mass,p

$p\ \overline{p}\ \pi^+ \pi^- \gamma$

(3.7)	Bai 98F	mass

$2\ell\ 2\nu$ 2jet

(91.2)	Akers 93F	cs

$e^-\ e^+\ 4\gamma$

(10)	Kaloshin 94	angp,mass

$\tau^-\ \tau^+\ \nu\ \overline{\nu}$ 2jet

(91.2)	Akers 94Q	ang,mass

$\tau^-\ \tau^+\ e^-\ e^+$ 2jet

(91.2)	Akers 94Q	ang,mass

$\tau^-\ \tau^+\ \mu^-\ \mu^+$ 2jet

(91.2)	Akers 94Q	ang,mass

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$e^+ e^-$

$2\tau^- 2\tau^+$ 2jet
(91.2) Akers 94Q ang,mass
$3\tau^- 3\tau^+$
(91.2) Akers 94Q ang,mass
$2\pi^+ \ell^\pm \nu$ 2jet
(172) Abreu 97C angp,const,cor,mass
$\pi^+ \pi^- \ell^\pm \nu$ 2jet
(172) Abreu 97C angp,const,cor,mass
$2\pi^- \ell^\pm \nu$ 2jet
(172) Abreu 97C angp,const,cor,mass
$\pi^+ \pi^0 e^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_e$
(10.6) Alexander 97 angp,mass,p
$\pi^0 \pi^- e^+ \nu_\tau \bar{\nu}_\tau \nu_e$
(10.6) Alexander 97 angp,mass,p
$\pi^+ \pi^0 \mu^- \nu_\tau \bar{\nu}_\tau \bar{\nu}_\mu$
(10.6) Alexander 97 angp,mass,p
$\pi^0 \pi^- \mu^+ \nu_\tau \bar{\nu}_\tau \nu_\mu$
(10.6) Alexander 97 angp,mass,p
$\tau^- < \pi^- \nu_\tau > \tau^+ < \pi^+ \bar{\nu}_\tau >$
(91.2) Buskulic 94 const,cor,pol
$2\pi^+ 2\pi^- e^- e^+$
(4.7 – 5.3) Albrecht 94M cs,mass
(10.6) Godang 97 angp,mass
$\pi^+ 2\pi^0 \pi^- \nu_\tau \bar{\nu}_\tau$
(9.4 – 10.6) Albrecht 94Q angp,p
(10.6) Alexander 97 angp,mass,p
$\tau^- < \pi^- \nu_\tau > \tau^+ < \rho^+ \bar{\nu}_\tau >$
(91.2) Buskulic 94 const,cor,pol
$\tau^- < \rho^- \nu_\tau > \tau^+ < \pi^+ \bar{\nu}_\tau >$
(91.2) Buskulic 94 const,cor,pol
$\tau^- < \rho^- \nu_\tau > \tau^+ < \rho^+ \bar{\nu}_\tau >$
(91.2) Buskulic 94 const,cor,pol
$K^+ \pi^+ 2\pi^- e^- e^+$
(4.7 – 5.3) Albrecht 94M cs,mass
$K^- 2\pi^+ \pi^- e^- e^+$
(4.7 – 5.3) Albrecht 94M cs,mass
$K^+ K^- \pi^+ \pi^- e^- e^+$
(4.7 – 5.3) Albrecht 94B mass
Albrecht 94M cs,mass
$2K_S \pi^+ \pi^- e^- e^+$
(91.2) Abreu 98H cs,mass
$2K^+ 2K^- e^- e^+$
(4.7 – 5.3) Albrecht 94M cs,mass
(91.2) Abreu 98H cs,mass
$3\bar{b}\ 3b$
(91.2) Akers 94Q ang,mass
diquark $< \bar{c}\ \bar{s} >$ diquark $< c\ s >$
(91.2) Abreu 94L mass
$2\pi^+$ 4jet
(172) Abreu 97C angp,const,cor,mass
$\pi^+ \pi^-$ 4jet
(172) Abreu 97C angp,const,cor,mass
$2\pi^-$ 4jet
(172) Abreu 97C angp,const,cor,mass

$e^+ e^-$

$2\pi^+ 2\pi^0 2\pi^-$
(1.82 – 2.44) Gauzzi 94 cs
$\tau^- < \nu_\tau$ hadron$^- > \tau^+ < \ell^+ \bar{\nu}_\tau \nu >$
(91.2) Acciarri 98D ang,angp,const,p,pol
$\tau^- < \ell^- \bar{\nu}_\tau \bar{\nu} > \tau^+ < \bar{\nu}_\tau$ hadron$^+ >$
(91.2) Acciarri 98D ang,angp,const,p,pol
$\pi^+ 3\pi^0 \pi^- e^- e^+$
(10.52 – 10.58) Gronberg 97 mass
$2\pi^+ 3\pi^- \tau^+ \nu_\tau$
(10.6) Gibaut 94 cs,mass
$K^+ K^- \pi^+ \pi^0 \pi^- e^- e^+$
(4.7 – 5.3) Albrecht 94B mass
7γ
(0.98 – 1.05) Achasov 98C cs,mass
$3\pi^+ 3\pi^- \gamma$
(3.7) Bai 98F mass
$e^- e^+ 6\gamma$
(10) Kaloshin 94 angp,mass
$2\pi^+ 2\pi^0 2\pi^- e^- e^+$
(9.4 – 10.6) Albrecht 95G mass
$2\pi^+ \pi^0 3\pi^- \tau^+ \nu_\tau$
(10.6) Gibaut 94 cs,mass
$2\pi^+ 2\pi^0 3\pi^- \tau^+ \nu_\tau$
(10.6) Gibaut 94 cs

e^+ nucleon

$\Delta(1232\, P_{33})\ e^+$
0.5 – 0.52 Achasov 98D cs
$p\ \pi^0\ e^+$
0.5 – 0.52 Achasov 98D mass
$p\ \pi^-\ e^+$
0.5 – 0.52 Achasov 98D mass
$n\ \pi^+\ e^+$
0.5 – 0.52 Achasov 98D mass
$n\ \pi^0\ e^+$
0.5 – 0.52 Achasov 98D mass

$e^+ p$

$\bar{\nu}_e$ X
(300) Adloff 97B angp,cs
Aid 96L angp,cs,p,pt
Derrick 96I cs,p
e^+ X
27.5 Ackerstaff 98M angp,asym,p
27.57 Airapetyan 98 angp,asym,p
(296) Frey 96 angp,p
Aid 95G angp
(300) Adloff 98B cs,p
Adloff 98C cs,pt
Adloff 98D angp,const,cs,mass
Adloff 98E const,cs,p
Breitweg 98H angp,p
Breitweg 98L p
Adloff 97B angp,cs
Adloff 97C angp
Adloff 97G angp,p
Breitweg 97 angp,cs
Breitweg 97B p
Breitweg 97J p
Breitweg 97K p
Adloff 96C angp
Aid 96L angp,cs,p,pt
Aid 96M p
Derrick 96G -
Derrick 96I cs,p
Derrick 95M angp,cs,p
Derrick 95N const,cs,p
μ^- X
(300) Adloff 98C cs,pt

$e^+ p$

μ^+ X
(300) Adloff 98C cs,pt
Ahmed 94F pt
mult[jet] X
(300) Derrick 96I cs
lepto-quark X
(300) Brummer 96B cs
Aid 95J cs
$\overline{\text{lepto-quark}}$ X
(296) Derrick 96H cs
(300) Derrick 96H cs
heavy-$\bar{\nu}_e$ X
(300) Brummer 96 cs
X $\tilde{q}$
(300) Aid 96F cs
Brummer 96B cs
X $\bar{\tilde{q}}$
(300) Aid 96F cs
Brummer 96B cs
$\tilde{t}$ X
(300) Aid 96F cs
Brummer 96B cs
$\bar{\tilde{t}}$ X
(300) Aid 96F cs
Brummer 96B cs
ν^* X
(300) Breitweg 97N const,cs
Aid 96G et,mass
e^{*+} X
(300) Breitweg 97N const,cs
q^* X
(300) Breitweg 97N const,cs
Aid 96G et,mass
$D^*(2010)^+$ X
(300) Aid 96D cs,p,pt
$D^*(2010)^-$ X
(300) Aid 96D cs,p,pt
$\bar{\nu}$ jet X
(300) Aid 95J cs,et,mass
$\nu\ W^\pm$ X
(300) Breitweg 97N mass
e^+ charged X
(300) Adloff 98G p
Adloff 97E mult,p
Adloff 96 angp,cs,p,pt
Aid 96I mult,p,pt
e^+ neutral X
(300) Adloff 98G p
e^+ jet X
(300) Adloff 98G ang,angp,p,pt
Breitweg 98 angp,cs,p
Breitweg 98C angp
Aid 95J cs,et,mass
e^+ (jets) jet
(300) Breitweg 99 col,et
$\bar{\nu}_e$ hadron (hadrons)
(296) Aid 95B angp,cs,pt
e^+ hadron (hadrons)
(300) Adloff 97F col
$e^+ \gamma$ X
(300) Breitweg 97N mass
$e^+ Z^0$ X
(300) Breitweg 97N mass
μ^+ jet X
(300) Aid 95J cs,et,mass
τ^+ jet X
(300) Aid 95J cs,et,mass
$\pi^+ e^+$ X
27.5 Ackerstaff 98L angp,p

$e^+ p$

$\pi^- e^+ X$
27.5 Ackerstaff 98L angp,p

$K_S e^+ X$
(300) Adloff 97I angp,p,pt
Aid 96H mult,p,pt

$D^0 e^+ X$
(300) Adloff 96B cs,pt

$\overline{D}^0 e^+ X$
(300) Adloff 96B cs,pt

$D^*(2010)^\pm e^+ X$
(300) Breitweg 98E cs,p,pt

$D^*(2010)^+ e^+ X$
(300) Adloff 98H cs,p,pt
Breitweg 97F cs,p,pt
Breitweg 97G cs,p,pt
Adloff 96B cs,pt
Aid 96D cs,p,pt

$D^*(2010)^- e^+ X$
(300) Adloff 98H cs,p,pt
Breitweg 97F cs,p,pt
Breitweg 97G cs,p,pt
Adloff 96B cs,pt
Aid 96D cs,p,pt

$J/\psi(1S) e^+ X$
(300) Breitweg 97C angp,cs
Aid 96K cs,mass,pt

DD < X > $J/\psi(1S) e^+$
(300) Aid 96K cs,mass,pt

$\psi(2S) e^+ X$
(300) Adloff 97L cs

$p e^+ X$
(300) Adloff 98F angp,p
Breitweg 98J angp,mass,p
Breitweg 97I angp,p

DD < X > $p e^+$
(300) Breitweg 97B p

$n e^+ X$
(300) Adloff 98F angp,p
Derrick 96C angp,mass,p

$\Lambda e^+ X$
(300) Adloff 97I angp,p,pt
Aid 96H mult,p,pt

$\overline{\Lambda} e^+ X$
(300) Adloff 97I angp,p,pt
Aid 96H mult,p,pt

charged (chargeds) X
(300) Adloff 98L et,p,pt

2jet X
(300) Adloff 97H angp,cs

γ jet X
(300) Breitweg 97N mass

$\tilde{e}^+ X \tilde{q}$
(300) Breitweg 98D cs
Aid 96E cs
Brummer 96B cs

$\tilde{\bar{t}} \tilde{t} X$
(300) Aid 96F cs
Brummer 96B cs

$2\pi^+ X$
(300) Adloff 97M ang,angp,cor,mass,p

$\pi^+ \pi^- X$
(300) Adloff 97M ang,angp,cor,mass,p

$2\pi^- X$
(300) Adloff 97M ang,angp,cor,mass,p

$p e^{*+} X$
(300) Aid 96G et,mass

$e^+ p$

DD < charged X > $e^+ X$
(300) Adloff 98 cor,mass,mult,p

e^+ charged (chargeds) X
(300) Aid 96J angp,cs,p,pt

e^+ 2jet X
(300) Adloff 98B cs,p
Adloff 98E const,cs,p
Adloff 98G ang,angp,p,pt
Adloff 98I angp,p,pt
Breitweg 97H et,p
Brummer 96 cs,p
Derrick 96B ang,et,mass,p

e^+ 2hadron (hadrons)
(300) Adloff 97 angp,mass,p

$e^+ \gamma$ jet X
(300) Breitweg 97D cs

μ^+ hadron (hadrons) X
(296) Derrick 96H mass,pt
(300) Derrick 96H mass,pt

τ^+ hadron (hadrons) X
(296) Derrick 96H mass,pt
(300) Derrick 96H mass,pt

DD < p X > DD < X > e^+
(300) Breitweg 97B p

2DD < X > e^+
(300) Breitweg 98F angp,p

$2\pi^+$ mult[charged] X
(300) Adloff 97M cor,mult

$\pi^+ \pi^-$ mult[charged] X
(300) Adloff 97M cor,mult

$2\pi^-$ mult[charged] X
(300) Adloff 97M cor,mult

e^+ jet < charged X > X
(300) Breitweg 97L angp,mult,p,pt

e^+ 3jet X
(300) Adloff 98D angp,const,cs,mass
Sinclair 98 angp,cs,et,mass,p
Derrick 95N const,cs,p

e^+ hadron (hadrons) jet X
(300) Breitweg 98D et,p
Aid 96E col,et,p

e^+ hadron 2jet X
(300) Derrick 95O cor,cs,et,p

e^+ jet < K^0 X > X
(300) Breitweg 97L angp,mult,p,pt

e^+ charm 2jet X
(300) Breitweg 98E cs,p,pt

DD < 2jet X > $p e^+$
(300) Breitweg 98B ang,et,mass,p

DD < p < X >> DD < γ^* < ρ^0 >> e^+
(300) Adloff 97D angp,cs,dme,pt

$\Delta(1232 P_{33})^+ e^+$
0.51 Achasov 97 cs

$p e^{*+}$
(300) Aid 96G et,mass

e^+ 2jet
(300) Adloff 98J angp,et,p
Adloff 98L et,p,pt
Adloff 97K col,mass,pt

$e^+ p$

DD < p > DD < γ^* > e^+
(300) Adloff 97G angp,p

$p \rho^0 e^+$
27.5 Ackerstaff 98W angp
(300) Breitweg 98K angp,cs,pol
Adloff 97D cs
Aid 96C angp,cs
Derrick 96E angp,cs,pt

$p \omega e^+$
(300) Derrick 96D angp,cs,pt

$p \phi(1020) e^+$
(300) Adloff 97D cs
Derrick 96F angp,cs
Derrick 95Q angp,cs,pt

$p J/\psi(1S) e^+$
(300) Breitweg 98K cs
Breitweg 97E angp
Aid 96C cs
Aid 96K cs,mass,pt

$p \mu^- \mu^+ e^+$
(300) Breitweg 98G mass,p

$p \pi^+ \pi^- e^+$
(300) Aid 96 angp,mass
Derrick 96E angp,cs,mass

$p K^+ K^- e^+$
(300) Derrick 95Q angp,mass

$p \pi^+ \pi^0 \pi^- e^+$
(300) Derrick 96D ang,angp,cs,mass

$e^+ n$

$e^+ X$
27.5 Ackerstaff 98M angp,asym,p

e^+ nucleus

$2\pi^+ X$
5 Degtyarenko 97 cor

$\pi^+ \pi^- X$
5 Degtyarenko 97 cor

$2\pi^- X$
5 Degtyarenko 97 cor

$p \pi^- X$
5 Degtyarenko 97 cor

$2p X$
5 Degtyarenko 97 cor

$p \pi^- e^+ X$
14.5 Elouadrhiri 94 angp,mass,p

$2p e^+ X$
14.5 Degtyarenko 94 angp,mass,p

e^+ deuteron

$\pi^+ e^+ X$
27.5 Ackerstaff 98L angp,p

$\pi^- e^+ X$
27.5 Ackerstaff 98L angp,p

deuteron $\rho^0 e^+$
27.5 Ackerstaff 98W angp

$e^+ {}^3He$

$e^+ X$
27.5 Adeva 98B angp,asym,p
Geiger 98 angp,asym,p
Ackerstaff 97ZI angp,asym,p

e^+ hadron$^+$ X
27.5 Geiger 98 asym,p

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$e^+ {}^3He$

$\pi^+ e^+ X$
27.5 Ackerstaff 98L angp,p
Geiger 98 angp

$\pi^0 e^+ X$
27.5 Geiger 98 asym,p

$\pi^- e^+ X$
27.5 Ackerstaff 98L angp,p

$\rho e^+ X$
27.5 Geiger 98 pol

${}^3He \rho^0 e^+$
27.5 Ackerstaff 98W angp

$e^+ {}^{14}Nit$

${}^{14}Nit \rho^0 e^+$
27.5 Ackerstaff 98W angp

$e^+ {}^{16}O$

$2\pi^+ X$
5 Doroshkevich 98 cor,pt

$\pi^+ \pi^- X$
5 Doroshkevich 98 cor,pt

$2\pi^- X$
5 Doroshkevich 98 cor,pt

$p \pi^+ X$
5 Doroshkevich 98 cor,pt

$p \pi^- X$
5 Doroshkevich 98 cor,pt

$2p X$
5 Doroshkevich 98 cor,pt

$\mu^\pm Fe$

$Fe \mu^\pm \nu \gamma$
120 Akkus 98 –

$\mu^- p$

$n \nu_\mu \gamma$
0. Wright 98 const,p
Depommier 94 p
Hasinoff 94 const,cs,p
Jonkmans 94 p
0.063 Jonkmans 96 angp,const,cs,p

$\mu^- {}^3He$

$(\mu^- {}^3He)_{atom}$
0. Ackerbauer 97 –

${}^3H \nu_\mu$
0. Ackerbauer 97 const,cs,p
Cummings 95 asym

$\mu^- {}^{11}Bor$

$Be^* \nu_\mu$
0. Wiaux 98 amp,const,cs,p

$\mu^- C$

$\mu^- X$
200 Benvenuti 93 p
209 Arneodo 92 cs

$\mu^- {}^{16}O$

$Nit^* \nu_\mu$
0. Briancon 98 angp,cs,p

$\mu^- {}^{23}Na$

$Ne^* < Ne\ \gamma > \nu_\mu$
0. Johnson 96 const,cs,p

$Ne^* < Fl^* < Fl\ \gamma > e^+ \nu_e > \nu_\mu$
0. Johnson 96 const,cs,p

$\mu^- {}^{28}Si$

$Al^* < Al^*\ \gamma > \nu_\mu$
0.06 Moftah 97 angp,p

$\mu^- Ti$

$Ga\ e^+$
0. Kaulard 98 const,cs,p

$\mu^- {}^{58}Ni$

γX
0. Gorringe 98 a-dep,const,p

$\mu^- {}^{60}Ni$

γX
0. Gorringe 98 a-dep,const,p

$\mu^- {}^{62}Ni$

γX
0. Gorringe 98 a-dep,const,p

$\mu^- Cu$

$\mu^- X$
209 Arneodo 92 cs

$\mu^+ e^-$

muonium
0. Jungmann 98 –
Meyer 98 –
Willmann 98 –
Abela 96 –

$\mu^- e^+$
0. Gordeev 97 p
Gordeev 96 p
Gordeev 94 amp,const,qnc

$\mu^+ p$

$\mu^+ X$
90 Arneodo 97 angp,cs,p
Seligman 97 const,p
Seligman 97C const,p
Arneodo 96 angp
Arneodo 95C angp,p
Badelek 95 a-dep,p
Arneodo 94C p
Nassalski 94 p
100 Adeva 98 angp,asym,p
Adeva 98B angp,asym,p
Wislicki 96 angp,asym,p
Hughes 95 asym,p
Adams 94I asym,p
Adeva 93B asym,p,pol
Altarelli 93 asym
120 Adeva 98B angp,asym,p
Arneodo 97 angp,cs,p
Seligman 97 const,p
Seligman 97C const,p
Arneodo 96 angp
Arneodo 95C angp,p
Adeva 93B asym,p,pol
Altarelli 93 asym
190 Adeva 98 angp,asym,p
Adams 97B angp,asym,p
Adeva 97 angp,asym,p
Wislicki 96 angp,asym,p
Ehrnsperger 95 angp,asym,p
Hughes 95 asym,p
Velasco 95 asym,p
Adams 94G asym,p
Witzmann 94 asym,p
200 Adeva 98B angp,asym,p
Arneodo 97 angp,cs,p
Seligman 97 const,p

$\mu^+ p$

$\mu^+ X$
Seligman 97C const,p
Arneodo 96 angp
Arneodo 95C angp,p
Adeva 93B asym,p,pol
Altarelli 93 asym
280 Arneodo 97 angp,cs,p
Seligman 97 const,p
Seligman 97C const,p
Arneodo 96 angp
Arneodo 95C angp,p
Badelek 95 a-dep,p
Arneodo 94C p
Nassalski 94 p
350 – 600 Kotwal 94 p
465 Kotwal 94B angp,p
Spentzouris 94 angp,p
Wolbers 94 angp,p
470 Adams 95 angp,p
Adams 95C a-dep,angp,p
Badelek 95 a-dep,angp,p
Kotwal 95 angp,p
490 Adams 93C const,et

μ^+ **mult[charged] (neutrals)**
280 Fialkowski 94 col,mult

μ^+ **mult[charged$^+$] (neutrals)**
280 Fialkowski 94 col,mult

μ^+ **mult[charged$^-$] (neutrals)**
280 Fialkowski 94 col,mult

μ^+ **hadron$^+$ X**
100 Adeva 98 angp,asym,p
Adeva 98B angp,asym,p
Adeva 97B angp,asym,p
Degroot 96 angp,asym,p
Wislicki 96 angp,asym,p
Adeva 95 angp,asym,p
190 Adeva 98 angp,asym,p
Adeva 98B angp,asym,p
Adeva 97B angp,asym,p
Degroot 96 angp,asym,p
Wislicki 96 angp,asym,p
Adeva 95 angp,asym,p

μ^+ **hadron$^-$ X**
100 Adeva 98 angp,asym,p
Adeva 98B angp,asym,p
Adeva 97B angp,asym,p
Degroot 96 angp,asym,p
Wislicki 96 angp,asym,p
Adeva 95 angp,asym,p
190 Adeva 98 angp,asym,p
Adeva 98B angp,asym,p
Adeva 97B angp,asym,p
Degroot 96 angp,asym,p
Wislicki 96 angp,asym,p
Adeva 95 angp,asym,p

μ^+ **charged-hadron X**
470 Adams 97F angp,p

$\mu^- \mu^+ X$
200 Arneodo 94 mass
280 Arneodo 94 mass

$\rho^0 \mu^+ X$
490 Salgado 96 a-dep,angp

$\rho(1450)^0 \mu^+ X$
490 Salgado 96 a-dep,angp

$\rho_3(1690)^0 \mu^+ X$
490 Salgado 96 a-dep,angp

$\mu^+ p$

$K^0 \mu^+ X$

490	Adams 94D	mass,mult,p,pt

$\overline{K}^0 \mu^+ X$

490	Adams 94D	mass,mult,p,pt

$\phi(1020) \mu^+ X + \rho^0 \mu^+ X$

470	Fang 94	a-dep,cs,p

$J/\psi(1S) \mu^+ X$

200	Arneodo 95D	a-dep,p
	Arneodo 94	p,pt
280	Arneodo 94	p,pt

$n \mu^+ X$

470	Adams 95D	mult,p

$\Lambda \mu^+ X$

490	Adams 94D	mass,mult,p,pt

$\overline{\Lambda} \mu^+ X$

490	Adams 94D	mass,mult,p,pt

2charged$^+$ X

490	Adams 94E	cor,p

charged$^+$ charged$^-$ X

490	Adams 94E	cor,p

2charged$^-$ X

490	Adams 94E	cor,p

μ^+ 2jet X

470	Seligman 97	const,p
	Seligman 97C	const,p
	Adams 96	angp,p
490	Adams 93C	const,et

μ^+ hadron$^+$ hadron$^-$ X

490	Salgado 96	mass
	Adams 95G	mass

$\pi^+ \pi \mu^+ X$

490	Adams 94D	mass

$\pi^+ \pi^- \mu^+ X$

490	Adams 93F	p

$p \pi^- \mu^+ X$

490	Adams 94D	mass

$\overline{p} \pi^+ \mu^+ X$

490	Adams 94D	mass

3charged X

490	Adams 94E	cor,p

3charged$^-$ X

490	Adams 94E	cor,p

$p \mu^+$ hadron$^+$ hadron$^-$ (neutrals)

490	Kotwal 94B	mass

$p \rho^0 \mu^+$

465	Schellman 94	a-dep,angp
470	Adams 97C	cs,p,pt
490	Salgado 96	a-dep,angp
	Adams 95G	a-dep,angp
	Kotwal 94B	a-dep,angp

$p \rho(1450)^0 \mu^+$

490	Salgado 96	a-dep,angp

$p \rho_3(1690)^0 \mu^+$

490	Salgado 96	a-dep,angp

$p \phi(1020) \mu^+$

465	Schellman 94	a-dep,angp

$p \mu^+$ charged$^+$ charged$^-$

465	Schellman 94	mass

$p \mu^+$ hadron$^+$ hadron$^-$

490	Salgado 96	mass

$p \pi^+ \pi^- \mu^+$

470	Adams 97C	angp,mass

$\mu^+ n$

$\mu^+ X$

90	Badelek 95	a-dep,p
	Arneodo 94C	p
280	Badelek 95	a-dep,p
	Arneodo 94C	p
465	Spentzouris 94	angp,p
	Wolbers 94	angp,p
470	Adams 95	angp,p

μ^+ nucleus

μ^+ charged$^+$ charged$^-$ X

470	Fang 94	mass

μ^+ deuteron

$\mu^+ X$

90	Arneodo 97	angp,cs,p
	Seligman 97	const,p
	Seligman 97C	const,p
	Arneodo 96	angp
	Arneodo 95C	angp,p
	Badelek 95	a-dep,p
	Arneodo 94C	p
	Mallot 94	p
	Nassalski 94	p
100	Adeva 98	angp,asym,p
	Wislicki 96	angp,asym,p
	Ehrnsperger 95	angp,asym,p
	Hughes 95	asym,p
	Horikawa 94	asym,p
	Lowe 94	angp,asym
	Mallot 94	asym,p
	Niinikoski 94	asym,p
	Adeva 93B	asym
	Altarelli 93	asym,p
	Arneodo 92	a-dep,p
120	Arneodo 97	angp,cs,p
	Seligman 97	const,p
	Seligman 97C	const,p
	Arneodo 96	angp
	Arneodo 95C	angp,p
	Arneodo 92	a-dep,p
190	Adeva 98	angp,asym,p
	Adeva 98C	angp,asym,p
	Adams 97	–
	Wislicki 96	angp,asym,p
	Adams 95E	asym,p
	Hughes 95	asym,p
200	Arneodo 97	angp,cs,p
	Seligman 97	const,p
	Seligman 97C	const,p
	Arneodo 96	angp
	Amaudruz 95	a-dep,p
	Arneodo 95	a-dep,angp,p
	Arneodo 95C	angp,p
	Paic 94	a-dep,angp
	Arneodo 92	a-dep,p
280	Arneodo 97	angp,cs,p
	Seligman 97	const,p
	Seligman 97C	const,p
	Arneodo 96	angp
	Arneodo 95C	angp,p
	Badelek 95	a-dep,p
	Arneodo 94C	p
	Mallot 94	p
	Nassalski 94	p
	Arneodo 92	p
350 – 600	Kotwal 94	p
465	Kotwal 94B	angp,p
	Spentzouris 94	angp,p
	Wolbers 94	angp,p
470	Adams 95	angp,p
	Adams 95C	a-dep,angp,p
	Badelek 95	a-dep,angp,p
	Kotwal 95	angp,p
490	Conrad 95	a-dep,cs,p
	Mallot 94	a-dep,p

μ^+ deuteron

$\mu^+ X$

	Adams 93C	const,et
	Arneodo 92	p

mult[charged] X

490	Adams 93D	mult,p

mult[charged$^+$] X

490	Adams 93D	mult,p

mult[charged$^-$] X

490	Adams 93D	mult,p

charged X

490	Adams 93D	mult,p,pt

charged$^+$ X

490	Adams 93D	mult,p,pt

charged$^-$ X

490	Adams 93D	mult,p,pt

μ^+ charged X

490	Adams 94F	mult,p

μ^+ charged$^+$ X

490	Adams 94F	mult,p

μ^+ charged$^-$ X

490	Adams 94F	mult,p

μ^+ hadron$^+$ X

100	Adeva 98	angp,asym,p
	Adeva 98B	angp,asym,p
	Adeva 97B	angp,asym,p
	Degroot 96	angp,asym,p
	Wislicki 96	angp,asym,p
	Adeva 95	angp,asym,p
190	Adeva 98	angp,asym,p
	Adeva 98B	angp,asym,p
	Adeva 97B	angp,asym,p
	Degroot 96	angp,asym,p
	Wislicki 96	angp,asym,p
	Adeva 95	angp,asym,p

μ^+ hadron$^-$ X

100	Adeva 98	angp,asym,p
	Adeva 98B	angp,asym,p
	Adeva 97B	angp,asym,p
	Degroot 96	angp,asym,p
	Wislicki 96	angp,asym,p
	Adeva 95	angp,asym,p
190	Adeva 98	angp,asym,p
	Adeva 98B	angp,asym,p
	Adeva 97B	angp,asym,p
	Degroot 96	angp,asym,p
	Wislicki 96	angp,asym,p
	Adeva 95	angp,asym,p

μ^+ charged-hadron X

490	Adams 94H	cor,p

$\mu^- \mu^+ X$

200	Arneodo 94	mass
280	Arneodo 94	mass

$\rho^0 \mu^+ X$

490	Salgado 96	a-dep,angp

$\rho(1450)^0 \mu^+ X$

490	Salgado 96	a-dep,angp

$\rho_3(1690)^0 \mu^+ X$

490	Salgado 96	a-dep,angp

$K^0 \mu^+ X$

490	Adams 94D	mass,mult,p,pt

$\overline{K}^0 \mu^+ X$

490	Adams 94D	mass,mult,p,pt

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μ^+ deuteron

$\phi(1020)\ \mu^+$ X + $\rho^0\ \mu^+$ X
470 Fang 94 a-dep,cs,p

$J/\psi(1S)\ \mu^+$ X
200 Arneodo 95D a-dep,p
Arneodo 94 p,pt
280 Arneodo 94 p,pt

$n\ \mu^+$ X
470 Adams 95D mult,p

$\Lambda\ \mu^+$ X
490 Adams 94D mass,mult,p,pt

$\overline{\Lambda}\ \mu^+$ X
490 Adams 94D mass,mult,p,pt

2charged X
490 Adams 93D cor,p

2charged$^+$ X
490 Adams 94E cor,p

charged$^+$ charged$^-$ X
490 Adams 94E cor,p

2charged$^-$ X
490 Adams 94E cor,p

μ^+ mult[grey] charged$^+$ X
490 Adams 94F mult,p

μ^+ mult[grey] charged$^-$ X
490 Adams 94F mult,p

μ^+ 2jet X
470 Seligman 97 const,p
Seligman 97C const,p
Adams 96 angp,p
490 Adams 95F angp,cor,p
Adams 93C const,et

μ^+ hadron$^+$ hadron$^-$ X
490 Salgado 96 mass
Adams 95G mass

μ^+ 2charged-hadron X
490 Adams 94H cor,p

$\pi^+\ \pi\ \mu^+$ X
490 Adams 94D mass

$\pi^+\ \pi^-\ \mu^+$ X
490 Adams 93F p

$p\ \pi^-\ \mu^+$ X
490 Adams 94D mass

$\overline{p}\ \pi^+\ \mu^+$ X
490 Adams 94D mass

$\rho^0\ \mu^+$ fragt (fragts)
490 Adams 95G a-dep,angp

3charged X
490 Adams 94E cor,p

3charged$^-$ X
490 Adams 94E cor,p

μ^+ 3charged-hadron X
490 Adams 94H cor,p

deuteron μ^+ hadron$^+$ hadron$^-$ (neutrals)
490 Kotwal 94B mass

deuteron $\rho^0\ \mu^+$
200 Arneodo 95D ang,angp,dme,pt
Arneodo 94B a-dep,p,pt
465 Schellman 94 a-dep,angp
490 Salgado 96 a-dep,angp
Kotwal 94B a-dep,angp
500 Conrad 95 a-dep,angp,cs

deuteron $\rho(1450)^0\ \mu^+$
490 Salgado 96 a-dep,angp

deuteron $\rho_3(1690)^0\ \mu^+$
490 Salgado 96 a-dep,angp

μ^+ deuteron

deuteron $\phi(1020)\ \mu^+$
200 Arneodo 95D angp
Arneodo 94B p,pt
465 Schellman 94 a-dep,angp

deuteron μ^+ charged$^+$ charged$^-$
465 Schellman 94 mass

deuteron μ^+ hadron$^+$ hadron$^-$
490 Salgado 96 mass

deuteron $\pi^+\ \pi^-\ \mu^+$
200 Arneodo 94B a-dep,ang,mass,p,pt

deuteron $K^+\ K^-\ \mu^+$
200 Arneodo 94B mass,p,pt

μ^+ He

μ^+ X
200 Amaudruz 95 a-dep,p
Arneodo 92 a-dep,p

μ^+ Li

μ^+ X
200 Paic 94 a-dep,angp

$\mu^+\ ^6$Li

μ^+ X
90 Amaudruz 95 a-dep,p
200 Arneodo 95 a-dep,angp,p

μ^+ Be

μ^+ X
90 Mallot 94 a-dep,p
200 Arneodo 96B a-dep,angp,p
280 Mallot 94 a-dep,p

μ^+ C

μ^+ X
90 Mallot 94 a-dep,p
100 Arneodo 92 a-dep,p
120 Arneodo 96C angp,p
Arneodo 92 a-dep,p
200 Arneodo 96B a-dep,angp,p
Arneodo 96C angp,p
Amaudruz 95 a-dep,p
Paic 94 a-dep,angp
Arneodo 92 a-dep,p
280 Arneodo 96C angp,p
Mallot 94 a-dep,p
Arneodo 92 a-dep,p
470 Adams 95C a-dep,angp,p
Badelek 95 a-dep,angp,p
490 Conrad 95 a-dep,cs,p
Mallot 94 a-dep,p

$\mu^-\ \mu^+$ X
200 Arneodo 94 mass
280 Arneodo 94 mass

$\rho^0\ \mu^+$ X
490 Salgado 96 a-dep,angp

$\rho(1450)^0\ \mu^+$ X
490 Salgado 96 a-dep,angp

$\rho_3(1690)^0\ \mu^+$ X
490 Salgado 96 a-dep,angp

$\phi(1020)\ \mu^+$ X + $\rho^0\ \mu^+$ X
470 Fang 94 a-dep,cs,p

$J/\psi(1S)\ \mu^+$ X
200 Arneodo 95D a-dep,p
Arneodo 94 p,pt
Arneodo 92 p,pt

μ^+ C

$J/\psi(1S)\ \mu^+$ X
280 Arneodo 94 p,pt
Arneodo 92 p,pt

$n\ \mu^+$ X
470 Adams 95D mult,p

μ^+ hadron$^+$ hadron$^-$ X
490 Salgado 96 mass
Adams 95G mass

$\rho^0\ \mu^+$ fragt (fragts)
490 Adams 95G a-dep,angp

C μ^+ hadron$^+$ hadron$^-$ (neutrals)
490 Kotwal 94B mass

C $\rho^0\ \mu^+$
200 Arneodo 95D angp
Arneodo 94B a-dep,p,pt
465 Schellman 94 a-dep,angp
490 Salgado 96 a-dep,angp
Kotwal 94B a-dep,angp
500 Conrad 95 a-dep,angp,cs

C $\rho(1450)^0\ \mu^+$
490 Salgado 96 a-dep,angp

C $\rho_3(1690)^0\ \mu^+$
490 Salgado 96 a-dep,angp

C $\phi(1020)\ \mu^+$
200 Arneodo 95D angp
Arneodo 94B p,pt
465 Schellman 94 a-dep,angp

C μ^+ charged$^+$ charged$^-$
465 Schellman 94 mass

C μ^+ hadron$^+$ hadron$^-$
490 Salgado 96 mass

C $\pi^+\ \pi^-\ \mu^+$
200 Arneodo 94B a-dep,ang,mass,p,pt

C $K^+\ K^-\ \mu^+$
200 Arneodo 94B mass,p,pt

$\mu^+\ ^{12}$C

μ^+ X
90 Amaudruz 95 a-dep,p
200 Arneodo 95 a-dep,angp,p

μ^+ Nit

μ^+ X
280 Arneodo 92 a-dep,p

μ^+ Al

μ^+ X
90 Mallot 94 a-dep,p
200 Arneodo 96B a-dep,angp,p
280 Mallot 94 a-dep,p

μ^+ Ca

μ^+ X
90 Mallot 94 a-dep,p
200 Arneodo 96B a-dep,angp,p
Amaudruz 95 a-dep,p
Arneodo 92 a-dep,p
280 Mallot 94 a-dep,p
Arneodo 92 a-dep,p
470 Adams 95C a-dep,angp,p
Badelek 95 a-dep,angp,p
490 Conrad 95 a-dep,cs,p
Mallot 94 a-dep,p

μ^+ Ca

ρ^0 μ^+ X
490 Salgado 96 a-dep,angp

$\rho(1450)^0$ μ^+ X
490 Salgado 96 a-dep,angp

$\rho_3(1690)^0$ μ^+ X
490 Salgado 96 a-dep,angp

$\phi(1020)$ μ^+ X + ρ^0 μ^+ X
470 Fang 94 a-dep,cs,p

$J/\psi(1S)$ μ^+ X
200 Arneodo 95D a-dep,p
Arneodo 94 p,pt
280 Arneodo 94 p,pt

n μ^+ X
470 Adams 95D mult,p

μ^+ hadron$^+$ hadron$^-$ X
490 Salgado 96 mass
Adams 95G mass

ρ^0 μ^+ fragt (fragts)
490 Adams 95G a-dep,angp

Ca μ^+ hadron$^+$ hadron$^-$ (neutrals)
490 Kotwal 94B mass

Ca ρ^0 μ^+
200 Arneodo 95D angp
Arneodo 94B a-dep,p,pt
465 Schellman 94 a-dep,angp
490 Salgado 96 a-dep,angp
Adams 95G a-dep,angp
Kotwal 94B a-dep,angp
500 Conrad 95 a-dep,angp,cs

Ca $\rho(1450)^0$ μ^+
490 Salgado 96 a-dep,angp

Ca $\rho_3(1690)^0$ μ^+
490 Salgado 96 a-dep,angp

Ca $\phi(1020)$ μ^+
200 Arneodo 95D angp
Arneodo 94B p,pt
465 Schellman 94 a-dep,angp

Ca μ^+ charged$^+$ charged$^-$
465 Schellman 94 mass

Ca μ^+ hadron$^+$ hadron$^-$
490 Salgado 96 mass

Ca π^+ π^- μ^+
200 Arneodo 94B a-dep,ang,mass,p,pt

Ca K^+ K^- μ^+
200 Arneodo 94B mass,p,pt

μ^+ ^{40}Ca

μ^+ X
90 Amaudruz 95 a-dep,p

μ^+ Fe

μ^+ X
90 Mallot 94 a-dep,p
120 Arneodo 92 p
200 Arneodo 96B a-dep,angp,p
Arneodo 92 p
250 Arneodo 92 p
280 Mallot 94 a-dep,p
Arneodo 92 p

μ^+ Cu

μ^+ X
100 Arneodo 92 a-dep,p
120 Arneodo 92 a-dep,p
200 Arneodo 92 a-dep,p
280 Arneodo 92 a-dep,p

μ^+ Sn

μ^+ X
90 Mallot 94 a-dep,p
100 Arneodo 92 a-dep,p
120 Arneodo 96C angp,p
Arneodo 92 a-dep,p
200 Arneodo 96B a-dep,angp,p
Arneodo 96C angp,p
Arneodo 92 a-dep,p
280 Arneodo 96C angp,p
Mallot 94 a-dep,p
Arneodo 92 a-dep,p

μ^- μ^+ X
200 Arneodo 94 mass
280 Arneodo 94 mass

$J/\psi(1S)$ μ^+ X
200 Arneodo 92 p,pt
280 Arneodo 92 p,pt

μ^+ Xe

μ^+ X
490 Conrad 95 a-dep,cs,p
Arneodo 92 p

mult[charged] X
490 Adams 93D mult,p

mult[charged$^+$] X
490 Adams 93D mult,p

mult[charged$^-$] X
490 Adams 93D mult,p

charged X
490 Adams 93D mult,p,pt

charged$^+$ X
490 Adams 93D mult,p,pt

charged$^-$ X
490 Adams 93D mult,p,pt

μ^+ charged X
490 Adams 94F mult,p

μ^+ charged$^+$ X
490 Adams 94F mult,p

μ^+ charged$^-$ X
490 Adams 94F mult,p

μ^+ mult[grey] X
490 Adams 94F mult

μ^+ charged-hadron X
490 Adams 94H cor,p

μ^+ grey X
490 Adams 94F mult

2charged X
490 Adams 93D cor,p

μ^+ mult[grey] charged X
490 Adams 94F mult,p

μ^+ mult[grey] charged$^+$ X
490 Adams 94F mult,p

μ^+ mult[grey] charged$^-$ X
490 Adams 94F mult,p

μ^+ 2charged-hadron X
490 Adams 94H cor,p

μ^+ 3charged-hadron X
490 Adams 94H cor,p

μ^+ Pb

μ^+ X
200 Arneodo 96B a-dep,angp,p
470 Adams 95C a-dep,angp,p
Badelek 95 a-dep,angp,p
490 Conrad 95 a-dep,cs,p
Mallot 94 a-dep,p

μ^+ Pb

ρ^0 μ^+ X
490 Salgado 96 a-dep,angp

$\rho(1450)^0$ μ^+ X
490 Salgado 96 a-dep,angp

$\rho_3(1690)^0$ μ^+ X
490 Salgado 96 a-dep,angp

$\phi(1020)$ μ^+ X + ρ^0 μ^+ X
470 Fang 94 a-dep,cs,p

n μ^+ X
470 Adams 95D mult,p

μ^+ hadron$^+$ hadron$^-$ X
490 Salgado 96 mass
Adams 95G mass

ρ^0 μ^+ fragt (fragts)
490 Adams 95G a-dep,angp

Pb μ^+ hadron$^+$ hadron$^-$ (neutrals)
490 Kotwal 94B mass

Pb ρ^0 μ^+
465 Schellman 94 a-dep,angp
490 Salgado 96 a-dep,angp
Kotwal 94B a-dep,angp
500 Conrad 95 a-dep,angp,cs

Pb $\rho(1450)^0$ μ^+
490 Salgado 96 a-dep,angp

Pb $\rho_3(1690)^0$ μ^+
490 Salgado 96 a-dep,angp

Pb $\phi(1020)$ μ^+
465 Schellman 94 a-dep,angp

Pb μ^+ charged$^+$ charged$^-$
465 Schellman 94 mass

Pb μ^+ hadron$^+$ hadron$^-$
490 Salgado 96 mass

neutralino neutralino

2γ
(7000) Strausz 97 –

neutralino nucleon

nucleon neutralino
? Bottino 97 const,cs,p

neutralino p

p neutralino
? Minowa 98 const,cs

neutralino nucleus

ν_μ X
? Ambrosio 98C –

nucleus neutralino
? Bottino 97 const,cs,p

neutralino ^{23}Na

^{23}Na neutralino
? Bottino 97 const,cs,p

neutralino ^{127}I

^{127}I neutralino
? Bottino 97 const,cs,p

neutralino ^{129}Xe

inelastic
0. Bottino 98 cs

higgsino higgsino

2γ
(7000) Strausz 97 –

cosmion nucleon

nucleon cosmion
? Bottino 97 const,cs,p

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cosmion nucleus

X
$9 \cdot 10^{-6} - 0.008$ Baudis 98 cs,flux,p
ν_μ X
? Ambrosio 98C –
nucleus cosmion
? Klimenko 98B cs,p
Bottino 97 const,cs,p

cosmion ^{23}Na

^{23}Na cosmion
? Bottino 97 const,cs,p
Sarsa 97 cs,p

cosmion Na

Na cosmion
? Smith 96 cs,p

cosmion Ge

Ge cosmion
? Klimenko 98B cs,p

cosmion ^{76}Ge

^{76}Ge cosmion
? Klimenko 98B cs,p

cosmion I

I cosmion
? Smith 96 cs,p

cosmion ^{127}I

^{127}I cosmion
? Bottino 97 const,cs,p
Sarsa 97 cs,p

cosmion ^{129}Xe

^{129}Xe cosmion
0. Bottino 98 cs
? Bernabei 98 cs,p

dark dark

2γ
(7000) Strausz 97 –

dark nucleon

nucleon dark
? Bottino 97 const,cs,p

dark nucleus

X
$9 \cdot 10^{-6} - 0.008$ Baudis 98 cs,flux,p
γ X
? Sarsa 96 cs,p
nucleus dark
? Bottino 97 const,cs,p
Beck 94 cs

dark ^{16}O

X
0. Snowdenifft 95 cs

dark ^{23}Na

^{23}Na dark
? Bottino 97 const,cs,p

dark Na

Na dark
? Smith 96 cs,p

dark ^{27}Al

X
0. Snowdenifft 95 cs

dark ^{28}Si

X
0. Snowdenifft 95 cs

dark ^{39}KK

X
0. Snowdenifft 95 cs

dark ^{130}Te

γ X
? Alessandrell 96 cs,p

dark I

I dark
? Smith 96 cs,p

dark ^{127}I

^{127}I dark
? Bottino 97 const,cs,p

dark ^{129}Xe

inelastic
0. Bottino 98 cs
Belli 96 cs
^{129}Xe dark
? Bernabei 98 cs,p

dark ^{206}Pb

γ X
? Alessandrell 96 cs,p

monopole nucleus

X
? Balkanov 98 cs,qnc

techniomega techniomega

2γ
(7000) Strausz 97 –

unspec nucleus

mult[charged] X
$> 10^{11}$ Carrel 94 cor
mult[γ] X
$10^5 - 10^6$ Wilk 95 mult,p
unspec X
> 1000 Asakimori 94 –
$> 10^{11}$ Carrel 94 cs
shower X
$10^5 - 10^6$ Wilk 95 mult,p
$10^5 - 10^7$ Gress 98 angp
$3 \cdot 10^9 - 3 \cdot 10^{11}$
Takeda 98 p
X centauro
$> 10^4$ Wilk 95 cs
charged (chargeds) X
$> 10^4$ Wilk 95 cs,mult,p,pt
$> 10^5$ Kopenkin 94B
ang,asym,cor,p,pt
$10^8 - 5 \cdot 10^{10}$ Glushkov 97 angp
mult[γ] mult[hadron] X
$10^5 - 6.2 \cdot 10^6$ Kopenkin 94 col,p,pt
$4 \cdot 10^5 - 3 \cdot 10^6$ Borisov 94 col,p,pt
mult[μ] mult[shower] X
$> 3 \cdot 10^9$ Yoshida 95 cs,p
$1.7 \cdot 10^{11} - 2.6 \cdot 10^{11}$
Hayashida 94 cs,p
hadron (hadrons) X
$> 10^5$ Kopenkin 94B
ang,asym,cor,p,pt
γ mult[γ] X
$10^5 - 10^7$ Gress 98 angp
3γ (γ's) X
$> 10^5$ Kopenkin 94B
ang,asym,cor,p,pt
4γ charged X
> 1000 Asakimori 94 ang,p

neutral Be

Ξ^- X
260 – 500 Woods 96 p,pol
Ω^- X
260 – 500 Woods 96 p,pol

hadron nucleus

shower X
$> 5 \cdot 10^5$ Borisov 97 cs,p,pt
mult[γ] mult[hadron] X
$10^5 - 6.2 \cdot 10^6$ Kopenkin 94 col,p,pt
$4 \cdot 10^5 - 3 \cdot 10^6$ Borisov 94 col,p,pt
$> 5 \cdot 10^5$ Hasegawa 96B
angp,mult,p

hadron Mg

mult[p] X
100 Whitmore 94 mult
p X
100 Whitmore 94 angp

hadron Fe

γ X
$> 10^4$ Alibekov 97 p
π^0 X
$> 10^4$ Alibekov 97 p

hadron Ag

mult[p] X
100 Whitmore 94 mult
p X
100 Whitmore 94 angp

hadron Au

mult[p] X
100 Whitmore 94 mult
p X
100 Whitmore 94 angp

hadron Pb

inelastic
> 6300 Arisawa 94 cs
chiron X
$> 10^5$ Wilk 95 cs,p,pt
Arisawa 94 cs

longlived nucleus

nucleus π^0
< 300 Altegoer 98 cs

$\pi^{\pm}$ p

mult[hadron] X
(20 – 25) Alton 96 col,p,pt
jet X
(20 – 25) Alton 96 et,p
2jet X
160 – 380 Naples 94 a-dep,ang,pt
(jets) 2jet X
200 – 300 Adams 94 p

$\pi^{\pm}$ deuteron

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{\pm}$ Be

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{\pm}$ C

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{\pm}$ Al

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{\pm}$ Ti

$p\ \pi^{\pm}$ X
1.4 Bayukov 94 angp,cor,p

deuteron $\pi^{\pm}$ X
1.4 Bayukov 94 angp,cor,p

$\pi^{\pm}$ Fe

$p\ \pi^{\pm}$ X
1.4 Bayukov 94 angp,cor,p

deuteron $\pi^{\pm}$ X
1.4 Bayukov 94 angp,cor,p

$\pi^{\pm}$ Cu

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{\pm}$ Pb

2jet X
160 – 380 Naples 94 a-dep,ang,pt

$\pi^{+}\ \pi^{+}$

$2\pi^{+}$
(0.2846 – 0.3317) Kermani 98B const,cs

$\pi^{+}\ \pi^{-}$

$\pi^{+}\ \pi^{-}$
(0.05659 – 0.2128) Kermani 98C cs
(0.3 – 1.9) Anisovich 95 angp,pwa

π^{+} nucleon

$D^{\pm}$ X
250 Wallace 94 cs

D^{+} X + D^{-} X
250 Karchin 95 cs,p,pt

D^{0} X + $\overline{D}^{0}$ X
250 Karchin 95 cs,p,pt

$D_s^{\pm}$ X
250 Wallace 94 cs

D_s^{+} X + D_s^{-} X
250 Karchin 95 cs,p,pt

$K^*(892)^0\ K^-$ X + $\overline{K}^*(892)^0\ K^+$ X
250 Karchin 95 mass
Wallace 94 mass

$\phi(1020)\ \pi^+$ X + $\phi(1020)\ \pi^-$ X
250 Karchin 95 mass
Wallace 94 mass

$K^+\ 2\pi^-$ X + $K^-\ 2\pi^+$ X
250 Karchin 95 mass
Wallace 94 mass

$\pi^{+}\ p$

X
0.09595 – 0.3998 Kriss 99 cs
(50) Breitweg 97M cs

mult[charged] X
147 Arena 95 mult
250 Agababyan 98 col,cor,mult,p,pt

charged X
250 Agababyan 94 p,pt
Agababyan 94D cs,mult,pt

charged$^+$ X
250 Agababyan 96B p,pt

charged$^-$ X
250 Agababyan 96B p,pt

γ X
280 Vogelsang 97 p,pt
300 Vogelsang 97 pt

π^+ X
0.1001 Joram 95 angp

$\pi^{+}\ p$

π^+ X
0.101 Joram 95B mass
0.1202 Joram 95 angp
0.1209 Joram 95B mass
0.1544 Joram 95B mass

π^- X
250 Agababyan 97 p,pt

$K^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\overline{K}^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\phi(1020)$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

Λ X
3.6 – 4.2 Bulekov 94 p,pol,pt
6.2 Bulekov 94 p,pol,pt

mult[charged$^+$] mult[charged$^-$] X
250 Agababyan 96B col,cor,p,pt

charged (chargeds) X
250 Agababyan 94 cor,p,pt
Agababyan 94D ang,col,p,pt

2charged X
250 Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor

2charged$^+$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

charged$^+$ charged$^-$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

2charged$^-$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

$2\pi^+$ X
250 Ferenc 96 cor

$2\pi^-$ X
250 Agababyan 97 ang,cor,p,pt
Agababyan 96C angp,cor,p,pt
Agababyan 95B ang,cor,p,pt
Agababyan 95C ang,cor,p,pt

2charged (chargeds) X
250 Agababyan 96 col,cor,p,pt

3charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

3charged$^+$ X
250 Agababyan 94B ang,col

$\pi^{+}\ p$

3charged$^+$ X
Ajinenko 94 cor,mass

3charged$^+$ X + 3charged$^-$ X
250 Agababyan 94C col,cor

2charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

3charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

$\Lambda\ K\ \pi$ X
3.6 – 4.2 Drutskoi 93 mass,pol

$\Sigma^+\ K\ \pi$ X
3.6 – 4.2 Drutskoi 93 mass,pol

4charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

4charged$^+$ X + 4charged$^-$ X
250 Agababyan 94C col,cor

4charged$^+$ X
250 Agababyan 94B ang,col

3charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col

2charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col

charged$^+$ 3charged$^-$ X
250 Agababyan 94B ang,col

4charged$^-$ X
250 Agababyan 94B ang,col

5charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

5charged$^+$ X
250 Agababyan 94B ang,col

4charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col

3charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col

2charged$^+$ 3charged$^-$ X
250 Agababyan 94B ang,col

charged$^+$ 4charged$^-$ X
250 Agababyan 94B ang,col

5charged$^-$ X
250 Agababyan 94B ang,col

DD $< p >\ \pi^+$
147 Fuess 94C angp,cs

DD $< \pi^+ >\ p$
147 Fuess 94C angp,cs

$p\ \pi^+$
0.0963 – 2.161 Arndt 95 angp,cs,pwa
0.101 Joram 95B angp,pwa
0.1209 Joram 95B angp,pwa
0.154 Wieser 96 angp,pol
0.1544 Joram 95B angp,pwa
0.1785 – 0.2411 Brack 95 angp
0.2153 – 0.3819 Smith 98B angp,asym,p
0.2718 – 0.7253 Abaev 95B pwa
1.43 Abaev 95 angp,asym,pol
Alekseev 95 angp,asym,pol
5.9 White 94B angp
147 Fuess 94C angp

$p\ \rho^+$
5.9 White 94B angp

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$\pi^+ p$

$N(1710 P_{11})^+ \pi^+$
4.23 Bulekov 98 cs,mass
$N(1710 P_{11})^+ \rho^+$
4.23 Bulekov 98 cs,mass
$\Delta(1232 P_{33})^+ \pi^+$
5.9 White 94B angp
$\Delta(1232 P_{33})^{++} \rho^0$
3.94 Landsberg 94C cs
$\Delta(1232 P_{33})^{++} f_2(1270)$
3.94 Landsberg 94C cs
$\Sigma^+ K^+$
(1.6 – 2.5) Wang 97E angp,asym
$\Sigma(1385 P_{13})^+ K^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1385 P_{13})^+ K^*(892)^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1670 D_{13})^+ K^+$
4.23 Bulekov 98 cs,mass
$N^*_{5/2}(1480)^{+++} \pi^-$
3.94 Landsberg 94C cs
$p\, \pi^+ \pi^0$
0.2986 Pocanic 94 cs,mass
0.3096 Pocanic 94 cs,mass
0.3314 Pocanic 94 cs,mass
0.353 Pocanic 94 cs,mass
0.3744 Pocanic 94 cs,mass
$n\, 2\pi^+$
0.2919 Lange 98 cs,p
0.3096 Lange 98 cs,p
0.3346 Kermani 98 angp,cs,mass,p
0.3346 – 0.3999 Kermani 98B angp,cs,mass
0.3562 Kermani 98 angp,cs,mass,p
0.3787 Kermani 98 angp,cs,mass,p
0.3999 Kermani 98 angp,cs,mass,p
0.4221 Kermani 98 angp,cs,mass,p
$p\, \omega\, \pi^+$
3.54 Sapozhnikov 95 cs
20 Ferrer 96 cs,mass,p
$p\, \phi(1020)\, \pi^+$
3.54 Sapozhnikov 95 cs
20 Ferrer 96 cs,mass,p
$p\, \pi^+$ baryonium
20 Ferrer 98 cs
Perepelitsa 96 cs
$N(1710 P_{11})^+ \pi^+ \pi^0$
4.23 Bulekov 98 cs,mass
$N(1710 P_{11})^0\, 2\pi^+$
4.23 Bulekov 98 cs,mass
$\Lambda K^+ \pi^+$
4.137 Bulekov 97B cs,p,pt
4.23 Bulekov 98 cs,mass
$\Lambda K^+ \rho^+$
4.23 Bulekov 98 cs,mass
$\Lambda K^*(892)^+ \pi^+$
4.23 Bulekov 98 cs,mass
$\Lambda K_2^*(1430)^+ \pi^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1385 P_{13})^+ K^+ \pi^0 +$
$\Sigma(1385 P_{13})^0 K^+ \pi^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1385 P_{13})^+ K^0 \pi^+$
4.23 Bulekov 98 cs,mass

$\pi^+ p$

$\Sigma(1560 B)^+ K^+ \pi^0 +$
$\Sigma(1560 B)^0 K^+ \pi^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1670 D_{13})^+ K^+ \pi^0 +$
$\Sigma(1670 D_{13})^0 K^+ \pi^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1670 D_{13})^+ K^0 \pi^+$
4.23 Bulekov 98 cs,mass
$\Sigma(1840 P_{13})^+ K^0 \pi^+$
4.23 Bulekov 98 cs,mass
$N^*_{5/2}(1480)^{+++} \pi^0 \pi^-$
3.94 Landsberg 94C cs
$p\, 2\pi^+ \pi^-$
3.94 Landsberg 94C mass
4.2 Mikhajlichen 97 angp,mass
4.23 Mikhailichen 98 col,p
$p\, \pi^+ \pi^0$ baryonium
20 Ferrer 98 cs
Perepelitsa 96 cs
$2p\, \bar{p}\, \pi^+$
20 Ferrer 98 cs,mass
Perepelitsa 96 mass,p
$\Delta(1700 D_{33})^- 3\pi^+$
4.2 Brovkin 94 cs,mass
$\Lambda K^+ \pi^+ \pi^0$
4.137 Bulekov 97B cs,p,pt
4.23 Bulekov 98 cs,mass
$\Lambda K^0\, 2\pi^+$
4.137 Bulekov 97B cs,p,pt
4.23 Bulekov 98 cs,mass
$p\, 2\pi^+ \pi^0 \pi^-$
3.94 Landsberg 94C mass
4.23 Mikhailichen 98 col,p
$n\, 3\pi^+ \pi^-$
4.23 Mikhailichen 98 col,p
$p\, 2\pi^+ \pi^-$ baryonium
20 Ferrer 98 cs
$2p\, \bar{p}\, \pi^+ \pi^0$
20 Ferrer 98 cs,mass
Perepelitsa 96 mass,p
$2p\, \bar{p}\, \pi^+$ baryonium
20 Ferrer 98 cs
$\Lambda K^+ 2\pi^+ \pi^-$
4.137 Bulekov 97B cs,p,pt
$\Lambda K^0\, 2\pi^+ \pi^0$
4.137 Bulekov 97B cs,p,pt
$N^*_{5/2}(\mathrm{unspec})^{--} 4\pi^+$
4.2 Brovkin 94 cs,mass
$p\, 3\pi^+ 2\pi^-$
4.23 Mikhailichen 98 col,p
$2p\, \bar{p}\, 2\pi^+ \pi^-$
20 Ferrer 98 cs,mass
$p\, 3\pi^+ \pi^0\, 2\pi^-$
4.23 Mikhailichen 98 col,p
$n\, 4\pi^+ 2\pi^-$
4.2 Brovkin 94 cs,mass
4.23 Mikhailichen 98 col,p

$\pi^+ n$

p meson^0
5.98 Svec 96 cs
11.85 Svec 96 cs
$p\, \omega$
1.54 – 2.6 Sapozhnikov 95 cs
$p\, \phi(1020)$
1.54 – 2.6 Sapozhnikov 95 cs
$p\, \pi^+ \pi^-$
5.98 Svec 96 dme,mass,pwa

$\pi^+ n$

$p\, \pi^+ \pi^-$
11.85 Svec 96 dme,mass,pwa

π^+ deuteron

X
0.1161 – 0.1496 Saunders 96 a-dep,cs
inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs
π^0 X
0.1563 Lehmann 98 angp,cs,p
0.2165 Lehmann 98 angp,cs,p
0.2673 Lehmann 98 angp,cs,p
0.3519 Lehmann 98 angp,cs,p
0.4484 Lehmann 98 angp,cs,p
0.6242 Peterson 95 angp
$2p$
0.07313 – 0.1192 Pasyuk 96 angp,cs
0.0872 Yeomans 94 ang,angp,p,pol
0.1496 Yeomans 94 ang,angp,p,pol
0.1947 Lolos 96 ang,angp,cs,p
0.1947 – 0.3637 Feltham 97 angp,pol
0.2165 Alteholz 94 cs,p
0.2673 Alteholz 94 cs,p
0.2707 Lolos 96 ang,angp,cs,p
0.321 Prokofiev 95 angp,asym,pol
0.3519 Alteholz 94 cs,p
0.3749 Prokofiev 95 angp,asym,pol
0.4278 Prokofiev 95 angp,asym,pol
< 0.6242 Arndt 93 angp,cor,cs,pwa
deuteron π^+
0.1268 Kohler 94 angp,asym,pol
0.1947 – 0.4105 Wessler 95 angp,p,pol
0.2353 Suft 98 angp,pol
0.2875 Suft 98 angp,pol
0.5388 Gridnev 95 angp
$2p\, \pi^0$
0.3519 Backenstoss 98 ang,angp,mass,p
$p\, n\, \pi^+$
0.2353 Yeomans 95 angp,asym,p
0.34 Yeomans 95 angp,asym,p
$2p\, \pi^+ \pi^-$
0.3957 Camerini 93 cor,mass
0.3989 Bonutti 98 angp,cs,mass,p
Bonutti 97 mass,p
$2n\, 2\pi^+$
0.3989 Bonutti 98 angp,cs,mass,p

$\pi^+ {}^3\mathrm{H}$

${}^3\mathrm{H}\, \pi^+$
0.2445 Matthews 95 angp
Matthews 94 angp,cs
0.2875 Dhuga 96 angp
Matthews 95 angp
Matthews 94 angp,cs
0.3314 Dhuga 96 angp
Matthews 95 angp
Matthews 94 angp,cs
0.3701 Dhuga 96 angp
Matthews 95 angp
Matthews 94 angp,cs
0.4115 Dhuga 96 angp
${}^3\mathrm{He}\, \pi^0$
0.2445 Dowell 95B angp

π^+ ^{3}He

inelastic

0.1563	Lehmann 97	cs
0.2165	Lehmann 97	cs
0.2189	Angelescu 96	ang,cs,p
0.2673	Lehmann 97	cs
0.3519	Lehmann 97	cs
0.4484	Lehmann 97	cs

π^0 X

0.1563	Lehmann 98	angp,cs,p
0.2165	Lehmann 98	angp,cs,p
0.2673	Lehmann 98	angp,cs,p
0.3519	Lehmann 98	angp,cs,p
0.3584	Dowell 95	angp,p
	Dowell 94	angp,p
0.4484	Lehmann 98	angp,cs,p

p π^0 X

0.3584	Dowell 95	angp,p
	Dowell 94	angp,p

3p X

0.3519	Androic 96	angp,p

^{3}He π^+

0.2189	Angelescu 96	ang,cs,p
0.2445	Espy 97	asym,p
	Espy 96	asym,p
	Matthews 95	angp
	Matthews 94	angp,cs
0.2875	Espy 97	asym,p
	Dhuga 96	angp
	Espy 96	asym,p
	Matthews 95	angp
	Matthews 94	angp,cs
0.3314	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.3701	Espy 97	asym,p
	Dhuga 96	angp
	Espy 96	asym,p
	Matthews 95	angp
	Matthews 94	angp,cs
0.4115	Dhuga 96	angp

3p

0.1081	Hahn 94	angp,cs
0.1563	Lehmann 97	angp,cs,p
0.2165	Lehmann 97	angp,cs,p
	Backenstoss 96	amp,angp,cor,cs,p
	Alteholz 94	cs,p
0.2189	Angelescu 96	ang,cs,p
0.2673	Lehmann 97	angp,cs,p
	Backenstoss 96	amp,angp,cor,cs,p
	Alteholz 94	cs,p
0.3519	Lehmann 97	angp,cs,p
	Backenstoss 96	amp,angp,cor,cs,p
	Alteholz 94	cs,p
0.4484	Lehmann 97	angp,cs,p

deuteron p π^+

0.2189	Angelescu 96	ang,cs,p

4charged

0.2189	Angelescu 96	ang,cs,p

π^+ ^{4}He

inelastic

0.1563	Backenstoss 98B	cs
0.2165	Backenstoss 98B	cs
0.2673	Backenstoss 98B	cs
0.3519	Backenstoss 98B	cs

π^+ X

0.1563	Grater 98	angp,cs,p
0.1695	Grater 98	angp,cs,p
0.1823	Grater 98	angp,cs,p
0.1947	Grater 98	angp,cs,p
0.2129	Grater 98	angp,cs,p
0.2306	Grater 98	angp,cs,p

π^0 X

0.1563	Lehmann 98	angp,cs,p
0.2165	Lehmann 98	angp,cs,p
0.2673	Lehmann 98	angp,cs,p
0.3519	Lehmann 98	angp,cs,p
0.4484	Lehmann 98	angp,cs,p

π^- X

0.1563	Grater 98	angp,cs,p
0.1563 – 0.2306	Grafter 98	cs
0.1695	Grater 98	angp,cs,p
0.1823	Grater 98	angp,cs,p
0.1947	Grater 98	angp,cs,p
0.2129	Grater 98	angp,cs,p
0.2306	Grater 98	angp,cs,p

π^+ π^- X

0.3957	Camerini 93	cor,mass

2p X

1	Nagae 94	mass

2p X 0π^+

1	Nagae 94	angp

p n X

1	Nagae 94	mass

p n X 0π^+

1	Nagae 94	angp

3p X

0.3519	Androic 96	angp,p

^{4}He π^+

0.1563	Grater 98	angp,cs,p
0.1695	Grater 98	angp,cs,p
0.1823	Grater 98	angp,cs,p
0.1947	Grater 98	angp,cs,p
0.2129	Grater 98	angp,cs,p
0.2306	Grater 98	angp,cs,p

deuteron 2p

0.1482	Breuer 94	angp,cs
0.1563	Backenstoss 98B	angp,cs,mass,p
0.1785	Breuer 94	angp,cs
0.2117	Breuer 94	angp,cs
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
	Breuer 94	angp,cs
0.3281	Breuer 94	angp,cs
0.3519	Backenstoss 98B	angp,cs,mass,p
0.3936	Breuer 94	angp,cs
0.4452	Breuer 94	angp,cs

deuteron p(spect) p

0.1563	Backenstoss 98B	angp,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
0.3519	Backenstoss 98B	angp,cs,mass,p

3p n

0.1563	Backenstoss 98B	angp,cs,mass,p
	Lehmann 97	angp,cs,p
	Lehmann 97B	amp,ang,angp,cor,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
	Lehmann 97	angp,cs,p
	Lehmann 97B	amp,ang,angp,cor,cs,mass,p
0.2189	Rzehorz 96	cs,p
0.2673	Backenstoss 98B	angp,cs,mass,p
	Lehmann 97	angp,cs,p
	Lehmann 97B	amp,ang,angp,cor,cs,mass,p
0.3205	Rzehorz 96	cs,p
0.3519	Backenstoss 98B	angp,cs,mass,p
	Lehmann 97	angp,cs,p
	Lehmann 97B	amp,ang,angp,cor,cs,mass,p
0.4484	Lehmann 97	angp,cs,p
	Lehmann 97B	amp,ang,angp,cor,cs,mass,p

p(spect) 2p n

0.1563	Backenstoss 98B	angp,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
0.3519	Backenstoss 98B	angp,cs,mass,p

2p(spect) p n

0.1563	Backenstoss 98B	angp,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
0.3519	Backenstoss 98B	angp,cs,mass,p

n(spect) 3p

0.1563	Backenstoss 98B	angp,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
0.3519	Backenstoss 98B	angp,cs,mass,p

p(spect) n(spect) 2p

0.1563	Backenstoss 98B	angp,cs,mass,p
0.2165	Backenstoss 98B	angp,cs,mass,p
0.2673	Backenstoss 98B	angp,cs,mass,p
0.3519	Backenstoss 98B	angp,cs,mass,p

4p π^-

0.353	Pate 94	angp,p

π^+ Li

meson X

300	Antoniazzi 94B	cs

$h_c(1P)$ X

300	Antoniazzi 94B	cs

$J/\psi(1S)$ γ X

300	Garbincius 94	mass

$J/\psi(1S)$ π^+ X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ π^0 X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ π^- X

300	Antoniazzi 94B	mass

$\psi(2S)$ π^+ X

300	Antoniazzi 94B	mass

$\psi(2S)$ π^- X

300	Antoniazzi 94B	mass

μ^- μ^+ γ X

300	Garbincius 94	mass

$J/\psi(1S)$ 2π^+ X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ π^+ π^0 X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ π^+ π^- X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ π^0 π^- X

300	Antoniazzi 94B	mass

$J/\psi(1S)$ 2π^- X

300	Antoniazzi 94B	mass

π^+ ^{6}Li

X

0.1161 – 0.1496	Saunders 96	a-dep,cs

inelastic

0.1161 – 0.1496	Saunders 96	a-dep,cs

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π^+ ^{6}Li

Λ X
1.07 Kishimoto 94 angp,pol

$K^+ \pi^-$ X
1.07 Kishimoto 94 angp,p

$2p$ X
0.1947 Lolos 96 ang,angp,cs,p
0.2707 Lolos 96 ang,angp,cs,p

^{4}He $2p$
0.1947 Lolos 96 ang,angp,cs,p
Papandreou 95B angp,cs
0.2707 Lolos 96 ang,angp,cs,p
Papandreou 95B angp,cs

^{4}He* $2p$
0.1947 Lolos 96 ang,angp,cs,p
0.2707 Lolos 96 ang,angp,cs,p

^{5}He$_s$ p K^+
1.05 Ajimura 98 ang,angp

π^+ ^{7}Li

$J/\psi(1S)$ X
300 Sansoni 95 cs

$\chi_{c1}(1P)$ X
300 Sansoni 95 cs
Antoniazzi 94 cs,p

$\chi_{c2}(1P)$ X
300 Sansoni 95 cs
Antoniazzi 94 cs,p

$\psi(2S)$ X
300 Sansoni 95 cs

$\mu^- \mu^+$ X
300 Sansoni 95 mass

$J/\psi(1S)$ γ X
300 Sansoni 95 mass
Antoniazzi 94 mass

$\mu^- \mu^+ \gamma$ X
300 Sansoni 95 mass
Antoniazzi 94 mass

^{7}Li* π^+ + ^{7}Li π^+
0.2353 Meier 94 angp,p,pol
0.2696 Meier 94 angp,p,pol
0.303 Meier 94 angp,p,pol

π^+ Be

$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt

D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt

$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
250 Alves 96 p,pt

π^+ Be

D_s^+ X
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

$K^+ 2\pi^-$ X
250 Appel 94 mass

$K^- 2\pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^-$ X
250 Appel 94 mass

π^+ ^{10}Bor

^{10}Bor$_s$ K^+
1.06 Hasegawa 96 angp,cs,mass
Nagae 95 angp

π^+ ^{11}Bor

^{11}Bor$_s$ K^+
1.05 Noumi 95 cs

π^+ C

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

γ X
200 Vogelsang 97 pt

2γ X
200 Vogelsang 97 cs,pt

π^+ ^{12}C

K^+ X
1.05 Bhang 98B p
Sato 98 p
Ajimura 94 angp,mass,p

Λ X
1.07 Kishimoto 94 angp,pol

hypernucleus X
1.05 Sato 98 p

$K^+ \pi^-$ X
1.07 Kishimoto 94 angp,p

$2p$ X
0.1947 Huber 97 angp,cs,p
0.2707 Huber 97 angp,cs,p
0.3096 Tacik 98 cs,p
0.353 Tacik 98 cs,p
0.3957 Tacik 98 cs,p

$p \pi^+ \pi^-$ X
0.3989 Bonutti 97 mass,p

$3p$ X
0.3096 Tacik 98 cs,p
0.353 Tacik 98 cs,p
0.3957 Tacik 98 cs,p

^{12}C π^+
0.5212 Kahrimanis 97 angp,mass
0.6242 Kahrimanis 97 angp,mass

^{12}C$_s$ K^+
1.05 Bhang 98 p
Kishimoto 95 cs,p,pol

π^+ ^{12}C

^{12}C$_s$ K^+
Noumi 95 cs
Ajimura 94 cs
1.06 Hasegawa 96 angp,cs,mass
Hasegawa 95 cs,p
Nagae 95 angp

^{12}Nit π^0
0.08801 Hanna 94 angp,p

π^+ ^{13}C

^{13}Nit π^0
0.08801 Hanna 94 angp,p

π^+ Nit

$3p$ X
0.3519 Kotlinski 98 angp,cs,mass,p
Androic 96 angp,p

π^+ ^{16}O

$\pi^+ \pi^-$ X
0.3957 Camerini 93 cor,mass

^{16}Ne π^-
0.1496 Bilger 98B angp

π^+ ^{20}Ne

^{20}Ne* π^+
0.2189 Burlein 95 angp,cs,p
0.2875 Burlein 95 angp,cs,p

π^+ Mg

π^+ X
100 Whitmore 94 mult,p,pt

π^- X
100 Whitmore 94 mult,p,pt

p X
100 Whitmore 94 mult,p

π^+ Al

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

mult[charged] X
250 Dewolf 96B mult,p

π^+ X
250 Dewolf 96 p

DD < X > π^+
250 Dewolf 96 angp,cs

$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt

D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt

π^+ Al

$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

p X
250 Agababyan 95 angp,mult,p,pt

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

π^+ mult[charged] X
250 Dewolf 96 mult,p

DD < mult[charged$^+$] X > π^+
250 Dewolf 96 mult

DD < mult[charged$^-$] X > π^+
250 Dewolf 96 mult

DD < charged X > π^+
250 Dewolf 96 angp,pt

DD < charged$^-$ X > π^+
250 Dewolf 96 angp

DD < mult[p] X > π^+
250 Dewolf 96 mult

$2\pi^-$ X
250 Agababyan 95B ang,cor,p,pt

DD < p X > π^+
250 Dewolf 96 angp,pt

$2p$ X
250 Agababyan 95 angp,cs,p

p fragt X
250 Agababyan 95 angp,cs,p

Al mult[charged] X
250 Dewolf 96B cs

$K^+ 2\pi^-$ X
250 Appel 94 mass

$K^- 2\pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^-$ X
250 Appel 94 mass

Al 3charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Al 2charged$^+$ charged$^-$ X
250 Dewolf 96B p

Al $2\pi^+ \pi^-$ X
250 Dewolf 96B cs

Al γ 3charged X
250 Dewolf 96B p

Al 5charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Al 3charged$^+$ 2charged$^-$ X
250 Dewolf 96B p

Al γ 5charged X
250 Dewolf 96B p

π^+ Al

Al 7charged X
250 Dewolf 96B cs

π^+ ^{27}Al

^{27}Fl π^-
0.1947 Mckinzie 94 angp,p
0.2189 Mckinzie 94 angp,p
0.2422 Mckinzie 94 angp,p
0.2696 Mckinzie 94 angp,p
0.2875 Mckinzie 94 angp,p
0.3096 Mckinzie 94 angp,p
0.3422 Mckinzie 94 angp,p
0.3748 Mckinzie 94 angp,p
0.4099 Mckinzie 94 angp,p

π^+ Si

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

π^+ ^{28}Si

K^+ X
1.05 Bhang 98B p

^{28}Si π^+
0.3749 Rawoolsulliv 94 angp

^{28}Si$_s$ K^+
1.05 Bhang 98 p
1.06 Hasegawa 96 angp,cs,mass
Nagae 95 angp

π^+ S

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

π^+ Ar

$3p$ X
0.1563 Kotlinski 98 angp,cs,mass,p
0.2165 Kotlinski 98 angp,cs,mass,p
0.2673 Kotlinski 98 angp,cs,mass,p
0.3519 Kotlinski 98 angp,cs,mass,p
Androic 96 angp,p

π^+ Ca

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

π^+ ^{40}Ca

$p\ \pi^+ \pi^-$ X
0.3989 Bonutti 97 mass,p

^{40}Ca π^+
0.5212 Kahrimanis 97 angp,mass
0.6242 Kahrimanis 97 angp,mass

π^+ Ti

$2p\ \pi^+$ X
1.4 Bayukov 94 angp,cor,p

π^+ ^{56}Fe

K^+ X
1.05 Bhang 98B p

π^+ Fe

$2p\ \pi^+$ X
1.4 Bayukov 94 angp,cor,p

Fe$_s$ K^+
1.05 Bhang 98 p

π^+ ^{58}Ni

^{58}Ni π^+
0.2875 Laymon 96 a-dep,angp,dme

^{58}Ni* π^+
0.2875 Laymon 96 a-dep,angp,dme

^{58}Zn π^-
0.2189 – 0.4084 Fortune 94 angp,cs

π^+ Ni

Zn* π^-
0.2422 Fortune 97 angp,cs
0.2875 Fortune 97 angp,cs
0.3422 Fortune 97 angp,cs

π^+ ^{60}Ni

^{60}Ni π^+
0.2875 Laymon 96 a-dep,angp,dme

^{60}Ni* π^+
0.2875 Laymon 96 a-dep,angp,dme

π^+ ^{62}Ni

^{62}Ni π^+
0.2875 Laymon 96 a-dep,angp,dme

^{62}Ni* π^+
0.2875 Laymon 96 a-dep,angp,dme

π^+ ^{64}Ni

^{64}Ni π^+
0.2875 Laymon 96 a-dep,angp,dme

^{64}Ni* π^+
0.2875 Laymon 96 a-dep,angp,dme

π^+ Cu

$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt

D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt

$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
250 Alves 96 p,pt

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π^+ Cu

D_s^+ X

	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

D_s^- X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

Λ_c^+ X

250	Alves 96B	a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X

250	Alves 96B	a-dep,cs,p,pt

K^+ $2\pi^-$ X

250	Appel 94	mass

K^- $2\pi^+$ X

250	Appel 94	mass

K^+ K^- π^+ X

250	Appel 94	mass

K^+ K^- π^- X

250	Appel 94	mass

π^+ ^{76}Se

^{76}Kr π^-

0.4096	Hui 95	a-dep,cs,p

π^+ Se

Kr π^-

0.233	Hui 94	angp,cs,p
0.2718	Hui 94	angp,cs,p
0.303	Hui 94	angp,cs,p

π^+ ^{78}Se

^{78}Kr π^-

0.4096	Hui 95	a-dep,cs,p

π^+ ^{80}Se

^{80}Kr π^-

0.4096	Hui 95	a-dep,cs,p

π^+ ^{82}Se

^{82}Kr π^-

0.4096	Hui 95	a-dep,cs,p

π^+ ^{89}Yt

^{89}Yt$_s$ K^+

1.06	Hasegawa 96	angp,cs,mass
	Nagae 95	angp

π^+ ^{90}Zr

^{90}Zr π^+

0.5212	Kahrimanis 97	angp,mass
0.6242	Kahrimanis 97	angp,mass

π^+ ^{93}Nb

^{93}Tc* π^-

0.2696	Kagarlis 94	angp,p
0.3422	Kagarlis 94	angp,p
0.4102	Kagarlis 94	angp,p

π^+ Ag

π^+ X

100	Whitmore 94	mult,p,pt

π^- X

100	Whitmore 94	mult,p,pt

p X

100	Whitmore 94	mult,p

π^+ Xe

nucleus (p's) π^+

2.34	Strugalskago 94	cs,mult
3.5	Strugalskago 94	cs,mult

π^+ Xe

nucleus (p's) π^+

5	Strugalskago 94	cs,mult
9	Strugalskago 94	cs,mult

nucleus p (p's)

2.34	Strugalskago 94	cs
3.5	Strugalskago 94	cs
5	Strugalskago 94	cs
9	Strugalskago 94	cs

$3p$ X

0.3519	Kotlinski 98	angp,cs,mass,p

π^+ ^{139}La

^{139}La$_s$ K^+

1.06	Hasegawa 96	angp,cs,mass
	Nagae 95	angp

π^+ Wt

$D^\pm$ X

250	Halling 96	p,pt
	Alves 93B	p,pt

D^+ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

D^0 X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt

$\overline{D}^0$ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt

D^- X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

$D^*(2010)^\pm$ X

250	Halling 96	p,pt
	Gardner 95	mass
	Alves 93	a-dep,p,pt
	Alves 93B	p,pt

$D^*(2010)^+$ X

250	Alves 96B	a-dep,cs,p,pt

$D^*(2010)^-$ X

250	Alves 96B	a-dep,cs,p,pt

D_s^+ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

D_s^- X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

Λ_c^+ X

250	Alves 96B	a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X

250	Alves 96B	a-dep,cs,p,pt

K^+ $2\pi^-$ X

250	Appel 94	mass

K^- $2\pi^+$ X

250	Appel 94	mass

K^+ K^- π^+ X

250	Appel 94	mass

K^+ K^- π^- X

250	Appel 94	mass

π^+ Au

mult[charged] X

250	Dewolf 96B	mult,p

π^+ X

100	Whitmore 94	mult,p,pt
250	Dewolf 96	p

π^+ Au

DD < X > π^+

250	Dewolf 96	angp,cs

π^- X

100	Whitmore 94	mult,p,pt

p X

100	Whitmore 94	mult,p
250	Agababyan 95	angp,mult,p,pt

π^+ mult[charged] X

250	Dewolf 96	mult,p

DD < mult[charged] X > π^+

250	Dewolf 96	mass,mult

DD < mult[charged$^+$] X > π^+

250	Dewolf 96	mult

DD < mult[charged$^-$] X > π^+

250	Dewolf 96	mult

DD < charged X > π^+

250	Dewolf 96	angp,pt

DD < charged$^-$ X > π^+

250	Dewolf 96	angp

DD < mult[p] X > π^+

250	Dewolf 96	mult

$2\pi^-$ X

250	Agababyan 95B	ang,cor,p,pt

DD < p X > π^+

250	Dewolf 96	angp,pt

$2p$ X

250	Agababyan 95	angp,cs,p

p fragt X

250	Agababyan 95	angp,cs,p

Au mult[charged] X

250	Dewolf 96B	cs

Au 3charged X

250	Dewolf 96B	a-dep,cs,mult,p,pt

Au 2charged$^+$ charged$^-$ X

250	Dewolf 96B	p

Au $2\pi^+$ π^- X

250	Dewolf 96B	cs

Au γ 3charged X

250	Dewolf 96B	p

Au 5charged X

250	Dewolf 96B	a-dep,cs,mult,p,pt

Au 3charged$^+$ 2charged$^-$ X

250	Dewolf 96B	p

Au γ 5charged X

250	Dewolf 96B	p

Au 7charged X

250	Dewolf 96B	cs

π^+ Pb

mult[n] X

2	Pienkowski 97	mult
3	Pienkowski 97	mult
4	Pienkowski 97	mult
5	Pienkowski 97	mult

π^+ ^{208}Pb

π^+ π^- X

0.3957	Camerini 93	cor,mass

p π^+ π^- X

0.3989	Bonutti 97	mass,p

^{208}Pb π^+

0.5212	Kahrimanis 97	angp,mass
0.6242	Kahrimanis 97	angp,mass

$\pi^+ {}^{208}\mathrm{Pb}$

${}^{208}\mathrm{Pb}_s\ K^+$		
1.06	Hasegawa 96	angp,cs,mass
	Nagae 95	angp

$\pi^- e^-$

$\pi^- e^-$		
600	Eschrich 98	angp,p

$\pi^- \pi^+$

$\pi^+ \pi^-$		
(0.2846 – 0.3317)	Kermani 98B	const,cs

π^- nucleon

π^+ X		
40	Gulamov 96B	p
50	Tretyakova 95	mult,p
π^- X		
40	Gulamov 96B	p
50	Tretyakova 95	mult,p
ρ^0 X		
40	Gulamov 96B	mult
$f_2(1270)$ X		
40	Gulamov 96B	mult
$D^\pm$ X		
250	Wallace 94	cs
D^+ X		
350	Adamovich 98C	-
D^+ X + D^- X		
250	Karchin 95	cs,p,pt
D^0 X + $\overline{D}^0$ X		
250	Karchin 95	cs,p,pt
D^- X		
350	Adamovich 98C	-
$D^*(2010)^+$ X		
350	Adinolfi 99	cs,p,pt
$D^*(2010)^-$ X		
350	Adinolfi 99	cs,p,pt
$D_s^\pm$ X		
250	Wallace 94	cs
D_s^+ X + D_s^- X		
250	Karchin 95	cs,p,pt
2charged X		
200	Belaga 94B	cor,p
π^- mult[π^-] X		
40	Gulamov 96B	cor,mult,p,pt
$K^*(892)^0\ K^-$ X + $\overline{K}^*(892)^0\ K^+$ X		
250	Karchin 95	mass
	Wallace 94	mass
$\phi(1020)\ \pi^+$ X + $\phi(1020)\ \pi^-$ X		
250	Karchin 95	mass
	Wallace 94	mass
$D^+\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$D^+\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt
$D^0\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$D^0\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt
$\overline{D}^0\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$\overline{D}^0\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt

π^- nucleon

$D^-\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$D^-\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt
$D^+\ \overline{D}^0$ X		
500	Aitala 98E	cor,mass,p,pt
$D^0\ \overline{D}^0$ X		
500	Aitala 98E	cor,mass,p,pt
$D^+\ D^-$ X		
500	Aitala 98E	cor,mass,p,pt
$D^0\ D^-$ X		
500	Aitala 98E	cor,mass,p,pt
$D^*(2010)^+\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$D^*(2010)^+\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt
$D^*(2010)^-\ \pi^+$ X		
500	Aitala 96C	cor,mass,p,pt
$D^*(2010)^-\ \pi^-$ X		
500	Aitala 96C	cor,mass,p,pt
bottom $\overline{\text{bottom}}$ X		
600	Slaughter 96	ang,cs,p
$p\ \pi^-$ X		
40	Gulamov 96B	cor,mult,p
3charged X		
200	Belaga 94B	cor,p
(showers) 2shower X		
200	Belaga 95F	ang,col,cor
	Belaga 94C	ang,col,cor
$K^+\ 2\pi^-$ X + $K^-\ 2\pi^+$ X		
250	Karchin 95	mass
	Wallace 94	mass
4charged X		
200	Belaga 94B	cor,p
5charged X		
200	Belaga 94B	cor,p
7charged X		
200	Belaga 94B	cor,p
nucleon $a_2(1320)^-$		
37	Achasov 94	cs
	Zaitsev 94	cs
nucleon $\pi_2(1670)^-$		
37	Zaitsev 94	cs
nucleon $X(1750)^-$		
37	Zaitsev 94	cs
nucleon $\pi(1800)^-$		
36.6	Berdnikov 94	cs
	Berdnikov 94B	cs
nucleon $\eta\ \pi^-$		
37	Achasov 94	angp,pwa
	Zaitsev 94	angp,mass,pwa
nucleon $\eta'\ \pi^-$		
37	Achasov 94	angp,pwa
	Zaitsev 94	angp,mass,pwa
nucleon $f_0(980)\ \pi^-$		
36.6	Berdnikov 94	mass,pwa
	Berdnikov 94B	mass,pwa

π^- nucleon

nucleon $f_2(1270)\ \pi^-$		
36.6	Berdnikov 94B	mass,pwa
nucleon $f_1(1285)\ \pi^-$		
37	Amelin 94	cs
	Zaitsev 94	cs
nucleon $f_0(1370)\ \pi^-$		
36.6	Berdnikov 94	mass,pwa
nucleon $f_0(1500)\ \pi^-$		
300	Montanet 95	cs,p
nucleon $K^*(892)^0\ K^-$		
36.6	Berdnikov 94B	mass,pwa
nucleon $K_2^*(1430)^0\ K^-$		
36.6	Berdnikov 94B	mass,pwa
nucleon $\pi^+\ 2\pi^-$		
36.6	Berdnikov 94	mass,pwa
37	Zaitsev 94	angp,mass,pwa
nucleon $2\eta\ \pi^-$		
300	Montanet 95	ang,mass
nucleon $\rho^0\ \pi^-\ \gamma$		
37	Zaitsev 94	angp,mass,pwa
nucleon $K^+\ K^-\ \pi^-$		
36.6	Berdnikov 94	mass,pwa
	Berdnikov 94B	mass,pwa
37	Zaitsev 94	angp,mass,pwa
nucleon $\pi^+\ 2\pi^-\ \gamma$		
37	Amelin 94	mass,pwa
nucleon $\eta\ \pi^+\ 2\pi^-$		
37	Zaitsev 94	angp,mass,pwa
nucleon $K^+\ K^-\ \pi^-\ \gamma$		
37	Amelin 94	mass,pwa
nucleon $\pi^+\ 2\pi^-\ 2\gamma$		
37	Amelin 94	mass,pwa
nucleon $K^+\ K^-\ \pi^-\ 2\gamma$		
37	Amelin 94	mass,pwa

$\pi^- p$

X		
0.1695 – 0.3998	Kriss 99	cs
2 – 14	Landsberg 94C	cs
(50)	Breitweg 97M	cs
charged$^+$ X		
40	Akhobadze 97	a-dep,mult,pt
400	Bordner 96	p,pt
charged$^-$ X		
40	Akhobadze 98	a-dep,mult,p
	Akhobadze 97	a-dep,mult,pt
400	Bordner 96	p,pt
($\pi^\pm$'s) X		
40	Badalyan 96	col,p
jet X		
40	Badalyan 97	angp,mass,p
	Badalyan 96	p
γ X		
0.	Sigg 95	p
280	Vogelsang 97	p,pt
300	Vogelsang 97	pt
π^- X		
0.1001	Joram 95	angp
0.101	Joram 95B	mass

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\pi^- p$

π^- X
0.1202 Joram 95 angp
0.1209 Joram 95B mass
0.1544 Joram 95B mass

ω X
360 Sapozhnikov 95 cs

K^0 X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

$K^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\overline{K}^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$K^*(\text{unspec})^+$ X
16 Karnaukhov 95 cs

$K^*(\text{unspec})^0$ X
16 Karnaukhov 95 cs
Karnaukhov 95B cs

$\phi(1020)$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt
360 Sapozhnikov 95 cs

baryon X
16 Karnaukhov 93 cs

baryon (neutrals)
16 Karnaukhov 95C cs

Λ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

$\overline{\Lambda}$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

Σ^0 X
40 Akhobadze 97B a-dep,mult,pt

$\overline{\Sigma}^0$ X
40 Akhobadze 97B a-dep,mult,pt

2jet X
40 Badalyan 97 angp,mass,p
400 Bordner 96 pt

γ (γ's) X
280 Belogianni 96 p,pt

2γ X
280 Vogelsang 97 p,pt
300 Vogelsang 97 pt

meson^0 neutral (neutrals)
40 Barkov 98 cs

$2\pi^+$ X
38 Chklovskaia 95 cor,pt

$\pi^+ \pi^-$ X
38 Chklovskaia 95 cor,pt

$2\pi^-$ X
38 Chklovskaia 95 cor,pt

K^0 charged$^-$ X
40 Akhobadze 98 a-dep,mult,p

K_S charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

K_S charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

$\pi^- p$

$K^0 \overline{K}^0$ X
40 Akhobadze 98 a-dep,mult,p

$D^+ \overline{D}^0$ X
360 Slaughter 96 cor,mass,p,pt

$D^0 \overline{D}^0$ X
360 Slaughter 96 cor,mass,p,pt

$D^+ D^-$ X
360 Slaughter 96 cor,mass,p,pt

$D^0 D^-$ X
360 Slaughter 96 cor,mass,p,pt

p ($\pi^\pm$'s) X
40 Badalyan 97 col,mass,p

$n \gamma$ X
0.09 Dress 94 p

Λ charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

Λ charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

$\overline{\Lambda}$ charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

2charged (chargeds) X
40 Boos 95 col,cor,p
Angelov 94 col,cor

$K_S \pi^+ \pi^-$ X
16 Karnaukhov 98 ang,mass
Karnaukhov 95B mass

$K^0 \overline{K}^0$ charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

$K^0 \overline{K}^0$ charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

$2K_S$ neutral (neutrals)
40 Barkov 98 angp,mass

$2K_S \pi^-$ X
40 Grigoriev 96 mass,pwa

$K^*(\text{unspec})^0 \pi^-$ hadron$^+$ (neutrals)
16 Karnaukhov 98B cs
Karnaukhov 96C ang,mass,p

K_S 2charged$^+$ 2charged$^-$ X
16 Karnaukhov 95 mass

K_S 2hadron$^+$ 2hadron$^-$ (neutrals)
16 Karnaukhov 96C ang,mass,p

$K_S \pi^+ \pi^-$ hadron$^+$ hadron$^-$ (neutrals)
16 Karnaukhov 96C ang,mass,p

$K_S 2\pi^+ \pi^-$ charged$^-$ (neutrals)
16 Karnaukhov 98 angp,mass,p

$K_S \pi^+ 2\pi^-$ hadron$^+$ (neutrals)
16 Karnaukhov 98B mass

$p K^+ K_S 2\pi^-$ X
16 Karnaukhov 93 ang,mass

$p K^+ \overline{K}^0 2\pi^-$ (neutrals)
16 Landsberg 94C mass,p

$\pi^- p$

$p K^0 K^- \pi^+ \pi^-$ (neutrals)
16 Landsberg 94C mass,p

$p K^+ K_S 2\pi^-$ (neutrals)
16 Karnaukhov 95C ang,mass

Λ 2charged$^+$ 2charged$^-$ X
16 Karnaukhov 95 mass

Λ 2hadron$^+$ 2hadron$^-$ (neutrals)
16 Karnaukhov 96C ang,mass,p

5charged (chargeds) X
40 Zhumanov 94 angp,col,cor,p

$(\pi p)_{atom}$
0. Badertscher 96 –

$(\pi p)^*_{atom}$
0. Sigg 95 –

baryon meson^0
16 Landsberg 94C –

$n \gamma$
0.09 Dress 94 p
0.1947 – 0.3637 Stasko 94 angp,asym

p meson$^-$
18 Lee 94 cs

n meson^0
17.2 Svec 96 cs
38 Donskov 95 angp,cs
40 Grigoriev 96 angp,cs
100 Alde 98 cs
Stroot 95 cs

$p \pi^-$
0. Sigg 95 cs
0.0963 – 2.161 Arndt 95 angp,cs,pwa
0.101 Joram 95B angp,pwa
0.1186 Janousch 97 angp
0.1209 Joram 95B angp,pwa
0.1287 Janousch 97 angp
0.1389 Janousch 97 angp
0.1489 Janousch 97 angp
0.1544 Joram 95B angp,pwa
0.159 Janousch 97 angp
0.1785 – 0.2411 Brack 95 angp
0.1785 – 0.3541 Smith 98B angp,asym,p
0.2673 – 0.7253 Abaev 95B pwa
0.573 Lopatin 94 pol
0.655 Lopatin 94 pol
0.686 Lopatin 94 pol
0.726 Lopatin 94 pol
0.7365 Takahashi 95 angp,cs
0.838 Takahashi 95 angp,cs
0.919 Takahashi 95 angp,cs
1.025 Takahashi 95 angp,cs
5.75 – 13.02 Landsberg 94C angp
5.9 White 94B angp

$n \pi^0$
0. Badertscher 96 p
0.09 Dress 94 p
0.09183 Frlez 97 angp

$n f_0(400-1200)$
5.98 Svec 96 cs
11.85 Svec 96 cs
17.2 Svec 96 cs

$n f_0(700)$
1.78 Alekseev 97 –

$p \rho^-$
5.9 White 94B angp
18.3 Thompson 98 cs

$n \rho^0$
5.98 Svec 96 cs
11.85 Svec 96 cs
17.2 Svec 96 cs
Anisovich 95 angp,dme

$\pi^- p$

$n \rho^0$		
32.5	Victorov 95B	angp,cs
38	Alde 93	–
$n \omega$		
5 – 6	Sapozhnikov 95	cs
32.5	Sapozhnikov 95	cs
38	Prokoshkin 96B	–
	Alde 94	cs
	Donskov 94	–
	Sadovsky 94	–
	Alde 93	–
$n f_0(980)$		
38	Anisovich 95	angp,cs
	Alde 94B	angp,cs
100	Alde 98	cs
$n b_1(1235)^0$		
32.5	Golovkin 97	cs
	Victorov 95	cs
$p a_1(1260)^-$		
18.3	Thompson 98	cs
40	Bolonkin 95	–
$n f_2(1270)$		
17.2	Anisovich 95	angp,dme
38	Kondashov 95	angp,cs
	Kondashov 94	cs
	Sadovsky 94	cs
40	Grigoriev 96	angp,cs
	Baloshin 95	cs
100	Alde 98	cs
	Stroot 95	cs
$n f_1(1285)$		
100	Alde 96	cs
	Donskov 95	cs
$n \eta(1295)$		
100	Alde 96	cs
	Donskov 95	cs
$p a_2(1320)^-$		
6.3	Aoyagi 94	–
18	Thompson 97	–
18.3	Thompson 98	cs
$n a_2(1320)^0$		
36	Amelin 95	cs
100	Stroot 95	cs
	Prokoshkin 94	cs
$n f_0(1370)$		
100	Alde 98	cs
	Stroot 95	cs
$n \tilde{\rho}(1405)^0$		
100	Stroot 95	cs
$n \eta(1440)$		
100	Alde 96	cs
	Donskov 95	cs
$n \rho(1450)^0$		
38	Sadovsky 94	cs
$n f_0(1500)$		
38	Stroot 95	angp,cs
100	Alde 98	cs
	Stroot 95	cs
$n f_2'(1525)$		
40	Baloshin 95	cs
100	Stroot 95	cs
$n X(1650)^0$		
32	Prokoshkin 96E	cs
38	Prokoshkin 96	angp,cs
	Prokoshkin 96E	cs
$n \omega_3(1670)$		
36	Amelin 95	cs
$p \pi_2(1670)^-$		
18.3	Thompson 98	cs
$n \rho_3(1690)^0$		
17.2	Anisovich 95	angp,dme
38	Stroot 95	cs,pwa
	Alde 94C	cs
	Sadovsky 94	cs

$\pi^- p$

$n \rho(1700)^0$		
38	Sadovsky 94	cs
$n f_J(1710)$		
38	Kulik 94	–
40	Baloshin 95	cs
$n f_2(1810)$		
38	Kondashov 95	angp,cs
	Sadovsky 94	cs
$n X(1910)$		
38	Stroot 95	angp,cs
	Sadovsky 94	cs
$n a_4(2040)^0$		
38	Prokoshkin 96C	–
	Prokoshkin 96D	–
	Alde 95	angp,cs
$n f_4(2050)$		
38	Kondashov 95	angp,cs
	Sadovsky 94	cs
100	Alde 98	cs
	Stroot 95	cs
$n \rho(2110)^0$		
38	Sadovsky 94	cs
$n \rho(2150)^0$		
38	Alde 94C	cs
$n f_J(2220)$		
100	Stroot 95	cs
$n \rho_5(2350)^0$		
38	Alde 94C	cs
	Sadovsky 94	cs
$n f_6(2510)$		
38	Sadovsky 94	cs
100	Alde 98	cs
$n \phi(1020)$		
5 – 6	Sapozhnikov 95	cs
32.5	Golovkin 97	cs
	Sapozhnikov 95	cs
	Victorov 95B	angp,cs
p exotic-meson		
18	Thompson 97	–
18.3	Thompson 98	cs
n glueball		
22	Bertolotto 94	cs
100	Stroot 95	cs
$\Delta(1232\, P_{33})^- \pi^+$		
5.9	White 94B	angp
$\Delta(1232\, P_{33})^0 f_J(1710)$		
38	Kulik 94	–
	Sadovsky 94	cs
ΛK^0		
(1.6 – 2.5)	Wang 97E	angp,asym
5.9	White 94B	angp
$\Sigma^0 K^0$		
(1.6 – 2.5)	Wang 97E	angp,asym
$\Sigma^- K^+$		
(1.6 – 2.5)	Wang 97E	angp,asym
$n f_0(995)$		
38	Anisovich 95	angp,cs
	Alde 94B	angp,cs
$n \pi^0 \gamma$		
38	Alde 94	mass
	Donskov 94	ang,angp,mass
$n 2\pi^0$		
18	Brabson 96	amp,angp,mass
38	Anisovich 95	mass,pwa
	Kondashov 95	angp,mass,pwa
	Stroot 95	angp,mass
	Alde 94B	mass,pwa
	Kondashov 94	mass,pwa
	Sadovsky 94	mass,pwa
100	Alde 98	ang,angp,mass,pwa

$\pi^- p$

$n \pi^+ \pi^-$		
0.1739	Kermani 98C	angp
0.1989	Kermani 98C	angp
0.2241	Kermani 98C	angp
0.2473	Kermani 98C	angp
0.2875	Lange 98	cs,p
0.2919	Lange 98	cs,p
0.2986	Lange 98	cs,p
0.3096	Lange 98	cs,p
0.3346	Kermani 98	angp,cs,mass,p
0.3346 – 0.3999	Kermani 98B	angp,cs,mass
0.3562	Kermani 98	angp,cs,mass,p
0.3787	Kermani 98	angp,cs,mass,p
0.3999	Kermani 98	angp,cs,mass,p
0.4221	Kermani 98	angp,cs,mass,p
1.78	Alekseev 97	angp,mass,p,pol
17.2	Svec 96	dme,mass,pwa
	Anisovich 95	mass
32.5	Victorov 95B	mass,p
$p \eta \pi^-$		
6.3	Aoyagi 94	ang,angp,cor,mass,pwa
18	Thompson 97	ang,angp,mass,pwa
	Cason 96	angp,mass
$n \eta \pi^0$		
18	Cason 96	angp,mass
38	Prokoshkin 96	angp,mass,pwa
	Prokoshkin 96C	amp,mass
	Prokoshkin 96D	mass,pwa
	Alde 95	mass,pwa
	Donskov 95	angp,mass,pwa
100	Stroot 95	angp,mass,pwa
	Prokoshkin 94	angp,mass,pwa
$n 2\eta$		
18	Cason 96	angp,mass
38	Stroot 95	angp,mass
	Sadovsky 94	mass
100	Stroot 95	angp,mass,pwa
$p \rho^0 \pi^-$		
18.3	Thompson 98	cs
$p \omega \pi^-$		
10	Sapozhnikov 95	cs
12	Ferrer 96	cs,mass,p
$n \omega \pi^0$		
38	Alde 94C	ang,angp,mass,pwa
	Sadovsky 94	mass,pwa
$n \omega \eta$		
38	Prokoshkin 96	angp,mass,pwa
	Donskov 95	angp,mass,pwa
$p \eta' \pi^-$		
18	Dowd 96	–
$n \eta' \eta$		
38	Stroot 95	angp,mass
$n a_0(980)^0 \pi^0$		
100	Donskov 95	amp,mass
$p f_2(1270) \pi^-$		
18	Weygand 96	–
18.3	Thompson 98	cs
$p f_1(1285) \pi^-$		
18	Dowd 96	–

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$\pi^- p$

$p f_1(1285) \pi^-$		
	Lee 94	mass,pwa
$p a_2(1320)^0 \pi^-$		
18	Weygand 96	–
$n a_2(1320)^+ \pi^-$		
18	Adams 96B	–
$n a_2(1320)^0 \pi^0$		
18	Adams 96B	–
$n a_2(1320)^- \pi^+$		
18	Adams 96B	–
$p \pi_2(1670)^0 \pi^-$		
18	Weygand 96	–
$p \pi(1800)^0 \pi^-$		
18	Weygand 96	–
$n K^+ K^-$		
32.5	Golovkin 97	mass,p
	Victorov 95B	mass,p
$n 2K_S$		
38	Stroot 95	angp,mass
	Kulik 94	angp,cor,mass
40	Batalova 97	mass,pwa
	Grigoriev 96	mass,pwa
	Baloshin 95	ang,cs,mass,pwa
$p \phi(1020) \pi^-$		
10	Sapozhnikov 95	cs
12	Ferrer 96	cs,mass,p
$n \phi(1020) \pi^0$		
32.5	Victorov 95	mass,p
$n 2\phi(1020)$		
8	Landberg 96	cs,mass
22	Bertolotto 94	mass,pwa
$p \pi^-$ baryonium		
12	Ferrer 98	cs
$\Delta(1232 P_{33})^0 2\eta$		
38	Sadovsky 94	mass
$\Delta(1232 P_{33})^0 2K_S$		
38	Sadovsky 94	mass
$n 3\gamma$		
38	Alde 94	mass
	Donskov 94	ang,angp,mass
	Sadovsky 94	mass
$n 2\pi^0 \gamma$		
38	Alde 94	mass
	Alde 94C	ang,angp,mass,pwa
$p \pi^+ 2\pi^-$		
18	Weygand 96	amp,angp,mass
18.3	Thompson 98	cs,mass,p,pwa
$n 3\pi^0$		
38	Alde 94	mass
$n \pi^+ \pi^0 \pi^-$		
36	Amelin 95	mass,pwa
$n \eta 2\gamma$		
38	Stroot 95	angp,mass
$n \eta 2\pi^0$		
100	Alde 96	amp,mass
	Donskov 95	amp,mass
$n \rho^+ \pi^0 \pi^-$		
18	Adams 96B	mass
$n \rho^- \pi^+ \pi^0$		
18	Adams 96B	mass
n meson$^0 < 2K_S >$		
40	Batalova 97	mass,pwa
$n K^+ K^- \pi^0$		
32.5	Golovkin 97	mass,p
	Victorov 95	mass,p

$\pi^- p$

$p K_S K_L \pi^-$		
40	Bolonkin 95	ang,angp,p,pwa
$n K^+ K^- \phi(1020)$		
8	Landberg 96	cs,mass
22	Bertolotto 94	mass
$p \pi^0 \pi^-$ baryonium		
12	Ferrer 98	cs
$2p \bar{p} \pi^-$		
12	Ferrer 98	cs,mass
$n 4\gamma$		
38	Prokoshkin 96	mass
	Prokoshkin 96C	amp,mass
	Prokoshkin 96D	mass
	Alde 95	mass
	Anisovich 95	mass
	Donskov 95	mass
	Kondashov 95	mass
	Stroot 95	angp,mass
	Alde 94B	mass
	Kondashov 94	mass
	Sadovsky 94	mass
100	Stroot 95	angp,mass
	Prokoshkin 94	ang,mass
$n \pi^+ 2\pi^0 \pi^-$		
18	Adams 96B	mass
$n 2\pi^+ 2\pi^-$		
4.35	Aleshin 94	mass
36	Ryabchikov 96	angp,mass,pwa
$p \eta \pi^+ 2\pi^-$		
18	Dowd 96	mass,pwa
$p \omega \pi^+ 2\pi^-$		
32.5	Sapozhnikov 95	cs
$p K^+ K_S 2\pi^-$		
18	Lee 94	mass,pwa
$n 2K^+ 2K^-$		
8	Landberg 96	mass
22	Bertolotto 94	mass
$p \phi(1020) \pi^+ 2\pi^-$		
32.5	Sapozhnikov 95	cs
$2p \bar{p} \pi^0 \pi^-$		
12	Ferrer 98	cs,mass
$n 5\gamma$		
38	Prokoshkin 96	mass
	Prokoshkin 96B	mass
	Donskov 95	mass
	Alde 94	mass
	Alde 94C	ang,angp,mass
	Sadovsky 94	mass
$n 6\gamma$		
38	Alde 94	mass
	Sadovsky 94	mass
$n 8\gamma$		
100	Stroot 95	angp,mass
$n 10\gamma$		
38	Sadovsky 94	mass

$\pi^- n$

2charged (chargeds) X		
40	Boos 95	col,cor,p

π^- nucleus

μ^+ X		
600	Garbincius 94	pt
mult[p] X		
300	Drndarevic 95	mult
mult[shower] X		
60	Cherry 97	mult,p
200	Cherry 97	mult,p
	Ghosh 95B	mult
300	Cherry 97	mult,p

π^- nucleus

mult[shower] X		
350	Ghosh 95B	mult
	Ghosh 94	col,mult
525	Cherry 97	mult,p
	Cherry 94C	mult
mult[grey] X		
300	Drndarevic 95	mult
mult[htrack] X		
525	Cherry 94C	mult
shower X		
60	Cherry 97	p
200	Cherry 97	p
300	Cherry 97	p
525	Cherry 97	p
	Cherry 94C	mult,p
grey X		
525	Cherry 94C	angp
htrack X		
525	Cherry 94C	mult
black X		
525	Cherry 94C	angp
meson$^-$ X		
40	Ivanshin 94	angp
π^+ X		
50	Tretyakova 95	mult,p
π^- X		
50	Tretyakova 95	mult,p
D^+ X		
340	Halling 96	a-dep,p
	Adamovich 94D	–
	Freyberger 94	–
500	Aitala 98C	–
	Aitala 96D	–
	James 96	–
	Aitala 95	–
	Carter 94	p,pt
	Carter 94B	p,pt
	Nguyen 94	–
600	Kodama 95	–
	Freyberger 94	–
	Gibaut 94B	–
D^0 X		
340	Adamovich 94D	–
600	Kodama 95	–
	Freyberger 94	–
	Gibaut 94B	–
$\bar{D}^0$ X		
340	Adamovich 94D	–
600	Kodama 95	–
D^- X		
340	Halling 96	a-dep,p
	Adamovich 94D	–
500	Aitala 96D	–
	James 96	–
	Aitala 95	–
	Carter 94	p,pt
	Carter 94B	p,pt
600	Kodama 95	–
$D^*(2010)^+$ X		
340	Halling 96	mult
500	Purohit 94	–
600	Kodama 94	–
$D^*(2010)^-$ X		
340	Halling 96	mult
D_s^+ X		
340	Adamovich 94D	–
500	James 96	–
	Aitala 95	–
600	Kodama 96	–
	Garbincius 94	–
D_s^- X		
340	Adamovich 94D	–
500	James 96	–
	Aitala 95	–
600	Kodama 96	–
B^+ X		
600	Garbincius 94	cs,p,pt

π^- nucleus

B^0 X
600 Garbincius 94 cs,p,pt

$\overline{B}^0$ X
600 Garbincius 94 cs,p,pt

B^- X
600 Garbincius 94 cs,p,pt

p X
40 Bondarev 98 a-dep,p

Λ X
3.6 – 4.2 Bulekov 94 p,pol,pt
4 Tomizawa 94 a-dep,cs
6.2 Bulekov 94 p,pol,pt

$\eta\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\rho^0\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\eta'\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$K^-\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\overline{K}^*(892)^0\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\phi(1020)\ \mu^+$ X
600 Gibaut 94B angp,mass,p

2charged X
200 Belaga 94B cor,p

mult[grey] mult[shower] X
525 Cherry 94C cor,mult,p

mult[htrack] mult[shower] X
200 Ghosh 95B mult
350 Ghosh 95B mult
525 Cherry 94C cor,mult,p

mult[black] mult[shower] X
525 Cherry 94C cor,mult,p

mult[black] mult[grey] X
525 Cherry 94C cor,mult

mult[grey] shower X
60 Cherry 97 mult,p
200 Cherry 97 mult,p
300 Cherry 97 mult,p
525 Cherry 97 mult,p

$K^*(892)^0\ \pi^+$ X
500 Gardner 95 cs,mass
Purohit 94B cs,mass

$\phi(1020)\ \pi^+$ X
500 Gardner 95 cs,mass
Purohit 94B cs,mass

$K^+\ \phi(1020)$ X
500 Gardner 95 cs,mass
Purohit 94B cs,mass

$D^0\ \pi^+$ X
500 Purohit 94 mass,p

$\overline{D}^0\ \pi^+$ X
500 Purohit 94 mass,p

$D^+\ \overline{D}^0$ X
350 Slaughter 96 ang
Adamovich 95 ang,cor,pt

$D^0\ \overline{D}^0$ X
350 Slaughter 96 ang
Adamovich 95 ang,cor,pt

$D^+\ D^-$ X
350 Slaughter 96 ang
Adamovich 95 ang,cor,pt

π^- nucleus

$D^0\ D^-$ X
350 Slaughter 96 ang
Adamovich 95 ang,cor,pt

bottom $\overline{\text{bottom}}$ X
600 Slaughter 96 ang,cs,p

$\Lambda\ K^0$ X
4.137 Bulekov 97B p,pt

nucleus mult[shower] X
340 Elnadi 94B mult

nucleus shower X
340 Elnadi 94B cs

$\pi^+\ 2\mu^-$ X
600 Kodama 95 cs,mass

$\pi^+\ \mu^-\ \mu^+$ X
500 Nguyen 94 mass
600 Kodama 95 cs,mass

$\pi^0\ \mu^-\ \mu^+$ X
600 Kodama 95 cs,mass

$\pi^-\ \mu^-\ \mu^+$ X
600 Kodama 95 cs,mass

$\pi^-\ 2\mu^+$ X
600 Kodama 95 cs,mass

$\overline{K}^*(892)^0\ \pi^0\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\overline{K}^*(892)^0\ \pi^-\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$K^*(892)^-\ \pi^0\ \mu^+$ X
600 Gibaut 94B angp,mass,p

3charged X
200 Belaga 94B cor,p

(showers) 2shower X
200 Belaga 95F ang,col,cor
Belaga 94C ang,col,cor

2grey (greys) X
350 Ghosh 94 angp,col

DD $< \pi^+\ 2\pi^- >$ X
40 Ivanshin 94 angp,mass,pwa

$K^+\ \pi^+\ \pi^-$ X
500 Gardner 95 cs,mass
Purohit 94 mass,p
Purohit 94B cs,mass

$K^+\ 2\pi^-$ X
500 Aitala 98D mass
Carter 94 mass

$K^-\ 2\pi^+$ X
500 Aitala 98D mass
Gardner 95 cs,mass
Carter 94 mass
Purohit 94 mass,p
Purohit 94B cs,mass

$2K^+\ K^-$ X
500 Gardner 95 cs,mass
Purohit 94 mass,p
Purohit 94B cs,mass

$\pi^+\ \pi^-\ \mu^+\ \gamma$ X
600 Gibaut 94B angp,mass,p

$\pi^+\ \pi^0\ \pi^-\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$\eta\ \pi^+\ \pi^-\ \mu^+$ X
600 Gibaut 94B angp,mass,p

$K^-\ \pi^+\ \pi^-\ \mu^+$ X
600 Gibaut 94B angp,mass,p

π^- nucleus

4charged X
200 Belaga 94B cor,p

nucleus 3shower X
340 Elnadi 94B angp,col,p

$\mu^-\ \mu^+$ hadron$^+$ hadron$^-$ neutral X
600 Kodama 95 cs,mass

5charged X
200 Belaga 94B cor,p

$K^+\ \pi^+\ 3\pi^-$ X
500 Aitala 98D mass

$K^-\ 3\pi^+\ \pi^-$ X
500 Aitala 98D mass

7charged X
200 Belaga 94B cor,p

nucleus meson$^-$
40 Vasilevsky 95 mass,pwa

nucleus $\pi(1800)^-$
36 Ryabchikov 96 –

nucleus $\pi_2(2100)^-$
36 Ryabchikov 96 –

nucleus $\pi^+\ 2\pi^-$
36 Ryabchikov 96 angp,mass,pwa
40 Vasilevsky 95 mass,pwa

nucleus $2\eta\ \pi^-$
36 Ryabchikov 96 angp,mass,pwa

nucleus $\omega\ \pi^0\ \pi^-$
36 Ryabchikov 96 angp,mass,pwa

π^- deuteron

X
0.1161 – 0.1496 Saunders 96 a-dep,cs

inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

π^0 X
0.6242 Peterson 95 angp

K^0 X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

Λ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

$\overline{\Lambda}$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

Σ^0 X
40 Akhobadze 97B a-dep,mult,pt

$\overline{\Sigma}^0$ X
40 Akhobadze 97B a-dep,mult,pt

$2\pi^+$ X
38 Chklovskaia 95 cor,pt

$\pi^+\ \pi^-$ X
38 Chklovskaia 95 cor,pt

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π^- deuteron

$2\pi^-$ X		
38	Chklovskaia 95	cor,pt
K^0 charged$^-$ X		
40	Akhobadze 98	a-dep,mult,p
K_S charged$^+$ X		
40	Akhobadze 97	a-dep,mult,pt
K_S charged$^-$ X		
40	Akhobadze 97	a-dep,mult,pt
$K^0\ \overline{K}^0$ X		
40	Akhobadze 98	a-dep,mult,p
Λ charged$^+$ X		
40	Akhobadze 97	a-dep,mult,pt
Λ charged$^-$ X		
40	Akhobadze 98	a-dep,mult,p
	Akhobadze 97	a-dep,mult,pt
$\overline{\Lambda}$ charged$^-$ X		
40	Akhobadze 97	a-dep,mult,pt
$K^0\ \overline{K}^0$ charged$^+$ X		
40	Akhobadze 97	a-dep,mult,pt
$K^0\ \overline{K}^0$ charged$^-$ X		
40	Akhobadze 98	a-dep,mult,p
	Akhobadze 97	a-dep,mult,pt
(π^-deuteron)$_{atom*}$		
0.	Hauser 98	const,p,pwa
deuteron π^-		
0.1268	Kohler 94	angp,asym,pol
0.5388	Gridnev 95	angp
$2n\ \gamma$		
< 0.8	Howell 98	angp

π^- ^{3}H

^{3}H π^-		
0.2445	Matthews 95	angp
	Matthews 94	angp,cs
0.2875	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.3314	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.3701	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.4115	Dhuga 96	angp

π^- ^{3}He

π^0 X		
0.3584	Dowell 95	angp,p
	Dowell 94	angp,p
$p\ \pi^0$ X		
0.3584	Dowell 95	angp,p
	Dowell 94	angp,p
deuteron n		
0.	Gotta 94	ang,angp,p
^{3}He π^-		
0.2445	Espy 97	asym,p
	Matthews 95	angp
	Matthews 94	angp,cs
0.2875	Espy 97	asym,p
	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.3314	Dhuga 96	angp

π^- ^{3}He

^{3}He π^-		
	Matthews 95	angp
	Matthews 94	angp,cs
0.3701	Espy 97	asym,p
	Dhuga 96	angp
	Matthews 95	angp
	Matthews 94	angp,cs
0.4115	Dhuga 96	angp
$p\ 2n$		
0.	Gotta 94	ang,angp,p
0.1081	Hahn 94	angp,cs
0.1461	Duncan 98	cs
0.1731	Duncan 98	cs

π^- Li

meson X		
300	Antoniazzi 94B	cs
$J/\psi(1S)$ X		
300	Garbincius 94	p,pt
$\chi_{c1}(1P)$ X		
300	Garbincius 94	p,pt
$h_c(1P)$ X		
300	Antoniazzi 94B	cs
	Garbincius 94	–
$\chi_{c2}(1P)$ X		
300	Garbincius 94	p,pt
$\psi(2S)$ X		
300	Garbincius 94	p,pt
$J/\psi(1S)\ \gamma$ X		
300	Garbincius 94	mass
$J/\psi(1S)\ \pi^+$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^0$ X		
300	Antoniazzi 94B	mass
	Garbincius 94	mass
$J/\psi(1S)\ \pi^-$ X		
300	Antoniazzi 94B	mass
$\psi(2S)\ \pi^+$ X		
300	Antoniazzi 94B	mass
$\psi(2S)\ \pi^0$ X		
300	Garbincius 94	mass
$\psi(2S)\ \pi^-$ X		
300	Antoniazzi 94B	mass
$\mu^-\ \mu^+\ \gamma$ X		
300	Garbincius 94	mass
$J/\psi(1S)\ 2\pi^+$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^+\ \pi^0$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^+\ \pi^-$ X		
300	Antoniazzi 94B	mass
	Garbincius 94	mass
$J/\psi(1S)\ \pi^0\ \pi^-$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ 2\pi^-$ X		
300	Antoniazzi 94B	mass

π^- ^{6}Li

X		
0.1161 – 0.1496	Saunders 96	a-dep,cs
inelastic		
0.1161 – 0.1496	Saunders 96	a-dep,cs
Λ X		
4	Tomizawa 94	angp,cs,p,pol

π^- ^{7}Li

$J/\psi(1S)$ X		
300	Sansoni 95	cs
$\chi_{c1}(1P)$ X		
300	Sansoni 95	cs

π^- ^{7}Li

$\chi_{c1}(1P)$ X		
	Antoniazzi 94	cs,p
$\chi_{c2}(1P)$ X		
300	Sansoni 95	cs
	Antoniazzi 94	cs,p
$\psi(2S)$ X		
300	Sansoni 95	cs
$\mu^-\ \mu^+$ X		
300	Sansoni 95	mass
$J/\psi(1S)\ \gamma$ X		
300	Sansoni 95	mass
	Antoniazzi 94	mass
$\mu^-\ \mu^+\ \gamma$ X		
300	Sansoni 95	mass
	Antoniazzi 94	mass

π^- Be

γ X		
500	Vogelsang 97	p,pt
515	Apanasevich 97B	p,pt
	Conrad 95	a-dep,pt
meson^0 X		
85	Bertolotto 94	mass,pwa
π^+ X		
43	Kartasheva 96	angp,p
π^0 X		
515	Apanasevich 97B	p,pt
	Conrad 95	a-dep,pt
π^- X		
43	Kartasheva 96	angp,p
ρ^0 X		
150	Belogianni 95	pt
300	Belogianni 95	pt
$f_0(980)$ X		
150	Belogianni 95	pt
300	Belogianni 95	pt
$f_2(1270)$ X		
150	Belogianni 95	pt
	Belogianni 93B	pt
300	Belogianni 95	pt
	Belogianni 94	pol,pt
	Belogianni 93B	pt
$f_0(1500)$ X		
36	Zaitsev 96	–
37	Amelin 95C	–
$\pi(1800)^-$ X		
36	Zaitsev 96	–
37	Amelin 95C	–
$X(1814)^-$ X		
36	Zaitsev 96	cs
K^+ X		
43	Kartasheva 96	angp,p
K^- X		
43	Kartasheva 96	angp,p
$K^*(892)^0$ X		
150	Belogianni 95	pt
	Belogianni 93B	pt
300	Belogianni 95	pt
	Belogianni 93B	pt
$\overline{K}^*(892)^0$ X		
150	Belogianni 95	pt
	Belogianni 93B	pt
300	Belogianni 95	pt
	Belogianni 93B	pt
$K_0^*(1430)^0$ X		
150	Belogianni 93B	pt
300	Belogianni 93B	pt
$\overline{K}_0^*(1430)^0$ X		
150	Belogianni 93B	pt
300	Belogianni 93B	pt
$\phi(1020)$ X		
150	Belogianni 95	pt
300	Belogianni 95	pt

π^- Be

$\phi(1020)$ X
Belogianni 94 pol,pt

$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt

D^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
515 Apanasevich 97 cs,p,pt

D^0 X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
515 Apanasevich 97 cs,p,pt

$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt

$D^*(2010)^+$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$J/\psi(1S)$ X
515 Koreshev 96 cs,p,pt
Gribushin 95 cs,p,pt
Sansoni 95 cs
Garbincius 94 p,pt

$\chi_{c1}(1P)$ X
515 Koreshev 96 cs,p,pt
Sansoni 95 cs
Garbincius 94 p,pt

$\chi_{c2}(1P)$ X
515 Koreshev 96 cs,p,pt
Sansoni 95 cs
Garbincius 94 p,pt

$\psi(2S)$ X
515 Koreshev 96 cs,p,pt
Gribushin 95 cs,p,pt
Sansoni 95 cs
Garbincius 94 p,pt

B^+ X
515 Garbincius 94 cs

B^0 X
515 Garbincius 94 cs

$\overline{B}^0$ X
515 Garbincius 94 cs

B^- X
515 Garbincius 94 cs

p X
40 Antipov 95 p,pt
43 Kartasheva 97 angp,p

π^- Be

p X
Kartasheva 96 angp,p

$\overline{p}$ X
40 Antipov 95 p,pt

Ξ^- X
250 Alves 97 angp,cs,p,pt

$\overline{\Xi}^+$ X
250 Alves 97 angp,cs,p,pt

Λ_c^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

deuteron X
43 Kartasheva 97 angp,p
Kartasheva 96 angp,p

$\mu^-\ \mu^+$ X
515 Gribushin 95 mass
Garbincius 94 mass
Jesik 94 mass

2jet X
530 Conrad 95 a-dep,ang,pt

γ charged X
500 Alverson 93B ang,mult,p,pt

γ jet X
500 Alverson 93B angp,mass,pt

$\overline{b}\ b$ X
515 Slaughter 96 cs
Jesik 94 cs

π^0 charged X
500 Alverson 93B ang,mult,p,pt

π^0 jet X
500 Alverson 93B angp,mass,pt

$2\pi^+$ X
43 Kartasheva 96 angp,cor,p

$2\pi^0$ X
515 Apanasevich 97B ang,p,pt

$\pi^+\ \pi^-$ X
43 Kartasheva 96 angp,cor,p
150 Belogianni 95 mass,pt
Belogianni 93B mass,pt
300 Belogianni 95 mass,pt
Belogianni 93B mass,pt

$2\pi^-$ X
43 Kartasheva 96 angp,cor,p

$K^+\ \pi^+$ X
40 Antipov 95 p,pt

$K^+\ \pi^-$ X
150 Belogianni 95 mass,pt
Belogianni 93B mass,pt
300 Belogianni 95 mass,pt
Belogianni 93B mass,pt

$K^-\ \pi^+$ X
150 Belogianni 95 mass,pt
Belogianni 93B mass,pt
300 Belogianni 95 mass,pt
Belogianni 93B mass,pt

$K^-\ \pi^-$ X
40 Antipov 95 p,pt

$K^+\ K^-$ X
150 Belogianni 95 mass,pt
300 Belogianni 95 mass,pt

$2\phi(1020)$ X
85 Bertolotto 94 mass

π^- Be

$J/\psi(1S)\ \gamma$ X
515 Garbincius 94 mass

$p\ \pi^+$ X
43 Kartasheva 96 angp,cor,p

$p\ \pi^-$ X
43 Kartasheva 97 angp,cor,p
Kartasheva 96 angp,cor,p

$p\ \rho^0$ X
40 Antipov 93B a-dep,cs,p,pt

$2p$ X
43 Kartasheva 97 angp,cor,mass,p
Kartasheva 96 angp,cor,p

deuteron π^+ X
43 Kartasheva 96 angp,cor,p

deuteron π^- X
43 Kartasheva 97 angp,cor,p
Kartasheva 96 angp,cor,p

deuteron p X
43 Kartasheva 96 angp,cor,p

2deuteron X
43 Kartasheva 96 angp,cor,p

$\mu^-\ \mu^+\ \gamma$ X
515 Koreshev 96 mass
Sansoni 95 mass
Garbincius 94 mass

$\pi^+\ \pi^-$ charged-hadron X
150 Belogianni 94 ang,mass,pt
300 Belogianni 94 ang,mass,pt

$2\eta\ \pi^-$ X
36 Zaitsev 96 angp,mass,pwa
37 Amelin 95C angp,mass,pwa

$K^+\ 2\pi^-$ X
250 Appel 94 mass

$K^-\ 2\pi^+$ X
250 Appel 94 mass

$K^+\ K^-$ charged-hadron X
150 Belogianni 94 ang,mass,pt
300 Belogianni 94 ang,mass,pt

$K^+\ K^-\ \pi^+$ X
250 Appel 94 mass

$K^+\ K^-\ \pi^-$ X
250 Appel 94 mass

$p\ \pi^+\ \pi^-$ X
40 Antipov 93B ang,angp,dme,mass

$2K^+\ 2K^-$ X
85 Bertolotto 94 mass

$\pi^+\ \pi^0\ \pi^-\ 2\gamma$ X
36 Zaitsev 96 mass
37 Amelin 95C mass

Be $a_2(1320)^-$
36 Zaitsev 96 cs
37 Achasov 94 cs

Be $\pi_2(1670)^-$
37 Amelin 98B cs

Be $\pi(1800)^-$
36 Zaitsev 96 cs

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π^- Be

Be $\pi(1800)^-$			
		Amelin 95B	–
Be $a_4(2040)^-$			
	37	Amelin 98B	cs
Be exotic-meson			
	36	Zaitsev 96	cs
Be η π^-			
	36	Zaitsev 96	angp,pwa
	37	Amelin 98	angp,cs,mass
Be η' π^-			
	36	Zaitsev 96	angp,pwa
Be $f_0(980)$ π^-			
	36	Zaitsev 96	mass,pwa
Be $f_2(1270)$ π^-			
	36	Zaitsev 96	mass,pwa
Be $K^*(892)^0$ K^-			
	36	Zaitsev 96	mass,pwa
Be $K_2^*(1430)^0$ K^-			
	36	Zaitsev 96	mass,pwa
Be π^+ $2\pi^-$			
	36	Zaitsev 96	mass,pwa
		Amelin 95B	mass,pwa
	40	Efremov 97	ang,p,pt
DD $< \pi^+ \; 2\pi^- >$ Be			
	40	Ivanshin 94	angp,mass,pwa
Be ω π^0 π^-			
	37	Amelin 98B	angp,mass,pwa
Be K^+ K^- π^-			
	36	Zaitsev 96	mass,pwa
Be π^+ π^0 $2\pi^-$			
	36	Zaitsev 96	angp,mass
Be η π^+ $2\pi^-$			
	36	Zaitsev 96	angp,mass
Be π^+ $2\pi^-$ 2γ			
	36	Zaitsev 96	angp,mass

π^- C

X			
	0.1161 – 0.1496	Saunders 96	a-dep,cs
inelastic			
	0.1161 – 0.1496	Saunders 96	a-dep,cs
charged$^+$ X			
	40	Akhobadze 97	a-dep,mult,pt
charged$^-$ X			
	40	Akhobadze 98	a-dep,mult,p
		Akhobadze 97	a-dep,mult,pt
($\pi^\pm$'s) X			
	40	Badalyan 96	col,p
jet X			
	40	Badalyan 97	angp,mass,p
		Badalyan 96	p
γ X			
	200	Vogelsang 97	pt
π^+ X			
	40	Gulamov 96B	p
π^- X			
	40	Gulamov 96B	p
ρ^0 X			
	40	Gulamov 96B	mult
$f_2(1270)$ X			
	40	Gulamov 96B	mult
K^0 X			
	40	Akhobadze 98	a-dep,mult,p

π^- C

K^0 X			
		Akhobadze 97B	a-dep,mult,pt
D^+ X			
	250	Appel 94	cs,p,pt
	500	Aitala 97	–
		Aitala 97D	–
		Aitala 96	cs,p,pt
		Aitala 96F	cs
D^0 X			
	500	Aitala 97E	–
$\overline{D}^0$ X			
	500	Aitala 97E	–
		Aitala 97F	–
D^- X			
	250	Appel 94	cs,p,pt
	500	Aitala 97	–
		Aitala 97D	–
		Aitala 96	cs,p,pt
		Aitala 96F	cs
$D^*(2010)^+$ X			
	500	Aitala 97E	–
		Aitala 96E	–
$D^*(2010)^-$ X			
	500	Aitala 97E	–
		Aitala 96E	–
D_s^+ X			
	250	Appel 94	cs,p,pt
	500	Aitala 98	p
		Aitala 98B	mass
		Aitala 97B	p,pt
		Aitala 97C	cs,p
D_s^- X			
	250	Appel 94	cs,p,pt
	500	Aitala 98	p
		Aitala 97B	p,pt
		Aitala 97C	cs,p
Λ X			
	40	Akhobadze 98	a-dep,mult,p
		Akhobadze 97B	a-dep,mult,pt
$\overline{\Lambda}$ X			
	40	Akhobadze 98	a-dep,mult,p
		Akhobadze 97B	a-dep,mult,pt
Σ^0 X			
	40	Akhobadze 97B	a-dep,mult,pt
$\overline{\Sigma}^0$ X			
	40	Akhobadze 97B	a-dep,mult,pt
Ξ^- X			
	345	Adamovich 97	a-dep,cs,p,pt
Λ_c^+ X			
	500	Aitala 96B	cs,p,pt
$\Sigma_c(2455)^{++}$ X			
	500	Aitala 96B	cs,p,pt
$\Sigma_c(2455)^0$ X			
	500	Aitala 96B	cs,p,pt
exotic-nucleon X			
	500	Aitala 97C	cs
mult[p] mult[π^-] X			
	40	Kuznetsov 97C	cor
2jet X			
	40	Badalyan 97	angp,mass,p
2γ X			
	200	Vogelsang 97	cs,pt
π^- mult[π^-] X			
	40	Gulamov 96B	cor,mult,p,pt

π^- C

mult[p] π^- X			
	40	Kuznetsov 97B	mult,p
$2\pi^+$ X			
	38	Chklovskaia 95	cor,pt
π^+ π^- X			
	38	Chklovskaia 95	cor,pt
$2\pi^-$ X			
	38	Chklovskaia 95	cor,pt
K^0 charged$^-$ X			
	40	Akhobadze 98	a-dep,mult,p
K_S charged$^+$ X			
	40	Akhobadze 97	a-dep,mult,pt
K_S charged$^-$ X			
	40	Akhobadze 97	a-dep,mult,pt
K^0 $\overline{K}^0$ X			
	40	Akhobadze 98	a-dep,mult,p
$2K_S$ X			
	40	Grigoriev 96	mass,pwa
p ($\pi^\pm$'s) X			
	40	Badalyan 97	col,mass,p
p mult[p] X			
	40	Kuznetsov 97B	mult,p
p π^- X			
	40	Gulamov 96B	cor,mult,p
Λ charged$^+$ X			
	40	Akhobadze 97	a-dep,mult,pt
Λ charged$^-$ X			
	40	Akhobadze 98	a-dep,mult,p
		Akhobadze 97	a-dep,mult,pt
$\overline{\Lambda}$ charged$^-$ X			
	40	Akhobadze 97	a-dep,mult,pt
2charged (chargeds) X			
	40	Boos 95	col,cor,p
		Angelov 94	col,cor
K^+ $2\pi^-$ X			
	250	Appel 94	mass
K^- $2\pi^+$ X			
	250	Appel 94	mass
K^0 $\overline{K}^0$ charged$^+$ X			
	40	Akhobadze 97	a-dep,mult,pt
K^0 $\overline{K}^0$ charged$^-$ X			
	40	Akhobadze 98	a-dep,mult,p
		Akhobadze 97	a-dep,mult,pt
K^+ K^- π^+ X			
	250	Appel 94	mass
K^+ K^- π^- X			
	250	Appel 94	mass
p $\phi(1020)$ π^- X			
	500	Aitala 97C	cs,mass
DD $< \pi^+ \; 2\pi^- >$ C			
	40	Ivanshin 94	angp,mass,pwa

π^- ^{12}C

(π^+'s) (π^-'s) X			
	40	Kulakov 97	angp
mult[π^+] mult[π^-] X			
	40	Abdinov 95	mult,p,pt

π^- ^{12}C

$2p$ (p's) (π^+'s) (π^-'s) X
40 Abdinov 95 mult,p,pt
^{12}Bor π^0
0.08801 Hanna 94 angp,p
^{12}C π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp
0.5212 Kahrimanis 97 angp,mass
0.6242 Kahrimanis 97 angp,mass
0.7365 Takahashi 95 angp,cs
0.838 Takahashi 95 angp,cs
0.919 Takahashi 95 angp,cs
1.025 Takahashi 95 angp,cs

π^- ^{13}C

^{13}Bor π^0
0.08801 Hanna 94 angp,p

π^- Nit

γ X
0. Lenz 98 p
0.085 Anagnastopou 97 p

π^- ^{16}O

π^+ X
0.7263 Abramov 96B angp,p
0.8785 Abramov 96B angp,p
^{16}O π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp

π^- ^{18}O

^{18}O π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp

π^- Ne

mult[charged$^+$] X
6.2 Kiselevich 95 mult
mult[charged$^-$] X
6.2 Kiselevich 95 mult
charged$^+$ X
6.2 Kiselevich 95 mult
charged$^-$ X
6.2 Kiselevich 95 mult
mult[p] X
6.2 Kiselevich 95 mult
p X
6.2 Kiselevich 95 mult
Λ X
3.6 – 4.2 Bulekov 94 p,pol,pt
6.2 Bulekov 94 p,pol,pt
vee (vees) mult[charged$^+$] X
6.2 Kiselevich 95 mult
vee (vees) mult[charged$^-$] X
6.2 Kiselevich 95 mult
vee (vees) charged$^+$ X
6.2 Kiselevich 95 mult
vee (vees) charged$^-$ X
6.2 Kiselevich 95 mult
mult[p] vee (vees) X
6.2 Kiselevich 95 mult
$2\pi^+$ π^- X
3.9 Mikhajlichen 97 angp,mass,p
p vee (vees) X
6.2 Kiselevich 95 mult
(p's) π^- (charged$^+$s) (charged$^-$s) X
6.2 Kiselevich 94 col

π^- ^{20}Ne

^{20}Ne* π^-
0.2875 Burlein 95 angp,cs,p

π^- ^{24}Mg

γ X
0. Jeckelmann 94 p

π^- Mg

π^+ X
100 Whitmore 94 mult,p,pt
320 Whitmore 94 mult,p,pt
π^- X
100 Whitmore 94 mult,p,pt
320 Whitmore 94 mult,p,pt
p X
100 Whitmore 94 mult,p
320 Whitmore 94 mult,p

π^- Al

X
0.1161 – 0.1496 Saunders 96 a-dep,cs
inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs
$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt
D^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
D^0 X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
$\overline{D}^0$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
D^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt
$D^*(2010)^+$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt
$D^*(2010)^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt
D_s^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
D_s^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
Ξ^- X
250 Alves 97 angp,cs,p,pt
$\overline{\Xi}^+$ X
250 Alves 97 angp,cs,p,pt
Λ_c^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt
$\overline{\Lambda}_c^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt
p π^- X
3.15 Bayukov 94 angp,cor,p

π^- Al

p ρ^0 X
40 Antipov 93B a-dep,cs,p,pt
deuteron π^- X
3.15 Bayukov 94 angp,cor,p
K^+ $2\pi^-$ X
250 Appel 94 mass
K^- $2\pi^+$ X
250 Appel 94 mass
K^+ K^- π^+ X
250 Appel 94 mass
K^+ K^- π^- X
250 Appel 94 mass
DD $< \pi^+ 2\pi^- >$ Al
40 Ivanshin 94 angp,mass,pwa

π^- Si

X
0.1161 – 0.1496 Saunders 96 a-dep,cs
inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs
$D^\pm$ X
340 Halling 96 p
Alves 93B p
2jet X
530 Conrad 95 a-dep,ang,pt
DD $< \pi^+ 2\pi^- >$ Si
40 Ivanshin 94 angp,mass,pwa
Si π^+ $2\pi^-$
40 Efremov 97 ang

π^- ^{28}Si

^{28}Si π^-
0.3749 Rawoolsulliv 94 angp

π^- S

X
0.1161 – 0.1496 Saunders 96 a-dep,cs
inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

π^- Ca

X
0.1161 – 0.1496 Saunders 96 a-dep,cs
inelastic
0.1161 – 0.1496 Saunders 96 a-dep,cs

π^- ^{40}Ca

^{40}Ca π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp
0.5212 Kahrimanis 97 angp,mass
0.6242 Kahrimanis 97 angp,mass

π^- ^{48}Ca

^{48}Ca π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp

π^- Ti

DD $< \pi^+ 2\pi^- >$ Ti
40 Ivanshin 94 angp,mass,pwa

π^- ^{58}Ni

^{58}Ni π^-
0.07735 Burleson 94 angp

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π^- ^{58}Ni

^{58}Ni π^-
0.113 Burleson 94 angp
0.2875 Laymon 96 a-dep,angp,dme

^{58}Ni* π^-
0.2875 Laymon 96 a-dep,angp,dme

π^- ^{60}Ni

^{60}Ni π^-
0.2875 Laymon 96 a-dep,angp,dme

^{60}Ni* π^-
0.2875 Laymon 96 a-dep,angp,dme

π^- ^{62}Ni

^{62}Ni π^-
0.2875 Laymon 96 a-dep,angp,dme

^{62}Ni* π^-
0.2875 Laymon 96 a-dep,angp,dme

π^- ^{64}Ni

^{64}Ni π^-
0.2875 Laymon 96 a-dep,angp,dme

^{64}Ni* π^-
0.2875 Laymon 96 a-dep,angp,dme

π^- Cu

charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

γ X
515 Conrad 95 a-dep,pt

π^0 X
515 Conrad 95 a-dep,pt

K^0 X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

$D^\pm$ X
250 Halling 96 p,pt
Alves 93B p,pt
340 Halling 96 p
Alves 93B p

D^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
350 Adamovich 96B a-dep,cs,p,pt

D^0 X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
350 Adamovich 97B –
Adamovich 96B a-dep,cs,p,pt
Adamovich 95B –

$\overline{D}^0$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
350 Adamovich 97B –
Adamovich 96B a-dep,cs,p,pt
Adamovich 95B –

π^- Cu

D^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
350 Adamovich 96B a-dep,cs,p,pt

$D^*(2010)^\pm$ X
250 Halling 96 p,pt
Gardner 95 mass
Alves 93 a-dep,p,pt
Alves 93B p,pt

$D^*(2010)^+$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
350 Adamovich 96B a-dep,cs,p,pt

D_s^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
350 Adamovich 96B a-dep,cs,p,pt

$J/\psi(1S)$ X
515 Sansoni 95 cs
Garbincius 94 p,pt

$\chi_{c1}(1P)$ X
515 Sansoni 95 cs
Garbincius 94 p,pt

$\chi_{c2}(1P)$ X
515 Sansoni 95 cs
Garbincius 94 p,pt

$\psi(2S)$ X
515 Sansoni 95 cs
Garbincius 94 p,pt

B^+ X
515 Garbincius 94 cs

B^0 X
515 Garbincius 94 cs

$\overline{B}^0$ X
515 Garbincius 94 cs

B^- X
515 Garbincius 94 cs

Λ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt
230 Barlag 94 p,pol,pt

$\overline{\Lambda}$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt
230 Barlag 94 p,pol,pt

Σ^0 X
40 Akhobadze 97B a-dep,mult,pt

$\overline{\Sigma}^0$ X
40 Akhobadze 97B a-dep,mult,pt

Ξ^- X
250 Alves 97 angp,cs,p,pt
345 Adamovich 97 a-dep,cs,p,pt

$\overline{\Xi}^+$ X
250 Alves 97 angp,cs,p,pt

π^- Cu

Λ_c^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

μ^- μ^+ X
350 Adamovich 95B mass
515 Garbincius 94 mass

2jet X
530 Conrad 95 a-dep,ang,pt

$2\pi^+$ X
38 Chklovskaia 95 cor,pt

π^+ π^- X
38 Chklovskaia 95 cor,pt

$2\pi^-$ X
38 Chklovskaia 95 cor,pt

K^0 charged$^-$ X
40 Akhobadze 98 a-dep,mult,p

K_S charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

K_S charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

K^0 $\overline{K}^0$ X
40 Akhobadze 98 a-dep,mult,p

charm $\overline{\text{charm}}$ X
230 Slaughter 96 cor,mass,p,pt
Rybicki 95 cor,mass,p,pt

D $\overline{D}$ X
230 Slaughter 96 ang

D^+ $\overline{D}^0$ X + D^0 D^- X
230 Slaughter 96 ang

D^+ $\overline{D}^0$ X
350 Adamovich 96 ang,cor,p,pt

D^0 $\overline{D}^0$ X
230 Slaughter 96 ang
350 Adamovich 96 ang,cor,p,pt

D^+ D^- X
230 Slaughter 96 ang
350 Adamovich 96 ang,cor,p,pt

D^0 D^- X
350 Adamovich 96 ang,cor,p,pt

D_s^+ $\overline{D}$ X + D_s^- D X
230 Slaughter 96 ang

$J/\psi(1S)$ γ X
515 Garbincius 94 mass

B $\overline{B}$ X
350 Adamovich 98 cs
Alexandrov 98 ang

p ρ^0 X
40 Antipov 93B a-dep,cs,p,pt

Λ charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

Λ charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

$\overline{\Lambda}$ charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

π^- Cu

$\Lambda_c^+ \overline{D}\, X + \overline{\Lambda}_c^- D\, X$

230	Slaughter 96	ang

$\mu^- \mu^+ \gamma X$

515	Sansoni 95	mass
	Garbincius 94	mass

$K^+ 2\pi^- X$

250	Appel 94	mass

$K^- 2\pi^+ X$

250	Appel 94	mass

$K^0 \overline{K}^0$ charged$^+$ X

40	Akhobadze 97	a-dep,mult,pt

$K^0 \overline{K}^0$ charged$^-$ X

40	Akhobadze 98	a-dep,mult,p
	Akhobadze 97	a-dep,mult,pt

$K^+ K^- \pi^+ X$

250	Appel 94	mass

$K^+ K^- \pi^- X$

250	Appel 94	mass

DD $< \pi^+ 2\pi^- >$ Cu

40	Ivanshin 94	angp,mass,pwa

π^- Se

Se π^-

0.2718	Hui 94	angp,p

π^- ^{90}Zr

^{90}Zr π^-

0.07735	Burleson 94	angp
0.113	Burleson 94	angp
0.5212	Kahrimanis 97	angp,mass
0.6242	Kahrimanis 97	angp,mass

π^- Ag

π^+ X

100	Whitmore 94	mult,p,pt
320	Whitmore 94	mult,p,pt

π^- X

100	Whitmore 94	mult,p,pt
320	Whitmore 94	mult,p,pt

p X

100	Whitmore 94	mult,p
320	Whitmore 94	mult,p

mult[p] π^+ X

100	Whitmore 94	cor,mult,p,pt

mult[p] π^- X

100	Whitmore 94	cor,mult,p,pt

DD $< \pi^+ 2\pi^- >$ Ag

40	Ivanshin 94	angp,mass,pwa

π^- Xe

mult[π] X

3.5	Strugalskago 96	mult

mult[$\pi^\pm$] X

3.5	Strugalskago 96	mult

mult[π^0] X

3.5	Strugalskago 96	mult
	Strugalski 96	mult

mult[p] mult[γ] X

3.5	Strugalski 96	cor,mult

mult[p] mult[π] X

3.5	Strugalski 96	cor,mult

mult[p] mult[π^0] X

3.5	Strugalski 96	cor,mult

π^- Xe

nucleus (p's) π^+

2.34	Strugalskago 94	cs,mult
3.5	Strugalskago 94	cs,mult
5	Strugalskago 94	cs,mult
9	Strugalskago 94	cs,mult

nucleus p (p's)

2.34	Strugalskago 94	cs
3.5	Strugalskago 94	cs
5	Strugalskago 94	cs
9	Strugalskago 94	cs

π^- Ta

DD $< \pi^+ 2\pi^- >$ Ta

40	Ivanshin 94	angp,mass,pwa

π^- Wt

$D^\pm$ X

250	Halling 96	p,pt
	Alves 93B	p,pt
340	Halling 96	p
	Alves 93B	p

D^+ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
350	Adamovich 96B	a-dep,cs,p,pt

D^0 X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
350	Adamovich 97B	–
	Adamovich 96B	a-dep,cs,p,pt
	Adamovich 95B	–

$\overline{D}^0$ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
350	Adamovich 97B	–
	Adamovich 96B	a-dep,cs,p,pt
	Adamovich 95B	–

D^- X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
350	Adamovich 96B	a-dep,cs,p,pt

$D^*(2010)^\pm$ X

250	Halling 96	p,pt
	Gardner 95	mass
	Alves 93	a-dep,p,pt
	Alves 93B	p,pt

$D^*(2010)^+$ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt

$D^*(2010)^-$ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt

D_s^+ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
350	Adamovich 96B	a-dep,cs,p,pt

D_s^- X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
350	Adamovich 96B	a-dep,cs,p,pt

π^- Wt

Ξ^- X

250	Alves 97	angp,cs,p,pt

$\overline{\Xi}^+$ X

250	Alves 97	angp,cs,p,pt

Λ_c^+ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X

210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt

$\mu^- \mu^+$ X

350	Adamovich 95B	mass

$B\,\overline{B}$ X

140	Slaughter 96	cs
194	Slaughter 96	cs
286	Slaughter 96	cs

$K^+ 2\pi^-$ X

250	Appel 94	mass

$K^- 2\pi^+$ X

250	Appel 94	mass

$K^+ K^- \pi^+$ X

250	Appel 94	mass

$K^+ K^- \pi^-$ X

250	Appel 94	mass

π^- Pt

D^+ X

250	Appel 94	cs,p,pt
500	Aitala 97	–
	Aitala 97D	–
	Aitala 96	cs,p,pt
	Aitala 96F	cs

D^0 X

500	Aitala 97E	–
	Aitala 97F	–

$\overline{D}^0$ X

500	Aitala 97E	–

D^- X

250	Appel 94	cs,p,pt
500	Aitala 97	–
	Aitala 97D	–
	Aitala 96	cs,p,pt
	Aitala 96F	cs

$D^*(2010)^+$ X

500	Aitala 97E	–
	Aitala 96E	–

$D^*(2010)^-$ X

500	Aitala 97E	–
	Aitala 96E	–

D_s^+ X

250	Appel 94	cs,p,pt
500	Aitala 98	p
	Aitala 98B	mass
	Aitala 97B	p,pt
	Aitala 97C	cs,p

D_s^- X

250	Appel 94	cs,p,pt
500	Aitala 98	p
	Aitala 97B	p,pt
	Aitala 97C	cs,p

Λ_c^+ X

500	Aitala 96B	cs,p,pt

$\Sigma_c(2455)^{++}$ X

500	Aitala 96B	cs,p,pt

$\Sigma_c(2455)^0$ X

500	Aitala 96B	cs,p,pt

exotic-nucleon X

500	Aitala 97C	cs

$K^+ 2\pi^-$ X

250	Appel 94	mass

$K^- 2\pi^+$ X

250	Appel 94	mass

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π^- Pt

$K^+ K^- \pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^-$ X
250 Appel 94 mass

$p\ \phi(1020)\ \pi^-$ X
500 Aitala 97C cs,mass

π^- Au

π^+ X
100 Whitmore 94 mult,p,pt
320 Whitmore 94 mult,p,pt

π^- X
100 Whitmore 94 mult,p,pt
320 Whitmore 94 mult,p,pt

p X
100 Whitmore 94 mult,p
320 Whitmore 94 mult,p

π^- ^{197}Au

fragt X
5 – 9.2 Kwiatkowski 98 mult

π^- Pb

charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

mult[n] X
2 Pienkowski 97 mult
3 Pienkowski 97 mult
4 Pienkowski 97 mult
5 Pienkowski 97 mult

K^0 X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

Λ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

$\overline{\Lambda}$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97B a-dep,mult,pt

Σ^0 X
40 Akhobadze 97B a-dep,mult,pt

$\overline{\Sigma}^0$ X
40 Akhobadze 97B a-dep,mult,pt

$2\pi^+$ X
38 Chklovskaia 95 cor,pt

$\pi^+ \pi^-$ X
38 Chklovskaia 95 cor,pt

$2\pi^-$ X
38 Chklovskaia 95 cor,pt

K^0 charged$^-$ X
40 Akhobadze 98 a-dep,mult,p

K_S charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

K_S charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

$K^0\ \overline{K}^0$ X
40 Akhobadze 98 a-dep,mult,p

π^- Pb

$p\ \pi^-$ X
3.15 Bayukov 94 angp,cor,p

$p\ \rho^0$ X
40 Antipov 93B a-dep,cs,p,pt

Λ charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

Λ charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

$\overline{\Lambda}$ charged$^-$ X
40 Akhobadze 97 a-dep,mult,pt

deuteron π^- X
3.15 Bayukov 94 angp,cor,p

$K^0\ \overline{K}^0$ charged$^+$ X
40 Akhobadze 97 a-dep,mult,pt

$K^0\ \overline{K}^0$ charged$^-$ X
40 Akhobadze 98 a-dep,mult,p
Akhobadze 97 a-dep,mult,pt

Pb $\pi^+\ 2\pi^-$
40 Efremov 97 ang

DD $< \pi^+\ 2\pi^- >$ Pb
40 Ivanshin 94 angp,mass,pwa

π^- ^{208}Pb

γ X
0.07735 Raywood 97 cs,p
0.0872 Raywood 97 cs,p

^{208}Pb π^-
0.07735 Burleson 94 angp
0.113 Burleson 94 angp
0.5212 Kahrimanis 97 angp,mass
0.6242 Kahrimanis 97 angp,mass

π^- U

bottom $\overline{\text{bottom}}$ X
320 Slaughter 96 cs,p

η nucleon

X
0.2 – 0.7 Barmin 96 cs

ρ^0 nucleon

X
200 Arneodo 94 cs

$\rho^0\ p$

X
(60 – 80) Derrick 95R cs

ω nucleon

X
0.2 – 0.7 Barmin 96 cs

$\omega\ p$

X
(70 – 90) Derrick 96D cs

K^+ nucleon

$D^\pm$ X
250 Wallace 94 cs

D^+ X + D^- X
250 Karchin 95 cs,p,pt

D^0 X + $\overline{D}^0$ X
250 Karchin 95 cs,p,pt

K^+ nucleon

$D_s^\pm$ X
250 Wallace 94 cs

D_s^+ X + D_s^- X
250 Karchin 95 cs,p,pt

$K^*(892)^0\ K^-$ X + $\overline{K}^*(892)^0\ K^+$ X
250 Karchin 95 mass
Wallace 94 mass

$\phi(1020)\ \pi^+$ X + $\phi(1020)\ \pi^-$ X
250 Karchin 95 mass
Wallace 94 mass

$K^+\ 2\pi^-$ X + $K^-\ 2\pi^+$ X
250 Karchin 95 mass
Wallace 94 mass

$K^+\ p$

mult[charged] X
147 Arena 95 mult
250 Agababyan 98 col,cor,mult,p,pt

charged$^+$ X
250 Agababyan 96B p,pt

charged$^-$ X
250 Agababyan 96B p,pt

π^- X
250 Agababyan 97 p,pt

$K^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\overline{K}^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\phi(1020)$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

mult[charged$^+$] mult[charged$^-$] X
250 Agababyan 96B col,cor,p,pt

2charged X
250 Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor

2charged$^+$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

charged$^+$ charged$^-$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

2charged$^-$ X
250 Agababyan 96B col,cor,p,pt
Agababyan 95D ang,cor,p
Agababyan 94B ang,col
Agababyan 94C col,cor
Ajinenko 94 ang,col,cor,mass,pt

$2\pi^-$ X
250 Agababyan 97 ang,cor,p,pt
Agababyan 96C angp,cor,p,pt

$K^+ p$

$2\pi^- X$
Agababyan 95B ang,cor,p,pt
Agababyan 95C ang,cor,p,pt

2charged (chargeds) X
250 Agababyan 96 col,cor,p,pt

3charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

3charged$^+$ X + 3charged$^-$ X
250 Agababyan 94C col,cor

3charged$^+$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

2charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

3charged$^-$ X
250 Agababyan 94B ang,col
Ajinenko 94 cor,mass

4charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

4charged$^+$ X + 4charged$^-$ X
250 Agababyan 94C col,cor

4charged$^+$ X
250 Agababyan 94B ang,col

3charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col

2charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col

charged$^+$ 3charged$^-$ X
250 Agababyan 94B ang,col

4charged$^-$ X
250 Agababyan 94B ang,col

5charged X
250 Agababyan 94B ang,col
Agababyan 94C col,cor

5charged$^+$ X
250 Agababyan 94B ang,col

4charged$^+$ charged$^-$ X
250 Agababyan 94B ang,col

3charged$^+$ 2charged$^-$ X
250 Agababyan 94B ang,col

2charged$^+$ 3charged$^-$ X
250 Agababyan 94B ang,col

charged$^+$ 4charged$^-$ X
250 Agababyan 94B ang,col

5charged$^-$ X
250 Agababyan 94B ang,col

$p K^+$
5.9 White 94B angp

$p K^*(892)^+$
5.9 White 94B angp

$\Delta(1232 P_{33})^+ K^+$
5.9 White 94B angp

K^+ nucleus

$n K^+ X$
0.4873 Berdnikov 96 ang,angp,cs,p

nucleus mult[shower] X
70 Elnadi 94B mult

K^+ nucleus

nucleus shower X
70 Elnadi 94B cs

$p\, n\, K^+ X$
0.3811 Berdnikov 96B ang,angp,cs,p

nucleus 3shower X
70 Elnadi 94B angp,col,p

$n K^+$ fragt
0.4873 Berdnikov 96 angp,p

K^+ deuteron

X
0.488 Weiss 94 a-dep,cs
0.531 Weiss 94 a-dep,cs
0.656 Weiss 94 a-dep,cs
0.714 Weiss 94 a-dep,cs

$K^+ X$
0.705 Kormanyos 95 a-dep,angp,p

$K^+ {}^6\mathrm{Li}$

X
0.488 Friedman 97 cs
Weiss 94 a-dep,cs
0.531 Friedman 97 cs
Weiss 94 a-dep,cs
0.656 Friedman 97 cs
Weiss 94 a-dep,cs
0.713 Friedman 97 cs
0.714 Weiss 94 a-dep,cs

inelastic
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

${}^6\mathrm{Li}\, K^+$
0.715 Chrien 97 angp
Michael 96 angp

${}^6\mathrm{Li}^*\, K^+$
0.715 Chrien 97 angp

K^+ Be

$D^+ X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^0 X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0 X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$D^- X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^+ X$
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^- X$
250 Alves 96B a-dep,cs,p,pt

$D_s^+ X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D_s^- X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$\Lambda_c^+ X$
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^- X$
250 Alves 96B a-dep,cs,p,pt

$K^+ 2\pi^- X$
250 Appel 94 mass

K^+ Be

$K^- 2\pi^+ X$
250 Appel 94 mass

$K^+ K^- \pi^+ X$
250 Appel 94 mass

$K^+ K^- \pi^- X$
250 Appel 94 mass

K^+ C

X
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

inelastic
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

$K^+ X$
0.705 Kormanyos 95 a-dep,angp,p

$C\, K^+$
0.715 Michael 96 angp

$K^+ {}^{12}\mathrm{C}$

X
0.488 Weiss 94 a-dep,cs
0.531 Weiss 94 a-dep,cs
0.656 Weiss 94 a-dep,cs
0.714 Weiss 94 a-dep,cs

${}^{12}\mathrm{C}\, K^+$
0.635 Chrien 97 angp
0.715 Chrien 97 angp

${}^{12}\mathrm{C}^*\, K^+$
0.635 Chrien 97 angp
0.715 Chrien 97 angp

K^+ Mg

$\pi^+ X$
100 Whitmore 94 mult,p,pt

$\pi^- X$
100 Whitmore 94 mult,p,pt

$p X$
100 Whitmore 94 mult,p

K^+ Al

mult[charged] X
250 Dewolf 96B mult,p

DD < X > K^+
250 Dewolf 96 angp,cs

$K^+ X$
250 Dewolf 96 p

$D^+ X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^0 X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0 X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$D^- X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^+ X$
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^- X$
250 Alves 96B a-dep,cs,p,pt

$D_s^+ X$
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

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K^+ Al

D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

p X
250 Agababyan 95 angp,mult,p,pt

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

$2\pi^-$ X
250 Agababyan 95B ang,cor,p,pt

K^+ mult[charged] X
250 Dewolf 96 mult,p

DD < mult[charged$^+$] X > K^+
250 Dewolf 96 mult

DD < mult[charged$^-$] X > K^+
250 Dewolf 96 mult

DD < charged X > K^+
250 Dewolf 96 angp,pt

DD < charged$^-$ X > K^+
250 Dewolf 96 angp

DD < mult[p] X > K^+
250 Dewolf 96 mult

DD < p X > K^+
250 Dewolf 96 angp,pt

$2p$ X
250 Agababyan 95 angp,cs,p

p fragt X
250 Agababyan 95 angp,cs,p

Al mult[charged] X
250 Dewolf 96B cs

K^+ $2\pi^-$ X
250 Appel 94 mass

K^- $2\pi^+$ X
250 Appel 94 mass

K^+ K^- π^+ X
250 Appel 94 mass

K^+ K^- π^- X
250 Appel 94 mass

Al 3charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Al 2charged$^+$ charged$^-$ X
250 Dewolf 96B p

Al $2\pi^+$ π^- X
250 Dewolf 96B cs

Al γ 3charged X
250 Dewolf 96B p

Al 5charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Al 3charged$^+$ 2charged$^-$ X
250 Dewolf 96B p

Al γ 5charged X
250 Dewolf 96B p

Al 7charged X
250 Dewolf 96B cs

K^+ Si

X
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

inelastic
0.488 Friedman 97 cs

K^+ Si

inelastic
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

K^+ ^{28}Si

X
0.488 Weiss 94 a-dep,cs
0.531 Weiss 94 a-dep,cs
0.656 Weiss 94 a-dep,cs
0.714 Weiss 94 a-dep,cs

K^+ Ca

X
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

inelastic
0.488 Friedman 97 cs
0.531 Friedman 97 cs
0.656 Friedman 97 cs
0.713 Friedman 97 cs

K^+ X
0.705 Kormanyos 95 a-dep,angp,p

K^+ ^{40}Ca

X
0.488 Weiss 94 a-dep,cs
0.531 Weiss 94 a-dep,cs
0.656 Weiss 94 a-dep,cs
0.714 Weiss 94 a-dep,cs

K^+ Cu

K_S X
10.5 Blick 94 –

D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

e^- e^+ X
10.5 Blick 94 mass

$2\pi^0$ X
10.5 Blick 94 mass,p

π^+ π^- X
10.5 Blick 94 mass,p

K^+ $2\pi^-$ X
250 Appel 94 mass

K^+ Cu

K^- $2\pi^+$ X
250 Appel 94 mass

K^+ K^- π^+ X
250 Appel 94 mass

K^+ K^- π^- X
250 Appel 94 mass

4γ X
10.5 Blick 94 mass,p

K^+ Ag

π^+ X
100 Whitmore 94 mult,p,pt

π^- X
100 Whitmore 94 mult,p,pt

p X
100 Whitmore 94 mult,p

K^+ Wt

D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

K^+ $2\pi^-$ X
250 Appel 94 mass

K^- $2\pi^+$ X
250 Appel 94 mass

K^+ K^- π^+ X
250 Appel 94 mass

K^+ K^- π^- X
250 Appel 94 mass

K^+ Au

mult[charged] X
250 Dewolf 96B mult,p

π^+ X
100 Whitmore 94 mult,p,pt

π^- X
100 Whitmore 94 mult,p,pt

K^+ X
250 Dewolf 96 p

DD < X > K^+
250 Dewolf 96 angp,cs

p X
100 Whitmore 94 mult,p

K^+ Au

p X
250 Agababyan 95 angp,mult,p,pt

$2\pi^-$ X
250 Agababyan 95B ang,cor,p,pt

K^+ mult[charged] X
250 Dewolf 96 mult,p

DD < mult[charged] X > K^+
250 Dewolf 96 mass,mult

DD < mult[charged$^+$] X > K^+
250 Dewolf 96 mult

DD < mult[charged$^-$] X > K^+
250 Dewolf 96 mult

DD < charged X > K^+
250 Dewolf 96 angp,pt

DD < charged$^-$ X > K^+
250 Dewolf 96 angp

DD < mult[p] X > K^+
250 Dewolf 96 mult

DD < p X > K^+
250 Dewolf 96 angp,pt

$2p$ X
250 Agababyan 95 angp,cs,p

p fragt X
250 Agababyan 95 angp,cs,p

Au mult[charged] X
250 Dewolf 96B cs

Au 3charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Au 2charged$^+$ charged$^-$ X
250 Dewolf 96B p

Au $2\pi^+ \pi^-$ X
250 Dewolf 96B cs

Au γ 3charged X
250 Dewolf 96B p

Au 5charged X
250 Dewolf 96B a-dep,cs,mult,p,pt

Au 3charged$^+$ 2charged$^-$ X
250 Dewolf 96B p

Au γ 5charged X
250 Dewolf 96B p

Au 7charged X
250 Dewolf 96B cs

K^+ Pb

mult[n] X
2 Pienkowski 97 mult
3 Pienkowski 97 mult
4 Pienkowski 97 mult
5 Pienkowski 97 mult

K^+ X
0.705 Kormanyos 95 a-dep,angp,p

K^0 nucleus

K^+ X
0.8 Apostolakis 97 cs,p

K^0 Cu

Cu $\pi^+ \pi^-$
0.25 – 0.75 Angelopoulos 97 amp

$\overline{K}^0$ nucleus

K^+ X
0.8 Apostolakis 97 cs,p

K^- X
0.8 Apostolakis 97 cs,p

$\overline{K}^0$ Cu

Cu $\pi^+ \pi^-$
0.25 – 0.75 Angelopoulos 97 amp

$K^- \pi^+$

$f_0(400-1200)$
(0.9) Ishida 97 cs

$K_2^*(1430)^0$
(1.43) Ishida 97 cs

$K^- \pi^+$
(< 1.6) Ishida 97 amp,pwa

K^- nucleon

$D^\pm$ X
250 Wallace 94 cs

D^+ X + D^- X
250 Karchin 95 cs,p,pt

D^0 X + $\overline{D}^0$ X
250 Karchin 95 cs,p,pt

$D_s^\pm$ X
250 Wallace 94 cs

D_s^+ X + D_s^- X
250 Karchin 95 cs,p,pt

$K^*(892)^0$ K^- X + $\overline{K}^*(892)^0$ K^+ X
250 Karchin 95 mass
Wallace 94 mass

$\phi(1020)$ π^+ X + $\phi(1020)$ π^- X
250 Karchin 95 mass
Wallace 94 mass

K^+ $2\pi^-$ X + K^- $2\pi^+$ X
250 Karchin 95 mass
Wallace 94 mass

$K^- p$

mult[charged] X
32 Bogolyubsky 94 col,mult,p

γ X
0. Iwasaki 97 p

$K^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\overline{K}^*(892)^0$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

$\phi(1020)$ X
80 Apsimon 93 angp,p,pt
140 Apsimon 93 angp,p,pt

Y^*(unspec) X
11 Landsberg 94C –

2charged (chargeds) X
32 Bogolyubsky 95 cor,mult,p
32.1 Boos 95 col,cor,p

Ξ^- K (hadrons) X
11 Landsberg 94C ang,cs,mass,p,pt

$(K^-p)^*_{atom}$
0. Iwasaki 97 –

p K^-
5.9 White 94B angp

p $K^*(892)^-$
5.9 White 94B angp

hyperon $f_J(1710)$
38 Kulik 94 –

Λ meson^0
11 Aston 94 angp,cs

Λ π^0
5.9 White 94B angp

Λ ρ^0
11 Aston 94 angp,cs

$K^- p$

Λ ω
11 Aston 94 angp,cs

Λ $f_2(1270)$
11 Aston 94 angp,cs

Λ $\rho_3(1690)^0$
11 Aston 94 angp,cs

$\Sigma^+ \pi^-$
0.44 Lach 94 ang
0.46 Lach 94 ang
0.48 Lach 94 ang
0.5 Lach 94 ang
5.9 White 94B angp

$\Sigma^- \pi^+$
5.9 White 94B angp

$\Sigma^- K^+$
1.8 Chrien 98 p

Y^*(unspec) π^+
6.6 Landsberg 94C angp,cs
8.25 Landsberg 94C angp,cs

$\Xi^- K^+$
1.66 Aoki 98B cs

n $K^- \pi^+$
11 Ishida 97 amp,angp,mass,p,pwa

hyperon 2η
38 Kulik 94 angp,mass

hyperon $2K_S$
38 Kulik 94 angp,mass

Λ $\pi^+ \pi^-$
11 Achasov 96 cs,mass,pwa
Aston 94 angp,mass,pwa

Λ $2\phi(1020)$ + Σ^0 $2\phi(1020)$
8 Landberg 96 cs,mass

Ω^- $K^+ K^0$
8.25 Landsberg 94C mass

$(K^-p)^*_{atom}$ < $(K^-p)_{atom}$ γ >
0. Ito 98 p,pwa

Λ $K^+ \overline{K}^0 \pi^-$
8.25 Landsberg 94C mass

Λ $K^+ K^- \phi(1020)$ +
Σ^0 $K^+ K^- \phi(1020)$
8 Landberg 96 cs,mass

Σ^0 $K^+ \overline{K}^0 \pi^-$
8.25 Landsberg 94C mass

Σ^- $K^+ \overline{K}^0 \pi^0$
8.25 Landsberg 94C mass

Ω^- $2K^+ \pi^-$
8.25 Landsberg 94C mass

Ω^- $K^+ K^0 \pi^0$
8.25 Landsberg 94C mass

Ω^- $2K^0 \pi^+$
8.25 Landsberg 94C mass

Λ $K^+ \overline{K}^0 \pi^0 \pi^-$
8.25 Landsberg 94C mass

Λ $K^0 K^- \pi^+ \pi^0$
8.25 Landsberg 94C mass

Λ $2K^+ 2K^-$ + Σ^0 $2K^+ 2K^-$
8 Landberg 96 cs,mass

Σ^+ K^- kaon $\pi^+ \pi^-$
8.25 Landsberg 94C mass

K^- nucleus

K^+ X
1.66 Aoki 98B angp,p
Nakazawa 98 p

K^+ charged X
1.66 Aoki 98B mult

Ξ^- K^+ X
1.66 Aoki 95B p

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K^- nucleus

nucleus mult[shower] X		
70	Elnadi 94B	mult
nucleus shower X		
70	Elnadi 94B	cs
dibaryon($S=-2$) K^+ X		
1.66	Itow 94	p
$p\ \Sigma^-\ K^+$ X		
1.66	Itow 94	ang,p

K^- ^{3}He

K^+ X		
1.8	Stotzer 97	cs,mass
2	Chrien 98	cs,mass
dibaryon($S=-2$) $n\ K^+$		
1.8	Stotzer 97	cs

K^- ^{4}He

π^+ X		
0.6	Nagae 98	angp,cs,p
	Sawafta 98	angp,p
π^- X		
0.	Outa 98	p
0.6	Nagae 98	angp,cs,p
	Sawafta 98	angp,p
0.75	Zeps 98	p
^{4}He$_s$ π^-		
0.6	Nagae 98	angp

K^- ^{6}Li

π^+ X		
0.6	Sawafta 98	angp,p
π^- X		
0.6	Sawafta 98	angp,p

K^- Be

D^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D^0 X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
$\overline{D}^0$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
D^- X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
$D^*(2010)^+$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$D^*(2010)^-$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
D_s^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D_s^- X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
Λ_c^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$\overline{\Lambda}_c^-$ X		
210	Alves 96B	a-dep,cs,p,pt

K^- Be

$\overline{\Lambda}_c^-$ X		
250	Alves 96B	a-dep,cs,p,pt
$K^+\ 2\pi^-$ X		
250	Appel 94	mass
$K^-\ 2\pi^+$ X		
250	Appel 94	mass
$K^+\ K^-\ \pi^+$ X		
250	Appel 94	mass
$K^+\ K^-\ \pi^-$ X		
250	Appel 94	mass

K^- ^{9}Be

π^+ X		
0.	Kubota 96B	cs,p
0.6	Sawafta 98	angp,p
π^- X		
0.6	Sawafta 98	angp,p
^{9}He$_s$ π^+		
0.	Kubota 96B	cs
^{9}Be$_s$ π^-		
0.	Kubota 96B	cs

K^- ^{12}C

π^+ X		
0.	Kubota 96B	cs,p
π^0 X		
0.	Comfort 98	p
K^+ X		
1.8	Lowe 98	mass
$\Xi^-\ K^+$ X		
1.6	Nakazawa 98	angp,cs,p
1.8	Lowe 98	cs
Ξ^*(unspec) K^+ X		
1.66	Ahn 97	angp,cs,p
$\Lambda\ K^+\ f_0(980)$ X		
1.66	Ahn 97	angp,cs,p
$\Lambda\ K^+\ a_0(980)^0$ X		
1.66	Ahn 97	angp,cs,p
$\Lambda\ K^+\ \phi(1020)$ X		
1.66	Ahn 97	angp,cs,p
$2\Lambda\ K^+$ X		
1.66	Ahn 98	angp,mass,p
	Ahn 98D	ang,angp,mass,p
	Ahn 97	angp,cs,p
$\Lambda\ \Sigma^-\ K^+$ X		
1.66	Ahn 97	angp,cs,p
$\Sigma^+\ \Sigma^-\ K^+$ X		
1.66	Ahn 97	angp,cs,p
^{12}Be$_s$ π^+		
0.	Kubota 96B	cs
^{12}Be$_{ss}$ K^+		
1.66	Fukuda 98H	mass,p
^{12}C$_s$ π^-		
0.	Kubota 96B	cs

K^- ^{13}C

π^- X		
0.75	May 97	mass
^{13}C$_s^*$ π^-		
0.75	May 97	–

K^- ^{16}O

π^+ X		
0.	Kubota 96B	cs,p
^{16}C$_s$ π^+		
0.	Kubota 96B	cs
^{16}O$_s$ π^-		
0.	Kubota 96B	cs

K^- Al

D^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D^0 X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
$\overline{D}^0$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
D^- X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
$D^*(2010)^+$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$D^*(2010)^-$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
D_s^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D_s^- X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
Λ_c^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$\overline{\Lambda}_c^-$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$K^+\ 2\pi^-$ X		
250	Appel 94	mass
$K^-\ 2\pi^+$ X		
250	Appel 94	mass
$K^+\ K^-\ \pi^+$ X		
250	Appel 94	mass
$K^+\ K^-\ \pi^-$ X		
250	Appel 94	mass

K^- Cu

D^+ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D^0 X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
$\overline{D}^0$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
D^- X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
$D^*(2010)^+$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt
$D^*(2010)^-$ X		
210	Alves 96B	a-dep,cs,p,pt
250	Alves 96B	a-dep,cs,p,pt

K^- Cu

D_s^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

Λ_c^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$K^+ 2\pi^-$ X
250 Appel 94 mass

$K^- 2\pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^-$ X
250 Appel 94 mass

K^- Wt

D^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D^0 X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

$\overline{D}^0$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt

D^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

$D^*(2010)^+$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$D^*(2010)^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

D_s^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

D_s^- X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p

Λ_c^+ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
210 Alves 96B a-dep,cs,p,pt
250 Alves 96B a-dep,cs,p,pt

$K^+ 2\pi^-$ X
250 Appel 94 mass

$K^- 2\pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^+$ X
250 Appel 94 mass

K^- Wt

$K^+ K^- \pi^-$ X
250 Appel 94 mass

K_L Be

X
0.114 Akhmetshin 97 cs

Be K_S
0.114 Akhmetshin 97 angp,cs
Akhmetshin 95B cs

$J/\psi(1S)$ nucleon

X
40 – 280 Arneodo 94 cs
150 Arneodo 95D cs

nucleon nucleon

charged$^-$ X
200 Sollfrank 94 mult

K^+ X
200 Sollfrank 94 mult

K^- X
200 Sollfrank 94 mult

p X
200 Sollfrank 94 mult

$\overline{p}$ X
200 Sollfrank 94 mult

Λ X
200 Sollfrank 94 mult

$\overline{\Lambda}$ X
200 Sollfrank 94 mult

(showers) 11shower X
$< 2.4 \cdot 10^5$ Shivpuri 94 col,mult,p

nucleon nucleus

(showers) 11shower X
$< 2.4 \cdot 10^5$ Shivpuri 94 col,mult,p

p nucleon

mult[charged] X
800 Parashar 94 col,mult,p
Parashar 94B col,mult,p

mult[shower] X
800 Malik 95 mult,p

hadron X
(3000 – 6000) Danilova 97 p

π^0 X
70 Golovkin 97B p,pt
Balatz 96 cs,p,pt
Golovkin 96 cs,p
Vavilov 95C angp,cs,p,pt
Landsberg 94B cs,p

π^- X
21 Tretyakova 95 mult,p

η X
70 Golovkin 97B p,pt
Balatz 96 cs,p,pt
Golovkin 96 cs,p
Vavilov 95C angp,cs,p,pt
Landsberg 94B cs,p

ω X
70 Golovkin 97B p,pt
Balatz 96 cs,p,pt
Golovkin 96 cs,p
Vavilov 95C angp,cs,p,pt
Landsberg 94B cs,p

K^0 X
70 Golovkin 97B p,pt
Vavilov 96 cs,p,pt

charm X
10^5 Zatsepin 97 cs
Zatsepin 94B cs

p nucleon

$D^\pm$ X
250 Wallace 94 cs

D^+ X + D^- X
250 Karchin 95 cs,p,pt

D^0 X + $\overline{D}^0$ X
250 Karchin 95 cs,p,pt

$D_s^\pm$ X
250 Wallace 94 cs

D_s^+ X + D_s^- X
250 Karchin 95 cs,p,pt

exotic-meson X
400 Bertolotto 94 cs

p X
21 Tretyakova 95 mult,p

2charged X
200 Belaga 94B cor,p
400 Belaga 94B cor,p
800 Parashar 94 cor,p
Parashar 94B cor,p

2γ X
70 Balatz 96 mass,p
Landsberg 94B mass

$\pi^0 \gamma$ X
70 Balatz 96 angp,mass,p
Landsberg 94B mass

$K^*(892)^0 K^-$ X + $\overline{K}^*(892)^0 K^+$ X
250 Karchin 95 mass
Wallace 94 mass

$\phi(1020) \pi^+$ X + $\phi(1020) \pi^-$ X
250 Karchin 95 mass
Wallace 94 mass

$B \overline{B}$ X
800 Alexopoulos 97B cs

3charged X
200 Belaga 94B cor,p
400 Belaga 94B cor,p

(showers) 2shower X
200 Belaga 95F ang,col,cor
Belaga 94C ang,col,cor
400 Belaga 95F ang,col,cor
Belaga 94C ang,col,cor

3γ X
70 Landsberg 94B mass

$K^+ 2\pi^-$ X + $K^- 2\pi^+$ X
250 Karchin 95 mass
Wallace 94 mass

$K^+ K^- \phi(1020)$ X
400 Bertolotto 94 mass

nucleon $\Sigma(1385\, P_{13})^0 K^+$ (neutrals)
70 Landsberg 94B cs,mass,pt
Landsberg 94C cs,mass,pt

4charged X
200 Belaga 94B cor,p
400 Belaga 94B cor,p

$2K^+ 2K^-$ X
400 Bertolotto 94 mass

nucleon $\Lambda K^+ \pi^0$ (neutrals)
70 Landsberg 94B cs,mass,pt
Landsberg 94C cs,mass,pt

5charged X
200 Belaga 94B cor,p
400 Belaga 94B cor,p

7charged X
200 Belaga 94B cor,p
400 Belaga 94B cor,p

(showers) 10shower X
800 Parashar 95B angp,col,p

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p nucleon

nucleon baryon

70	Vavilov 94B	cs

nucleon exotic-nucleon

70	Bezzubov 96	–
	Balatz 94B	cs,pt
	Landsberg 94B	cs
	Landsberg 94C	cs,pt

nucleon $N(2000\,B)^+$

70	Bezzubov 96	–

nucleon $N\phi(1950)^+$

70	Landsberg 94B	cs

p nucleon meson^0

70	Vavilov 94B	cs

p nucleon η

70	Landsberg 94B	angp,mass

DD $< p\,\eta >$ nucleon

70	Bezzubov 96	mass,pt

p nucleon ω

70	Golovkin 97	mass
	Landsberg 94B	angp,mass

p nucleon η'

70	Landsberg 94B	angp,mass

p nucleon $\phi(1020)$

70	Golovkin 97	mass
	Balatz 94B	cs,mass,pt
	Landsberg 94B	cs,mass,pt
	Landsberg 94C	cs,mass,pt
	Vavilov 94C	mass,pt

nucleon $\Delta(1232\,P_{33})^{++}\,\pi^-$

70	Landsberg 94C	cs,mass,pt

nucleon $\Lambda\,K^+$

70	Bezzubov 96	mass,pt
	Landsberg 94B	angp,mass

nucleon $\Lambda(1405\,S_{01})\,K^+$

70	Landsberg 94B	angp,mass

nucleon $\Lambda(1520\,D_{03})\,K^+$

70	Balatz 94B	cs,mass,pt
	Landsberg 94B	cs,mass,pt
	Landsberg 94C	cs,mass,pt
	Vavilov 94C	mass,pt

nucleon $\Sigma^0\,K^+$

70	Bezzubov 96	mass,pt
	Landsberg 94C	cs,mass,pt

nucleon $\Sigma(1385\,P_{13})^0\,K^+$

70	Balatz 94B	cs,mass,pt
	Landsberg 94B	cs,mass,pt
	Landsberg 94C	mass,pt
	Vavilov 94	mass

p nucleon $\pi^+\,\pi^-$

70	Landsberg 94C	cs,mass,pt

p nucleon $K^+\,K^-$

32.5	Golovkin 97	cs
70	Balatz 94B	cs,mass,pt
	Landsberg 94B	cs,mass,pt
	Landsberg 94C	cs,mass,pt
	Vavilov 94C	mass,pt

$2p\,\overline{p}$ nucleon

70	Landsberg 94B	angp,mass
	Landsberg 94C	mass,pt

p nucleon

$2p\,\overline{p}$ nucleon

70.93	Vavilov 94B	mass,pt

nucleon $\Lambda\,K^+\,\gamma$

70	Landsberg 94C	cs,mass,pt

nucleon $\Lambda\,K^+\,\pi^0$

70	Balatz 94B	cs,mass,pt
	Landsberg 94B	cs,mass,pt
	Landsberg 94C	cs,mass,pt

p nucleon $\pi^+\,\pi^0\,\pi^-$

32.5	Golovkin 97	cs

$2p\,\overline{p}$ nucleon π^0

70	Landsberg 94B	angp,mass
	Landsberg 94C	mass,pt
70.93	Vavilov 94B	mass,pt

$2p\,\overline{p}$ nucleon 2γ

70	Landsberg 94C	mass,pt
70.93	Vavilov 94B	mass,pt

$p\,p$

X

$(10 - 10^5)$	Wibig 98	cs
200	Grosnick 97	asym
$1.5 \cdot 10^7 - 4 \cdot 10^8$	Bellandi 95	cs

inelastic

$(10 - 10^5)$	Wibig 98	cs

mult[charged] X

32	Bogolyubsky 94	col,mult,p
147	Arena 95	mult
400	Shaoshun 95	ang,angp,col,mult,p
	Zhang 95	angp,col,p

charged X

(52.6)	Goulianos 94	mult

charged$^+$ X

(31)	Breakstone 95	p,pt
(44)	Breakstone 95	p,pt
(62)	Breakstone 95	p,pt

charged$^-$ X

1.424 – 405	Gazdzicki 95	mult
(31)	Breakstone 95	p,pt
(44)	Breakstone 95	p,pt
(62)	Breakstone 95	p,pt

mult[charged] (neutrals)

800	Dremin 94	mult

γ X

200	Vogelsang 97	pt
	Adams 95II	asym,p,pt
280	Vogelsang 97	p,pt
300	Vogelsang 97	pt
(24.3)	Werlen 99	const,p,pt
	Ballocchi 98	p,pt
	Vogelsang 97	pt
	Ballocchi 94	const,p,pt
(63)	Vogelsang 97	pt

π^+ X

0.5898 – 1.09	Jakobsson 98	cs
1.5	Abramov 98	mass
	Abramov 98B	mass
24	Amaglobeli 96	cs
40	Abramov 96	asym,p,pt
69	Boos 94	p,pt

π^0 X

70	Belikov 96	asym
200	Adams 94C	asym,p,pt

π^- X

24	Amaglobeli 96	cs
40	Abramov 96	asym,p,pt
69	Boos 94	p,pt

η X

200	Adams 97E	asym,p,pt

$p\,p$

ρ^0 X

32	Bogolyubsky 97	cs,p,pt
	Kostin 96	cs,p,pt
	Minaenko 94	p,pt

ω X

360	Sapozhnikov 95	cs

$f_2(1270)$ X

32	Bogolyubsky 97	cs,p,pt
	Kostin 96	cs,p,pt

K^+ X

2.807 – 498	Gazdzicki 96	mult
3 – 13	Ogilvie 97	mult
3.099	Siebert 94	angp,mass
3.515	Siebert 94	angp,mass
40	Abramov 96	asym,p,pt

K^- X

3 – 13	Ogilvie 97	mult
12.5 – 498	Gazdzicki 96	mult
24	Amaglobeli 96	cs,p,pt
40	Abramov 96	asym,p,pt

K_S X

3.677 – 405	Gazdzicki 96	mult

$\phi(1020)$ X

360	Sapozhnikov 95	cs

D^+ X

400	Slaughter 96	angp,cs,p,pt

D^0 X

400	Slaughter 96	angp,cs,p,pt

$\overline{D}^0$ X

400	Slaughter 96	angp,cs,p,pt

D^- X

400	Slaughter 96	angp,cs,p,pt

$D^*(2010)^+$ X

400	Slaughter 96	angp,cs,p,pt

$D^*(2010)^-$ X

400	Slaughter 96	angp,cs,p,pt

$D^*(2007)^0$ X

400	Slaughter 96	angp,cs,p,pt

$\overline{D}^*(2007)^0$ X

400	Slaughter 96	angp,cs,p,pt

D_s^+ X

400	Slaughter 96	angp,cs,p,pt

D_s^- X

400	Slaughter 96	angp,cs,p,pt

$J/\psi(1S)$ X

450	Abreu 98P	cs
	Baglin 98	cs

$\psi(2S)$ X

450	Abreu 98P	cs

$\Upsilon(1S)$ X

800	Mcgaughey 94	p,pt

p X

24	Amaglobeli 96	cs
40	Abramov 96	asym,p,pt
800	Gutierrez 94	angp,mass

$\overline{p}$ X

40	Abramov 96	asym,p,pt

Λ X

2.807 – 405	Gazdzicki 96	mult
200	Bravar 97	asym,p,pol,pt
	Bravar 95	asym,p,pol,pt

$\overline{\Lambda}$ X

12 – 405	Gazdzicki 96	mult

$p\,p$

Λ_c^+ X
400 Slaughter 96 angp,cs,p,pt

$\overline{\Lambda}_c^-$ X
400 Slaughter 96 angp,cs,p,pt

dibaryon X
1.5 Abramov 98 cs
Abramov 98B cs

$2e^-$ X
5.762 Huang 94 mass,pt

$e^-\,e^+$ X
1.73 Wilson 97 cs,mass,p,pt
Wilson 94 cs
1.988 Wilson 97 cs,mass,p,pt
Wilson 94 cs
2.359 Wilson 97 cs,mass,p,pt
Wilson 94 cs
2.626 Wilson 97 cs,mass,p,pt
Wilson 94 cs
2.858 Wilson 97 cs,mass,p,pt
Wilson 94 cs
5.762 Wilson 97 cs,mass,p,pt
Wilson 94 cs

$\mu^-\,\mu^+$ X
450 Abreu 98P cs,mass
Baldit 94 cs,mass,p
Nassalski 94 cs,mass,p
800 Hawker 98 mass,p,pt
Peng 98 mass,p
Mcgaughey 94 mass,p,pt

charged (chargeds) X
400 Wang 98B col,cor,p

charged mult[charged] X
400 Wang 98C col,cor,p
Ye 97 angp,col,cor,p

2charged X
400 Wang 95C cor,p

2γ X
2.032 Chiavassa 94B mass
2.25 Chiavassa 94B mass
200 Adams 94B asym,mass
(63) Vogelsang 97 mass,p

$\bar{c}\,c$ X
70 Ardashev 97 cs
200 Lourenco 94 cs
Lourenco 93 cs

$2\pi^0$ X
200 Adams 94B asym,mass

$\pi^+\,\pi^-$ X
32 Kostin 96 mass,p,pt
Minaenko 94 amp,mass,p

ρ^0 mult[charged] (neutrals)
32 Bogolyubsky 97 cs,mult

$f_2(1270)$ mult[charged] (neutrals)
32 Bogolyubsky 97 cs,mult

K^- mult[charged] (neutrals)
24 Amaglobeli 96 cs,mult

K_S (charged-hadrons) X
200 Seyboth 97 mult

$K^+\,K^-$ X
3.67 Chalyshev 98 mass

charmed-meson $\overline{\text{charmed-meson}}$ X
70 Ardashev 97 cs,p

$D^+\,\overline{D}^0$ X
400 Slaughter 96 cor,cs,mass,p,pt

$D^0\,\overline{D}^0$ X
400 Slaughter 96 cor,cs,mass,p,pt

$D^+\,D^-$ X
400 Slaughter 96 cor,cs,mass,p,pt

$p\,p$

$D^0\,D^-$ X
400 Slaughter 96 cor,cs,mass,p,pt

$p\,\pi^+$ X
2.272 Tatischeff 98 angp,mass,p,pol
Yonnet 98 angp,mass,pol
Tatischeff 97 angp,cs,mass
2.578 Tatischeff 98 angp,mass,p,pol
Yonnet 98 angp,mass,pol
Tatischeff 97 angp,cs,mass
2.89 Tatischeff 98 angp,mass,p,pol
Yonnet 98 angp,mass,pol
Tatischeff 97 angp,cs,mass

$p\,\omega$ X
70 Sapozhnikov 95 cs

$p\,K^+$ X
2.333 Balewski 98C mass
2.342 Balewski 98C mass
2.342 – 2.36 Balewski 98 cs,mass
2.345 Balewski 96 mass,p
2.351 Balewski 98C mass
2.36 Balewski 98C mass
2.581 Balewski 98C mass
3.67 Chalyshev 98 mass

$p\,\phi(1020)$ X
70 Sapozhnikov 95 cs

$2p$ X
0.8233 Zlomanczuk 98B mass
0.943 Nomachi 98 mass
1.658 – 1.744 Hibou 99 mass,p
2.226 Hibou 98 mass,p
2.242 Hibou 98 mass,p
3.201 – 3.221 Moskal 98 cs,mass
800 Gutierrez 94 angp,mass

Λ (charged-hadrons) X
200 Seyboth 97 mult

$\overline{\Lambda}$ (charged-hadrons) X
200 Seyboth 97 mult

$\Lambda\,\gamma$ X
27.5 Wang 97 mass

charmed-baryon $\overline{\text{charmed-meson}}$ X
70 Ardashev 97 cs,p

2charged (chargeds) X
32 Bogolyubsky 95 cor,mult,p
69 Boos 95 col,cor,p
400 Boos 95 col,cor,p
Wang 95B col,mult,p

3charged X
400 Wang 95C cor,p

π^+ mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

π^- mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

K^- mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

p mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

$2p\,K^+$ X
3.321 Balewski 98C mass

3charged (chargeds) X
400 Wang 98 col,p

$p\,p$

4charged X
400 Wang 95C cor,p

$2p\,\pi^+\,\pi^-$ X
3.67 Chalyshev 98 mass

$2p\,K^+\,K^-$ X
800 Gutierrez 94 mass

$2p\,2K_S$ X
800 Gutierrez 94 mass,pt

$2p\,2\phi(1020)$ X
800 Gutierrez 94 mass

4charged (chargeds) X
400 Shaoshun 98 col,mult,p
Wang 98D col,cor,p
Wang 97B ang,col,cor
Wang 95C col,p
Wang 94C col,mult,p
Wang 94D col,mult,p
Wang 94E col,p

4charged mult[charged] X
400 Wang 97D angp,col,cor

5charged X
400 Wang 95C cor,p

$2p\,K^+\,K_S\,\pi^-$ X
800 Gutierrez 94 mass,pt

$2p\,K_S\,K^-\,\pi^+$ X
800 Gutierrez 94 mass,pt

$2p\,2K^+\,2K^-$ X
800 Gutierrez 94 mass,pt

10charged (chargeds) X
400 Wang 95C col,p
Wang 94D col,mult,p
Wang 94E col,p

dibaryon
(2.735) Ball 94B cs

n charged^{++}
1.037 Ram 93 cs

$2p$
0.02373 – 0.02764 Dombrowski 97 angp
0.221 Clajus 95 angp,pol,pwa
Kretschmer 94 angp,pol,pwa
0.5 – 2 Kobayashi 91 asym,mass,pol
0.6398 Rathmann 98 angp,pol
0.6406 Haeberli 97 angp,asym,pol
0.6809 Berdoz 98 asym
0.7291 – 1.022 Przewoski 98 angp,cor,p,pol
1.079 – 1.455 Simon 96 angp
1.087 Hoffmann 94 angp,pol
1.1 – 3.3 Albers 97 angp
1.36 Alekseev 99 angp,pol
< 1.6 Arndt 94 pwa
1.6 Alekseev 99 angp,pol
1.698 – 2.638 Allgower 98B angp,pol
1.78 Alekseev 99 angp,pol
2.02 Alekseev 99 angp,pol
2.572 Allgower 98 angp,pol
2.742 – 3.026 Ball 94B angp,cs,pol
2.763 – 3.463 Allgower 98C angp,pol
2.89 Allgower 98 angp,pol
2.953 Arvieux 98 angp,asym,p,pol
2.953 – 3.079 Arvieux 97 pol
2.974 Arvieux 98 angp,asym,p,pol
2.995 Arvieux 98 angp,asym,p,pol
3.016 Arvieux 98 angp,asym,p,pol
3.037 Arvieux 98 angp,asym,p,pol
3.057 Arvieux 98 angp,asym,p,pol
3.079 Arvieux 98 angp,asym,p,pol

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are $p_{\rm lab}$ in GeV/c, or in parentheses $E_{\rm cm}$ in GeV.

$p\,p$

$2p$

5.9	Mardor 98	angp,cs
	White 94B	angp
7.5	Mardor 98	angp,cs

$n\ \Delta(1232\,P_{33})^{++}$

1.67 – 6	Hlavacova 97	cs
2.16	Glagolev 97	cs
2.272	Yonnet 98	pol
2.578	Yonnet 98	pol
2.89	Yonnet 98	pol

$p\ \Delta(1232\,P_{33})^{+}$

1.67 – 6	Hlavacova 97	cs
2.16	Glagolev 97	cs

$\Delta(1232\,P_{33})^{++}\ \Delta(1232\,P_{33})^{0}$

2.272	Yonnet 98	pol
2.578	Yonnet 98	pol
2.89	Yonnet 98	pol

deuteron π^+

0.02272 – 0.0852	Drochner 96	angp,cs
0.7889 – 0.8005	Macher 98	ang,cs,p,pwa
0.7891 – 0.799	Heimberg 96	angp,asym,cs
0.7898 – 0.8005	Fortsch 98	angp,cs
0.7899 – 0.8005	Razen 97	angp,cs
0.793	Machner 96	angp,cs
0.8	Machner 96	angp,cs
0.9543	Betsch 98	angp,cs,mass
1.194 – 2.032	Furget 98	pol
1.696 – 2.032	Goy 98	angp,p,pol

dibaryon$^+$ π^+

1.604	Vorobiev 98	cs
	Efremenko 94	cs,mass

dibaryon^{+++} π^-

1.604	Vorobiev 98	cs

^{2}He π^0

0.941	Matsuoka 95	angp

p baryon π^+

2.272	Tatischeff 97	cs
2.578	Tatischeff 97	cs
2.89	Tatischeff 97	cs

$2p$ neutral

450	Barberis 96B	pt

$2p\ \gamma$

0.6266	Kalantarnaye 98	angp,asym
0.8233	Zlomanczuk 98B	angp,mass,p
0.943	Nomachi 98	angp

$2p$ meson^0

450	Ishida 95	cs

$2p\ \pi^0$

0.325 – 1.012	Rappenecker 95	angp,asym,cs,p
0.6 – 0.9	Andreev 94	angp,cs,mass,p
0.7771 – 0.8233	Bilger 97	cs,mass
0.7771 – 0.8263	Johansson 98B	cs
0.7782 – 0.8236	Bondar 95	angp,cs,mass,p
0.8233	Zlomanczuk 98	amp,angp
0.8468	Meyer 98B	cs,pol,pwa
0.8835	Meyer 98B	cs,pol,pwa
0.9189	Meyer 98B	cs,pol,pwa
0.9543	Meyer 98B	cs,pol,pwa
1.463	Comptour 94	cs,p,pol
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98B	cs,p,pt
	Kirk 98	cs,p,pt

$p\ n\ \pi^+$

0.7926	Dytman 94	angp,cs

$p\,p$

$p\ n\ \pi^+$

0.7973 – 0.8533	Flammang 98	angp,cs,mass,p,pol,pwa
0.7988 – 0.8384	Daehnick 95	angp,cs
0.7991	Dytman 94	angp,cs
0.7993 – 0.8372	Hardie 97	angp,cs,mass,pwa
0.8081	Daehnick 98	angp,cs,pol,pwa
	Dytman 94	angp,cs
0.8188	Dytman 94	angp,cs
0.8293	Dytman 94	angp,cs
0.8384	Daehnick 98	angp,cs,pol,pwa
	Dytman 94	angp,cs
0.8533	Daehnick 98	angp,cs,pol,pwa
0.9543	Betsch 98	angp,cs,mass
2.16	Glagolev 97	mass,p
2.272	Yonnet 98	angp,mass,pol
	Tatischeff 97	angp,cs,mass
2.578	Yonnet 98	angp,mass,pol
	Tatischeff 97	angp,cs,mass
2.89	Yonnet 98	angp,mass,pol
	Tatischeff 97	angp,cs,mass

$2p\ \eta$

0.838 – 0.9734	Calen 96	cs,mass
0.894	Calen 98B	ang,const,cs,p
0.9706	Calen 98B	ang,const,cs,p
1.95 – 4	Grzonka 98	cs
1.974 – 2.098	Johansson 98B	angp,cs
1.977 – 2.087	Bilger 97	cs,mass
1.993	Chiavassa 94	cs
2.032	Chiavassa 94	cs
	Chiavassa 94B	angp,p
2.087	Calen 98C	angp,cs,p
2.142	Chiavassa 94	cs
2.226	Hibou 98	cs
2.242	Hibou 98	cs
2.25	Chiavassa 94	cs
	Chiavassa 94B	angp,p
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Barberis 98B	cs,p,pt
	Kirk 98	cs,p,pt

$2p\ \rho^0$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 96	angp
	Norman 96	cs

$2p\ \omega$

1.658 – 1.744	Hibou 99	cs
3.67	Balestra 98	angp,cs
10	Sapozhnikov 95	cs
24	Sapozhnikov 95	cs
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Kirk 98	cs,p,pt

$2p\ \eta'$

2.226	Hibou 98	cs
2.242	Hibou 98	cs
3.17 – 3.2	Grzonka 98	cs
3.201 – 3.221	Moskal 98	cs
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98B	cs,p,pt
	Kirk 98	cs,p,pt

$p\,p$

$2p\ f_0(980)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Alde 97	–
	Ishida 95	cs
	Stroot 95	–
	Kirk 94	–
	Singovsky 94	–

$2p\ a_0(980)^0$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Alde 95B	cs
	Donskov 95	cs

$2p\ a_1(1260)^0$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Kirk 98	cs,p,pt

$2p\ f_2(1270)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Alde 97	–
	Barberis 96	angp
	Norman 96	cs
	Ishida 95	cs
	Stroot 95	–
	Singovsky 94	–

$2p\ f_1(1285)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98E	angp
	Kirk 98	cs,p,pt
	Barberis 97	cs
	Barberis 97B	cs
	Barberis 96	angp
	Abatzis 94D	mass,pwa
	Kirk 94	–

$2p\ a_2(1320)^0$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Kirk 98	cs,p,pt
	Alde 95B	cs
	Donskov 95	cs

$2p\ f_0(1370)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 97	cs

$2p\ f_1(1420)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98E	angp
	Kirk 98	cs,p,pt
	Barberis 97B	cs
800	Gutierrez 96	–

$2p\ \rho(1450)^0$

85	Antinori 95	cs
300	Antinori 95	cs
450	Antinori 95	cs
	Kirk 94	–

$2p\ f_0(1500)$

85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 97	cs
	Stroot 95	–
	Abatzis 94D	mass,pwa
	Sadovsky 94	–
	Singovsky 94	–

$2p\ f_1(1510)^0$

450	Barberis 97B	cs

$2p\ f_2'(1525)$

450	Barberis 96	angp
	Stroot 95	–
	Sadovsky 94	–

p p

$2p\ f_2'(1525)$		
	Singovsky 94	–
$2p\ f_2(1565)$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Norman 96	cs
$2p\ \eta_2(1645)$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 97	cs
	Barberis 97B	cs
$2p\ \pi_2(1670)^0$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Kirk 98	cs,p,pt
$2p\ f_J(1710)$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 96	angp
$2p\ \eta_2(1870)$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
	Barberis 97	cs
$2p\ f_2(1950)$		
85	Kirk 98	cs,p,pt
	Antinori 95	cs
300	Kirk 98	cs,p,pt
	Antinori 95	cs
450	Kirk 98	cs,p,pt
	Barberis 97	cs
	Antinori 95	cs
$2p\ X(2000)$		
450	Kirk 94	–
$2p\ f_0(2020)$		
450	Barberis 97	cs
$2p\ f_2(2150)$		
450	Stroot 95	–
	Sadovsky 94	–
	Singovsky 94	–
$2p\ f_0(2200)$		
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Kirk 98	cs,p,pt
$2p\ \phi(1020)$		
1.658 – 1.744	Hibou 99	cs
3.67	Chalyshev 98	pt
	Balestra 98	angp,cs
10	Sapozhnikov 95	cs
24	Sapozhnikov 95	cs
85	Kirk 98	cs,p,pt
300	Kirk 98	cs,p,pt
450	Barberis 98	cs
	Kirk 98	cs,p,pt
$2p$ glueball		
450	Barberis 98C	amp
$p\ \Lambda\ K^+$		
2.32 – 2.36	Grzonka 98	cs
2.342 – 2.36	Balewski 98	cs
	Balewski 98B	pwa
	Balewski 98C	cs
2.345	Brauksiepe 97	cs
	Balewski 96	cs
(2.551 – 2.561)	Sewerin 98B	cs,mass,p
2.5	Bilger 98	cs,pol,pt
	Grzonka 97	cs
2.5 – 3.7	Grzonka 98	cs
2.75	Bilger 98	cs,pol,pt
	Grzonka 97	cs
3.67	Chalyshev 98	pol
$p\ \Sigma^0\ K^+$		
(2.625 – 2.638)	Sewerin 98B	cs,mass,p
2.6	Grzonka 98	cs

p p

$p\ \Sigma(1385\ P_{13})^0\ K^+$		
70	Balatz 93	mass
$2p\ (\pi\pi)_{L=0}$		
450	Alde 97	–
$2p\ e^-\ e^+$		
0.6266	Messchendorp 98	mass
$2p\ 2\gamma$		
0.6409	Abazov 96	cor,mass,p
450	Barberis 98B	mass
$2p\ 2\pi^0$		
450	Alde 97	angp,mass,p
	Donskov 95	mass
	Ishida 95	mass
	Stroot 95	mass,p
	Singovsky 94	mass,p
$2p\ \pi^+\ \pi^-$		
1.403	Bilger 98B	mass
	Brodowski 96	mass
1.604	Vorobiev 98	cs,mass
	Efremenko 94	cs,mass
85	Kirk 98	mass
300	Kirk 98	mass
(28)	Norman 96	angp,mass
450	Kirk 98	mass
	Barberis 96	angp,mass
	Barberis 96B	mass,pt
	Kirk 94	mass,p
$2p\ \eta\ \pi^0$		
450	Alde 95B	amp,mass
	Donskov 95	amp,mass
$2p\ 2\eta$		
450	Stroot 95	mass,p
	Sadovsky 94	mass
	Singovsky 94	mass,p
$2p\ 2\rho^0$		
300	Girone 94	ang,cs,mass,pwa
450	Abatzis 94D	mass,pwa
$2p\ \rho^+\ \rho^-$		
300	Girone 94	ang,cs,mass,pwa
$2p\ \omega\ \rho^0$		
300	Girone 94	cs
$2p\ 2\omega$		
300	Girone 94	cs
$2p\ a_2(1320)^+\ \pi^-$		
85	Antinori 95	cs,mass,pwa
300	Antinori 95	cs,mass,pwa
450	Antinori 95	cs,mass,pwa
	Abatzis 94D	mass,pwa
$2p\ a_2(1320)^-\ \pi^+$		
85	Antinori 95	cs,mass,pwa
300	Antinori 95	cs,mass,pwa
450	Antinori 95	cs,mass,pwa
	Abatzis 94D	mass,pwa
$2p\ K^+\ \pi^-$		
3.67	Chalyshev 98	mass
$2p\ K^+\ K^-$		
3.3	Grzonka 98	cs
3.321	Balewski 98C	cs
	Brauksiepe 97	cs
85	Kirk 98	mass
300	Kirk 98	mass
(28)	Norman 96	angp,mass
450	Kirk 98	mass
	Barberis 96	angp,mass
	Barberis 96B	mass,pt
800	Gutierrez 94	mass
$2p\ 2K_S$		
800	Reyes 97	ang,mass,pwa
	Gutierrez 94	mass,pt
$2p\ \overline{K}^*(892)\ K^*(892)$		
450	Barberis 98D	cs,mass,pt
$2p\ \phi(1020)\ \omega$		
300	Girone 94	cs

p p

$2p\ \phi(1020)\ \omega$		
450	Barberis 98D	cs,mass,pt
$2p\ 2\phi(1020)$		
85	Bertolotto 94	cs
450	Barberis 98C	cs,p,pt,pwa
800	Gutierrez 94	mass
$3p\ \overline{p}$		
450	Barberis 98F	cs,mass,p,pt
$2p\ \Lambda\ \overline{\Lambda}$		
27.5	Hartouni 94	mass,p
450	Barberis 98F	cs,mass,p,pt
$2p\ \pi^+\ \pi^0\ \pi^-$		
450	Barberis 98	mass,pt,pwa
	Barberis 98B	mass
$2p\ \eta\ \pi^+\ \pi^-$		
450	Barberis 98B	mass
	Barberis 96B	mass,pt
$2p\ \rho^0\ \pi^+\ \pi^-$		
85	Antinori 95	cs,mass,pwa
300	Antinori 95	cs,mass,pwa
450	Antinori 95	cs,mass,pwa
	Abatzis 94D	mass,pwa
$2p\ \omega\ \pi^+\ \pi^-$		
24	Sapozhnikov 95	cs
$2p\ f_2(1270)\ \pi^+\ \pi^-$		
85	Antinori 95	cs,mass,pwa
300	Antinori 95	cs,mass,pwa
450	Antinori 95	cs,mass,pwa
	Abatzis 94D	mass,pwa
$2p\ f_0(1500)\ \pi^+\ \pi$		
85	Antinori 95	cs
300	Antinori 95	cs
450	Antinori 95	cs
$2p\ K^+\ K_S\ \pi^-$		
27.5	Hartouni 94	mass,p
450	Barberis 97B	mass,pt,pwa
	Barberis 96B	mass,pt
800	Gutierrez 96	ang,mass,pt,pwa
	Gutierrez 94	mass,pt
$2p\ K_S\ K^-\ \pi^+$		
27.5	Hartouni 94	mass,p
450	Barberis 97B	mass,pt,pwa
	Barberis 96B	mass,pt
800	Gutierrez 96	ang,mass,pt,pwa
	Gutierrez 94	mass,pt
$2p\ 2K_S\ \pi^0$		
450	Barberis 97B	mass,pt,pwa
$2p\ \phi(1020)\ \pi^+\ \pi^-$		
24	Sapozhnikov 95	cs
$2p\ K^+\ K^-\ \phi(1020)$		
85	Bertolotto 94	cs,mass
$3p\ \overline{p}\ \pi^0$		
450	Barberis 98F	cs,mass,p,pt
$p\ \Lambda\ K^+\ \pi^+\ \pi^-$		
27.5	Hartouni 94	mass,p
$3p\ \overline{\Lambda}\ K^-$		
27.5	Hartouni 94	mass,p
$2p\ 4\gamma$		
450	Stroot 95	mass
	Sadovsky 94	mass
	Singovsky 94	mass
$2p\ \pi^+\ \pi^-\ 2\gamma$		
450	Barberis 98B	mass

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$p\,p$

$2p\,2\pi^+\,2\pi^-$
27.5 Uribe 94 angp,cor,p,pt
85 Kirk 98 mass
Antinori 95 angp,mass,pwa
300 Kirk 98 mass
Antinori 95 angp,mass,pwa
450 Kirk 98 mass
Barberis 97 mass,pt,pwa
Barberis 96 angp,mass
Barberis 96B mass,pt
Antinori 95 angp,mass,pwa
Abatzis 94D mass
Kirk 94 angp,mass

$2p\,K^+\,K^-\,\pi^+\,\pi^-$
450 Barberis 98D ang,mass,p,pt

$2p\,2K^+\,2K^-$
85 Bertolotto 94 cs,mass
450 Barberis 98C mass
800 Gutierrez 94 mass,pt

$3p\,\bar{p}\,\pi^+\,\pi^-$
450 Barberis 98F cs,mass,p,pt

$3p\,\bar{\Lambda}\,K_S\,\pi^-$
27.5 Hartouni 94 mass,p

$2p\,\Lambda\,\bar{\Lambda}\,\pi^+\,\pi^-$
27.5 Hartouni 94 mass,p

$2p\,\omega\,2\pi^+\,2\pi^-$
24 Sapozhnikov 95 cs

$2p\,K^+\,K^-\,\pi^+\,\pi^0\,\pi^-$
450 Barberis 98D ang,mass,p,pt

$2p\,K^+\,K_S\,\pi^+\,2\pi^-$
27.5 Hartouni 94 mass,p

$2p\,K_S\,K^-\,2\pi^+\,\pi^-$
27.5 Hartouni 94 mass,p

$2p\,\phi(1020)\,2\pi^+\,2\pi^-$
24 Sapozhnikov 95 cs

$2DD < p > \,2\pi^+\,2\pi^-$
450 Abatzis 94D mass

$p\,\Lambda\,K^+\,2\pi^+\,2\pi^-$
27.5 Felix 96 cor,mass,p,pol,pt
Hartouni 94 mass,p

$3p\,\bar{\Lambda}\,K^-\,\pi^+\,\pi^-$
27.5 Hartouni 94 mass,p

$2p\,3\pi^+\,3\pi^-$
27.5 Uribe 94 angp,cor,p,pt

$3p\,\bar{\Lambda}\,K_S\,\pi^+\,2\pi^-$
27.5 Hartouni 94 mass,p

$2p\,\Lambda\,\bar{\Lambda}\,2\pi^+\,2\pi^-$
27.5 Hartouni 94 mass,p

$2p\,K^+\,K_S\,2\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$2p\,K_S\,K^-\,3\pi^+\,2\pi^-$
27.5 Hartouni 94 mass,p

$p\,\Lambda\,K^+\,3\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$3p\,\bar{\Lambda}\,K^-\,2\pi^+\,2\pi^-$
27.5 Hartouni 94 mass,p

$2p\,4\pi^+\,4\pi^-$
27.5 Uribe 94 angp,cor,p,pt

$3p\,\bar{\Lambda}\,K_S\,2\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$2p\,\Lambda\,\bar{\Lambda}\,3\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$p\,p$

$2p\,K^+\,K_S\,3\pi^+\,4\pi^-$
27.5 Hartouni 94 mass,p

$2p\,K_S\,K^-\,4\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$p\,\Lambda\,K^+\,4\pi^+\,4\pi^-$
27.5 Hartouni 94 mass,p

$3p\,\bar{\Lambda}\,K^-\,3\pi^+\,3\pi^-$
27.5 Hartouni 94 mass,p

$2p\,5\pi^+\,5\pi^-$
27.5 Uribe 94 angp,cor,p,pt

$2p\,6\pi^+\,6\pi^-$
27.5 Uribe 94 angp,cor,p,pt

$p\,n$

charged$^-$ X
1.25 – 400 Gazdzicki 95 mult

η X
2.032 Chiavassa 94B angp,p
2.25 Chiavassa 94B angp,p

deuteron η
0.8707 – 1.246 Calen 98 cs
Calen 97 cs
1.999 – 2.142 Bilger 97 cs

dibaryon π^-
1.98 Abramov 94 cs

^{2}He π^-
0.941 Matsuoka 95 angp

$2p\,\pi^-$
0.8871 Hahn 99 angp,cs,pol,pwa
Duncan 98 angp,cs
0.9585 Duncan 98 angp,cs
0.9599 Hahn 99 angp,cs,pol,pwa
1.01 Hahn 99 angp,cs,pol,pwa
Duncan 98 angp,cs
1.98 Abramov 94 mass,p

$p\,n\,\eta$
1.999 – 2.142 Bilger 97 cs
2.087 Calen 98C angp,cs,p

p nucleus

X
$1.5 \cdot 10^7 - 5 \cdot 10^8$ Wibig 98 a-dep,cs

inelastic
$10 - 1.5 \cdot 10^4$ Mielke 94 cs
$3 \cdot 10^6 - 7 \cdot 10^8$ Kalmykov 95 cs
$1.5 \cdot 10^7 - 4 \cdot 10^8$ Bellandi 95 cs
$1.5 \cdot 10^7 - 5 \cdot 10^8$ Wibig 98 a-dep,cs

$\mu^\pm$ X
1.766 – 200 Ambrosio 95 angp,p
$8 \cdot 10^5 - 1.3 \cdot 10^7$ Kasahara 97 cs,p

charged$^-$ X
2.3 – 360 Gazdzicki 95 a-dep,mult

($\pi^\pm$'s) X
60 Stocker 95 col,cor
200 Stocker 95 col,cor

(p's) X
60 Stocker 95 col,cor
200 Stocker 95 col,cor

mult[p] X
300 Drndarevic 95 mult
400 Drndarevic 95 mult

mult[frag] X
800 Dheer 95 col,mult,p

mult[shower] X
70 Maity 95 mult,p
400 Ghosh 94 col,mult

p nucleus

mult[shower] X
Ghosh 94C col,mult
800 Shivpuri 94C angp,col,mult,p
Verma 94 angp,col,mult,p

mult[grey] X
300 Drndarevic 95 mult
400 Drndarevic 95 mult
800 Shivpuri 95B mult

neutral X
800 Gallas 95 cs

longlived X
450 Altegoer 98 -
800 Gallas 95 cs

shower X
4.5 Ahmad 95 mult
400 Shivpuri 94B p
800 Shivpuri 94B p
Soni 94 a-dep,mult,p
$3 \cdot 10^6 - 7 \cdot 10^8$ Kalmykov 95 p

grey X
4.5 Ahmad 95 mult

black X
4.5 Ahmad 95 mult

heavy-ν X
800 Gallas 95 cs

π^+ X
0.8 Athanassopou 97B -

π^0 X
450 Altegoer 98 -

π^- X
21 Tretyakova 95 mult,p

$K^\pm$ X
70 Anikeyev 98 -

D^+ X
340 Halling 96 mult

D^0 X
800 Freyberger 94 -

D^- X
340 Halling 96 mult

$J/\psi(1S)$ X
800 Garbincius 94 a-dep,p,pt

$\psi(2S)$ X
800 Garbincius 94 a-dep,p,pt

$\Upsilon(1S)$ X
800 Garbincius 94 a-dep,p,pt

p X
4.2 Belyakov 98 angp,p,pt
8.9 Bondarev 98 a-dep,p
10.14 Bondarev 98 a-dep,p
14.97 – 64.99 Bondarev 98 a-dep,p
21 Tretyakova 95 mult,p
400 Bondarev 98 a-dep,p

Σ^+ X
800 Lach 94 -

deuteron X
4.2 Belyakov 98 angp,p,pt
8.9 Bondarev 98 a-dep,p
14.97 – 64.99 Bondarev 98 a-dep,p
400 Bondarev 98 a-dep,p

dibaryon($S = -2$) X
10 Shakhbazyan 94 p

dibaryon($S = -2$)$^+$ X
10 Shakhbazyan 94 p

^{3}H X
4.2 Belyakov 98 angp,p,pt
8.9 Bondarev 98 a-dep,p
400 Bondarev 98 a-dep,p

$\mu^-\,\mu^+$ X
800 Garbincius 94 a-dep,mass,p,pt

p nucleus

2charged X

200	Belaga 94B	cor,p
400	Belaga 94B	cor,p

mult[grey] mult[shower] X

4.5	Ahmad 95	mult
800	Parashar 95	col,mult,p
	Shivpuri 95	mult

mult[htrack] mult[shower] X

4.5	Ahmad 95	mult
70	Maity 95	mult,p

mult[htrack] mult[grey] X

4.5	Ahmad 95	mult

mult[black] mult[shower] X

4.5	Ahmad 95	mult

mult[black] mult[grey] X

4.5	Ahmad 95	mult
4.542	Andreeva 95B	cor,mult
200	Andreeva 95B	cor,mult

mult[htrack] mult[black] X

4.5	Ahmad 95	mult

mult[grey] shower X

400	Shivpuri 94B	cor,mult,p
800	Shivpuri 94B	cor,mult,p
	Soni 94	mult,p

mult[htrack] shower X

800	Soni 94	mult,p

mult[black] shower X

800	Soni 94	mult,p

mult[htrack] grey X

800	Soni 94	mult,p

mult[black] grey X

800	Soni 94	mult,p

htrack mult[grey] X

800	Soni 94	mult,p

htrack mult[black] X

800	Soni 94	mult,p

black mult[grey] X

800	Soni 94	mult,p

mult[htrack] black X

800	Soni 94	mult,p

charm $\overline{\text{charm}}$ X

800	Slaughter 96	ang,angp,cor,mass,p,pt

2p X

200	Albrecht 94E	a-dep,cor

2charged (chargeds) X

400	Boos 95	col,cor,p
	Ghosh 95C	col,p

3charged X

200	Belaga 94B	cor,p
400	Belaga 94B	cor,p

(showers) 2shower X

4.5	Ghosh 94B	ang,col
70	Maity 95	col
200	Belaga 95F	ang,col,cor
	Belaga 94C	ang,col,cor
200.9	Dabrowska 95B	angp,col,p
400	Belaga 95F	ang,col,cor
	Belaga 94C	ang,col,cor
800	Parashar 95C	col,mult,p

2grey (greys) X

4.5	Ghosh 94B	ang,col
400	Ghosh 94	angp,col

2black (blacks) X

4.5	Ghosh 94B	ang,col

4charged X

200	Belaga 94B	cor,p
400	Belaga 94B	cor,p

mult[grey] (showers) 2shower X

800	Parashar 95C	col,mult,p

p nucleus

grey (greys) (showers) shower X

4.5	Ghosh 94B	ang,col

3grey (greys) X

800	Shivpuri 95B	angp,col,mult

black (blacks) (showers) shower X

4.5	Ghosh 94B	ang,col

5charged X

200	Belaga 94B	cor,p
400	Belaga 94B	cor,p

7charged X

200	Belaga 94B	cor,p
400	Belaga 94B	cor,p

(showers) 10shower X

800	Parashar 95B	angp,col,p

nucleus p π^+ π^-

1.604	Efremenko 94	mass

p deuteron

π^+ X

4.45	Averichev 95	angp,p
8.9	Averichev 95	angp,p

η X

2.032	Chiavassa 94B	angp,p
2.25	Chiavassa 94B	angp,p

K^+ X

2.7	Kingler 98	mass

$J/\psi(1S)$ X

450	Abreu 98P	cs
	Baglin 98	cs
800	Conrad 95	a-dep,cs,p

$\psi(2S)$ X

450	Abreu 98P	cs

p X

0.6418	Burzynski 94	angp
0.8044	Burzynski 94	angp
1.032	Burzynski 94	angp
4.45	Averichev 95	angp,p
8.9	Averichev 95	angp,p

n X

1.457	Prout 95	angp,p
	Prout 94	angp,cs,p,pol

^{3}He X

1.738	Bilger 97	mass
2.01 – 2.784	Wurzinger 96	cs,mass
2.032 – 2.679	Wurzinger 96B	angp,mass

^{3}He X $0\pi^-$ $0\pi^+$

0.971 – 1.001	Betker 96	cs

2e^- X

5.762	Huang 94	mass,pt

e^- e^+ X

1.73	Wilson 97	cs,mass,p,pt
	Wilson 94	cs
1.988	Wilson 97	cs,mass,p,pt
	Wilson 94	cs
2.359	Wilson 97	cs,mass,p,pt
	Wilson 94	cs
2.626	Wilson 97	cs,mass,p,pt
	Wilson 94	cs
2.858	Wilson 97	cs,mass,p,pt
	Wilson 94	cs
5.762	Wilson 97	cs,mass,p,pt
	Wilson 94	cs

μ^- μ^+ X

450	Abreu 98P	cs,mass
	Baldit 94	cs,mass,p
	Nassalski 94	cs,mass,p
800	Hawker 98	mass,p,pt
	Peng 98	mass,p
	Conrad 95	a-dep,cs,mass,p,pt
	Arneodo 92	a-dep,mass,p,pt

2γ X

2.032	Chiavassa 94B	mass

p deuteron

2γ X

2.25	Chiavassa 94B	mass

2p X

5.9	Mardor 98	angp,cs
7.5	Mardor 98	angp,cs

deuteron p X

1.738	Bilger 97	mass

deuteron p

0.002	Shimizu 95	angp,pol
0.0025	Shimizu 95	angp,pol
0.003	Shimizu 95	angp,pol
0.004	Shimizu 95	angp,pol
0.09699 – 0.1847	Sagara 94	angp,pol
0.221	Clajus 95	angp,pol,pwa
0.6418	Burzynski 94	angp
0.6444 – 0.8081	Rohdjeb 98	angp,p
0.8044	Burzynski 94	angp
1.032	Burzynski 94	angp
5.9	Mardor 98	angp,cs
7.5	Mardor 98	angp,cs

dibaryon p

0.9613	Burmistrov 95	cs

^{3}He γ

< 0.01225	Schmid 96	angp,pol
	Schmid 95	angp,asym,cs,pwa
0.02131	Ma 97	angp,cs,p,pol
0.0242	Ma 97	angp,cs,p,pol
0.4399	Johansson 98	angp,p
0.601	Johansson 98	angp,p
0.6266	Kalantarnaye 98	angp,asym

^{3}He η

1.573	White 96	-
	Abegg 94	-
1.574	Fuchs 94	p
1.738	Bilger 97	cs

^{3}He ω

1.28 – 1.9	Wurzinger 94	amp,cs,p
2.01 – 2.784	Wurzinger 96	angp,cs
2.032 – 2.679	Wurzinger 95	angp,p

^{3}He η'

2.01 – 2.784	Wurzinger 96	angp,cs
2.032 – 2.679	Wurzinger 96B	angp,cs,p

^{3}He $\phi(1020)$

2.01 – 2.784	Wurzinger 96	angp,cs
2.032 – 2.679	Wurzinger 96B	angp,cs,p

^{3}He $(\pi\pi)_{atom}$

0.971 – 1.001	Betker 96	cs

^{3}He e^- e^+

0.4399	Johansson 98	angp,p
0.601	Johansson 98	angp,p

2p n

0.3553	Zejma 97	angp,pol
	Allet 94	ang,angp,p,pol
0.5211	Anderson 96B	angp
0.6444	Anderson 98B	pol
	Pairsuwan 95	angp,p
0.8081 – 0.9543	Sakai 94	angp,p,pol
0.8769	Sakai 98	cs,pol
1.082	Taddeucci 94	angp,cs,pol
1.696	Aleshin 94B	cor

deuteron p γ

0.6266	Kalantarnaye 98	angp,asym
0.9613	Burmistrov 95	angp,p

deuteron p(spect) η

2.087	Calen 98C	angp,cs,p

^{3}He π^+ π^-

0.971 – 1.001	Betker 96	cs
1.15	Bavink 98	ang,mass

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p deuteron

^{3}He $\pi^+ \pi^-$		
	Bellemann 98	amp,ang,angp,cs,mass,p
p(spect) $p\ n\ \gamma$		
0.6266	Kalantarnaye 98	angp,asym
n(spect) $2p\ \gamma$		
0.6266	Kalantarnaye 98	angp,asym
$3p\ \pi^-$		
0.8871	Duncan 98	angp,cs
0.9585	Duncan 98	angp,cs
1.01	Duncan 98	angp,cs
p(spect) $p\ n\ \eta$		
2.087	Calen 98C	angp,cs,p
n(spect) $2p\ \eta$		
2.087	Calen 98C	angp,cs,p

p ^{3}H

^{3}He n		
0.04376 – 0.092	Brune 99	cs,p
0.07534	Wilburn 97	pol
0.1079	Wilburn 97	pol
0.1129	Wilburn 97	pol

p ^{3}He

K^+ X		
2.771	Kingler 98	mass
n X		
0.6444	Palarczyk 98	angp,p,pol
$2p$ X		
0.6409	Miller 95	angp,cs,pol
$p\ n$ X		
0.6409	Miller 95	angp,cs,pol
^{3}He p		
0.2	Brash 95	angp,p,pol
	Hausser 95	angp,p,pol
0.29	Brash 95	angp,p,pol
	Hausser 95	angp,p,pol
0.4	Brash 95	angp,p,pol
	Hausser 95	angp,p,pol
0.5	Brash 95	angp,p,pol
	Hausser 95	angp,p,pol
^{4}He π^+		
0.8081	Furutani 94	angp,p
0.9766	Furutani 94	angp,p
1.099	Furutani 94	angp,p

p ^{4}He

K^+ X		
2.771	Kingler 98	mass
2.802	Kingler 98	mass
p X		
0.4474	Raue 95	angp,cs
n X		
0.4446	Edwards 96	angp
0.6444	Palarczyk 98	angp,p,pol
	Edwards 96	angp
^{4}He p		
1.463	Geso 98	angp,pol
^{5}He π^+		
0.7127	Furutani 94	angp,p
0.8081	Furutani 94	angp,p
0.9543	Furutani 94	angp,p
1.09	Furutani 94	angp,p

p He

He p		
0.6791	Abdullin 92	angp

p Li

meson X		
300	Antoniazzi 94B	cs

p Li

$h_c(1P)$ X		
300	Antoniazzi 94B	cs
$J/\psi(1S)\ \gamma$ X		
300	Garbincius 94	mass
$J/\psi(1S)\ \pi^+$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^0$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^-$ X		
300	Antoniazzi 94B	mass
$\psi(2S)\ \pi^+$ X		
300	Antoniazzi 94B	mass
$\psi(2S)\ \pi^-$ X		
300	Antoniazzi 94B	mass
$\mu^-\ \mu^+\ \gamma$ X		
300	Garbincius 94	mass
$J/\psi(1S)\ 2\pi^+$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^+\ \pi^0$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^+\ \pi^-$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ \pi^0\ \pi^-$ X		
300	Antoniazzi 94B	mass
$J/\psi(1S)\ 2\pi^-$ X		
300	Antoniazzi 94B	mass

p ^{6}Li

π^+ X		
8.9	Bondarev 94	a-dep,angp
π^- X		
8.9	Bondarev 94	a-dep,angp
p X		
8.9	Bondarev 94	a-dep,angp
n X		
0.6194	Wang 94B	angp,p
^{6}Be n		
0.6194	Rapaport 94	angp,pol
0.8004	Wakasa 95	angp,pol
0.8081 – 0.9543	Sakai 94	angp,p,pol

p ^{7}Li

π^+ X		
8.9	Bondarev 94	a-dep,angp
π^- X		
8.9	Bondarev 94	a-dep,angp
$J/\psi(1S)$ X		
300	Sansoni 95	cs
$\chi_{c1}(1P)$ X		
300	Sansoni 95	cs
	Antoniazzi 94	cs,p
$\chi_{c2}(1P)$ X		
300	Sansoni 95	cs
	Antoniazzi 94	cs,p
$\psi(2S)$ X		
300	Sansoni 95	cs
p X		
8.9	Bondarev 94	a-dep,angp
n X		
0.6194	Wang 94B	angp,p
$\mu^-\ \mu^+$ X		
300	Sansoni 95	mass
$J/\psi(1S)\ \gamma$ X		
300	Sansoni 95	mass

p ^{7}Li

$J/\psi(1S)\ \gamma$ X		
	Antoniazzi 94	mass
$\mu^-\ \mu^+\ \gamma$ X		
300	Sansoni 95	mass
	Antoniazzi 94	mass
^{7}Be n		
0.6194	Rapaport 94	angp,pol
	Wang 94B	angp,p
0.8004	Wakasa 95	angp,pol
0.8081 – 0.9543	Sakai 94	angp,p,pol
1.457	Prout 96	cs
^{7}Be* n + ^{7}Be n		
1.084	Taddeucci 97	cs
1.457	Taddeucci 97	cs
^{8}Be neutral		
0.02874	Deboer 96	cs
^{8}Be $e^-\ e^+$		
0.02874	Deboer 96	ang,cs,p

p ^{7}Be

^{8}Bor γ		
0.02563 – 0.05127	Hammache 97	cs,p
0.0274 – 0.07509	Kikuchi 98	cs

p Be

unspec X		
450	Akesson 96	cs
neutral X		
800	Woods 96	p
hadron$^+$ X		
800	Brown 96	a-dep,p,pt
hadron$^-$ X		
800	Brown 96	a-dep,p,pt
γ X		
18	Tincknell 96	cs,p,pt
	Stocker 95	p,pt
	Lissauer 94	p,pt
500	Vogelsang 97	p,pt
530	Apanasevich 97B	p,pt
800	Apanasevich 97B	p,pt
	Woods 96	p
π^+ X		
2.466	Kiselev 96	angp,p
10.1	Boyarinov 94	a-dep,angp
450	Boggild 99	p,pt
	Ambrosini 98	p,pt
	Ambrosini 98B	p,pt
	Boggild 95C	pt
	Boggild 94	pt
π^0 X		
450	Agakishiev 98	cs,p
	Notheisen 96	pt
	Tikhomirov 96	angp,pt
530	Apanasevich 97B	p,pt
800	Apanasevich 97B	p,pt
π^- X		
10.1	Boyarinov 94	a-dep,angp
450	Ambrosini 98	p,pt
	Ambrosini 98B	p,pt
	Boggild 95C	pt
	Boggild 95D	p,pt
	Boggild 94	pt
η X		
450	Agakishiev 98	cs,p
	Notheisen 96	pt
	Tikhomirov 96	angp,pt
ρ^0 X		
450	Agakishiev 98	cs,p
ω X		
450	Agakishiev 98	cs,p
	Notheisen 96	pt
η' X		
450	Agakishiev 98	cs,p

p Be

K^+ X

2.466	Kiselev 96	angp,p
10.1	Boyarinov 94	a-dep,angp
450	Boggild 99	p,pt
	Ambrosini 98	p,pt
	Boggild 95C	pt
	Boggild 94	pt

K^0 X

800	Woods 96	p

K^- X

10.1	Boyarinov 94	a-dep,angp
450	Boggild 99	p,pt
	Ambrosini 98	p,pt
	Boggild 95C	pt
	Boggild 95D	p,pt
	Boggild 94	pt

K_S X

360	Barr 95B	p
800	Gibbons 95C	–
	Matthews 95B	p
	Hsiung 94	–

K_L X

13	Akagi 94	–
360	Barr 95B	p
450	Setzu 98	–
	Bender 97	p
	Fanti 97	–
	Leber 96	–
	Barr 95	p
	Barr 95C	–
	Kreutz 95	p
	Barr 94	–
800	Adams 98	–
	Adams 98B	–
	Arisaka 98	–
	Adams 97D	cs,flux
	Gu 96	–
	Conrad 95	–
	Gibbons 95C	–
	Matthews 95B	p
	Schwingenheu 95	–
	Spencer 95	–
	Gu 94	–
	Hsiung 94	–
	Nakaya 94	–
	Roberts 94	–
	Weaver 94	–

$\phi(1020)$ X

450	Agakishiev 98	cs,p

D^+ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

D^0 X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
800	Halling 96	a-dep,cs,p,pt
	Kaplan 96	a-dep,cs,p,pt
	Leitch 94	a-dep,cs,p,pt

$\overline{D}^0$ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
800	Halling 96	a-dep,cs,p,pt
	Kaplan 96	a-dep,cs,p,pt
	Leitch 94	a-dep,cs,p,pt

D^- X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

$D^*(2010)^+$ X

250	Alves 96B	a-dep,cs,p,pt

$D^*(2010)^-$ X

250	Alves 96B	a-dep,cs,p,pt

D_s^+ X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

p Be

D_s^- X

250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p

$J/\psi(1S)$ X

800	Kaplan 96	a-dep,cs,p,pt
	Leitch 95	a-dep,p,pt
	Kowitt 94	a-dep,p

X R-meson

450	Fanti 99	cs
800	Adams 97D	cs,flux

p X

10.1	Boyarinov 94	a-dep,angp
200	Bearden 98C	pt
450	Bearden 98B	p,pt
	Boggild 95C	pt
	Boggild 94	pt

n X

800	Woods 96	p

$\overline{p}$ X

10.1	Boyarinov 94	a-dep,angp
200	Bearden 98C	pt
450	Bearden 98B	p,pt
	Boggild 95C	pt
	Boggild 94	pt

Λ X

300	Lach 94	pol,pt
400	Lach 94	pol
450	Fanti 99B	angp,p,pol,pt
800	Woods 96	p,pol
	Wallace 95	p
	Ramberg 94	p,pol,pt

$\overline{\Lambda}$ X

400	Lach 94	pol
800	Ramberg 94	p,pol,pt

Σ X

800	Wallace 95	p

Σ^+ X

400	Lach 94	pol

Σ^0 X

800	Woods 96	p,pol

Σ^- X

29.4	Lach 94	p

Ξ^- X

29.4	Lach 94	p
400	Lach 94	p,pol
800	Lach 94	pol

$\overline{\Xi}^+$ X

800	Lach 94	pol

Ω^- X

400	Lach 94	–
800	Chan 98	p

$\overline{\Omega}^+$ X

800	Chan 98	p

Λ_c^+ X

250	Alves 96B	a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X

250	Alves 96B	a-dep,cs,p,pt

$2e^-$ X + $2e^+$ X

450	Akesson 94	a-dep,cs,mass

e^- e^+ X

13	Akagi 94	ang,mass
200	Delosheros 96	mass
	Agakichiev 95	mass
	Tserruya 95	mass
450	Agakishiev 98	mass
	Delosheros 96	mass
	Ceretto 95	mass
	Tserruya 95	mass
	Akesson 94	a-dep,cs,mass
	Baur 93	mass

p Be

μ^- e^+ X

13	Akagi 94	ang,mass
450	Akesson 96	a-dep,cs,mass

μ^+ e^- X

13	Akagi 94	ang,mass
450	Akesson 96	a-dep,cs,mass

$2\mu^-$ X

450	Akesson 94	mass

μ^- μ^+ X

13	Akagi 94	ang,mass
450	Akesson 94	mass,p,pt
800	Kaplan 96	–
	Leitch 95	mass
	Kowitt 94	mass,p,pt

$2\mu^+$ X

450	Akesson 94	mass

hadron$^+$ hadron$^-$ X

800	Brown 96	a-dep,cor,mass,p,pt

γ charged X

500	Alverson 93B	ang,mult,p,pt

γ jet X

500	Alverson 93B	angp,mass,pt

2γ X

360	Barr 95B	mass,p

π^0 charged X

500	Alverson 93B	ang,mult,p,pt

π^- mult[grey] X

18	Chemakin 99	mult,p,pt

π^0 jet X

500	Alverson 93B	angp,mass,pt

π^0 γ X

530	Apanasevich 97B	ang,p,pt
800	Apanasevich 97B	ang,p,pt

$2\pi^0$ X

360	Barr 95B	mass,p
530	Apanasevich 97B	ang,p,pt
800	Apanasevich 97B	ang,p,pt

π^+ π^- X

13	Akagi 94	ang,mass
800	Adams 97D	cs,mass,p

η photino X

450	Fanti 99	cs,pt

charm $\overline{\text{charm}}$ X

450	Akesson 96	cs

e^- e^+ γ X

450	Delosheros 96	mass
	Ceretto 95	mass
	Akesson 94	mass

$2\mu^-$ mult[charged] (neutrals)

450	Akesson 94	mass,mult

μ^- μ^+ mult[charged] (neutrals)

450	Akesson 94	mass,mult

$2\mu^+$ mult[charged] (neutrals)

450	Akesson 94	mass,mult

μ^- μ^+ γ X

450	Akesson 94	mass
800	Spencer 95	cor,mass,pt

K^+ $2\pi^-$ X

250	Appel 94	mass

K^- $2\pi^+$ X

250	Appel 94	mass

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p Be

$K^+ K^- \pi^+$ X
250 Appel 94 mass

$K^+ K^- \pi^-$ X
250 Appel 94 mass

$p K^- \pi^-$ X
400 Lach 94 mass

$e^- e^+ 2\gamma$ X
450 Notheisen 96 mass

$2e^- 2e^+$ X
13 Akagi 94 ang,mass

Be $\Delta(1232\, P_{33})^{++} \pi^-$
70 Balatz 93 mass

Be $\Sigma(1385\, P_{13})^0 K^+$
70 Balatz 93 mass

p Bor

η X
1.696 Chiavassa 94C p

2γ X
1.696 Chiavassa 94C mass

p ^{10}Bor

n X
0.6194 Wang 94B angp,p,pol

^{10}C n
0.1228 Fujikawa 98 –
0.6194 Rapaport 94 angp,pol
Wang 94B angp,p

p ^{11}Bor

n X
0.6194 Wang 94B angp,p

^{11}C n
0.6194 Rapaport 94 angp,pol
0.8004 Wakasa 95 angp,pol
0.8081 – 0.9543
Sakai 94 angp,p,pol

^{12}C neutral
0.05482 Deboer 96 cs

^{12}C $e^- e^+$
0.05482 Deboer 96 ang,cs,p
0.4399 Traneus 97
ang,angp,mass,p

C*(4.44 keV) $e^- e^+$
0.4399 Traneus 97
ang,angp,mass,p

p C

mult[nucleon] X
4.2 – 10 Dedovich 94
angp,cor,p,pt

γ X
200 Vogelsang 97 pt

$\pi^\pm$ X
60 Stocker 95 a-dep,p
200 Stocker 95 a-dep,p

π^+ X
0.8233 – 0.989 Julien 94 angp,p
1.355 – 4.45 Anoshina 97 angp,pol
1.921 Debowski 96 angp,p
2.25 Debowski 96 angp,p
3.308 Debowski 96 angp,p
4.338 Sugaya 97 a-dep,angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
8.9 Bondarev 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p

π^0 X
4.5 Abraamyan 98
a-dep,p,pt
Abraamyan 94B
a-dep,p,pt
Abraamyan 94C
a-dep,angp,p

p C

π^- X
4.2 Ermakov 94 angp,p
Bekmirzaev 93
mult,p,pt
4.338 Sugaya 97 a-dep,angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
8.9 Bondarev 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p

η X
2.032 Deoliveirama 96 angp,p

K^+ X
1.921 Debowski 96 angp,p
2.25 Debowski 96 angp,p
3.308 Debowski 96 angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
12.9 Sugaya 97 a-dep,angp,p

K^- X
4.338 Sugaya 97 a-dep,angp,p
4.848 Sugaya 97 a-dep,angp,p
12.9 Sugaya 97 a-dep,angp,p

$J/\psi(1S)$ X
200 Baglin 95 cs
450 Abreu 98I a-dep,cs
Baglin 98 cs
800 Conrad 95 a-dep,cs,p
Leitch 95 a-dep,p,pt

$\psi(2S)$ X
200 Baglin 95 cs
450 Abreu 98I a-dep,cs

p X
1.355 – 4.45 Anoshina 97 angp,pol
1.921 Debowski 96 angp,p
2.25 Debowski 96 angp,p
3.308 Debowski 96 angp,p
4.2 Bekmirzaev 94
angp,mult,p,pt
8.9 Bondarev 94
a-dep,angp
60 Stocker 95 a-dep,p
200 Awes 96 a-dep,p
Stocker 95 a-dep,p

n X
1.206 Arnold 98 p,pol
1.463 Ishibashi 94 angp,p
2.25 Ishibashi 94 angp,p
3.825 Ishibashi 94 angp,p

$\bar{p}$ X
4.338 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
4.491 Baldin 95 a-dep,angp
4.848 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
5.864 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
12.9 Sugaya 97 a-dep,angp,p

deuteron X
60 Stocker 95 a-dep,p
200 Awes 96 a-dep,p
Stocker 95 a-dep,p

dibaryon($S = -2$) X
10 Shakhbazyan 95 –

dibaryon($S = -2$)* X
10 Shakhbazyan 95 –

$\mu^- \mu^+$ X
800 Conrad 95
a-dep,cs,mass,p,pt
Leitch 95 mass
Arneodo 92
a-dep,mass,p,pt

mult[p] mult[π^-] X
40 Kuznetsov 97C cor

mult[π^-] mult[frag] X
4.2 Kuznetsov 96 mult

2γ X
4.5 Abraamyan 94B mass

p C

2γ X
Abraamyan 94C
angp,mass
200 Vogelsang 97 cs,pt

mult[p] π^- X
4.2 Kuznetsov 97B mult,p

$\pi^+ \pi^\pm$ X
1.355 – 4.45 Anoshina 97 angp,pol

$2\pi^+$ X
200 Awes 95B angp,cor

$\pi^+ \pi^0$ X
1.355 – 4.45 Anoshina 97 angp,pol

p mult[p] X
4.2 Suleimanov 98
angp,mult,p
Kuznetsov 97B mult,p

$p\ \pi^\pm$ X
1.355 – 4.45 Anoshina 97 angp,pol

$p\ \pi^+$ X
1.355 – 4.45 Anoshina 97 angp,pol

$p\ \pi^0$ X
1.355 – 4.45 Anoshina 97 angp,pol

$2p$ X
1.355 – 4.45 Anoshina 97 angp,pol
3 Vlasov 95
a-dep,ang,cor,p
7.5 Vlasov 95
a-dep,ang,cor,p
Doroshkevich 94 cor,pt
200 Awes 95 angp,cor

$p\ n$ X
1.355 – 4.45 Anoshina 97 angp,pol

2charged (chargeds) X
4.2 Angelov 94 col,cor

$2p$ (p's) X
4.2 Bazarov 94 angp,col

C p
1.36 Alekseev 99 angp,pol
1.6 Alekseev 99 angp,pol
1.78 Alekseev 99 angp,pol
2.02 Alekseev 99 angp,pol

C exotic-nucleon
70 Bezzubov 96 –
Balatz 94C cs,pt
Golovkin 94 cs,pt
Landsberg 94C
cs,mass,p,pt
Vavilov 94C cs
Balatz 93 cs

C $N(2000\, B)^+$
70 Bezzubov 96 –
Golovkin 95 cs,pt
Vavilov 95 cs,pt

C $N(2050\, B)^+$
70 Golovkin 95 cs,pt
Vavilov 95 cs,pt

C $N\phi(1950)^+$
70 Balatz 94C cs,pt
Landsberg 94C
cs,mass,p,pt
Balatz 93 cs

C* p
1.36 Alekseev 99 angp,pol
1.6 Alekseev 99 angp,pol
1.78 Alekseev 99 angp,pol
2.02 Alekseev 99 angp,pol

DD $< p\ \eta >$ C
70 Bezzubov 96 mass,pt
Golovkin 95
cs,mass,p,pt

DD $< p\ \omega >$ C
70 Vavilov 95B angp,cs

DD $< p\ \eta' >$ C
70 Golovkin 95
cs,mass,p,pt

p C

DD < p $\phi(1020)$ > C
70 Vavilov 95B angp,cs
Vavilov 94C mass,pt

DD < $\Delta(1232\,P_{33})^{++}$ π^- > C
70 Golovkin 95 cs,mass,p,pt

C Λ K^+
70 Bezzubov 96 mass,pt

DD < $\Lambda(1520\,D_{03})$ K^+ > C
70 Vavilov 94C mass,pt

C Σ^0 K^+
70 Bezzubov 96 mass,pt
Golovkin 94 cs,mass,p,pt
Landsberg 94C cs,pt

DD < Σ^0 K^+ > C
70 Golovkin 95 cs,mass,p,pt
Vavilov 95 cs,mass,p,pt

C $\Sigma(1385\,P_{13})^0$ K^+
70 Balatz 94C mass,p,pt
Golovkin 94 cs,mass,p,pt
Landsberg 94C cs,pt
Vavilov 94 mass
Balatz 93 mass

DD < $\Sigma(1385\,P_{13})^0$ K^+ > C
70 Golovkin 95 cs,mass,p,pt
Vavilov 95 cs,mass,p,pt

DD < p π^+ π^- > C
70 Golovkin 95 cs,mass,p,pt

DD < p K^+ K^- > C
70 Vavilov 95B angp,mass
Vavilov 94C mass,pt

C p K^+ K^-
70 Balatz 94C mass,p,pt
Landsberg 94C cs,pt

DD < Λ K^+ γ > C
70 Vavilov 95 cs,mass,p,pt

C Λ K^+ γ
70 Golovkin 94 cs,mass,p,pt
Landsberg 94C cs,pt

DD < Λ K^+ π^0 > C
70 Vavilov 95 cs,mass,p,pt

C Λ K^+ π^0
70 Balatz 94C mass,p,pt
Golovkin 94 cs,mass,p,pt
Landsberg 94C cs,pt

C Σ^+ K^+ π^-
70 Balatz 94C mass,p,pt
Landsberg 94C cs,pt

DD < p π^+ π^0 π^- > C
70 Golovkin 95 cs,mass,p,pt
Vavilov 95B angp,mass

DD < p η π^+ π^- > C
70 Golovkin 95 cs,mass,p,pt

p ^{12}C

π^+ X
4.2 Bondarenko 98C angp,mult,p,pt

π^- X
4.2 Bondarenko 98C angp,mult,p,pt

η X
1.463 – 2.25 Chiavassa 98 angp,p

K^+ X
1.921 Badala 98B angp,cs

p ^{12}C

p X
0.4446 Sakemi 94 angp,pol
0.5631 Templon 97 angp,p
0.6444 Sakemi 94 angp,pol
Wissink 94 angp,pol
0.8081 Sakemi 94 angp,pol
0.9543 Sakemi 94 angp,pol
4.2 Bondarenko 98C angp,mult,p,pt

n X
0.6194 Wang 94B angp,p
1.084 Prout 95 angp,p,pol
1.457 Prout 95 angp,p,pol
Prout 94 angp,cs,p,pol

dibaryon($S = -2$) X
10 Aslanyan 98 cs
Shakhbazyan 96 cs

dibaryon($S = -2$)$^+$ X
10 Aslanyan 98 cs

dibaryon($S = -2$)* X
10 Aslanyan 98 cs
Shakhbazyan 96 cs

^{2}He X
0.941 Matsuoka 95 angp

(p's) ($\pi^{\pm}$'s) X
4.2 Bondarenko 96 angp,mult,p,pt

π^+ X star
4.2 Bondarenko 98C angp,mult,p,pt

π^- X star
4.2 Bondarenko 98C angp,mult,p,pt

p X star
4.2 Bondarenko 98C angp,mult,p,pt

p γ X
0.4446 Sakemi 94 angp,pol
0.6444 Sakemi 94 angp,pol
Wissink 94 angp,pol
0.8081 Sakemi 94 angp,pol
0.9543 Sakemi 94 angp,pol

2p X
0.5631 Templon 97 angp,p
5.9 Mardor 98 angp,cs
6 Mardor 97 angp
7.5 Mardor 98 angp,cs
Mardor 97 angp

p n X
1.082 Taddeucci 94 angp,cs,pol

He p X
0.5631 Templon 97 angp,p

2p n X
5.9 Aclander 98 angp
7.5 Aclander 98 angp

4charged neutral X
10 Shakhbazyan 96 p
Shakhbazyan 95 p

^{12}C p
0.6444 Yu 96 angp,p
5.9 Mardor 98 angp,cs
7.5 Mardor 98 angp,cs

^{12}C* p
0.3553 Sakemi 95 cs,p
0.4446 Sakemi 95 cs,p
0.6444 Yu 96 angp,p
Sakemi 95 cs,p
0.8081 Sakemi 95 cs,p
0.9543 Sakemi 95 cs,p

^{12}Nit n
0. Allet 96 –
0.5211 Anderson 96 cs,p
0.6194 Rapaport 94 angp,pol
Wang 94B angp,p
0.6444 Yu 96 angp,p

p ^{12}C

^{12}Nit n
0.8004 Wakasa 95 angp,pol
0.8081 – 0.9543 Sakai 94 angp,p,pol
1.457 Prout 96 cs,pol

^{12}Nit* n
0.6444 Yu 96 angp,p

p ^{13}C

n X
0.6194 Wang 94B angp,p

^{13}C p
0.6444 Yu 96 angp,p

^{13}C* p
0.6444 Yu 96 angp,p

^{13}Nit n
0.6194 Rapaport 94 angp,pol
0.6444 Yu 96 angp,p
0.8004 Wakasa 95 angp,pol
0.8081 – 0.9543 Sakai 94 angp,p,pol

p Nit

π^+ X
0.588 – 0.7613 Jakobsson 97 angp,p
0.7291 – 1.09 Jakobsson 97 angp,p

p ^{16}O

2p X
1.095 Miller 98 angp,p,pol

^{16}Fl n
0.5211 Watson 94 angp,pol
1.082 Mercer 94 angp,cs,p

^{15}Nit 2p
1.095 Miller 98 angp,p,pol

^{15}Nit* 2p
1.095 Miller 98 angp,p,pol

p ^{17}O

^{17}Fl n
0.4851 Van 99 angp,pol

p ^{18}O

^{18}Fl n
0.4851 Van 99 angp,pol
1.082 Mercer 94 angp,cs,p

p ^{23}Na

^{22}Ne 2p
1.696 Vorobiev 94 angp,p

^{22}Na p n
1.696 Vorobiev 94 angp,p

p Mg

π^+ X
100 Whitmore 94 mult,p,pt

π^- X
100 Whitmore 94 mult,p,pt

p X
100 Whitmore 94 mult,p

p Al

X
14.6 Stocker 95 et
Rosati 94 et

ν_e X
67 Borisov 96 p

ν_μ X
67 Borisov 96 p

charged X
14.6 Barrette 95D et,mult,p
Stocker 95 angp,mult
Rosati 94 angp,mult

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p Al

$\pi^{\pm}$ X
- 60 — Stocker 95 — a-dep,p
- 200 — Stocker 95 — a-dep,p

π^{+} X
- 8.9 — Bondarev 94 — a-dep,angp
- 10.1 — Boyarinov 94 — a-dep,angp
- 12.9 — Sugaya 97 — a-dep,angp,p

π^{-} X
- 8.9 — Bondarev 94 — a-dep,angp
- 10.1 — Boyarinov 94 — a-dep,angp
- 12.9 — Sugaya 97 — a-dep,angp,p

η X
- 2.032 — Deoliveirama 96 — angp,p

K^{+} X
- 10.1 — Boyarinov 94 — a-dep,angp
- 12.9 — Sugaya 97 — a-dep,angp,p

K^{-} X
- 10.1 — Boyarinov 94 — a-dep,angp
- 12.9 — Sugaya 97 — a-dep,angp,p

D^{+} X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt
- Appel 94 — cs,p

D^{0} X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt

$\overline{D}^{0}$ X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt

D^{-} X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt
- Appel 94 — cs,p

$D^{*}(2010)^{+}$ X
- 250 — Alves 96B — a-dep,cs,p,pt

$D^{*}(2010)^{-}$ X
- 250 — Alves 96B — a-dep,cs,p,pt

D_s^{+} X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt
- Appel 94 — cs,p

D_s^{-} X
- 250 — Alves 96 — p,pt
- Alves 96B — a-dep,cs,p,pt
- Appel 94 — cs,p

$J/\psi(1S)$ X
- 200 — Baglin 95 — cs
- 450 — Abreu 98I — a-dep,cs
- Baglin 98 — cs

$\psi(2S)$ X
- 200 — Baglin 95 — cs
- 450 — Abreu 98I — a-dep,cs

p X
- 8.9 — Bondarev 94 — a-dep,angp
- 10.1 — Boyarinov 94 — a-dep,angp
- 60 — Stocker 95 — a-dep,p
- 200 — Awes 96 — a-dep,p
- Stocker 95 — a-dep,p

n X
- 1.463 — Ishibashi 94 — angp,p
- 2.25 — Ishibashi 94 — angp,p
- 3.825 — Ishibashi 94 — angp,p

$\bar{p}$ X
- 10.1 — Boyarinov 94 — a-dep,angp
- 12.9 — Sugaya 97 — a-dep,angp,p

Λ_c^{+} X
- 250 — Alves 96B — a-dep,cs,p,pt

p Al

$\overline{\Lambda}_c^{-}$ X
- 250 — Alves 96B — a-dep,cs,p,pt

deuteron X
- 60 — Stocker 95 — a-dep,p
- 200 — Awes 96 — a-dep,p
- Stocker 95 — a-dep,p

^{6}Li X
- 1.696 — Andronenko 94 — cs

^{7}Li X
- 1.696 — Andronenko 94 — cs

^{7}Be X
- 1.696 — Andronenko 94 — cs

^{10}Be X + ^{9}Be X
- 1.696 — Andronenko 94 — cs

^{10}Bor X
- 1.696 — Andronenko 94 — cs

^{12}Bor X + ^{11}Bor X
- 1.696 — Andronenko 94 — cs

^{14}O X
- 1.463 — Vonach 97 — a-dep,cs

^{18}O X
- 1.463 — Vonach 97 — a-dep,cs

^{19}O X
- 1.463 — Vonach 97 — a-dep,cs

^{20}O X
- 1.463 — Vonach 97 — a-dep,cs

^{20}Fl X
- 1.463 — Vonach 97 — a-dep,cs

^{21}Fl X
- 1.463 — Vonach 97 — a-dep,cs

^{22}Fl X
- 1.463 — Vonach 97 — a-dep,cs

^{23}Fl X
- 1.463 — Vonach 97 — a-dep,cs

^{18}Ne X
- 1.463 — Vonach 97 — a-dep,cs

^{20}Ne X
- 1.463 — Vonach 97 — a-dep,cs

^{23}Ne X
- 1.463 — Vonach 97 — a-dep,cs

^{22}Na X
- 1.463 — Vonach 97 — a-dep,cs

Na X
- 1.463 — Vonach 97 — a-dep,cs

^{24}Na X
- 1.463 — Vonach 97 — a-dep,cs

^{24}Mg X
- 1.463 — Vonach 97 — a-dep,cs

Mg X
- 1.463 — Vonach 97 — a-dep,cs

^{26}Mg X
- 1.463 — Vonach 97 — a-dep,cs

^{26}Si X
- 1.463 — Vonach 97 — a-dep,cs

μ^{-} μ^{+} (neutrals) X
- 450 — Abreu 98U — cs,mass,p,pt

K^{+} $2\pi^{-}$ X
- 250 — Appel 94 — mass

K^{-} $2\pi^{+}$ X
- 250 — Appel 94 — mass

K^{+} K^{-} π^{+} X
- 250 — Appel 94 — mass

K^{+} K^{-} π^{-} X
- 250 — Appel 94 — mass

p ^{27}Al

n X
- 0.8004 — Wakasa 98 — angp,const,pol

^{4}He X
- 0.4895 — Cowley 96 — angp,p
- 0.5708 — Cowley 96 — angp,p
- 0.6444 — Cowley 96 — angp,p

p ^{27}Al

^{7}Be X
- 1.084 — Taddeucci 97 — cs
- 1.457 — Taddeucci 97 — cs

^{24}Na $3p$ n
- 1.084 — Taddeucci 97 — cs
- 1.457 — Taddeucci 97 — cs

^{22}Na $3p$ $3n$
- 1.084 — Taddeucci 97 — cs
- 1.457 — Taddeucci 97 — cs

p Si

π^{+} X
- 8.9 — Bondarev 94 — a-dep,angp

π^{-} X
- 8.9 — Bondarev 94 — a-dep,angp

D^{0} X
- 800 — Alexopoulos 95B — cs

$\overline{D}^{0}$ X
- 800 — Alexopoulos 95B — cs

$J/\psi(1S)$ X
- 800 — Alexopoulos 97 — angp,p,pt
- Alexopoulos 95B — cs
- Alexopoulos 95D — cs
- Alexopoulos 94B — cs,p,pt

$\psi(2S)$ X
- 800 — Alexopoulos 97 — angp,p,pt
- Alexopoulos 95D — cs
- Alexopoulos 94B — cs,p,pt

$\Upsilon(1S)$ X
- 800 — Alexopoulos 95D — cs

$\Upsilon(2S)$ X
- 800 — Alexopoulos 95D — cs

p X
- 8.9 — Bondarev 94 — a-dep,angp

μ^{-} μ^{+} X
- 800 — Alexopoulos 97 — mass
- Alexopoulos 95B — mass
- Alexopoulos 95D — mass
- Alexopoulos 94B — mass

B $\overline{B}$ X
- 800 — Alexopoulos 97B — cs

p ^{28}Si

^{28}Si* p
- 0.6409 — Stephenson 97 — amp,angp,cs,pol
- 0.6418 — Liu 96 — cs,p,pol

^{27}Al $2p$
- 1.696 — Vorobiev 94 — angp,p

^{27}Si p n
- 1.696 — Vorobiev 94 — angp,p

p ^{29}Si

^{28}Al $2p$
- 1.696 — Vorobiev 94 — angp,p

^{28}Si p n
- 1.696 — Vorobiev 94 — angp,p

p ^{30}Si

^{29}Al $2p$
- 1.696 — Vorobiev 94 — angp,p

^{29}Si p n
- 1.696 — Vorobiev 94 — angp,p

p ^{31}Ph

^{30}Si $2p$
- 1.696 — Vorobiev 94 — angp,p

^{30}Ph p n
- 1.696 — Vorobiev 94 — angp,p

p S

charged$^-$ X
200 Venables 97 mult,pt
hadron$^-$ X
200 Alber 97 mult,p,pt
π^+ X
450 Boggild 99 p,pt
Boggild 95C pt
Boggild 94 pt
π^- X
450 Boggild 95C pt
Boggild 94 pt
K^+ X
200 Venables 97 mult,pt
450 Boggild 99 p,pt
Boggild 95C pt
Boggild 94 pt
K^- X
200 Venables 97 mult,pt
450 Boggild 99 p,pt
Boggild 95C pt
Boggild 94 pt
K_S X
200 Alber 94 mult,p,pt
p X
200 Bearden 98C pt
Alber 97 mult,p,pt
450 Bearden 98B p,pt
Boggild 95C pt
Boggild 94 pt
$\bar{p}$ X
200 Bearden 98C pt
Alber 97 mult,p,pt
450 Bearden 98B p,pt
Boggild 95C pt
Boggild 94 pt
Λ X
200 Alber 97 mult,p,pt
Venables 97 mult,pt
Abatzis 96B p,pt
Alber 94 mult,p,pt
$\bar{\Lambda}$ X
200 Alber 97 mult,p,pt
Venables 97 mult,pt
Abatzis 96B p,pt
Alber 94 mult,p,pt
Ξ X
200 Venables 97 mult,pt
Ξ^- X
200 Abatzis 96B p,pt
$\bar{\Xi}^+$ X
200 Venables 97 mult,pt
Abatzis 96B p,pt
K_S (charged-hadrons) X
200 Seyboth 97 mult
Λ (charged-hadrons) X
200 Seyboth 97 mult
$\bar{\Lambda}$ (charged-hadrons) X
200 Seyboth 97 mult
Ξ (charged-hadrons) X
200 Seyboth 97 mult
$\bar{\Xi}^+$ (charged-hadrons) X
200 Seyboth 97 mult

p ^{34}S

^{33}Ph $2p$
1.696 Vorobiev 94 angp,p
^{33}S p n
1.696 Vorobiev 94 angp,p

p ^{36}Ar

KK γ
0.04152 Mohr 98 cs,p

p Ar

π^+ X
0.588 – 0.7613 Jakobsson 97 angp,p
0.588 – 1.09 Jakobsson 97B angp,cs,p
0.5898 – 1.09 Jakobsson 98 cs
0.7291 – 1.09 Jakobsson 97 angp,p

p ^{39}KK

^{38}Ar $2p$
1.696 Vorobiev 94 angp,p
^{38}KK p n
1.696 Vorobiev 94 angp,p

p Ca

$J/\psi(1S)$ X
800 Conrad 95 a-dep,cs,p
μ^- μ^+ X
800 Conrad 95 a-dep,cs,mass,p,pt
Arneodo 92 a-dep,mass,p,pt
p n X
1.082 Taddeucci 94 angp,cs,pol

p ^{40}Ca

^{40}Sc n
0.5211 Watson 94 angp,pol
^{39}KK $2p$
0.943 Cowley 98 angp,cs,p

p ^{42}Ca

inelastic
0.1996 – 0.3039 Carlson 94 cs

p ^{44}Ca

inelastic
0.1996 – 0.3039 Carlson 94 cs

p ^{48}Ca

inelastic
0.1996 – 0.3039 Carlson 94 cs
^{48}Ca p
0.8351 Feldman 94 angp,p,pol
^{48}Ca* p
0.6469 Feldman 94 angp,p,pol
0.8351 Feldman 94 angp,p,pol

p Ti

η X
2.032 Deoliveirama 96 angp,p
$2p$ X
3 Vlasov 95 a-dep,ang,cor,p
7.5 Vlasov 95 a-dep,ang,cor,p

p ^{56}Fe

S X
1.463 Vonach 97 a-dep,cs
^{14}O X
1.463 Vonach 97 a-dep,cs
^{20}Fl X
1.463 Vonach 97 a-dep,cs
^{20}Ne X
1.463 Vonach 97 a-dep,cs
^{22}Ne X
1.463 Vonach 97 a-dep,cs
^{23}Ne X
1.463 Vonach 97 a-dep,cs
^{22}Na X
1.463 Vonach 97 a-dep,cs

p ^{56}Fe

Na X
1.463 Vonach 97 a-dep,cs
^{24}Na X
1.463 Vonach 97 a-dep,cs
^{27}Mg X
1.463 Vonach 97 a-dep,cs
^{28}Mg X
1.463 Vonach 97 a-dep,cs
Al X
1.463 Vonach 97 a-dep,cs
^{28}Al X
1.463 Vonach 97 a-dep,cs
^{29}Al X
1.463 Vonach 97 a-dep,cs
^{26}Si X
1.463 Vonach 97 a-dep,cs
Si X
1.463 Vonach 97 a-dep,cs
^{28}Si X
1.463 Vonach 97 a-dep,cs
^{30}Si X
1.463 Vonach 97 a-dep,cs
Ph X
1.463 Vonach 97 a-dep,cs
^{32}S X
1.463 Vonach 97 a-dep,cs
^{34}S X
1.463 Vonach 97 a-dep,cs
^{36}S X
1.463 Vonach 97 a-dep,cs
^{34}Cl X
1.463 Vonach 97 a-dep,cs
Cl X
1.463 Vonach 97 a-dep,cs
^{39}Cl X
1.463 Vonach 97 a-dep,cs
^{36}Ar X
1.463 Vonach 97 a-dep,cs
^{38}Ar X
1.463 Vonach 97 a-dep,cs
^{40}Ar X
1.463 Vonach 97 a-dep,cs
^{41}Ar X
1.463 Vonach 97 a-dep,cs
^{42}Ar X
1.463 Vonach 97 a-dep,cs
^{38}KK X
1.463 Vonach 97 a-dep,cs
^{42}KK X
1.463 Vonach 97 a-dep,cs
^{40}Ca X
1.463 Vonach 97 a-dep,cs
^{42}Ca X
1.463 Vonach 97 a-dep,cs
^{44}Ca X
1.463 Vonach 97 a-dep,cs
^{46}Ca X
1.463 Vonach 97 a-dep,cs
^{42}Sc X
1.463 Vonach 97 a-dep,cs
^{43}Sc X
1.463 Vonach 97 a-dep,cs
^{44}Sc X
1.463 Vonach 97 a-dep,cs
^{46}Sc X
1.463 Vonach 97 a-dep,cs
^{47}Sc X
1.463 Vonach 97 a-dep,cs
^{48}Sc X
1.463 Vonach 97 a-dep,cs
^{46}Ti X
1.463 Vonach 97 a-dep,cs
^{48}Ti X
1.463 Vonach 97 a-dep,cs

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$p\ ^{56}Fe$

Ti X
1.463 Vonach 97 a-dep,cs
^{50}Ti X
1.463 Vonach 97 a-dep,cs
^{48}Va X
1.463 Vonach 97 a-dep,cs
Va X
1.463 Vonach 97 a-dep,cs
^{48}Cr X
1.463 Vonach 97 a-dep,cs
^{50}Cr X
1.463 Vonach 97 a-dep,cs
^{51}Cr X
1.463 Vonach 97 a-dep,cs
^{52}Cr X
1.463 Vonach 97 a-dep,cs
Cr X
1.463 Vonach 97 a-dep,cs
^{54}Cr X
1.463 Vonach 97 a-dep,cs
^{50}Mn X
1.463 Vonach 97 a-dep,cs
^{52}Mn X
1.463 Vonach 97 a-dep,cs
^{54}Mn X
1.463 Vonach 97 a-dep,cs
^{52}Fe X
1.463 Vonach 97 a-dep,cs
^{53}Fe X
1.463 Vonach 97 a-dep,cs
^{54}Fe X
1.463 Vonach 97 a-dep,cs
^{56}Fe X
1.463 Vonach 97 a-dep,cs

p Fe

ν_e X
70 Bunyatov 95 cs
$\bar{\nu}_e$ X
70 Bunyatov 95 cs
μ^- X
70 Belikov 95 p
μ^+ X
70 Belikov 95 p
charm X
70 Bunyatov 95 cs
Barabash 93 cs
$\overline{\text{charm}}$ X
70 Bunyatov 95 cs
$J/\psi(1S)$ X
800 Conrad 95 a-dep,cs,p
n X
1.463 Ishibashi 94 angp,p
2.25 Ishibashi 94 angp,p
3.825 Ishibashi 94 angp,p
$\mu^-\ \mu^+$ X
800 Conrad 95
a-dep,cs,mass,p,pt
Arneodo 92
a-dep,mass,p,pt
charm $\overline{\text{charm}}$ X
70 Belikov 95 cs

$p\ ^{59}Co$

^3He X
0.4895 Cowley 97 angp,p
0.5708 Cowley 97 angp,p
0.6444 Cowley 97 angp,p
^4He X
0.4895 Cowley 96 angp,p
0.5708 Cowley 96 angp,p
0.6444 Cowley 96 angp,p

$p\ ^{58}Ni$

X
0.1948 – 0.3104
Eliyakutrosh 95 cs

$p\ ^{58}Ni$

π^+ X
8.9 Bondarev 94
a-dep,angp
π^- X
8.9 Bondarev 94
a-dep,angp
p X
8.9 Bondarev 94
a-dep,angp
$^{58}Ni\ p$
0.6302 Sakaguchi 98 angp
0.8004 Sakaguchi 98 angp
0.9543 Sakaguchi 98 angp

p Ni

^6Li X
1.696 Andronenko 94 cs
^7Li X
1.696 Andronenko 94 cs
^7Be X
1.696 Andronenko 94 cs
^{10}Be X + ^9Be X
1.696 Andronenko 94 cs
^{10}Bor X
1.696 Andronenko 94 cs
^{12}Bor X + ^{11}Bor X
1.696 Andronenko 94 cs

$p\ ^{60}Ni$

X
0.1948 – 0.3104
Eliyakutrosh 95 cs

$p\ ^{64}Ni$

π^+ X
8.9 Bondarev 94
a-dep,angp
π^- X
8.9 Bondarev 94
a-dep,angp
p X
8.9 Bondarev 94
a-dep,angp

p Cu

ν_τ X
400 Babu 94 –
$\pi^\pm$ X
60 Stocker 95 a-dep,p
200 Stocker 95 a-dep,p
π^+ X
0.8233 – 0.989 Julien 94 angp,p
0.8681 – 0.9031
Aseev 97 angp,p
2.466 Kiselev 96 angp,p
4.338 Sugaya 97 a-dep,angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
10.1 Boyarinov 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p
800 Albuquerque 96 p,pt
π^0 X
0.8233 – 0.989 Julien 94 angp,p
4.5 Abraamyan 98
a-dep,p,pt
Abraamyan 94B
a-dep,p,pt
Abraamyan 94C
a-dep,angp,p
π^- X
4.338 Sugaya 97 a-dep,angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
10.1 Boyarinov 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p

p Cu

π^- X
800 Albuquerque 96 p,pt
η X
2.032 Deoliveirama 96 angp,p
K^+ X
2.466 Kiselev 96 angp,p
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
10.1 Boyarinov 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p
K^- X
4.848 Sugaya 97 a-dep,angp,p
5.864 Sugaya 97 a-dep,angp,p
10.1 Boyarinov 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p
K_L X
12 Takeuchi 98 –
Nomura 97 –
24 Heinson 94 –
D^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
D^0 X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
$\bar{D}^0$ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
D^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
$D^*(2010)^+$ X
250 Alves 96B a-dep,cs,p,pt
$D^*(2010)^-$ X
250 Alves 96B a-dep,cs,p,pt
D_s^+ X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
D_s^- X
250 Alves 96 p,pt
Alves 96B a-dep,cs,p,pt
Appel 94 cs,p
$J/\psi(1S)$ X
200 Baglin 98 cs
Abreu 97T a-dep,cs
Baglin 95 cs
450 Abreu 98I a-dep,cs
Baglin 98 cs
$\psi(2S)$ X
200 Baglin 95 cs
450 Abreu 98I a-dep,cs
p X
10.1 Boyarinov 94
a-dep,angp
60 Stocker 95 a-dep,p
200 Awes 96 a-dep,p
Stocker 95 a-dep,p
$\bar{p}$ X
4.338 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
4.848 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
5.864 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
10.1 Boyarinov 94
a-dep,angp
12.9 Sugaya 97 a-dep,angp,p
Λ X
24 Belz 96 angp,cs
Σ^+ X
400 Lach 94 pol

p Cu

Σ^+ X		
800	Lach 94	–
	Smith 94C	p,pol,pt
	Timm 94	p,pol
	Morelos 93C	p,pol,pt
Σ^- X		
400	Lach 94	pol
$\overline{\Sigma}^-$ X		
800	Lach 94	–
	Smith 94C	p,pol,pt
Ξ^- X		
400	Lach 94	p,pol
800	Dubbs 93	–
Λ_c^+ X		
250	Alves 96B	a-dep,cs,p,pt
$\overline{\Lambda}_c^-$ X		
250	Alves 96B	a-dep,cs,p,pt
R-baryon X		
800	Albuquerque 96	cs
R-proton X		
800	Farrar 97	cs
	Albuquerque 96	cs
R-Λ X		
800	Albuquerque 96	cs
R-Ξ^- X		
800	Albuquerque 96	cs
deuteron X		
60	Stocker 95	a-dep,p
200	Awes 96	a-dep,p
	Stocker 95	a-dep,p
dibaryon X		
24	Belz 96	angp,cs
$e^- e^+$ X		
400	Babu 94	angp,p
$\mu^- \mu^+$ X		
200	Baglin 95	mass
800	Kaplan 96	–
	Kowitt 94	mass,p,pt
2γ X		
4.5	Abraamyan 94B	mass
	Abraamyan 94C	angp,mass
π^- mult[grey] X		
18	Chemakin 99	mult,p,pt
$J/\psi(1S)$ (neutrals) X		
200	Abreu 97T	a-dep,cs,et
$p\,\gamma$ X		
800	Smith 94C	ang,angp,mass
$\overline{p}\,\gamma$ X		
800	Smith 94C	ang,angp,mass
$p\,\pi^0$ X		
800	Smith 94C	ang,angp,mass
$\overline{p}\,\pi^0$ X		
800	Smith 94C	ang,angp,mass
$2p$ X		
200	Awes 95	angp,cor
$\Sigma^-\,\gamma$ X		
800	Dubbs 93	mass
$\mu^- \mu^+$ (neutrals) X		
450	Abreu 98U	cs,mass,p,pt
$K^+\,2\pi^-$ X		
250	Appel 94	mass
$K^-\,2\pi^+$ X		
250	Appel 94	mass
$K^+\,K^-\,\pi^+$ X		
250	Appel 94	mass
$K^+\,K^-\,\pi^-$ X		
250	Appel 94	mass

p Cu

Zn n		
0.8081 – 0.9543	Sakai 94	angp,p,pol

p ^{64}Zn

π^+ X		
8.9	Bondarev 94	a-dep,angp
π^- X		
8.9	Bondarev 94	a-dep,angp
p X		
8.9	Bondarev 94	a-dep,angp

p Kr

π^+ X		
0.5898 – 1.09	Jakobsson 98	cs

p ^{89}Yt

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p

p ^{90}Zr

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p
^{90}Zr p		
0.1063	Kimure 94	pol
^{89}Yt $2p$		
1.696	Vorobiev 95	angp,p
^{89}Zr $p\,n$		
1.696	Vorobiev 95	angp,p

p ^{92}Mo

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p

p ^{94}Mo

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p

p ^{96}Mo

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p

p Mo

η X		
2.032	Deoliveirama 96	angp,p
fragt X		
2.626	Bardayan 97	cs

p ^{98}Mo

p X		
0.4895	Richter 94	angp,p
0.5708	Richter 94	angp,p
0.6444	Richter 94	angp,p

p Ag

mult[n] X		
1.057	Pienkowski 94	mult
2.784	Pienkowski 94	mult
$\pi^\pm$ X		
60	Stocker 95	a-dep,p
200	Stocker 95	a-dep,p

p Ag

π^+ X		
100	Whitmore 94	mult,p,pt
π^- X		
100	Whitmore 94	mult,p,pt
p X		
60	Stocker 95	a-dep,p
100	Whitmore 94	mult,p
200	Awes 96	a-dep,p
	Stocker 95	a-dep,p
fragt X		
12	Ochiishi 95	angp
deuteron X		
60	Stocker 95	a-dep,p
200	Awes 96	a-dep,p
	Stocker 95	a-dep,p
^{6}Li X		
1.696	Andronenko 94	cs
^{7}Li X		
1.696	Andronenko 94	cs
^{7}Be X		
1.696	Andronenko 94	cs
^{10}Be X + ^{9}Be X		
1.696	Andronenko 94	cs
^{10}Bor X		
1.696	Andronenko 94	cs
^{12}Bor X + ^{11}Bor X		
1.696	Andronenko 94	cs
$2e^-$ X + $2e^+$ X		
450	Akesson 94	a-dep,cs,mass
$e^-\,e^+$ X		
450	Akesson 94	a-dep,cs,mass
$2p$ X		
200	Awes 95	angp,cor
$\mu^-\,\mu^+$ (neutrals) X		
450	Abreu 98U	cs,mass,p,pt
mult[n] fragt charged X		
1.057	Ledoux 98	angp,mult,p
2.784	Ledoux 98	angp,mult,p

p In

p X		
0.4895	Richter 96	angp,p
0.5513	Richter 96	angp,p
0.5992	Richter 96	angp,p
0.6444	Richter 96	angp,p
n X		
1.463	Ishibashi 94	angp,p
2.25	Ishibashi 94	angp,p
3.825	Ishibashi 94	angp,p

p ^{112}Sn

fragt X		
1.294	Alexandryan 96	cs
^{111}In $2p$		
1.294	Danagulyan 97	cs
^{110}Sn $p\,2n$		
1.294	Danagulyan 97	cs

p ^{114}Sn

π^+ X		
8.9	Bondarev 94	a-dep,angp
π^- X		
8.9	Bondarev 94	a-dep,angp
p X		
8.9	Bondarev 94	a-dep,angp

p ^{118}Sn

fragt X		
1.294	Alexandryan 96	cs

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$p\ ^{118}Sn$

$^{118}Sb\ n$		
1.294	Danagulyan 97	cs
$^{117}In\ 2p$		
1.294	Danagulyan 97	cs
$^{117}Sn\ p\ n$		
1.294	Danagulyan 97	cs
$^{117}Sb\ 2n$		
1.294	Danagulyan 97	cs
$^{116}Sb\ 3n$		
1.294	Danagulyan 97	cs
$^{115}Sb\ 4n$		
1.294	Danagulyan 97	cs
$^{113}Sn\ p\ 5n$		
1.294	Danagulyan 97	cs
$^{110}Sn\ p\ 8n$		
1.294	Danagulyan 97	cs

$p\ ^{124}Sn$

π X		
8.9	Bondarev 94	a-dep,angp
π^+ X		
8.9	Bondarev 94	a-dep,angp
p X		
8.9	Bondarev 94	a-dep,angp
fragt X		
1.294	Alexandryan 96	cs
^{125}Sb		
1.294	Danagulyan 97	cs
$^{124}Sb\ n$		
1.294	Danagulyan 97	cs
$^{123}Sn\ p\ n$		
1.294	Danagulyan 97	cs
$^{122}Sb\ 3n$		
1.294	Danagulyan 97	cs
$^{120}Sb\ 5n$		
1.294	Danagulyan 97	cs
$^{118}Sb\ 7n$		
1.294	Danagulyan 97	cs
$^{117}Sn\ p\ 7n$		
1.294	Danagulyan 97	cs
$^{116}Sb\ 9n$		
1.294	Danagulyan 97	cs
$^{115}Sb\ 10n$		
1.294	Danagulyan 97	cs
$^{113}Sn\ p\ 11n$		
1.294	Danagulyan 97	cs
$^{110}Sn\ p\ 14n$		
1.294	Danagulyan 97	cs

p Te

fragt X		
2.626	Bardayan 97	cs
5.864	Bardayan 97	cs

p Xe

π^+ X		
0.588 – 0.7613	Jakobsson 97	angp,p
0.588 – 1.09	Jakobsson 97B	angp,cs,p
0.5898 – 1.09	Jakobsson 98	cs
0.7291 – 1.09	Jakobsson 97	angp,p

p Pr

p X		
0.4895	Richter 96	angp,p
0.6444	Richter 96	angp,p

p Er

p X		
0.4895	Richter 96	angp,p
0.5513	Richter 96	angp,p

p Er

p X		
0.5992	Richter 96	angp,p
0.6444	Richter 96	angp,p

p Yb

p X		
0.4895	Richter 96	angp,p
0.5513	Richter 96	angp,p
0.5992	Richter 96	angp,p
0.6444	Richter 96	angp,p

p Ta

mult[nucleon] X		
4.2 – 10	Dedovich 94	angp,cor,p,pt
π^+ X		
10.1	Boyarinov 94	a-dep,angp
π^- X		
10.1	Boyarinov 94	a-dep,angp
K^+ X		
10.1	Boyarinov 94	a-dep,angp
K^- X		
10.1	Boyarinov 94	a-dep,angp
p X		
0.4895	Richter 96	angp,p
0.5513	Richter 96	angp,p
0.5992	Richter 96	angp,p
0.6444	Richter 96	angp,p
10.1	Boyarinov 94	a-dep,angp
$\bar{p}$ X		
10.1	Boyarinov 94	a-dep,angp
$(\pi\pi)_{atom}$ X		
70	Afanasyev 97	cor,p,pt
	Afanasyev 94	cor,p,pt
mult[grey] mult[charged$^-$] X		
4.2	Garsevanishv 98	col,mult
9.9	Garsevanishv 98	col,mult
mult[grey] mult[shower] X		
2.3	Garsevanishv 98	col,mult
4.2	Garsevanishv 98	col,mult
9.9	Garsevanishv 98	col,mult
$\pi^+\ \pi^-$ X		
70	Afanasyev 96	cor,p,pt
	Afanasyev 94	cor,p,pt
Wt n		
0.8081 – 0.9543	Sakai 94	angp,p,pol

p Wt

hadron$^+$ X		
800	Brown 96	a-dep,p,pt
hadron$^-$ X		
200	Abatzis 94	pt
800	Brown 96	a-dep,p,pt
γ X		
18	Tincknell 96	cs,p,pt
200	Tserruya 95	cs,et,pt
π^+ X		
200	Antinori 97	p,pt
π^0 X		
200	Tserruya 95	cs,et,pt
π^- X		
200	Antinori 97	p,pt
η X		
2.032	Deoliveirama 96	angp,p

p Wt

ρ X		
200	Mazzoni 94	cs,p,pt
ω X + ρ^0 X		
200	Abreu 96ZE	pt
	Abreu 96ZF	pt
ω X + ρ X		
200	Gerschel 95	cs,pt
	Masera 95	p,pt
ω X		
200	Mazzoni 94	cs,p,pt
K^0 X + $\bar{K}^0$ X		
200	Abatzis 94	pt
$\phi(1020)$ X		
200	Abreu 96ZE	pt
	Abreu 96ZF	pt
	Gerschel 95	cs,pt
	Masera 95	p,pt
	Mazzoni 94	cs,p,pt
D^+ X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D^0 X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
$\bar{D}^0$ X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
D^- X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
$D^*(2010)^+$ X		
250	Alves 96B	a-dep,cs,p,pt
$D^*(2010)^-$ X		
250	Alves 96B	a-dep,cs,p,pt
D_s^+ X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
D_s^- X		
250	Alves 96	p,pt
	Alves 96B	a-dep,cs,p,pt
	Appel 94	cs,p
$J/\psi(1S)$ X		
200	Baglin 98	cs
	Abreu 97T	a-dep,cs
	Baglin 95	cs
	Baglin 95B	cs
	Gerschel 95	cs,pt
	Lourenco 95	cs,p,pt
	Tserruya 95	cs
	Lourenco 94	cs
	Lourenco 93	cs
450	Abreu 98I	a-dep,cs
	Baglin 98	cs
800	Conrad 95	a-dep,cs,p
	Leitch 95	a-dep,p,pt
$\psi(2S)$ X		
200	Baglin 95	cs
	Baglin 95B	cs
	Gerschel 95	cs,pt
	Lourenco 95	cs,p,pt
	Tserruya 95	cs
	Lourenco 94	cs
	Lourenco 93	cs
450	Abreu 98I	a-dep,cs
p X		
200	Antinori 97	p,pt
$\bar{p}$ X		
200	Antinori 97	p,pt
Λ X		
200	Abatzis 97	p,pt
	Seyboth 97	mult
	Abatzis 95D	cs
	Abatzis 94	pt

p Wt

$\overline{\Lambda}$ X
200 Abatzis 97 p,pt
Seyboth 97 mult
Abatzis 95D cs
Abatzis 94 pt

Ξ^- X
200 Abatzis 97 p,pt
Seyboth 97 mult
Abatzis 95D cs
Abatzis 94 pt

$\overline{\Xi}^+$ X
200 Abatzis 97 p,pt
Seyboth 97 mult
Abatzis 95D cs
Abatzis 94 pt

Λ_c^+ X
250 Alves 96B a-dep,cs,p,pt

$\overline{\Lambda}_c^-$ X
250 Alves 96B a-dep,cs,p,pt

fragt X
0.6266 Duijvestijn 99 a-dep,cs

$2\mu^-$ X + $2\mu^+$ X
200 Abreu 96ZE mass

μ^- μ^+ X
200 Angelis 98 mass
Abreu 96ZE mass,pt
Delosheros 96 mass
Lourenco 95 mass
Masera 95 mass
Tserruya 95 cs,mass
Lourenco 94 cs,mass
Mazzoni 94 mass
Lourenco 93 cs,mass
800 Conrad 95 a-dep,cs,mass,p,pt
Leitch 95 mass
Arneodo 92 a-dep,mass,p,pt

hadron$^+$ hadron$^-$ X
800 Brown 96 a-dep,cor,mass,p,pt

$\bar{c}$ c X
200 Lourenco 94 cs

ω (neutrals) X + ρ^0 (neutrals) X
200 Abreu 96ZF et,pt

ω mult[charged] X +
ρ mult[charged] X
200 Angelis 97 cs,mult,p,pt
Masera 95 cs

ϕ(1020) (neutrals) X
200 Abreu 96ZF et,pt

ϕ(1020) mult[charged] X
200 Angelis 97 cs,mult,p,pt
Masera 95 cs

$J/\psi(1S)$ (neutrals) X
200 Abreu 97T a-dep,cs,et

$J/\psi(1S)$ mult[charged] X
200 Angelis 97 cs,mult,p,pt

μ^- μ^+ (neutrals) X
450 Abreu 98U cs,mass,p,pt

μ^- μ^+ mult[charged] X
200 Angelis 98 cor,mass,mult,p,pt

K^+ $2\pi^-$ X
250 Appel 94 mass

K^- $2\pi^+$ X
250 Appel 94 mass

K^+ K^- π^+ X
250 Appel 94 mass

K^+ K^- π^- X
250 Appel 94 mass

p Pt

μ^+ X
12 Aoki 94 p,pol

K^+ X
12 Aoki 94 p

D^0 X
800 Mishra 94 pt

$\overline{D}^0$ X
800 Mishra 94 pt

$J/\psi(1S)$ X
800 Mishra 94 p,pt

p X
12.9 Saito 94 a-dep,angp,cs,p

deuteron X
12.9 Saito 94 a-dep,angp,cs,p

dibaryon X
24.1 Belz 96B angp,cs,p

^{3}H X
12.9 Saito 94 a-dep,angp,cs,p

^{3}He X
12.9 Saito 94 a-dep,angp,cs,p

^{4}He X
12.9 Saito 94 a-dep,angp,cs,p

μ^- μ^+ X
800 Mishra 94 mass,p

p Au

mult[n] X
1.057 Pienkowski 94 mult
2.784 Pienkowski 94 mult

hadron$^-$ X
200 Alber 97 mult,p,pt

$\pi^\pm$ X
60 Stocker 95 a-dep,p
200 Stocker 95 a-dep,p

π^+ X
100 Whitmore 94 mult,p,pt

π^0 X
450 Agakishiev 98 cs,p
Notheisen 96 pt

π^- X
100 Whitmore 94 mult,p,pt

η X
2.032 Deoliveirama 96 angp,p
450 Agakishiev 98 cs,p
Notheisen 96 pt

ρ^0 X
450 Agakishiev 98 cs,p

ω X
450 Agakishiev 98 cs,p
Notheisen 96 pt

η' X
450 Agakishiev 98 cs,p

ϕ(1020) X
450 Agakishiev 98 cs,p

D^0 X
800 Halling 96 a-dep,cs,p,pt
Kaplan 96 a-dep,cs,p,pt
Leitch 94 a-dep,cs,p,pt

$\overline{D}^0$ X
800 Halling 96 a-dep,cs,p,pt
Kaplan 96 a-dep,cs,p,pt
Leitch 94 a-dep,cs,p,pt

$J/\psi(1S)$ X
800 Kaplan 96 a-dep,cs,p,pt
Slaughter 96 p,pt
Sansoni 95 cs,p,pt
Schub 95 cs,p,pt
Jansen 94 p,pt
Kowitt 94 a-dep,p

p Au

$\psi(2S)$ X
800 Kaplan 96 cs,p,pt
Sansoni 95 cs,p,pt
Schub 95 cs,p,pt

B X
800 Slaughter 96 cs,p,pt
Jansen 94 cs,p,pt

B X + $\overline{B}$ X
800 Kaplan 96 cs

$\overline{B}$ X
800 Slaughter 96 cs,p,pt
Jansen 94 cs,p,pt

p X
18 Chemakin 98 mult
60 Stocker 95 a-dep,p
100 Whitmore 94 mult,p
200 Alber 97 mult,p,pt
Awes 96 a-dep,p
Stocker 95 a-dep,p

$\overline{p}$ X
200 Alber 97 mult,p,pt

Λ X
18 Ogilvie 97 p
200 Alber 97 mult,p,pt

$\overline{\Lambda}$ X
200 Alber 97 mult,p,pt

frag X
2.16 Karnaukhov 96 mult,p
2.953 Avdeyev 98 mult,p,pt
3.6 Karnaukhov 96 mult,p
4.44 Avdeyev 98 mult,p,pt
8.1 Karnaukhov 96 mult,p
8.989 Avdeyev 98 mult,p,pt

fragt X
2.16 Avdeyev 97 mass,mult,p
3.6 Avdeyev 97 mass,mult,p
8.1 Avdeyev 97 mass,mult,p
12 Ochiishi 95 angp

deuteron X
60 Stocker 95 a-dep,p
200 Awes 96 a-dep,p
Stocker 95 a-dep,p

He X
2.784 Ledoux 98 angp,p

Na X
12 Tanaka 94 angp

e^- e^+ X
200 Delosheros 96 mass
Agakichiev 95 mass
Tserruya 95 mass
450 Agakishiev 98 mass
Delosheros 96 mass
Ceretto 95 mass

μ^- μ^+ X
800 Sansoni 95 mass,p,pt
Schub 95 mass,p,pt
Jansen 94 mass,mass,p,pt

charged$^+$ charged$^-$ X
200 Bachler 94C col,p,pt
Fialkowski 94 col,p,pt

2charged$^-$ X
200 Bachler 94C col,p,pt
Fialkowski 94 col,p,pt

hadron$^+$ hadron$^-$ X
200 Wosiek 94 cor

2hadron$^-$ X
200 Wosiek 94 cor

π^- mult[grey] X
18 Chemakin 99 mult,p,pt

$2\pi^+$ X
5.762 Awes 96 ang,cor
200 Awes 96 ang,cor

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

p Au

$2\pi^+$ X

	Awes 95B	angp,cor

$\pi^+ \pi^-$ X

18	Cole 98	mass

mult[p] K_S X

18	Cole 98	p

$K^+ K^-$ X

12.9	Yokkaich 98	mass

$p \pi^-$ X

18	Chemakin 98	mass
	Cole 98	mass

2p X

5.762	Awes 96	ang,cor
200	Awes 96	ang,cor
	Awes 95	angp,cor

mult[p] Λ X

18	Chemakin 98	p
	Cole 98	p

2fragt X

12	Tanaka 94	ang,angp

$e^- e^+ \gamma$ X

450	Delosheros 96	mass
	Ceretto 95	mass

2charged (chargeds) X

200	Bachler 94C	col,p,pt
	Fialkowski 94	col,p,pt

$p \Lambda \pi^-$ X

18	Chemakin 98	mass

mult[n] fragt charged X

1.057	Ledoux 98	angp,mult,p
2.784	Ledoux 98	angp,mult,p

$e^- e^+ 2\gamma$ X

450	Notheisen 96	mass

p ^{197}Au

mult[grey] X

6	Kwiatkowski 98	angp
10	Kwiatkowski 98	angp
12.8	Kwiatkowski 98	angp
14.6	Kwiatkowski 98	angp

fragt X

0.6266	Duijvestijn 99	a-dep,cs
6	Hsi 98	angp,p
	Kwiatkowski 98	mult
10	Hsi 98	angp,p
	Kwiatkowski 98	mult
12.8	Hsi 98	angp,p
	Kwiatkowski 98	mult
14.6	Hsi 98	angp,p
	Kwiatkowski 98	mult

^{3}He X

0.4895	Cowley 97	angp,p
0.5708	Cowley 97	angp,p
0.6444	Cowley 97	angp,p

^{4}He X

0.4895	Cowley 96	angp,p
0.5708	Cowley 96	angp,p
0.6444	Cowley 96	angp,p

C X

6	Kwiatkowski 98	angp
10	Kwiatkowski 98	angp
12.8	Kwiatkowski 98	angp
14.6	Kwiatkowski 98	angp

p ^{206}Pb

^{206}Pb p

1.281	Mack 95	angp,cs,pol

^{206}Pb* p

1.281	Mack 95	angp,cs,pol

p Pb

X

14.6	Stocker 95	et
	Rosati 94	et

p Pb

charged X

14.6	Barrette 95D	et,mult,p
	Stocker 95	angp,mult
	Rosati 94	angp,mult

mult[n] X

2	Pienkowski 97	mult
3	Pienkowski 97	mult
4	Pienkowski 97	mult
5	Pienkowski 97	mult

π^+ X

1.921	Debowski 96	angp,p
2.25	Debowski 96	angp,p
8.9	Bondarev 94	a-dep,angp
12.9	Sugaya 97	a-dep,angp,p
450	Boggild 99	p,pt
	Boggild 95C	pt
	Boggild 94	pt

π^- X

8.9	Bondarev 94	a-dep,angp
12.9	Sugaya 97	a-dep,angp,p
450	Boggild 95C	pt
	Boggild 95D	p,pt
	Boggild 94	pt

K^+ X

1.921	Debowski 96	angp,p
2.25	Debowski 96	angp,p
12.9	Sugaya 97	a-dep,angp,p
450	Boggild 99	p,pt
	Boggild 95C	pt
	Boggild 94	pt

K^0 X

200	Andersen 94B	p,pt

K^- X

12.9	Sugaya 97	a-dep,angp,p
450	Boggild 99	p,pt
	Boggild 95C	pt
	Boggild 95D	p,pt
	Boggild 94	pt

$J/\psi(1S)$ X

200	Abreu 97T	a-dep,cs

p X

8.9	Bondarev 94	a-dep,angp
200	Bearden 98C	pt
450	Bearden 98B	p,pt
	Boggild 95B	p,pt
	Boggild 95C	pt
	Boggild 94	pt

n X

1.457	Prout 95	angp,p,pol
1.463	Ishibashi 94	angp,p
2.25	Ishibashi 94	angp,p
3.825	Ishibashi 94	angp,p

$\bar{p}$ X

12.9	Sugaya 97	a-dep,angp,p
200	Bearden 98C	pt
450	Bearden 98B	p,pt
	Boggild 95C	pt
	Boggild 94	pt

Λ X

158	Andersen 98	p,pt
158.9	Vassiliadis 96	pt
200	Andersen 94B	p,pt

$\bar{\Lambda}$ X

158	Andersen 98	p,pt
158.9	Vassiliadis 96	pt
200	Andersen 94B	p,pt

Ξ^- X

158	Andersen 98	p,pt

$\bar{\Xi}^+$ X

158	Andersen 98	p,pt

Ω^- X

158	Andersen 98	p,pt

$\bar{\Omega}^+$ X

158	Andersen 98	p,pt

p Pb

fragt X

0.6266	Duijvestijn 99	a-dep,cs

deuteron X

450	Boggild 95B	p,pt

$\overline{\text{deuteron}}$ X

450	Boggild 95B	p,pt

2π^+ X

200	Bearden 96C	cor
450	Boggild 95	cor
	Boggild 94B	angp,cor
	Beker 93	angp,cor

K^0 mult[charged$^-$] X

200	Andersen 94B	mult

2K^+ X

200	Bearden 96C	cor
450	Boggild 95	cor
	Beker 94C	cor,pt
	Beker 93	angp,cor

$J/\psi(1S)$ (neutrals) X

200	Abreu 97T	a-dep,cs,et

2p X

3	Vlasov 95	a-dep,ang,cor,p
7.5	Vlasov 95	a-dep,ang,cor,p
	Doroshkevich 94	cor,pt
450	Boggild 98	cor,p,pt

Λ mult[charged$^-$] X

200	Andersen 94B	mult

$\bar{\Lambda}$ mult[charged$^-$] X

200	Andersen 94B	mult

$\Lambda \pi^-$ X

158.9	Vassiliadis 96	mass

$\bar{\Lambda} \pi^+$ X

158.9	Vassiliadis 96	mass

ΛK^- X

158.9	Vassiliadis 96	mass

$\bar{\Lambda} K^+$ X

158.9	Vassiliadis 96	mass

n frag (frags)

0.6391	Lott 97	mult,p

Bi n

0.8081 – 0.9543	Sakai 94	angp,p,pol

p ^{207}Pb

^{207}Pb p

1.281	Mack 95	angp,cs,pol

^{207}Pb* p

1.281	Mack 95	angp,cs,pol

p ^{208}Pb

fragt X

0.6266	Duijvestijn 99	a-dep,cs

^{2}He X

0.941	Matsuoka 95	angp

^{208}Pb p

1.281	Mack 95	angp,cs,pol

^{208}Pb* p

1.281	Mack 95	angp,cs,pol

^{207}Tl 2p

1.696	Vorobiev 95	angp,p

^{207}Pb p n

1.696	Vorobiev 95	angp,p

p Bi

mult[n] X

1.057	Pienkowski 94	mult
2.784	Pienkowski 94	mult

frag X

1.696	Kulessa 98B	cs
2.679	Kulessa 98B	cs

p Bi

hypernucleus X

1.696	Kulessa 98B	cs
1.9	Kulessa 98	cs
2.679	Kulessa 98B	cs

mult[n] fragt charged X

1.057	Ledoux 98	angp,mult,p
2.784	Ledoux 98	angp,mult,p

p ^{232}Th

fragt X

0.6266	Duijvestijn 99	a-dep,cs

p U

mult[n] X

1.057	Pienkowski 94	mult
1.944	Pienkowski 97	mult
2.784	Pienkowski 94	mult
4	Pienkowski 97	mult
5.001	Pienkowski 97	mult

$J/\psi(1S)$ X

200	Baglin 98	cs
	Abreu 97T	a-dep,cs
	Baglin 95	cs
	Baglin 95B	cs
	Gerschel 95	cs,pt
	Baglin 94	cs
	Lourenco 94	cs

$\psi(2S)$ X

200	Baglin 95	cs
	Baglin 95B	cs
	Gerschel 95	cs,pt
	Baglin 94	cs
	Lourenco 94	cs

$\mu^- \mu^+$ X

200	Baglin 98C	mass
	Baglin 95B	mass
	Tserruya 95	cs,mass
	Baglin 94	mass
	Lourenco 94	cs,mass

$\bar{c}$ c X

200	Lourenco 94	cs

ω (neutrals) X + ρ (neutrals) X

200	Gerschel 95	cs,pt

$\phi(1020)$ (neutrals) X

200	Gerschel 95	cs,pt

$J/\psi(1S)$ (neutrals) X

200	Abreu 97T	a-dep,cs,et
	Baglin 95B	cs,et

$\psi(2S)$ (neutrals) X

200	Baglin 95B	cs,et

hypernucleus K^+ X

2.25	Ohm 97	cs

mult[n] fragt charged X

1.057	Ledoux 98	angp,mult,p
2.784	Ledoux 98	angp,mult,p

n e^-

n e^-

$10^{-10} - 3.6 \cdot 10^{-7}$	Kopecky 95	amp,const,cs

n nucleon

D^0 X

560	Wiss 96	–

$\bar{D}^0$ X

560	Wiss 96	–

n p

X

0.0829 – 0.1481	Wilburn 95	asym,cs
1.911	Adyasevich 96	asym,cs
1.922	Sharov 96	asym,cs
3.298	Adyasevich 96	asym,cs
3.309	Sharov 96	asym,cs

n p

X

4.492	Adyasevich 96	asym,cs
4.503	Sharov 96	asym,cs

π^- X

1.25	Gankhuyag 98	p,pt
1.73	Gankhuyag 98	p,pt
2.23	Gankhuyag 98	p,pt
5.1	Gankhuyag 98	p,pt

p X

1.697	Sawada 97	angp,p

n X

0.575	Rahm 98	angp,p

deuteron X

1.697	Sawada 97	angp,mass,p
2.785	Sawada 97	angp,mass,p

$2\pi^-$ X

5.2	Lyuboshitz 95	cs,mass

p n

0.175	Broz 95	cs,pol
0.2311 – 0.3828	Benck 97	angp
0.3666	Goetz 94	angp
0.4354	Olsson 98	angp
0.575	Olsson 98	angp
	Ericson 95	angp,const
0.5996 – 0.7458	Davis 95	angp,asym
0.7458	Ahmidouch 98	pol
0.8268 – 1.81	Ball 94C	pol
0.8359	Ahmidouch 98	pol
0.8789	Zhao 98	angp,asym
	Abegg 95	angp,asym
	Abegg 95B	angp,asym
0.8833	Abegg 94B	angp,asym
	Zhao 94	angp,asym
0.9351	Ahmidouch 98	pol
1.053	Ahmidouch 98	pol
1.069	Carlson 96	angp,asym,cs,p,pwa
1.091 – 1.464	Beddo 93	cs,pol
1.14	Ahmidouch 98	pol
1.178	Carlson 96	angp,asym,cs,p,pwa
1.262	Carlson 96	angp,asym,cs,p,pwa
< 1.3	Arndt 94	pwa
1.368	Carlson 96	angp,asym,cs,p,pwa
1.45	Carlson 96	angp,asym,cs,p,pwa
1.464 – 1.81	Ball 94D	angp,pol
	Ball 93C	pol
1.535 – 1.628	Ball 94	cs
< 1.697	Arndt 95B	amp,angp,const,cs

deuteron γ

< 0.0528	Athanassopou 96B	p
0.3639	Tuccillo 94	pol
0.6143	Xu 95B	angp,asym

$2p$ π^-

1.014	Bachman 95	angp,asym
1.024 – 1.181	Bannwarth 92	angp,cs,p
3.83	Gankhuyag 98	p,pt
5.1	Gankhuyag 98	p,pt

$2n$ π^+

1.024 – 1.181	Bannwarth 92	angp,cs,p

p n $f_0(400-1200)$

5.2	Troyan 98	cs

dibaryon^{+++} $2\pi^-$

5.2	Troyan 98B	cs
	Troyan 94	cs

$2p$ π^+ meson^{--}

5.2	Troyan 96	cs

$2p$ π^0 π^-

3.83	Gankhuyag 98	p,pt
5.1	Gankhuyag 98	p,pt
5.2	Troyan 98	mass

p n π^+ π^-

3.83	Gankhuyag 98	p,pt

n p

p n π^+ π^-

5.1	Gankhuyag 98	p,pt
5.2	Troyan 98	mass

$2p$ η π^-

5.2	Troyan 98B	cs

$2p$ ω π^-

5.2	Troyan 98B	cs

dibaryon^{+++} π^0 $2\pi^-$

5.2	Troyan 94	cs

$2p$ π^+ $2\pi^-$

3.9	Troyan 98B	mass
4.4	Troyan 98B	mass
5.2	Troyan 98B	mass
	Troyan 96	ang,mass
	Lyuboshitz 95	cs,mass
	Troyan 94	angp,mass

$2p$ π^+ π^0 $2\pi^-$

3.9	Troyan 98B	mass
4.4	Troyan 98B	mass
5.2	Troyan 98B	mass
	Lyuboshitz 95	cs,mass
	Troyan 94	angp,mass

p n $2\pi^+$ $2\pi^-$

5.2	Lyuboshitz 95	cs,mass

n n

charged$^-$ X

1.424 – 405	Gazdzicki 95	mult

$2n$

0.	Howell 98	amp

n nucleus

D^- X

40 – 70	Aleev 93C	mass

Λ_c^+ X

40 – 70	Aleev 93C	mass

n deuteron

deuteron n

0.07514	Mcaninch 94	asym,pol
0.1686	Hempen 98	angp,pol
0.1795	Hempen 98	angp,pol
0.1899	Hempen 98	angp,pol
0.2217	Hempen 98	angp,pol
0.3611	Balewski 95	angp

p $2n$

0.1568	Setze 96	angp,cs,p
0.1686	Hempen 98	angp,pol
0.1795	Hempen 98	angp,pol
0.1899	Hempen 98	angp,pol
0.2217	Hempen 98	angp,pol
0.3611	Balewski 95	angp,p

n ^{3}He

X

0.06041	Keith 94	cs
0.06041 – 0.1186	Keith 96	asym,cs
0.0829	Keith 94	cs
0.09638	Keith 94	cs
0.1184	Keith 94	cs

n C

$\phi(1020)$ X

20 – 70	Aleev 96B	cs,p,pt

p X

0.2858	Slypen 95	angp,cs,p
0.3489	Slypen 95	angp,cs,p
0.377	Slypen 95	angp,cs,p

Λ X

4 – 10	Bulekov 97	p,pt
	Vishnevsky 94	p,pol,pt

Ξ^- X

260	Adamovich 97	a-dep,cs,p,pt

deuteron X

0.2858	Slypen 95	angp,cs,p

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n C

deuteron X
0.3489 Slypen 95 angp,cs,p
0.377 Slypen 95 angp,cs,p
^{3}H X
0.2858 Slypen 96 angp,cs,p
0.3489 Slypen 96 angp,cs,p
0.377 Slypen 96 angp,cs,p
^{4}He X
0.2858 Slypen 96 angp,cs,p
0.3489 Slypen 96 angp,cs,p
0.377 Slypen 96 angp,cs,p
$p\ \pi^-$ X
4 – 10 Vishnevsky 94 mass
Λ (neutrals) X
4 – 10 Vlasova 96 p,pol,pt
$\Lambda\ K^0$ X
4 – 10 Bulekov 98 a-dep,mass,p
$\Lambda_c^+\ \pi^-$ X
19.98 – 69.99 Aleev 96C mass
$\Lambda\ 2\pi^+$ X
19.98 – 69.99 Aleev 96C mass
$p\ K_S\ \pi^+\ 2\pi^-$ X
19.98 – 69.99 Aleev 96C mass

n ^{12}C

$N\phi(1950)^0$ X
40 Landsberg 94C ang,cs,p,pt
$\Lambda\ K^+\ \pi^-$ X
40 Landsberg 94C mass

n ^{13}C

^{13}Bor p
0.4854 Martoff 96 angp,cs,p

n Al

p X
0.3489 Benck 98 angp,cs,p
deuteron X
0.3489 Benck 98 angp,cs,p
^{3}H X
0.3489 Benck 98 angp,cs,p
He X
0.3489 Benck 98 angp,cs,p

n ^{27}Al

^{27}Mg $p\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{27}Al $n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{23}Na ^{4}He $n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{25}Mg deuteron $n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{26}Mg $p\ n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{26}Al $2n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{22}Ne ^{4}He $p\ n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{24}Mg deuteron $2n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{25}Mg $p\ 2n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs

n ^{27}Al

^{18}Fl 2^4He $2n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{21}Ne ^{4}He $p\ 2n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{24}Mg $p\ 3n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{20}Ne ^{4}He $p\ 3n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{23}Na $2p\ 3n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{22}Ne $3p\ 3n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{18}Fl ^{4}He $2p\ 4n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{21}Ne $3p\ 4n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{20}Ne $3p\ 5n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs
^{18}Fl $4p\ 6n\ \gamma$
0.07514 – 0.9548 Pavlik 98 cs

n ^{31}Ph

^{31}Si* p
0.6413 Sedlar 99 angp,p

n ^{58}Ni

Co* < Co γ > p
0.06134 – 0.1686 Avrigeanu 98 cs

n Cu

Ξ^- X
260 Adamovich 97 a-dep,cs,p,pt
$\Lambda\ K^0$ X
4 – 10 Bulekov 98 a-dep,mass,p

n ^{81}Br

^{82}Br γ
0. Adachi 94 angp,asym,pwa

n ^{93}Nb

^{94}Nb γ
0. Adachi 94 angp,asym,pwa

n ^{108}Pd

^{109}Pd γ
0. Adachi 94 angp,asym,pwa

n ^{111}Cd

^{112}Cd γ
0. Adachi 94 angp,asym,pwa

n ^{120}Sn

^{120}In p
0.8055 Long 98 a-dep,angp,cs,p

n ^{124}Sn

^{125}Sn γ
0. Adachi 94 angp,asym,pwa

n ^{139}La

^{139}La n
$3.358 \cdot 10^{-5}$ – $4.335 \cdot 10^{-5}$ Alfimenkov 96 const,cs
La* γ
< 0.1628 Bisplinghoff 94 cs
^{140}La γ
0. Adachi 94 angp,asym,pwa

n ^{181}Ta

^{181}Hf p
0.8055 Long 98 a-dep,angp,cs,p

n Pb

Λ X
4 – 10 Bulekov 97 p,pt
Vishnevsky 94 p,pol,pt
$p\ \pi^-$ X
4 – 10 Vishnevsky 94 mass
Λ (neutrals) X
4 – 10 Vlasova 96 p,pol,pt

n ^{208}Pb

fragt X
0.3775 – 0.575 Eismont 96 cs
^{208}Pb n
0.0003065 – 0.00867 Enik 97 cs

n ^{209}Bi

fragt X
0.3775 – 0.575 Eismont 96 cs

n ^{238}U

fragt X
0.3775 – 0.575 Eismont 96 cs
^{238}Pa p
0.8359 Long 98 a-dep,angp,cs,p
U* γ
< 0.1628 Bisplinghoff 94 cs

$\bar{n}\ p$

annihil
0.18 Ableev 94H a-dep,cs
0.24 Ableev 94H a-dep,cs
0.281 Ableev 94H a-dep,cs
π^+ meson^0
0. Zenoni 94 –
0.05 – 0.4 Iazzi 96 –
0.05 – 0.405 Bertin 98 cs
0.1 – 0.29 Filippi 96 –
< 0.2 Feliciello 94 –
> 0.25 Feliciello 94 –
> 0.27 Feliciello 94 –
$\pi^+\ \pi^0$
0.05 – 0.4 Bertin 97D amp,angp,cs,p
$\eta\ \pi^+$
0.05 – 0.4 Bertin 97D amp,angp,cs,p
$\rho^0\ \pi^+$
0.05 – 0.405 Bertin 98 cs
0.1 – 0.29 Filippi 96 –
$\omega\ \pi^+$
0.05 – 0.4 Iazzi 96 cs
0.064 – 0.297 Ableev 94D cs
0.1 – 0.297 Lucherini 94 cs
< 0.2 Sapozhnikov 95 cs
$f_2(1270)\ \pi^+$
0.05 – 0.405 Bertin 98 cs
0.1 – 0.29 Filippi 96 –
$f_0(1370)\ \pi^+$
0.05 – 0.405 Bertin 98 cs
$\rho(1450)^0\ \pi^+$
0.05 – 0.405 Bertin 98 cs

$\bar{n}\,p$

$f_0(1500)\,\pi^+$
- 0.05 – 0.405 Bertin 98 cs

$f_2(1565)\,\pi^+$
- 0.05 – 0.405 Bertin 98 cs

$K^+\,K_S$
- 0.05 – 0.4 Bertin 97D amp,angp,cs,p

$\phi(1020)\,\pi^+$
- 0. Sapozhnikov 94B cs
- 0.05 – 0.4 Iazzi 96 cs
- 0.064 – 0.297 Ableev 94D cs
- 0.1 – 0.297 Lucherini 94 cs
- < 0.2 Sapozhnikov 95 cs

$\pi^+\,(\pi\pi)_{I=0}$
- 0.05 – 0.405 Bertin 98 cs

$\pi^+\,(\pi\pi)_{I=1}$
- 0.05 – 0.405 Bertin 98 cs

$2\pi^+\,\pi^-$
- 0. Zenoni 94 mass
- 0.05 – 0.4 Iazzi 96 mass
- 0.05 – 0.405 Bertin 98 amp,mass,pwa

$K^+\,K^-\,\pi^+$
- 0.064 – 0.297 Ableev 94D mass
- 0.1 – 0.297 Lucherini 94 mass

$2\pi^+\,\pi^0\,\pi^-$
- 0.064 – 0.297 Ableev 94D mass
- 0.1 – 0.297 Lucherini 94 mass

$3\pi^+\,2\pi^-$
- 0.05 – 0.4 Iazzi 96 mass
- 0.1 – 0.29 Filippi 96 mass
- < 0.2 Feliciello 94 mass
- > 0.25 Feliciello 94 mass
- > 0.27 Feliciello 94 mass

$\bar{n}$ C

annihil
- 0. Baldoceolin 94 cs
- 0.18 Ableev 94H a-dep,cs
- 0.24 Ableev 94H a-dep,cs
- 0.281 Ableev 94H a-dep,cs

$\bar{n}$ Al

annihil
- 0.18 Ableev 94H a-dep,cs
- 0.24 Ableev 94H a-dep,cs
- 0.281 Ableev 94H a-dep,cs

$\bar{n}$ Fe

inelastic
- 0.125 – 0.78 Barbina 97 cs

$\bar{n}$ Cu

annihil
- 0.18 Ableev 94H a-dep,cs
- 0.24 Ableev 94H a-dep,cs
- 0.281 Ableev 94H a-dep,cs

$\bar{n}$ Sn

annihil
- 0.18 Ableev 94H a-dep,cs
- 0.24 Ableev 94H a-dep,cs
- 0.281 Ableev 94H a-dep,cs

$\bar{n}$ Pb

annihil
- 0.18 Ableev 94H a-dep,cs
- 0.24 Ableev 94H a-dep,cs
- 0.281 Ableev 94H a-dep,cs

$\bar{p}\,p$

X
- < 0.925 Timmermans 94 cs
- 200 Grosnick 97 asym
- (541) Augier 94 cs
- (546) Abe 93S cs
- Belforte 93 cs
- (1800) Avila 99 cs
- Abe 93S cs

$\bar{p}\,p$

X
- Belforte 93 cs

inelastic
- (546) Abe 93S cs
- Belforte 93 cs
- (1800) Avila 99 cs
- Abe 93S cs
- Belforte 93 cs

annihil
- 0. Bertin 96F cs
- < 10^{-6} Bertin 96E cs
- 0.001 – 0.066 Ableev 94F cs
- 0.043 – 0.175 Bertin 96B cs
- Bertin 96I cs,pwa
- < 0.925 Timmermans 94 cs

e^- X
- (1800) Bazizi 94 et,pt
- Frisch 94 et,mass,p

e^+ X
- (1800) Bazizi 94 et,pt
- Frisch 94 et,mass,p

μ^- X
- (630) Albajar 95 ang,p,pt
- (1800) Abachi 96L p,pt
- Narayanan 96 p,pt
- Abachi 95P p,pt
- Abachi 94C cs,p,pt
- Barker 94 p,pt
- Bazizi 94 pt
- Byrum 94 pt
- Frisch 94 et,mass,p
- Hedin 94 p,pt
- Shochet 94 cs,pt

μ^+ X
- (630) Albajar 95 ang,p,pt
- (1800) Abachi 96L p,pt
- Kotwal 96 col,p,pt
- Narayanan 96 p,pt
- Abachi 95P p,pt
- Abachi 94C cs,p,pt
- Barker 94 p,pt
- Bazizi 94 pt
- Byrum 94 pt
- Frisch 94 et,mass,p
- Hedin 94 p,pt
- Shochet 94 cs,pt

mult[charged] X
- 32 Bogolyubsky 94 col,mult,p
- (200) Alexopoulos 98 mult
- (300) Alexopoulos 98 mult
- Alexopoulos 95 cor,mult,p
- (546) Alexopoulos 98 mult
- Alexopoulos 95 cor,mult,p
- (900) Alexopoulos 98 mult
- (1000) Alexopoulos 98 mult
- Alexopoulos 95 cor,mult,p
- (1800) Alexopoulos 98 mult
- Alexopoulos 95 cor,mult,p
- Rimondi 94 mult,p,pt

charged X
- (300) Alexopoulos 94C angp,pt
- (540) Goulianos 94 mult
- (560) Alexopoulos 94C angp,pt
- (630) Harr 97 p
- Bocquet 95C mult,p,pt
- Bocquet 94 p,pt
- (1000) Alexopoulos 94C angp,pt
- (1800) Alexopoulos 95C mult,p,pt
- Abe 94L mult,p,pt
- Alexopoulos 94C angp,pt

$\bar{p}\,p$

charged$^+$ X
- (630) Bocquet 95C mult,p,pt
- Bocquet 94 p,pt

charged$^-$ X
- (630) Bocquet 95C mult,p,pt
- Bocquet 94 p,pt

mult[charged] (neutrals)
- (200) Dremin 94 mult
- (900) Dremin 94 mult

mult[jet] X
- (1800) Abe 94F ang,col,p,pt
- Geer 94 et

invisible X
- (1800) Abbott 98Q cs,et,p

jet X
- (540) Jakobs 94 et,p
- (630) Flaugher 96 et
- Krane 96 et,p
- Bocquet 94 et
- Jakobs 94 et,p
- (1800) Abbott 98J et,p
- Abachi 96M et,p
- Abe 96B et,p
- Barnett 96 et,p
- Bhattacharje 96 et,p
- Blazey 96 et,p
- Flaugher 96 et
- Heuring 96 et,p
- Mccarthy 96 et,p
- Snihur 96 et,p
- Varelas 96 et,p
- Abachi 95S et,p
- Abachi 95ZI et,p
- Blazey 95 et,p
- Buckleygeer 95 et
- Womersley 95 et,p
- Bartalini 94 et,p
- Bhatti 94 const,et
- Fahley 94 et,p
- Plunkett 94 et,p
- Weerts 94 col,p,pt
- Yu 94 et
- Piekarz 93B et,mult,p

charged-hadron X
- (630) Bocquet 95B cs,p,pt

X heavy
- (1800) Maeshima 96 cs
- Wenzel 96 cs

longlived X
- (1800) Abe 98J cs

γ X
- 0. Anagnostopou 96 p
- (24.3) Werlen 99 const,p,pt
- Ballocchi 98 p,pt
- Vogelsang 97 pt
- Ballocchi 94 const,p,pt
- (540) Vogelsang 97 angp,pt
- Jakobs 94 et,p
- (630) Vogelsang 97 angp,pt
- Jakobs 94 et,p
- (1800) Vogelsang 97 et
- Chen 96 ang,p,pt
- Nodulman 96 et,p
- Abachi 95T p,pt
- Blazey 95 pt
- Buckleygeer 95 pt
- Lamoureux 95 et,p
- Mccarthy 95 p,pt
- Abe 94H pt
- Buckleygeer 94 pt
- Decarlo 94 pt
- Fahley 94 pt
- Geer 94 pt
- Kuhlmann 94 cs,pt
- Maghakian 94 pt
- Plunkett 94 angp,p,pt
- Shochet 94 pt
- Yu 94 pt

γ X 0jet
- (1800) Abachi 96C et,p

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$\bar{p}\,p$

$W^{\pm}$ X		
(1800)	Abbott 98C	pt
W^{+} X		
(540)	Jakobs 94	const,cs,p,pt
(630)	Jakobs 94	const,cs,p,pt
(1800)	Abe 98I	et,p
	Abbott 97H	p,pt
	Abbott 97K	–
	Abbott 97L	–
	Barnett 96	pt
	Bodek 96	–
	Flattum 96	pt
	Kotwal 96	–
	Narayanan 96	–
	Neuberger 96B	cs
	Rajagopalan 96	–
	Rijssenbeek 96	–
	Tarazi 96	cs
	Thurmankeup 96	cs
	Abachi 95I	cs
	Abachi 95Y	const,cs,et
	Abachi 95ZD	cs
	Abachi 95ZE	cs,p,pt
	Abachi 95ZM	const,cs,et,p
	Abe 95C	–
	Abe 95G	cs
	Abe 95H	–
	Abe 95ZE	cs
	Abe 95ZK	–
	Blazey 95	const,et
	Debarbaro 95	–
	Frisch 95	–
	Hoftun 95	cs,p,pt
	Kim 95	–
	Kopp 95	cs,pt
	Mccarthy 95	–
	Yu 95	const,et,p
	Yu 95B	const
	Abe 94	–
	Abe 94M	–
	Abe 94S	pt
	Abe 94ZG	cs
	Badgett 94	cs
	Budd 94	–
	Ducros 94	cs,p
	Fahley 94	pt
	Frisch 94	cs,p
	Geer 94	cs,et,pt
	Graf 94	cs
	Hara 94	cs
	Jung 94	–
	Keup 94	–
	Kim 94	cs
	Melese 94	–
	Nodulman 94	cs
	Quintas 94	cs
	Sakyumoto 94	–
W^{+} X 0jet		
(1800)	Abachi 96G	const,cs,et,p
	Guglielmo 96	cs,et,p
	Joffeminor 96	const,et,p
	Astur 95	const,cs,et,p
	Fahley 94	cor,cs,et
	Graf 94	cs,et
	Plunkett 94	cs,et
W^{-} X		
(540)	Jakobs 94	const,cs,p,pt
(630)	Jakobs 94	const,cs,p,pt
(1800)	Abe 98I	et,p
	Abbott 97H	p,pt
	Abbott 97K	–
	Abbott 97L	–
	Barnett 96	pt
	Bodek 96	–
	Flattum 96	pt
	Kotwal 96	–
	Narayanan 96	–
	Neuberger 96B	cs
	Rajagopalan 96	–
	Rijssenbeek 96	–
	Tarazi 96	cs

$\bar{p}\,p$

W^{-} X		
	Thurmankeup 96	cs
	Abachi 95I	cs
	Abachi 95Y	const,cs,et
	Abachi 95ZD	cs
	Abachi 95ZE	cs,p,pt
	Abachi 95ZM	const,cs,et,p
	Abe 95C	–
	Abe 95G	cs
	Abe 95H	–
	Abe 95ZE	cs
	Abe 95ZK	–
	Blazey 95	const,et
	Debarbaro 95	–
	Frisch 95	–
	Hoftun 95	cs,p,pt
	Kim 95	–
	Kopp 95	cs,pt
	Mccarthy 95	–
	Yu 95	const,et,p
	Abe 94	–
	Abe 94M	–
	Abe 94S	pt
	Abe 94ZG	cs
	Badgett 94	cs
	Budd 94	–
	Debarbaro 94	–
	Ducros 94	cs,p
	Fahley 94	pt
	Frisch 94	cs,p
	Geer 94	cs,et,pt
	Graf 94	cs
	Hara 94	cs
	Jung 94	–
	Keup 94	–
	Kim 94	cs
	Melese 94	–
	Nodulman 94	cs
	Quintas 94	cs
	Sakyumoto 94	–
W^{-} X 0jet		
(1800)	Abachi 96G	const,cs,et,p
	Guglielmo 96	cs,et,p
	Joffeminor 96	const,et,p
	Astur 95	const,cs,et,p
	Fahley 94	cor,cs,et
	Graf 94	cs,et
	Plunkett 94	cs,et
Z^{0} X		
(540)	Jakobs 94	const,cs,p,pt
(630)	Jakobs 94	const,cs,p,pt
(1800)	Abe 98J	cs,p,pt
	Abe 98Z	cs,p
	Abbott 97H	p,pt
	Abbott 97K	–
	Abbott 97L	–
	Casey 97	cs,pt
	Abachi 96E	cs
	Barnett 96	pt
	Casey 96	p,pt
	Neuberger 96B	cs
	Rajagopalan 96	–
	Tarazi 96	cs
	Thurmankeup 96	cs
	Abachi 95I	cs
	Abachi 95ZE	cs,p,pt
	Abe 95G	cs
	Abe 95ZE	cs
	Hoftun 95	cs,p,pt
	Kopp 95	cs,pt
	Abe 94ZG	cs
	Badgett 94	cs
	Ducros 94	cs
	Fahley 94	pt
	Frisch 94	cs,p
	Geer 94	cs,et,pt
	Graf 94	cs
	Hara 94	cs
	Kim 94	cs
W_R X		
(1800)	Gallas 96	cs

$\bar{p}\,p$

W_R X		
	Abachi 95ZN	cs
W_R^{+} X		
(1800)	Gallas 96	cs
	Abachi 95ZN	cs
W_R^{-} X		
(1800)	Gallas 96	cs
	Abachi 95ZN	cs
$W'^{\pm}$ X		
(1800)	Harris 95B	cs
	Kopp 94	cs
W'^{+} X		
(1800)	Abe 97D	cs
	Barnett 96	cs
	Conway 96	cs
	Gallas 96	cs
	Kamon 96	cs
	Wenzel 96	cs
	Abachi 95K	cs
	Abachi 95ZD	cs
	Abachi 95ZN	cs
	Eno 95	cs
	Harris 95	cs
	Kopp 95	cs
	Park 95	cs
	Abe 94R	cs
	Abe 94Y	cs
	Eppley 94	cs
	Hara 94	cs
	Harris 94B	cs
	Maeshima 94	cs
	Nodulman 94	cs
	Shochet 94	cs
	Taketani 94	cs
W'^{+} X + Z' X + W'^{-} X		
(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
W'^{-} X		
(1800)	Abe 97D	cs
	Barnett 96	cs
	Conway 96	cs
	Gallas 96	cs
	Kamon 96	cs
	Wenzel 96	cs
	Abachi 95K	cs
	Abachi 95ZD	cs
	Abachi 95ZN	cs
	Eno 95	cs
	Harris 95	cs
	Kopp 95	cs
	Park 95	cs
	Abe 94R	cs
	Abe 94Y	cs
	Eppley 94	cs
	Hara 94	cs
	Harris 94B	cs
	Maeshima 94	cs
	Nodulman 94	cs
	Shochet 94	cs
	Taketani 94	cs
Z' X		
(1800)	Abe 97D	cs
	Abe 97L	cs
	Abachi 96E	cs
	Barnett 96	cs
	Bodek 96	cs
	Conway 96	cs
	Kamon 96	cs
	Maeshima 96	cs
	Pillai 96	cs
	Wenzel 96	cs
	Abachi 95K	cs
	Beretvas 95B	–
	Beretvas 95D	cs
	Eno 95	cs
	Harris 95	cs
	Harris 95B	cs
	Park 95	cs
	Abe 94J	cs
	Abe 94Y	cs
	Eppley 94	cs

$\overline{p}\,p$

Z' X			
		Hara 94	cs
		Harris 94B	cs
		Maeshima 94	cs
		Nodulman 94	cs
		Shochet 94	cs
		Taketani 94	cs
lepto-quark X			
	(1800)	Shochet 94	cs
X axigluon			
	(1800)	Abe 97D	cs
		Harris 95	cs
		Harris 95B	cs
		Abe 94Y	cs
		Harris 94B	cs
b X			
	(1800)	Abe 97ZB	–
		Abachi 96L	pt
		Bauer 96	cs,p,pt
		Tkaczyk 96	p,pt
$\overline{b}$ X			
	(1800)	Abe 97ZB	–
		Abachi 96L	pt
		Bauer 96	cs,p,pt
		Tkaczyk 96	p,pt
diquark X			
	(1800)	Abe 97D	cs
		Harris 95	cs
		Harris 95B	cs
		Abe 94Y	cs
gluino X			
	(1800)	Abbott 98Q	cs,et,p
		Hoftun 95	cs
		Abe 94I	cs
		Shochet 94	cs
H^+ X			
	(1800)	Loomis 96B	cs
		Maeshima 96	cs
H^- X			
	(1800)	Loomis 96B	cs
		Maeshima 96	cs
X $\tilde{q}$			
	(1800)	Abbott 98Q	cs,et,p
		Hoftun 95	cs
		Abe 94I	cs
e^{*-} X + e^{*+} X			
	(540)	Jakobs 94	cs
	(630)	Jakobs 94	cs
q^* X			
	(540)	Jakobs 94	cs
	(630)	Jakobs 94	cs
	(1800)	Abe 97D	cs
		Harris 95	cs
		Harris 95B	cs
		Abe 94Y	cs
		Abe 94ZD	cs
		Geer 94	cs
		Harris 94	cs
		Harris 94B	cs
		Shochet 94	cs
$\overline{q}^*$ X			
	(540)	Jakobs 94	cs
	(630)	Jakobs 94	cs
	(1800)	Abe 97D	cs
		Harris 95	cs
		Harris 95B	cs
		Abe 94Y	cs
		Geer 94	cs
		Harris 94	cs
monopole X			
	(540)	Jakobs 94	cs
	(630)	Jakobs 94	cs
technirho X			
	(1800)	Abe 98U	cs
		Abe 98V	cs
		Abe 97D	cs
		Harris 95	cs
		Harris 95B	cs

$\overline{p}\,p$

technirho X			
		Abe 94Y	cs
		Harris 94B	cs
techniomega X			
	(1800)	Abe 98T	cs
$\pi^\pm$ X			
	(300)	Alexopoulos 94	p,pt
	(540)	Alexopoulos 94	p,pt
	(1000)	Alexopoulos 94	p,pt
	(1800)	Alexopoulos 94	p,pt
π^+ X			
	22.4	Boos 96	p,pt
		Boos 94	p,pt
	200	Bravar 96	asym,p,pt
	(630)	Bocquet 95B	cs,p,pt
π^0 X			
	200	Adams 94C	asym,p,pt
π^- X			
	22.4	Boos 96	p,pt
		Boos 94	p,pt
	200	Bravar 96	asym,p,pt
	(630)	Bocquet 95B	cs,p,pt
η X			
	200	Adams 97E	asym,p,pt
ρ^0 X			
	32	Bogolyubsky 97	cs,p,pt
		Kostin 96	cs,p,pt
ρ^0 (neutrals)			
	0.	Adler 95F	cs,p
$f_2(1270)$ X			
	32	Bogolyubsky 97	cs,p,pt
		Kostin 96	cs,p,pt
$f_2(1270)$ (neutrals)			
	0.	Adler 95F	cs,p
$K^\pm$ X			
	(300)	Alexopoulos 94	p,pt
	(540)	Alexopoulos 94	p,pt
	(1000)	Alexopoulos 94	p,pt
	(1800)	Alexopoulos 94	p,pt
K^+ X			
	(630)	Bocquet 95	pt
		Bocquet 95B	cs,p,pt
K^- X			
	(630)	Bocquet 95	pt
		Bocquet 95B	cs,p,pt
K_S X			
	(630)	Bocquet 95	pt
		Bocquet 95B	cs,p,pt
$\phi(1020)$ X			
	(1800)	Alexopoulos 95C	cs,mult,p,pt
D^+ X			
	(1800)	Shochet 94	pt
D^0 X			
	(1800)	Shochet 94	pt
$\overline{D}^0$ X			
	(1800)	Shochet 94	pt
D^- X			
	(1800)	Shochet 94	pt
D_s^+ X			
	(1800)	Shochet 94	pt
D_s^- X			
	(1800)	Shochet 94	pt
$J/\psi(1S)$ X			
	(3.5 – 3.6)	Cester 94	cs
	(3.51)	Pordes 96	cs
		Menichetti 94	cs
	(3.556)	Pordes 96	cs
		Menichetti 94	cs
	(630)	Albajar 95	ang,p,pt
	(1800)	Abbott 98K	p,pt
		Abe 97	cs,p,pt
		Abe 97F	p,pt

$\overline{p}\,p$

$J/\psi(1S)$ X			
		Abachi 96	cs,p,pt
		Abachi 96H	p,pt
		Barnett 96	p,pt
		Demina 96	p,pt
		Meschi 96	p,pt
		Ohl 96	cs,p,pt
		Papadimitrio 96	cs,p,pt
		Papadimitrio 96B	p,pt
		Sansoni 96	cs,p,pt
		Tkaczyk 96	p,pt
		Wang 96	cs,p,pt
		Abachi 95ZB	cs,p,pt
		Abachi 95ZL	cs,p,pt
		Abe 95T	cs,p,pt
		Bauer 95	cs,p,pt
		Bazizi 95	cs,p,pt
		Derwent 95	cs,p,pt
		Markosky 95	p,pt
		Papadimitrio 95	cs,p,pt
		Sansoni 95	cs,p,pt
		Barker 94	p,pt
		Bazizi 94	p,pt
		Byrum 94	pt
		Cdfcollabora 94F	cs,p,pt
		Daniels 94	cs,pt
		Hedin 94	p,pt
		Kim 94	cs
		Mueller 94	cs
		Shochet 94	pt
$\chi_{c1}(1P)$ X			
	(1800)	Barnett 96	cs
		Demina 96	cs
		Papadimitrio 96	cs
		Papadimitrio 96B	cs
		Sansoni 96	cs
		Wang 96	cs
		Abe 95T	cs,p,pt
		Bauer 95	cs
		Derwent 95	cs,pt
		Papadimitrio 95	cs
		Sansoni 95	cs
$\chi_{c2}(1P)$ X			
	(1800)	Barnett 96	cs
		Demina 96	cs
		Papadimitrio 96	cs
		Papadimitrio 96B	cs
		Sansoni 96	cs
		Wang 96	cs
		Abe 95T	cs,p,pt
		Bauer 95	cs
		Derwent 95	cs,pt
		Papadimitrio 95	cs
		Sansoni 95	cs
$\psi(2S)$ X			
	(1800)	Abe 97	cs,p,pt
		Abe 97F	–
		Barnett 96	p,pt
		Demina 96	p,pt
		Meschi 96	p,pt
		Ohl 96	cs,p,pt
		Papadimitrio 96	cs,p,pt
		Papadimitrio 96B	p,pt
		Sansoni 96	cs,p,pt
		Tkaczyk 96	p,pt
		Wang 96	cs,p,pt
		Bauer 95	cs,p,pt
		Derwent 95	cs,pt
		Papadimitrio 95	cs,p,pt
		Sansoni 95	cs,p,pt
		Byrum 94	pt
		Cdfcollabora 94F	cs,p,pt
		Daniels 94	cs,pt
		Mueller 94	cs
		Shochet 94	pt
χ_c(unspec) X			
	(1800)	Abe 97F	–
		Abachi 96	cs,p,pt
		Abachi 95ZB	cs
		Bazizi 95	cs

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$\bar{p}\,p$

χ_c(unspec) X

	Derwent 95	cs
	Markosky 95	cs
	Hedin 94	cs
	Mueller 94	cs

bottom X

(630)	Albajar 93B	cs,pt
(1800)	Abachi 94C	cs,p,pt
	Bazizi 94	cs,pt
	Byrum 94	cs,pt
	Daniels 94	cs,pt
	Hedin 94	p,pt
	Huehn 94	cs,pt
	Skarha 94	–
	Abe 93N	–

$\overline{\text{bottom}}$ X

(1800)	Abachi 94C	cs,p,pt
	Bazizi 94	cs,pt
	Byrum 94	cs,pt
	Daniels 94	cs,pt
	Hedin 94	p,pt
	Huehn 94	cs,pt

B X

(1800)	Abbott 98B	–
	Abachi 96	cs,p,pt
	Abachi 96I	–
	Demina 96	–
	Papadimitrio 96B	–
	Wenzel 96B	–
	Abachi 95P	p,pt
	Abachi 95ZB	cs,p,pt
	Bauer 95	–
	Bazizi 95	p,pt
	Derwent 95	p,pt
	Markosky 95	cs,et,p
	Barker 94	cs,p,pt
	Cdfcollabora 94F	cs,p,pt
	Garbincius 94	p,pt
	Luke 93	–

B X + $\bar{B}$ X

(1800)	Abe 97F	–
	Ohl 96	cs,p,pt

B^+ X

(1800)	Abe 99D	cs
	Abe 98E	–
	Abe 97ZI	–
	Abe 96D	–
	Abe 96E	–
	Abe 96K	–
	Abe 96N	–
	Barnett 96	cs,p,pt
	Bauer 96	cs,p,pt
	Huffman 96	cs,p,pt
	Laasanen 96	cs,p,pt
	Lewis 96	cs,p,pt
	Lucchesi 96	–
	Meschi 96	–
	Miao 96	–
	Paulini 96	–
	Slaughter 96	p,pt
	Wang 96	cs,pt
	Yu 96B	cs,p,pt
	Abe 95E	p,pt
	Abe 95N	–
	Abe 95O	–
	Abe 95P	–
	Abe 95X	cs
	Abe 95ZI	–
	Anwaywiese 95	–
	Derwent 95	–
	Papadimitrio 95	cs,pt
	Ragan 95	–
	Skarha 95	–
	Ukegawa 95	–
	Abe 94D	–
	Anwaywiese 94	p,pt
	Bailey 94	cs,pt
	Byrum 94	cs,pt
	Cdfcollabora 94E	cs,pt
	Dejongh 94	–
	Garbincius 94	p,pt

$\bar{p}\,p$

B^+ X

	Hara 94	cs
	Lewis 94	pt
	Lewis 94B	cs,pt
	Mueller 94	cs,pt
	Plunkett 94	cs,pt
	Shochet 94	cs,pt

B^0 X

(1800)	Abe 99D	cs
	Abe 98E	–
	Abe 98O	–
	Abe 98ZD	cs
	Abe 97ZI	–
	Abe 97ZK	–
	Abachi 96I	–
	Abe 96D	–
	Abe 96E	–
	Abe 96K	–
	Abe 96P	cs,p,pt
	Barnett 96	cs,p,pt
	Bauer 96	cs,p,pt
	Huffman 96	cs,p,pt
	Laasanen 96	cs,p,pt
	Lewis 96	cs,p,pt
	Lucchesi 96	–
	Meschi 96	–
	Miao 96	–
	Paulini 96	–
	Slaughter 96	p,pt
	Speer 96	–
	Wang 96	cs,pt
	Wenzel 96	–
	Yu 96B	cs,p,pt
	Abe 95E	p,pt
	Abe 95M	–
	Abe 95N	–
	Abe 95P	–
	Abe 95R	–
	Abe 95ZB	–
	Abe 95ZC	–
	Abe 95ZI	–
	Anwaywiese 95	–
	Derwent 95	–
	Papadimitrio 95	cs,pt
	Ragan 95	–
	Skarha 95	–
	Ukegawa 95	–
	Abe 94D	–
	Abe 94ZF	cs,p,pt
	Bailey 94	cs,pt
	Byrum 94	cs,pt
	Cdfcollabora 94B	pt
	Cdfcollabora 94E	cs,pt
	Dejongh 94	–
	Garbincius 94	p,pt
	Hara 94	cs
	Karen 94	pt
	Lewis 94	pt
	Lewis 94B	cs,pt
	Mueller 94	cs,pt
	Plunkett 94	cs,pt
	Shochet 94	cs,pt

$\bar{B}$ X

(1800)	Abbott 98B	–
	Abachi 96	cs,p,pt
	Abachi 96I	–
	Demina 96	–
	Papadimitrio 96B	–
	Wenzel 96B	–
	Abachi 95P	p,pt
	Abachi 95ZB	cs,p,pt
	Bauer 95	–
	Bazizi 95	p,pt
	Derwent 95	p,pt
	Markosky 95	cs,et,p
	Barker 94	cs,p,pt
	Cdfcollabora 94F	cs,p,pt
	Garbincius 94	p,pt

$\bar{B}^0$ X

(1800)	Abe 99D	cs
	Abe 98E	–
	Abe 98O	–

$\bar{p}\,p$

$\bar{B}^0$ X

	Abe 98ZD	cs
	Abe 97ZI	–
	Abe 97ZK	–
	Abachi 96I	–
	Abe 96D	–
	Abe 96E	–
	Abe 96K	–
	Abe 96P	cs,p,pt
	Barnett 96	cs,p,pt
	Bauer 96	cs,p,pt
	Huffman 96	cs,p,pt
	Laasanen 96	cs,p,pt
	Lewis 96	cs,p,pt
	Lucchesi 96	–
	Meschi 96	–
	Miao 96	–
	Paulini 96	–
	Slaughter 96	p,pt
	Speer 96	–
	Wang 96	cs,pt
	Wenzel 96	–
	Yu 96B	cs,p,pt
	Abe 95E	p,pt
	Abe 95M	–
	Abe 95N	–
	Abe 95P	–
	Abe 95R	–
	Abe 95ZB	–
	Abe 95ZC	–
	Abe 95ZI	–
	Anwaywiese 95	–
	Derwent 95	–
	Papadimitrio 95	cs,pt
	Ragan 95	–
	Skarha 95	–
	Ukegawa 95	–
	Abe 94ZF	cs,p,pt
	Byrum 94	cs,pt
	Cdfcollabora 94B	pt
	Dejongh 94	–
	Garbincius 94	p,pt
	Hara 94	cs
	Karen 94	pt
	Lewis 94	pt
	Lewis 94B	cs,pt
	Plunkett 94	cs,pt
	Shochet 94	cs,pt

B^- X

(1800)	Abe 99D	cs
	Abe 98E	–
	Abe 98O	–
	Abe 97ZI	–
	Abe 96D	–
	Abe 96E	–
	Abe 96K	–
	Abe 96N	–
	Barnett 96	cs,p,pt
	Bauer 96	cs,p,pt
	Huffman 96	cs,p,pt
	Laasanen 96	cs,p,pt
	Lewis 96	cs,p,pt
	Lucchesi 96	–
	Meschi 96	–
	Miao 96	–
	Paulini 96	–
	Slaughter 96	p,pt
	Wang 96	cs,pt
	Yu 96B	cs,p,pt
	Abe 95E	p,pt
	Abe 95N	–
	Abe 95O	–
	Abe 95P	–
	Abe 95X	cs
	Abe 95ZI	–
	Anwaywiese 95	–
	Derwent 95	–
	Papadimitrio 95	cs,pt
	Ragan 95	–
	Skarha 95	–
	Ukegawa 95	–
	Anwaywiese 94	p,pt
	Byrum 94	cs,pt
	Dejongh 94	–

$\bar{p}\,p$

B^- X

	Garbincius 94	p,pt
	Hara 94	cs
	Lecompte 94	cs,pt
	Lewis 94	pt
	Lewis 94B	cs,pt
	Plunkett 94	cs,pt
	Shochet 94	cs,pt

$B_J^*(5732)$ X

(1800)	Abe 97ZB	–

$\overline{B}_J^*(5732)$ X

(1800)	Abe 97ZB	–

B_s X

(1800)	Abe 99D	cs
	Abe 99E	–
	Abe 98ZD	cs
	Abe 97ZI	–
	Abe 97ZK	–
	Abe 96D	–
	Abe 96H	–
	Abe 96K	–
	Bauer 96	–
	Meschi 96	–
	Speer 96	–
	Wenzel 96	–
	Yu 96B	–
	Abe 95M	–
	Abe 95P	–
	Abe 95R	–
	Abe 95ZB	–
	Abe 95ZC	–
	Derwent 95	–
	Ragan 95	–
	Skarha 95	–
	Abe 94X	–
	Abe 94ZH	–
	Lecompte 94	cs,pt
	Lewis 94	pt
	Lewis 94B	cs,pt
	Shochet 94	cs,pt

$\overline{B}_s$ X

(1800)	Abe 99D	cs
	Abe 99E	–
	Abe 98ZD	cs
	Abe 97ZI	–
	Abe 97ZK	–
	Abe 96D	–
	Abe 96H	–
	Abe 96K	–
	Bauer 96	–
	Meschi 96	–
	Speer 96	–
	Wenzel 96	–
	Yu 96B	–
	Abe 95M	–
	Abe 95P	–
	Abe 95R	–
	Abe 95ZB	–
	Abe 95ZC	–
	Derwent 95	–
	Ragan 95	–
	Skarha 95	–
	Abe 94X	–
	Abe 94ZH	–
	Lewis 94B	cs,pt
	Shochet 94	cs,pt

B_c^+ X

(1800)	Abe 98F	cs
	Abe 98N	cs
	Singh 98	cs,p
	Abe 96N	cs
	Bauer 96	cs
	Huffman 96	cs
	Lewis 96	cs
	Ohl 96	cs
	Speer 96	cs
	Abe 95X	cs
	Papadimitrio 95	cs

B_c^- X

(1800)	Abe 98F	cs

$\bar{p}\,p$

B_c^- X

	Abe 98N	cs
	Abe 96N	cs
	Bauer 96	cs
	Huffman 96	cs
	Lewis 96	cs
	Ohl 96	cs
	Speer 96	cs
	Abe 95X	cs
	Papadimitrio 95	cs

$\Upsilon(1S)$ X

(1800)	Bauer 96	cs,p,pt
	Demina 96	p,pt
	Ohl 96	cs,p,pt
	Papadimitrio 96	cs,p,pt
	Papadimitrio 96B	p,pt
	Sansoni 96	cs,p,pt
	Thurmankeup 96	cs
	Tkaczyk 96	p,pt
	Wang 96	cs,pt
	Abe 95W	cs,p,pt
	Bauer 95	cs,p,pt
	Papadimitrio 95	cs,pt
	Papadimitrio 95B	cs,p,pt
	Sansoni 95	cs,p,pt
	Hedin 94	p,pt
	Kim 94	cs
	Papadimitrio 94	cs,pt
	Shochet 94	pt

$\Upsilon(2S)$ X

(1800)	Bauer 96	cs,p,pt
	Demina 96	p,pt
	Ohl 96	cs,p,pt
	Papadimitrio 96	cs,p,pt
	Papadimitrio 96B	p,pt
	Sansoni 96	cs,p,pt
	Thurmankeup 96	cs
	Tkaczyk 96	p,pt
	Wang 96	cs,pt
	Abe 95W	cs,p,pt
	Bauer 95	cs,p,pt
	Papadimitrio 95	cs,pt
	Papadimitrio 95B	cs,p,pt
	Sansoni 95	cs,p,pt
	Kim 94	cs
	Papadimitrio 94	cs,pt

$\Upsilon(3S)$ X

(1800)	Bauer 96	cs,p,pt
	Demina 96	p,pt
	Ohl 96	cs,p,pt
	Papadimitrio 96	cs,p,pt
	Papadimitrio 96B	p,pt
	Sansoni 96	cs,p,pt
	Thurmankeup 96	cs
	Tkaczyk 96	p,pt
	Wang 96	cs,pt
	Abe 95W	cs,p,pt
	Bauer 95	cs,p,pt
	Papadimitrio 95	cs,pt
	Papadimitrio 95B	cs,p,pt
	Sansoni 95	cs,p,pt
	Kim 94	cs
	Papadimitrio 94	cs,pt

Υ(unspec) X

(1800)	Ohl 96	cs,p,pt
	Papadimitrio 96	cs,p,pt
	Abachi 95J	p,pt
	Bazizi 95	cs,p,pt
	Markosky 95	p,pt

p X

22.4	Boos 96	p,pt
(630)	Brandt 97C	angp,p
	Bocquet 95B	cs,p,pt

DD < X > $\bar{p}$

(546)	Abe 93S	cs
	Abe 93T	cs
	Belforte 93	cs
(1800)	Abe 93S	cs

$\bar{p}\,p$

DD < X > $\bar{p}$

	Abe 93T	cs
	Belforte 93	cs

$\bar{p}$ X

22.4	Boos 96	p,pt
(300)	Alexopoulos 94	p,pt
(540)	Alexopoulos 94	p,pt
(546)	Abe 93T	angp,cs,p
	Belforte 93	angp,cs,p
(630)	Brandt 97C	angp,p
	Bocquet 95B	cs,p,pt
(1000)	Alexopoulos 94	p,pt
(1800)	Alexopoulos 94	p,pt
	Abe 93T	angp,cs,p
	Belforte 93	angp,cs,p

Λ X

(630)	Bocquet 95	pt
	Bocquet 95B	cs,p,pt

$\overline{\Lambda}$ X

(630)	Brandt 97B	cs,p,pol,pt
	Bocquet 95	pt
	Bocquet 95B	cs,p,pt

Λ_b X

(1800)	Abe 96J	p
	Abe 96K	–
	Abe 96P	cs,p,pt
	Barnett 96	–
	Lewis 96	cs
	Ohl 96	cs
	Yu 96B	–

$\overline{\Lambda}_b$ X

(1800)	Abe 96J	p
	Abe 96K	–
	Abe 96P	cs,p,pt
	Barnett 96	–
	Lewis 96	cs
	Ohl 96	cs
	Yu 96B	–

X centauro

(1800)	Melese 96	cs

$(\bar{p}p)_{atom}$ X

0.	Anagnostopou 96	–

$(\bar{p}p)_{atom^*}$ X

0.	Anagnostopou 96	–

e^- invisible X

(1800)	Rijssenbeek 96	et,pt

e^+ invisible X

(1800)	Rijssenbeek 96	et,pt

e^- jet X

(1800)	Abe 94ZD	et,mass,p
	Antos 94	cs
	Chakraborty 94	cs,et,p,pt
	Jensen 94	cs

e^+ jet X

(1800)	Abe 94ZD	et,mass,p
	Antos 94	cs
	Chakraborty 94	cs,et,p,pt
	Jensen 94	cs

$e^\pm\,\nu$ X

(1800)	Abbott 98C	pt
	Mccarthy 95	p

$e^-\,\nu$ X

(1800)	Rajagopalan 96	col,et,mass,p

$e^+\,\nu$ X

(1800)	Rajagopalan 96	col,et,mass,p

$2e^-$ X

(1800)	Hara 94	p,pt

$e^-\,\bar{\nu}_e$ X

(1800)	Abbott 97K	mass,pt
	Abbott 97L	mass,pt
	Abachi 96W	col,pt
	Bodek 96	et,mass,p

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$\bar{p}\,p$

$e^-\,\bar{\nu}_e$ X

	Abe 95G	et,mass,pt
	Abe 95H	et,p,pt
	Abe 94	p
	Badgett 94	et,p,pt
	Ducros 94	et,pt
	Kim 94	et,p
	Shochet 94	et,pt

$e^-\,\bar{\nu}_e$ X + $e^+\,\nu_e$ X

(1800)	Kopp 94	et,mass
	Maeshima 94	mass,p,pt

$e^+\,\nu_e$ X

(1800)	Abbott 97K	mass,pt
	Abbott 97L	mass,pt
	Abachi 96W	col,pt
	Bodek 96	et,mass,p
	Abe 95G	et,mass,pt
	Abe 95H	et,p,pt
	Abe 94	p
	Badgett 94	et,p,pt
	Ducros 94	et,pt
	Kim 94	et,p
	Shochet 94	et,pt

$e^-\,e^+$ X

3 – 7	Gollwitzer 94	cs,mass
(1800)	Abbott 98M	const,mass,p,pt
	Abbott 97K	mass,pt
	Abbott 97L	mass,pt
	Abe 97L	cs,mass,p,pt
	Abe 97M	const,cs,mass,p,pt
	Abachi 96E	mass
	Abachi 96W	p
	Abe 96L	angp,mass,p
	Bodek 96	et,mass,p
	Pillai 96	mass,p
	Rajagopalan 96	col,et,mass,p
	Abe 95G	et,mass,pt
	Debarbaro 95	mass,p,pt
	Harris 95	mass
	Park 95	col,et,mass
	Abe 94	mass
	Abe 94J	mass
	Badgett 94	et,p,pt
	Bazizi 94	mass
	Ducros 94	et,mass,pt
	Eppley 94	et,mass,p
	Frisch 94	et,mass,p
	Graf 94	et,mass,p
	Hara 94	mass,p
	Maeshima 94	mass,pt
	Nodulman 94	et,mass,p
	Oshima 94	et,mass,p,pt
	Quintas 94	cs,et,mass,p,pt
	Shochet 94	et,pt

$2e^+$ X

(1800)	Hara 94	p,pt

μ^- invisible X

(1800)	Rijssenbeek 96	et,pt

μ^+ invisible X

(1800)	Rijssenbeek 96	et,pt

$\mu^\pm$ jet X

(1800)	Derwent 94	col

μ^- jet X + μ^+ jet X

(1800)	Abbott 98F	mass,pt

μ^- jet X

(1800)	Abachi 95P	p,pt
	Abe 95Q	ang,cs,et,pt
	Bazizi 95	cor,et,p,pt
	Derwent 95	cor,et,p
	Markosky 95	cor,p,pt
	Abe 94ZD	et,mass,p
	Antos 94	cs
	Byrum 94	cor,p,pt
	Chakraborty 94	cs,et,p,pt

$\bar{p}\,p$

μ^- jet X

	Gerdes 94	ang,cor,et
	Hedin 94	ang,mass,p,pt
	Huehn 94	cs,et,pt
	Jensen 94	cs

μ^+ jet X

(1800)	Abachi 95P	p,pt
	Bazizi 95	cor,et,p,pt
	Derwent 95	cor,et,p
	Markosky 95	cor,p,pt
	Abe 94ZD	et,mass,p
	Antos 94	cs
	Byrum 94	cor,p,pt
	Chakraborty 94	cs,et,p,pt
	Gerdes 94	ang,cor,et
	Hedin 94	ang,mass,p,pt
	Huehn 94	cs,et,pt
	Jensen 94	cs

$\mu^\pm\,\gamma$ X

(1800)	Abe 99	cs,p,pt

$\mu^-\,\gamma$ X

(1800)	Blair 95	ang,et,p,pt
	Kuhlmann 94B	p,pt

$\mu^+\,\gamma$ X

(1800)	Blair 95	ang,et,p,pt
	Kuhlmann 94B	p,pt

$\mu^\pm\,\nu$ X

(1800)	Mccarthy 95	p

$\mu^-\,\nu$ X

(1800)	Kotwal 96	col,p,pt

$\mu^-\,e^-$ X

(1800)	Abe 94Q	ang,cor,mass,p,pt
	Bazizi 94	ang,cor,pt

$\mu^-\,e^+$ X

(1800)	Abe 94Q	ang,cor,mass,p,pt
	Bazizi 94	ang,cor,pt
	Oshima 94	et,mass,p,pt

$\mu^+\,e^-$ X

(1800)	Abe 94Q	ang,cor,mass,p,pt
	Bazizi 94	ang,cor,pt
	Oshima 94	et,mass,p,pt

$\mu^+\,e^+$ X

(1800)	Abe 94Q	ang,cor,mass,p,pt
	Bazizi 94	ang,cor,pt

$2\mu^-$ X

(630)	Albajar 93B	pt
(1800)	Abbott 98B	cs,mass,p,pt
	Abe 97ZK	cs,mass
	Abe 95U	ang,mass,p,pt
	Abe 95Y	mass,p,pt
	Hara 94	p,pt

$\mu^-\,\bar{\nu}_\mu$ X

(1800)	Bodek 96	et,mass,p
	Abe 95H	et,p,pt
	Abe 94	p
	Badgett 94	et,p,pt
	Ducros 94	et,pt
	Kim 94	et,p
	Shochet 94	et,pt

$\mu^+\,\nu_\mu$ X

(1800)	Bodek 96	et,mass,p
	Abe 95H	et,p,pt
	Abe 94	p
	Badgett 94	et,p,pt
	Ducros 94	et,pt
	Kim 94	et,p
	Shochet 94	et,pt

$\mu^-\,\mu^+$ X

(630)	Albajar 95	ang,p,pt

$\bar{p}\,p$

$\mu^-\,\mu^+$ X

(1800)	Albajar 93B	pt
	Abbott 98F	mass,pt
	Abe 98Z	cs,mass,p
	Abe 97L	cs,mass,p,pt
	Abe 97M	const,cs,mass,p,pt
	Abe 97ZK	cs,mass
	Abachi 96H	mass,p,pt
	Bodek 96	et,mass,p
	Pillai 96	mass,p
	Sansoni 96	mass
	Abachi 95J	mass,p,pt
	Abachi 95ZL	mass,p,pt
	Abe 95M	mass,pt
	Abe 95U	ang,mass,p,pt
	Abe 95W	mass,p,pt
	Abe 95Y	mass,p,pt
	Bauer 95	mass,p,pt
	Bazizi 95	mass,p,pt
	Debarbaro 95	mass,p,pt
	Derwent 95	mass,p,pt
	Papadimitrio 95B	mass,p,pt
	Park 95	col,et,mass
	Sansoni 95	mass,p,pt
	Abe 94	mass
	Badgett 94	et,p,pt
	Barker 94	p,pt
	Bazizi 94	mass
	Byrum 94	mass,p,pt
	Cdfcollabora 94F	mass,p,pt
	Daniels 94	mass,p,pt
	Ducros 94	et,mass,pt
	Graf 94	et,mass,p
	Hara 94	mass,p
	Hedin 94	ang,mass,p,pt
	Huehn 94	cs,pt
	Kim 94	mass
	Papadimitrio 94	mass,pt
	Quintas 94	cs,et,mass,p,pt
	Shochet 94	et,pt
	Yu 94B	cs,pt
	Abe 93N	mass,pt
	Abe 93W	mass

$2\mu^+$ X

(630)	Albajar 93B	pt
(1800)	Abe 97ZK	cs,mass
	Abe 95U	ang,mass,p,pt
	Abe 95Y	mass,p,pt
	Hara 94	p,pt

$\tau^-\,\tau^+$ X

(1800)	Abe 97K	cs

e^- heavy-ν X

(1800)	Abachi 95X	const,cs

e^+ heavy-ν X

(1800)	Abachi 95X	const,cs

μ^- heavy-ν X

(1800)	Abachi 95X	const,cs

μ^+ heavy-ν X

(1800)	Abachi 95X	const,cs

τ^- heavy-ν X

(1800)	Abachi 95X	const,cs

τ^+ heavy-ν X

(1800)	Abachi 95X	const,cs

$D^0\,\mu^-$ X

(1800)	Byrum 94	mass,pt

$\bar{D}^0\,\mu^+$ X

(1800)	Byrum 94	mass,pt

$D^*(2010)^+\,\mu^-$ X

(1800)	Byrum 94	mass,pt

$D^*(2010)^-\,\mu^+$ X

(1800)	Byrum 94	mass,pt

$\bar{p}\,p$

$D_s^+\, e^-$ X

(1800)	Abe 99E	mass
	Abe 94X	mass,p,pt

$D_s^-\, e^+$ X

(1800)	Abe 99E	mass
	Abe 94X	mass,p,pt

$D_s^-\, \mu^-$ X

(1800)	Abe 99E	mass
	Abe 94X	mass,p,pt

$D_s^-\, \mu^+$ X

(1800)	Abe 99E	mass
	Abe 94X	mass,p,pt

$J/\psi(1S)\, e^+$ X

(1800)	Singh 98	cs,mass,p

$J/\psi(1S)\, \mu^-$ X

(1800)	Hedin 94	cor,p,pt

$J/\psi(1S)\, \mu^+$ X

(1800)	Singh 98	cs,mass,p
	Hedin 94	cor,p,pt

charged (chargeds) X

(300)	Alexopoulos 94C	mult,pt
(560)	Alexopoulos 94C	mult,pt
(630)	Bocquet 94	cor,mult,pt
(1000)	Alexopoulos 94C	mult,pt
(1800)	Alexopoulos 94C	mult,pt
	Rimondi 94	col,mult,pt
	Yu 94	et,p,pt

charged mult[charged] X

(630)	Bocquet 95C	cor,mult,p,pt
(1800)	Decarlo 94	cor

2charged X

(1800)	Rimondi 94	cor,p

charged neutral X

(1800)	Goulianos 94	mult

(jets) jet X

(630)	Flaugher 96	et
(1800)	Flaugher 96	et
	Streets 95	et,p,pt

neutral jet X

(1800)	Hoftun 95	et
	Claes 94	et

2jet X

(630)	Abbott 98P	cs,et,p
	Abe 98W	cs,mass,p,pt
	Abachi 96S	et,p
	Albrow 96	angp,mass,p,pt
	Bocquet 94	ang,et
(1800)	Abbott 98H	const,mass,p
	Abbott 98P	cs,et,p
	Dorigo 98	mass
	Abbott 97F	angp,const,mass
	Abachi 96S	et,p
	Abe 96G	ang,angp,const,mass,p
	Albrow 96	cor,p
	Barnett 96	cs,mass
	Blazey 96	ang,et,mass,p
	Choi 96	et,mass,p
	Fatyga 96	angp,et,p
	Feher 96	ang,cor,et,p
	Goshaw 96B	angp,const,et,p
	Heuring 96	ang,cor,et,p
	Jaques 96	ang,et,p
	Jun 96	ang,et,p
	Abachi 95ZC	cor,p
	Abe 95D	angp,et,mass,p,pt

$\bar{p}\,p$

2jet X

	Astur 95	const,cs,et,p
	Blazey 95	ang,cor,et,p
	Buckleygeer 95	mass
	Harris 95	angp,et,mass,p
	Harris 95B	angp,mass
	Heuring 95	angp,cor,p
	Lamoureux 95	angp,cor,p,pt
	Mccarthy 95	et,p
	Melese 95	cor,et,p
	Womersley 95	ang,et,p,pt
	Abachi 94	cor,p
	Abe 94L	cor,et
	Abe 94Y	angp,et,mass,p
	Bhatti 94	et,p
	Fahley 94	col,et,p
	Geer 94	angp,mass
	Harris 94B	mass,p
	Kovacs 94B	cor,et,p
	Plunkett 94	et,p
	Weerts 94	ang,cor,p
	Yu 94	ang,cor,et,mass,p

hadron (hadrons) X

(1800)	Heuring 96	col,et,p,pt
	Abachi 95S	col,et,p,pt
	Fahley 94	col,et,p
	Weerts 94	col,p,pt
	Piekarz 93B	et,p

γ (hadrons) X

(1800)	Chen 96	cor,p,pt

γ neutral X

(1800)	Abe 94I	et

γ jet X

(1800)	Abe 98C	angp,p,pt
	Nodulman 96	ang,et,p,pt
	Abachi 95T	ang,cor,et,p,pt
	Lamoureux 95	ang,cor,mass,p,pt
	Womersley 95	ang,et,p,pt
	Abe 94L	cor,et
	Abe 94ZD	et,mass,p
	Geer 94	angp,et,mass,pt
	Harris 94	cs,mass
	Hawk 94	ang,et,p
	Plunkett 94	p,pt

2γ X

(540)	Vogelsang 97	angp,pt
	Jakobs 94	ang,et,mass,p
(630)	Vogelsang 97	angp,pt
	Jakobs 94	ang,et,mass,p
(1800)	Abbott 98E	cs,et,p
	Vogelsang 97	pt
	Chen 96	ang,p,pt
	Nodulman 96	ang,et,p,pt
	Abachi 95N	mass,p,pt
	Blair 95	et,mass,pt
	Womersley 95	ang,et,p,pt
	Abe 94H	mass
	Blair 94	et,mass
	Harris 94	cs,mass
	Plunkett 94	mass
	Yu 94	mass

W^+ (jets) X

(1800)	Goshaw 96	cs,p

W^- (jets) X

(1800)	Goshaw 96	cs,p

W^+ (hadrons) X

(1800)	Melese 96B	cor,et,p,pt

W^- (hadrons) X

(1800)	Melese 96B	cor,et,p,pt

$\bar{p}\,p$

$W^\pm$ higgs X

(1800)	Abe 98S	cs
	Abachi 96K	cs

W^+ higgs X

(1800)	Abe 97R	cs
	Abachi 96K	cs

W^- higgs X

(1800)	Abe 97R	cs
	Abachi 96K	cs

W^+ jet X

(1800)	Abachi 96G	const,cs,et,p
	Abachi 96J	ang,cor,et,p
	Guglielmo 96	cs,et,p
	Jaques 96	ang,cor,et,p
	Joffeminor 96	const,et,p
	Phillips 96	et,mult,p
	Abachi 95Y	const,cs,et
	Abachi 95ZH	cor,p
	Abachi 95ZM	const,cs,et,p
	Astur 95	const,cs,et,p
	Blazey 95	const,et
	Kopp 95	const,cs,pt
	Lamoureux 95	angp,cor,p,pt
	Yu 95	const,et,mult,p
	Abachi 94B	cs,et
	Fahley 94	cor,cs,et
	Geer 94	cs,et,pt
	Graf 94	cs,et
	Grannis 94	cs,et
	Lidemarteau 94	cs,et
	Plunkett 94	et,mult

W^- jet X

(1800)	Abachi 96G	const,cs,et,p
	Abachi 96J	ang,cor,et,p
	Guglielmo 96	cs,et,p
	Jaques 96	ang,cor,et,p
	Joffeminor 96	const,et,p
	Phillips 96	et,mult,p
	Abachi 95Y	const,cs,et
	Abachi 95ZH	cor,p
	Abachi 95ZM	const,cs,et,p
	Astur 95	const,cs,et,p
	Blazey 95	const,et
	Kopp 95	const,cs,pt
	Lamoureux 95	angp,cor,p,pt
	Yu 95	const,et,mult,p
	Yu 95B	const
	Abachi 94B	cs,et
	Fahley 94	cor,cs,et
	Geer 94	cs,et,pt
	Graf 94	cs,et
	Grannis 94	cs,et
	Lidemarteau 94	cs,et
	Plunkett 94	et,mult

W^+ hadron X

(1800)	Melese 95	cor,et,mult,p

W^- hadron X

(1800)	Melese 95	cor,et,mult,p

$W^\pm$ X heavy

(1800)	Abachi 96K	cs

W^+ X heavy

(1800)	Abe 97R	cs
	Abachi 96K	cs

W^- X heavy

(1800)	Abe 97R	cs
	Abachi 96K	cs

$W^\pm\, \gamma$ X

(1800)	Aihara 95	const,cs
	Harris 94	cs,mass
	Spadafora 94	cs

$W^+\, \gamma$ X

(1800)	Abachi 97D	const,cs,et,p,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\bar{p}\,p$

$W^+\,\gamma\,X$

	Abachi 96V	const,p,pt
	Barnett 96	const,pt
	Kelly 96	const,cs,et
	Montgomery 96	const,cs
	Neuberger 96B	const,cs,pt
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95E	const,et
	Benjmain 95	const,cs,et,p
	Abe 94N	col,const,cs,pt
	Abe 94P	ang,col,const,cs,et
	Ducros 94	const
	Ellison 94	const,cs
	Errede 94	const
	Errede 94B	const,cs
	Frisch 94	cs
	Fuess 94B	const,cs,pt
	Geer 94	const,cs
	Hara 94	const,cs
	Nodulman 94	const,cs
	Shochet 94	const

$W^-\,\gamma\,X$

(1800)	Abachi 97D	const,cs,et,p,pt
	Abachi 96V	const,p,pt
	Barnett 96	const,pt
	Kelly 96	const,cs,et
	Montgomery 96	const,cs
	Neuberger 96B	const,cs,pt
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95E	const,et
	Benjmain 95	const,cs,et,p
	Abe 94N	col,const,cs,pt
	Abe 94P	ang,col,const,cs,et
	Ducros 94	const
	Ellison 94	const,cs
	Errede 94	const
	Errede 94B	const,cs
	Frisch 94	cs
	Fuess 94B	const,cs,pt
	Geer 94	const,cs
	Hara 94	const,cs
	Nodulman 94	const,cs
	Shochet 94	const

$W^-\,\gamma\,X + W^+\,\gamma\,X$

(1800)	Abbott 98G	const

$W^-\,W^+\,X$

(1800)	Abbott 98D	const
	Abbott 98G	const
	Abachi 97D	const,cs,et,p,pt
	Abbott 97C	const,cs
	Abachi 96D	const,cs,p,pt
	Abe 96R	const,cs
	Barnett 96	const,pt
	Kelly 96	const,cs,et
	Neuberger 96	cs
	Neuberger 96B	cs
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95C	const,cs
	Abachi 95U	const,cs
	Abachi 95ZF	const,cs
	Abe 95L	const,cs,pt
	Diehl 95	const,cs
	Fuess 95	const,cs,pt
	Ducros 94	const
	Errede 94	const
	Frisch 94	cs
	Fuess 94B	const,cs,pt
	Hara 94	const,cs
	Oshima 94	cs
	Shochet 94	const

$\bar{p}\,p$

Z^0 (jets) X

(1800)	Abe 96F	cs
	Goshaw 96	cs,p

Z^0 higgs X

(1800)	Abe 98S	cs

Z^0 jet X

(1800)	Phillips 96	et,mult,p
	Abachi 95ZH	cor,p
	Yu 95	const,et,mult,p
	Hauger 94B	ang,et

$Z^0\,\gamma\,X$

(1800)	Abachi 97	const,et,p
	Abachi 97D	const,cs,et,p,pt
	Abbott 97I	const,cs,et,p
	Barnett 96	const,pt
	Landsberg 96	const,cs,et
	Neuberger 96B	const,cs,pt
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95B	const,cs,et,p
	Abachi 95O	const,et,p
	Aihara 95	const,cs
	Benjmain 95	const,cs,et,p
	Landsberg 95	const,et,p
	Wagner 95	const,cs,p,pt
	Abe 94O	const,cs,et,pt
	Abe 94P	ang,col,const,cs,et
	Ducros 94	const
	Ellison 94	const,cs
	Errede 94	const
	Errede 94B	const,cs
	Frisch 94	cs
	Geer 94	const,cs
	Hara 94	const,cs
	Nodulman 94	const,cs
	Shochet 94	const

$Z^0\,W^+\,X$

(1800)	Abachi 97D	const,cs,et,p,pt
	Abbott 97C	const,cs
	Abachi 96D	const,cs,p,pt
	Barnett 96	const,pt
	Neuberger 96	cs
	Neuberger 96B	cs
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95ZF	const,cs
	Abe 95L	const,cs,pt
	Diehl 95	const,cs
	Fuess 95	const,cs,pt
	Ducros 94	const
	Errede 94	const
	Errede 94B	const,cs
	Frisch 94	cs
	Fuess 94B	const,cs,pt
	Hara 94	const,cs
	Nodulman 94	const,cs
	Shochet 94	const

$Z^0\,W^-\,X$

(1800)	Abachi 97D	const,cs,et,p,pt
	Abbott 97C	const,cs
	Abachi 96D	const,cs,p,pt
	Barnett 96	const,pt
	Neuberger 96	cs
	Neuberger 96B	cs
	Nodulman 96B	const,cs
	Yasuda 96	const,cs
	Abachi 95ZF	const,cs
	Abe 95L	const,cs,pt
	Diehl 95	const,cs
	Fuess 95	const,cs,pt
	Ducros 94	const
	Errede 94	const

$\bar{p}\,p$

$Z^0\,W^-\,X$

	Errede 94B	const,cs
	Frisch 94	cs
	Hara 94	const,cs
	Nodulman 94	const,cs
	Shochet 94	const

$Z^0\,W^-\,X + Z^0\,W^+\,X + W^-\,W^+\,X$

(1800)	Abbott 98G	const

$2Z^0\,X$

(1800)	Nodulman 96B	const,cs
	Ducros 94	const
	Errede 94	const
	Shochet 94	const

$\overline{\text{lepto-quark}}$ lepto-quark X

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abbott 99C	cs
	Abbott 98F	cs
	Abe 98Q	cs
	Abe 98V	cs
	Grossopilche 98	cs
	Abbott 97D	cs
	Abbott 97J	cs
	Abe 97X	cs
	Conway 97	cs
	Abe 96ZD	cs
	Barnett 96	cs
	Conway 96	cs
	Kamon 96	cs
	Wenzel 96	cs
	Abachi 95Z	cs
	Abachi 95ZG	cs
	Abe 95B	cs
	Harris 95	cs
	Hoftun 95	cs
	Park 95	cs
	Hagopian 94	cs
	Park 94B	–
	White 94	cs
	Abachi 93B	cs

$\gamma\,c\,X$

(1800)	Nodulman 96	ang,et,p,pt

$\gamma\,\bar{c}\,X$

(1800)	Nodulman 96	ang,et,p,pt

$\bar{b}\,b\,X$

(1800)	Abe 99D	cs
	Abe 98U	cs,mass
	Dorigo 98	mass
	Abachi 96R	cor,cs,pt
	Abe 96K	–
	Baarmand 96	cs,p,pt
	Montgomery 96	cs,p,pt
	Harris 95B	mass
	Derwent 94	ang,const,p

$\bar{t}\,b\,X + t\,\bar{b}\,X$

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs

$\bar{t}\,t\,X$

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abbott 99	–
	Abbott 98	cs
	Abbott 98N	–
	Abbott 98R	cs
	Abe 98ZB	–
	Abe 98ZE	–
	Klima 98	cs
	Abachi 97B	–
	Abachi 97C	cs
	Abbott 97	–
	Abe 97H	cs
	Abe 97K	–
	Abe 97O	cs
	Abe 97Y	–
	Abe 97ZC	–
	Abe 97ZE	cs
	Abe 97ZH	cs
	Abe 97ZJ	–

$\bar{p}\,p$

$\bar{t}\,t$ X

	Conway 97	cs
	Abe 96	cs
	Azzi 96	cs,mass,pt
	Bantly 96	cs,mass,pt
	Barbarogalti 96	cs,mass,pt
	Barnett 96	cs,mass,pt
	Bhat 96	cs
	Binkley 96	–
	Butler 96	cs
	Castro 96	cs,mass
	Chiarelli 96	cs
	Cobalgrassma 96	–
	Conway 96	cs,mass,pt
	Gerdes 96	cs
	Giokaris 96	mass,pt
	Hall 96	cs
	Heinson 96	cs,mass,pt
	Kruse 96	const,cs,mass,pt
	Lecompte 96	–
	Leone 96	cs
	Leone 96B	cs,mass,pt
	Leone 96C	cs
	Loomis 96	–
	Loomis 96B	–
	Lys 96	–
	Montgomery 96	cs
	Narain 96	cs
	Protopopescu 96	cs
	Rolli 96	–
	Sinervo 96	cs,mass,pt
	Strovink 96	–
	Tartarelli 96	cs,mass,pt
	Valls 96	cs
	Abachi 95G	cs
	Abe 95	cs
	Abe 95J	cs
	Bantly 95	cs
	Beretvas 95	cs
	Beretvas 95B	cs,mass
	Beretvas 95C	cs
	Beretvas 95D	mass,pt
	Binkley 95	mass,pt
	Demortier 95	mass
	Grassmann 95	cs
	Grassmann 95B	–
	Hadley 95	cs
	Harris 95B	mass
	Kim 95C	cs
	Klima 95B	cs
	Menzione 95	cs
	Peryshkin 95	cs
	Sinervo 95	cs
	Strovink 95	cs
	Synder 95	cs
	Unal 95	cs
	Wimpenny 95B	cs
	Abe 94B	cs
	Abe 94E	cs
	Abe 94Z	cs
	Abe 94ZE	cs
	Konigsberg 94	cs
	Leone 94	cs
	Sphicas 94	cs

$\bar{b}'\,b'$ X

(1800)	Abe 98J	cs
	Abachi 96F	cs
	Abachi 96Q	cs
	Gallas 96	–
	Greenlee 96	cs

γ neutralino X

(1800)	Abe 94I	cs

2neutralino X

(1800)	Abe 98	cs
	Abe 98R	cs

chargino neutralino X

(1800)	White 94	cs
	Wolinski 94	cs

chargino$^+$ neutralino X

(1800)	Abe 98M	cs

$\bar{p}\,p$

chargino$^+$ neutralino X

	Abbott 97E	cs
	Abbott 97G	cs
	Abe 96C	cs
	Barnett 96	cs
	Conway 96	cs
	Kamon 96	cs
	Maeshima 96	cs
	Kamon 94	cs

chargino$^-$ neutralino X

(1800)	Abe 98M	cs
	Abbott 97E	cs
	Abbott 97G	cs
	Abe 96C	cs
	Barnett 96	cs
	Conway 96	cs
	Kamon 96	cs
	Maeshima 96	cs
	Kamon 94	cs

chargino$^+$ chargino$^-$ X

(1800)	Abbott 97G	cs

wino$^-$ wino$^+$ X

(1800)	Eno 95	cs

zino wino$^+$ X

(1800)	Abachi 96N	cs
	Abachi 95ZO	cs
	Eno 95	cs
	Blessing 94	cs

zino wino$^-$ X

(1800)	Abachi 96N	cs
	Abachi 95ZO	cs
	Eno 95	cs
	Blessing 94	cs

2gluino X

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abe 97V	cs
	Abachi 96O	cs
	Abachi 96P	cs
	Abe 96Q	cs
	Gallas 96	const,cs
	Maeshima 96	cs
	Abachi 95F	const,cs
	Abachi 95L	const,cs
	Abe 95ZH	cs
	Eno 95	const,cs
	Hagopian 94	cs

$b\,H^+$ X

(1800)	Abe 94E	mass

$\bar{b}\,H^-$ X

(1800)	Abe 94E	mass

$\tilde{e}^-\,\tilde{e}^+$ X

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs

gluino X $\tilde{q}$

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abe 97V	cs
	Abachi 96O	cs
	Abachi 96P	cs
	Abe 96Q	cs
	Gallas 96	const,cs
	Maeshima 96	cs
	Abachi 95F	const,cs
	Abachi 95L	const,cs
	Abe 95ZH	cs
	Eno 95	const,cs

gluino X $\bar{\tilde{q}}$

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abe 97V	cs
	Abachi 96O	cs
	Abachi 96P	cs
	Abe 96Q	cs
	Gallas 96	const,cs
	Maeshima 96	cs
	Abachi 95F	const,cs
	Abachi 95L	const,cs

$\bar{p}\,p$

gluino X $\bar{\tilde{q}}$

	Abe 95ZH	cs
	Eno 95	const,cs

X 2$\tilde{q}$

(1800)	Abe 97V	cs

X $\bar{\tilde{q}}\,\tilde{q}$

(540)	Jakobs 94	cs
(630)	Jakobs 94	cs
(1800)	Abe 97V	cs
	Abachi 96O	cs
	Abachi 96P	cs
	Abe 96Q	cs
	Gallas 96	const,cs
	Maeshima 96	cs
	Abachi 95F	const,cs
	Abachi 95L	const,cs
	Abe 95ZH	cs
	Eno 95	const,cs
	Hagopian 94	cs

X 2$\bar{\tilde{q}}$

(1800)	Abe 97V	cs

$\tilde{b}\,\bar{\tilde{b}}$ X

(1800)	Abbott 99B	cs

$\bar{\tilde{t}}\,\tilde{t}$ X

(1800)	Abachi 96P	cs
	Abachi 95ZP	cs

$\tilde{t}_1\,\bar{\tilde{t}}_1$ X

(1800)	Abachi 96U	cs
	Abachi 95ZQ	cs,pt

2technipion X

(1800)	Abe 98V	cs

π^+ X annihil

22.4	Boos 96	p,pt

π^- X annihil

22.4	Boos 96	p,pt

$\pi^+\,\gamma$ X

(1800)	Abe 95ZK	mass

$\pi^-\,\gamma$ X

(1800)	Abe 95ZK	mass

2π^+ X

0.	Adler 94	angp,cor
(1800)	Alexopoulos 94	angp,cor

$\pi^0\,\pi^\pm$ X

(1800)	Abe 94H	mass

$\pi^+\,\pi^-$ X

32	Kostin 96	mass,p,pt

2π^- X

0.	Adler 96C	angp,cor,mass
	Adler 94	angp,cor
(1800)	Alexopoulos 94	angp,cor

$\pi^+\,\pi^-$ (neutrals)

0.	Adler 95F	mass

ρ^0 mult[charged] (neutrals)

32	Bogolyubsky 97	cs,mult

$f_2(1270)$ mult[charged] (neutrals)

32	Bogolyubsky 97	cs,mult

K^+ mult[charged-hadron] X

(630)	Bocquet 95	cor,p,pt

K^- mult[charged-hadron] X

(630)	Bocquet 95	cor,p,pt

K_S mult[charged-hadron] X

(630)	Bocquet 95	cor,p,pt

$\phi(1020)\,\pi^+$ X

(1800)	Lecompte 94	mass

$\phi(1020)\,\pi^-$ X

(1800)	Mueller 94	mass,pt

γ charm X

(1800)	Blair 95	et,pt

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$\overline{p}\,p$

γ charm X

	Hamilton 94	cs,pt
	Kuhlmann 94B	cs,p,pt

γ $\overline{\text{charm}}$ X

(1800)	Blair 95	et,pt
	Kuhlmann 94B	cs,p,pt

$D^*(2010)^+$ γ X

(1800)	Abe 96M	angp,cs,p
	Blair 95	et,pt
	Kuhlmann 94B	cs,p,pt

$D^*(2010)^-$ γ X

(1800)	Abe 96M	angp,cs,p
	Blair 95	et,pt
	Kuhlmann 94B	cs,p,pt

$J/\psi(1S)$ γ X

(1800)	Abe 97F	mass,p,pt
	Sansoni 96	mass
	Markosky 95	mass,p,pt

$J/\psi(1S)$ π^+ X

(1800)	Abe 95O	mass
	Abe 95X	mass,p,pt

$J/\psi(1S)$ π^- X

(1800)	Abe 95O	mass
	Abe 95X	mass,p,pt

K^+ $J/\psi(1S)$ X

(1800)	Abe 95E	mass,p,pt
	Abe 95O	mass
	Abe 95P	mass,p
	Abe 95X	mass,p,pt
	Abe 94D	mass
	Anwaywiese 94	mass
	Hara 94	mass,p
	Lewis 94	mass
	Plunkett 94	mass,p

K^- $J/\psi(1S)$ X

(1800)	Abe 95E	mass,p,pt
	Abe 95O	mass
	Abe 95P	mass,p
	Abe 95X	mass,p,pt
	Anwaywiese 94	mass
	Hara 94	mass,p
	Lewis 94	mass
	Plunkett 94	mass,p

K_S $J/\psi(1S)$ X

(1800)	Abe 98P	mass
	Abe 94D	mass
	Lewis 94	mass

$K^*(892)^+$ $J/\psi(1S)$ X

(1800)	Abe 94D	mass
	Lewis 94	mass

$K^*(892)^0$ $J/\psi(1S)$ X

(1800)	Bauer 96	ang,mass
	Abe 95E	mass,p,pt
	Abe 95P	mass,p
	Abe 95ZB	ang,mass
	Abe 95ZC	mass
	Abe 94D	mass
	Abe 94ZF	mass
	Hara 94	mass,p
	Lewis 94	mass
	Plunkett 94	mass,p

$\overline{K}^*(892)^0$ $J/\psi(1S)$ X

(1800)	Bauer 96	ang,mass
	Abe 95E	mass,p,pt
	Abe 95P	mass,p
	Abe 95ZB	ang,mass
	Abe 95ZC	mass
	Abe 94ZF	mass
	Hara 94	mass,p
	Lewis 94	mass
	Plunkett 94	mass,p

$K^*(892)^-$ $J/\psi(1S)$ X

(1800)	Lewis 94	mass

$J/\psi(1S)$ $\phi(1020)$ X

(1800)	Bauer 96	ang,mass

$\overline{p}\,p$

$J/\psi(1S)$ $\phi(1020)$ X

	Abe 95P	mass,p
	Abe 95ZB	ang,mass
	Abe 95ZC	mass
	Abe 94X	mass,p,pt
	Abe 94ZH	mass,pt
	Hara 94	mass,p
	Lewis 94	mass
	Mueller 94	mass
	Plunkett 94	mass,p

K^+ $\psi(2S)$ X

(1800)	Abe 94D	mass
	Lewis 94	mass

K^- $\psi(2S)$ X

(1800)	Lewis 94	mass

K_S $\psi(2S)$ X

(1800)	Abe 94D	mass
	Lewis 94	mass

$K^*(892)^+$ $\psi(2S)$ X

(1800)	Abe 94D	mass
	Lewis 94	mass

$K^*(892)^0$ $\psi(2S)$ X

(1800)	Abe 94D	mass
	Lewis 94	mass

$\overline{K}^*(892)^0$ $\psi(2S)$ X

(1800)	Lewis 94	mass

$K^*(892)^-$ $\psi(2S)$ X

(1800)	Lewis 94	mass

bottom $\overline{\text{bottom}}$ X

(630)	Albajar 95	ang,const,cs,p,pt
	Albajar 93B	angp,cs
(1800)	Abe 98Y	cor,cs,p,pt
	Abe 96S	cor,cs,p,pt
	Abe 94Q	cor,cs,pt
	Bazizi 94	ang,cor,pt
	Gerdes 94	–
	Hara 94	cs
	Hedin 94	ang,p,pt
	Yu 94B	cs,pt

B^+ π^+ X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B^+ π^- X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B^0 π^+ X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B^0 π^- X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

$\overline{B}^0$ π^+ X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

$\overline{B}^0$ π^- X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B^- π^+ X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B^- π^- X

(1800)	Abe 98ZC	cs,p
	Abe 97ZB	cs,p

B $\overline{B}$ X

(1800)	Abe 99B	p
	Wang 96	ang,p,pt
	Yu 96B	cor,pt
	Abe 95U	cs,p,pt
	Papadimitrio 95	ang,p,pt
	Barker 94	cs,p,pt

B^0 $\overline{B}$ X

(1800)	Abe 99B	p
	Busetto 96	–

$\overline{p}\,p$

B^0 $\overline{B}$ X

	Abachi 95R	–
	Abe 95U	cs,p,pt
	Skarha 95	–

$\overline{B}^0$ B X

(1800)	Busetto 96	–
	Abachi 95R	–
	Abe 95U	cs,p,pt
	Skarha 95	–

B^0 $\overline{B}^0$ X

(1800)	Abe 98P	–
	Abe 96S	–
	Abe 95Y	–

$\overline{\text{top}}$ top X

(1800)	Abachi 95V	cs
	Abe 95I	cs
	Greenlee 95	cs
	Hoftun 95	cs
	Incandela 95	cs
	Incandela 95B	cs
	Kim 95B	–
	Klima 95	cs
	Kopp 95	cs
	Roser 95	cs
	Thompson 95	cs
	Wimpenny 95	–
	Abachi 94B	cs
	Abachi 94D	cs
	Abe 94T	cs
	Antos 94	cs
	Benlloch 94	cs
	Cdfcollabora 94C	–
	Chakraborty 94	cs
	Frisch 94	cs
	Garbincius 94	–
	Geer 94	cs
	Genser 94	cs
	Grannis 94	cs
	Jensen 94	cs
	Lidemarteau 94	cs
	Nodulman 94	cs
	Raja 94	cs
	Shochet 94	cs
	Tollestrup 94	cs
	Watts 94	cs
	Williams 94	cs

p jet X + $\overline{p}$ jet X

(630)	Brandt 97	ang,angp,mass,p,pt
	Albrow 96	angp,mass,p,pt

Λ mult[charged-hadron] X

(630)	Bocquet 95	cor,p,pt

$\overline{\Lambda}$ mult[charged-hadron] X

(630)	Bocquet 95	cor,p,pt

e^- (charged$^+$s) (charged$^-$s) X

(1800)	Abe 97C	cor,cs,et,mult,p,pt

e^+ (charged$^+$s) (charged$^-$s) X

(1800)	Abe 97C	cor,cs,et,mult,p,pt

e^- 2jet X

(1800)	Abe 95L	et,mass,p,pt
	Fuess 95	mass,p,pt
	Antos 94	cs
	Chakraborty 94	cs,et,p,pt
	Hagopian 94	et,mass
	Jensen 94	cs

e^+ 2jet X

(1800)	Abe 95L	et,mass,p,pt
	Fuess 95	mass,p,pt
	Antos 94	cs
	Chakraborty 94	cs,et,p,pt
	Hagopian 94	et,mass
	Jensen 94	cs

e^- hadron (hadrons) X 0jet

(1800)	Fahley 94	cor,et

$\bar{p}\,p$

e^- hadron (hadrons) X
(1800) Abachi 95I col,et,p,pt
Abachi 95K et,p,pt
Abachi 95Y col,et,p,pt
Abachi 95ZD et,mass,p
Abachi 95ZE col,et,et,mass,p
Abachi 95ZM col,et,p,pt
Abe 95C col,et,p,pt
Abe 95I col,et,p,pt
Debarbaro 95 col,et,p,pt
Eno 95 et,p,pt
Frisch 95 col,et,p,pt
Fuess 95 col,et,p,pt
Grassmann 95B et,mass,pt
Kim 95 col,et,p,pt
Kim 95B cor,et,p,pt
Melese 95 cor,et,mult,p,pt
Peryshkin 95 et,mass,pt
Abe 94M et,p
Abe 94R col,et,p,pt
Abe 94S col,cs,et,p,pt
Budd 94 col,p,pt
Debarbaro 94 col,et,p,pt
Eppley 94 col,et,p
Fahley 94 et,mass
Geer 94 et,mass,p
Graf 94 et,p
Hara 94 col,et,p
Jung 94 col,et,p
Keup 94 col,et,p,pt
Melese 94 et,mult,p
Nodulman 94 col,et,p,pt
Plunkett 94 col,et,p
Quintas 94 cs,et,p
Sakyumoto 94 et,p
Taketani 94 et,mass,p

e^+ hadron (hadrons) X 0jet
(1800) Fahley 94 cor,et

e^+ hadron (hadrons) X
(1800) Abachi 95I col,et,p,pt
Abachi 95K et,p,pt
Abachi 95Y col,et,p,pt
Abachi 95ZD et,mass,p
Abachi 95ZE col,et,et,mass,p
Abachi 95ZM col,et,p,pt
Abe 95C col,et,p,pt
Abe 95I col,et,p,pt
Debarbaro 95 col,et,p,pt
Eno 95 et,p,pt
Frisch 95 col,et,p,pt
Fuess 95 col,et,p,pt
Grassmann 95B et,mass,pt
Kim 95 col,et,p,pt
Kim 95B cor,et,p,pt
Melese 95 cor,et,mult,p,pt
Peryshkin 95 et,mass,pt
Abe 94M et,p
Abe 94R col,et,p,pt
Abe 94S col,cs,et,p,pt
Budd 94 col,p,pt
Debarbaro 94 col,et,p,pt
Eppley 94 col,et,p
Fahley 94 et,mass
Geer 94 et,mass,p
Graf 94 et,p
Hara 94 col,et,p
Jung 94 col,et,p
Keup 94 col,et,p,pt
Melese 94 et,mult,p

$\bar{p}\,p$

e^+ hadron (hadrons) X
Nodulman 94 col,et,p,pt
Plunkett 94 col,et,p
Quintas 94 cs,et,p
Sakyumoto 94 et,p
Taketani 94 et,mass,p

$e^\pm\ 2\gamma$ X
(1800) Abe 98R cs,et,mass,p

$e^-\ e^+$ (jets) X
(1800) Cdfcollabora 94D et

$e^-\ e^+$ jet X
(1800) Abachi 95X cs,et,p,pt
Cdfcollabora 94D et,mass,mult
Hauger 94B et,mass

$e^-\ \bar{\nu}_e\ \gamma$ X
(1800) Aihara 95 et
Errede 94 et,mass,p

$e^+\ \nu_e\ \gamma$ X
(1800) Aihara 95 et
Errede 94 et,mass,p

$e^-\ e^+\ \gamma$ X
(1800) Abachi 95B cor,cs,et,mass,p,pt
Abachi 95O col,et,mass,p,pt
Aihara 95 et
Benjmain 95 et,mass,p,pt
Landsberg 95 et,mass,p,pt
Wagner 95 cor,mass,p,pt
Abe 94O col,cs,et,mass,p,pt
Ellison 94 et,mass,p,pt
Errede 94 et,mass,p
Errede 94B et,mass,p,pt

$W^- < e^-\ \bar{\nu}_e >$ X
(1800) Abe 98X p

$W^+ < e^+\ \nu_e >$ X
(1800) Abe 98X p

$3e^\pm$ X
(1800) White 94 p,pt
Wolinski 94 p,pt

$2e^-\ e^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$e^-\ 2e^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

μ^- 2jet X
(1800) Abe 95L et,mass,p,pt
Fuess 95 mass,p,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Hagopian 94 et,mass,pt
Jensen 94 cs
Raja 94 col,et

μ^+ 2jet X
(1800) Abe 95L et,mass,p,pt
Fuess 95 mass,p,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Hagopian 94 et,mass,pt
Jensen 94 cs
Raja 94 col,et

μ^- hadron (hadrons) X
(1800) Abachi 95I col,et,p,pt
Abachi 95ZE col,et,et,mass,p

$\bar{p}\,p$

μ^- hadron (hadrons) X
Abe 95C col,et,p,pt
Abe 95I col,et,p,pt
Debarbaro 95 col,et,p,pt
Frisch 95 col,et,p,pt
Fuess 95 col,et,p,pt
Grassmann 95B et,mass,pt
Kim 95 col,et,p,pt
Kim 95B cor,et,p,pt
Peryshkin 95 et,mass,pt
Abe 94M et,p
Budd 94 col,p,pt
Debarbaro 94 col,et,p,pt
Geer 94 et,mass,p
Graf 94 et,p
Hara 94 col,et,p,pt
Jung 94 col,et,p,pt
Keup 94 col,et,p,pt
Melese 94 et,mult,p
Nodulman 94 col,et,p,pt
Quintas 94 cs,et,p
Sakyumoto 94 et,p
Taketani 94 p

μ^+ hadron (hadrons) X
(1800) Abachi 95I col,et,p,pt
Abachi 95ZE col,et,et,mass,p
Abe 95C col,et,p,pt
Abe 95I col,et,p,pt
Debarbaro 95 col,et,p,pt
Frisch 95 col,et,p,pt
Fuess 95 col,et,p,pt
Grassmann 95B et,mass,pt
Kim 95 col,et,p,pt
Kim 95B cor,et,p,pt
Peryshkin 95 et,mass,pt
Abe 94M et,p
Budd 94 col,p,pt
Debarbaro 94 col,et,p,pt
Geer 94 et,mass,p
Graf 94 et,p
Hara 94 col,et,p,pt
Jung 94 col,et,p,pt
Keup 94 col,et,p,pt
Melese 94 et,mult,p
Nodulman 94 col,et,p,pt
Quintas 94 cs,et,p
Sakyumoto 94 et,p
Taketani 94 p

$\mu^\pm\ 2\gamma$ X
(1800) Abe 98R cs,et,mass,p

$\mu^-\ e^-$ jet X
(1800) Raja 94 et

$\mu^+\ e^+$ jet X
(1800) Raja 94 et

$\mu^\pm\ 2e^\pm$ X
(1800) White 94 p,pt
Wolinski 94 p,pt

$\mu^-\ e^-\ e^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$\mu^+\ e^-\ e^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$\mu^-\ \mu^+$ (jets) X
(1800) Cdfcollabora 94D et

$2\mu^-$ jet X
(1800) Abachi 95R cor,et,p,pt

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$\bar{p}\,p$

$\mu^-\,\mu^+$ jet X
(1800) Abachi 95R cor,et,p,pt
Cdfcollabora 94D et,mass,mult
Hauger 94B et,mass

$2\mu^+$ jet X
(1800) Abachi 95R cor,et,p,pt

$2\mu^-\,\gamma$ X
(1800) Errede 94 et,mass,p

$\mu^-\,\bar{\nu}_\mu\,\gamma$ X
(1800) Aihara 95 et
Errede 94 et,mass,p

$\mu^+\,\nu_\mu\,\gamma$ X
(1800) Aihara 95 et
Errede 94 et,mass,p

$\mu^-\,\mu^+\,\gamma$ X
(1800) Abe 97F mass,p,pt
Abachi 95B cor,cs,et,mass,p,pt
Abachi 95O col,et,mass,p,pt
Abachi 95ZB mass,p,pt
Abe 95T mass
Aihara 95 et
Bazizi 95 mass,p,pt
Benjmain 95 et,mass,p,pt
Derwent 95 mass,p,pt
Landsberg 95 et,mass,p,pt
Wagner 95 cor,mass,p,pt
Abe 94O col,cs,et,mass,p,pt
Ellison 94 et,mass,p,pt
Errede 94B et,mass,p,pt
Hedin 94 ang,mass,p,pt

$W^- < \mu^-\,\bar{\nu}_\mu >$ X
(1800) Abe 98X p

$W^+ < \mu^+\,\nu_\mu >$ X
(1800) Abe 98X p

$2\mu^\pm\,e^\pm$ X
(1800) White 94 p,pt
Wolinski 94 p,pt

$\mu^-\,\mu^+\,e^-$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$\mu^-\,\mu^+\,e^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$3\mu^\pm$ X
(1800) White 94 p,pt
Wolinski 94 p,pt

$2\mu^-\,\mu^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$\mu^-\,2\mu^+$ X
(1800) Eno 95 et,p,pt
Blessing 94 et,p,pt
Kamon 94 ang,cor,p,pt

$\tau^\pm\,2\gamma$ X
(1800) Abe 98R cs,et,mass,p

$\mu^-\,b <$ jet $>$ X
(1800) Abe 95Q ang,cs,et,pt

$\pi^+\,\mu^-\,\mu^+$ X
(1800) Abe 95O mass

$\pi^-\,\mu^-\,\mu^+$ X
(1800) Abe 95O mass

$K^\pm\,\mu^-\,\mu^+$ X
(1800) Cdfcollabora 94E mass

$\bar{p}\,p$

$K^+\,\mu^-\,\mu^+$ X
(1800) Abe 95E mass,p,pt
Abe 95O mass
Anwaywiese 94 mass
Byrum 94 mass,pt
Mueller 94 mass,pt

$K^-\,\mu^-\,\mu^+$ X
(1800) Abe 95E mass,p,pt
Abe 95O mass
Anwaywiese 94 mass
Byrum 94 mass,pt

$K_S\,\mu^-\,\mu^+$ X
(1800) Mueller 94 mass,pt

$K^+\,\pi^-\,e^+$ X
(1800) Lewis 94B mass,pt

$K^-\,\pi^+\,e^-$ X
(1800) Lewis 94B mass,pt

$K^+\,\pi^-\,\mu^+$ X
(1800) Lewis 94B mass,pt

$K^-\,\pi^+\,\mu^-$ X
(1800) Lewis 94B mass,pt

$\phi(1020)\,\pi^+\,e^-$ X
(1800) Abe 94X mass,p,pt

$\phi(1020)\,\pi^-\,e^+$ X
(1800) Abe 94X mass,p,pt

$\phi(1020)\,\pi^+\,\mu^-$ X
(1800) Abe 94X mass,p,pt

$\phi(1020)\,\pi^-\,\mu^+$ X
(1800) Abe 94X mass,p,pt

$D^*(2007)^0\,\mu^-\,\bar{\nu}_\mu$ X
(1800) Lecompte 94 mass,pt

$D_s^+\,e^-\,\bar{\nu}_e$ X
(1800) Lecompte 94 mass,pt

2charged (chargeds) X
22.4 Boos 95 col,cor,p
32 Bogolyubsky 95 cor,mult,p
Boos 95 col,cor,p
(1800) Rimondi 94 cor,mult,p

2charged$^+$ mult[charged] X
(630) Buschbeck 98 cor,mult,p,pt

charged$^+$ charged$^-$ mult[charged] X
(630) Buschbeck 98 cor,mult,p,pt

2charged$^-$ mult[charged] X
(630) Buschbeck 98 cor,mult,p,pt

mult[π^+] mult[π^0] mult[π^-] X
(1800) Bjorken 96 cor,mult,p

(neutrals) 2jet X 0charged
(630) Abe 98W cs,mass,p,pt

(chargeds) 2jet X
(1800) Albrow 96 ang,et,mult,p
Goulianos 96 et,mult,p
Melese 96C et,mult,p
Perkins 96 et,p
Abe 94K ang,et,mult,p
Kovacs 94 cor,et,mult,p

(jets) 2jet X
(540) Jakobs 94 ang,et,mass,p
(630) Jakobs 94 ang,et,mass,p
(1800) Abbott 97B ang,col,p,pt
Abe 97D angp,et,mass,p
Abe 97I ang,cor,cs,et,p
Abe 97W ang,cor,cs,et,p
Abe 97ZD cs,et,p

$\bar{p}\,p$

(jets) 2jet X
Abachi 96B ang,cor,et,p
Gallas 96B cs,et,p
Abachi 95H cor,et,p

(hadrons) 2jet X
(1800) Melese 96B cor,et,p,pt
Blazey 95 cor,et,mult,p
Womersley 95 cor,et,p

neutral 2jet X
(1800) Norman 94 et,p,pt

invisible 2jet X
(1800) Abachi 95ZQ cor,et,mass,p

higgs 2jet X
(1800) Abachi 95T cs

3jet X
(1800) Abachi 96J ang,cor,et,p
Abe 96I ang,cor,et,mass,p
Asakawa 96 angp,et,mass,p
Jaques 96 ang,cor,et,p
Varelas 96 ang,et,p
Abachi 95W col,et,p
Abachi 95ZK angp,cs,mass,p
Abe 95D angp,et,mass,p,pt
Astur 95 const,cs,et,p
Geer 95B ang,cor,et,p
Womersley 95 cor,et,p
Bartalini 94 et,p
Geer 94 angp,cor,et,mass,p
Giannetti 94 ang,angp,et,p
Weerts 94 ang,p
Yu 94 ang,et,mass

hadron 2jet X
(1800) Abachi 95Q mult,p
Bertram 95 ang,cor,p,pt
Melese 95 cor,et,p

γ (jets) jet X
(1800) Buckleygeer 94 et,mult
Fahley 94 angp,p,pt

γ 2jet X
(1800) Abe 97Q ang,et,mass,p,pt
Nodulman 96 ang,et,p,pt
Buckleygeer 94 et,mass

2γ (γ's) X
(1800) Abe 98R cs,et,mass,p

2γ (jets) X
(1800) Abe 98R cs,et,mass,p

2γ (hadrons) X
(1800) Chen 96 cor,p,pt

2γ invisible X
(1800) Abachi 96T cs,et,p

2γ jet X
(1800) Yu 94 et

W^+ (charged$^+$s) (charged$^-$s) X
(1800) Abe 97C cor,cs,p

W^- (charged$^+$s) (charged$^-$s) X
(1800) Abe 97C cor,cs,p

DD $< W^+$ X $>$ jet X
(1800) Abe 97C cor,cs,p

DD $< W^-$ X $>$ jet X
(1800) Abe 97C cor,cs,p

W^+ (chargeds) jet X
(1800) Goulianos 96 et,mult,p

W^- (chargeds) jet X
(1800) Goulianos 96 et,mult,p

$\bar{p}\,p$

W^+ (jets) jet X
(540) Jakobs 94 const,cs,p,pt
(630) Jakobs 94 const,cs,p,pt
(1800) Abe 98I et,p
Abe 97Z cs,et,p
Goshaw 96 cs,p
Yu 95B et,mass,mult,p
Geer 94 cs,mult

W^- (jets) jet X
(540) Jakobs 94 const,cs,p,pt
(630) Jakobs 94 const,cs,p,pt
(1800) Abe 98I et,p
Abe 97Z cs,et,p
Goshaw 96 cs,p
Yu 95B et,mass,mult,p
Geer 94 cs,mult

W^+ 2jet X
(1800) Kopp 95 cs,mass
Abachi 94B cs,et
Graf 94 cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

W^- 2jet X
(1800) Kopp 95 cs,mass
Abachi 94B cs,et
Graf 94 cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

Z^0 (jets) jet X
(540) Jakobs 94 const,cs,p,pt
(630) Jakobs 94 const,cs,p,pt
(1800) Abe 96F ang,angp,cor,cs,et
Dittmann 96 et,p
Goshaw 96 cs,p
Yu 95 et,p
Yu 95B et,mass,mult,p
Cdfcollabora 94D cor,cs,et

Z^0 2jet X
(1800) Yu 95 ang,cor,et,mass,p

3lepto-quark X
(1800) Norman 94 cs

π^+ mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

π^- mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

$W^+ < \pi^+ \gamma >$ X
(1800) Abe 98D cs

$W^- < \pi^- \gamma >$ X
(1800) Abe 98D cs

$2\pi^+ \pi^-$ X
0. Adler 96C angp,cor,mass

K^- mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

$D^0 \pi^+ \gamma$ X
(1800) Kuhlmann 94B ang,mass,p

$\overline{D}^0 \pi^- \gamma$ X
(1800) Kuhlmann 94B ang,mass,p

$W^+ < D_s^+ \gamma >$ X
(1800) Abe 98G cs

$W^- < D_s^- \gamma >$ X
(1800) Abe 98G cs

$\bar{b} < J/\psi(1S)$ X $>$ X + $b < J/\psi(1S)$ X $>$ X
(1800) Abe 97 cs,p,pt

$\bar{p}\,p$

$\bar{b} < \psi(2S)$ X $>$ X + $b < \psi(2S)$ X $>$ X
(1800) Abe 97 cs,p,pt

B 2γ X
(1800) Abe 98R cs,et,mass,p

$\overline{B}$ 2γ X
(1800) Abe 98R cs,et,mass,p

B $\overline{B}$ jet X
(1800) Abachi 95M p,pt

p mult[charged$^+$] mult[charged$^-$] X
32 Zabrodin 95 cs,mult,p,pt

DD < 2jet X > p + DD < 2jet X > $\bar{p}$
(1800) Abe 97I ang,cor,cs,et,p

p 2jet X + $\bar{p}$ 2jet X
(630) Brandt 97 ang,angp,mass,p,pt

(jets) 3jet X $0e^\pm$ $0\mu^\pm$
(1800) Hagopian 94 cs,et

e^- neutral 2jet X
(1800) Norman 94 et,p,pt

e^+ neutral 2jet X
(1800) Norman 94 et,p,pt

e^- 3jet X
(1800) Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs

e^+ 3jet X
(1800) Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs

e^- hadron (hadrons) jet X
(1800) Fahley 94 cor,et

e^+ hadron (hadrons) jet X
(1800) Fahley 94 cor,et

e^- γ hadron (hadrons) X
(1800) Abachi 95E col,et,p,pt
Benjmain 95 col,et,p,pt
Abe 94N col,et,pt
Abe 94P col,et,mass
Ellison 94 col,et,p,pt
Errede 94B et,p,pt
Fuess 94B cs,et,mass,pt

e^+ γ hadron (hadrons) X
(1800) Abachi 95E col,et,p,pt
Benjmain 95 col,et,p,pt
Abe 94N col,et,pt
Abe 94P col,et,mass
Ellison 94 col,et,p,pt
Errede 94B et,p,pt
Fuess 94B cs,et,mass,pt

$e^\pm$ ν 2jet X
(1800) White 94 mass
Abachi 93B mass

e^- $\bar{\nu}$ 2jet X
(1800) Abachi 95ZF et,mass,p
Park 95 col,et,mass

e^+ ν 2jet X
(1800) Abachi 95ZF et,mass,p
Park 95 col,et,mass

e^- e^+ 2jet X
(1800) Chiarelli 96 cor,et,p,pt
Abachi 95G et,mass,pt
Abachi 95X cs,et,p,pt
Abe 95 et,mass,pt
Abe 95L et,mass,p,pt
Fuess 95 mass,p,pt
Abe 94T cor,et,mass,p,pt
Frisch 94 et,p

$\bar{p}\,p$

e^- e^+ 2jet X
Garbincius 94 cor,et,p,pt
Geer 94 cs,et,p,pt
Genser 94 cs,et,p,pt
Hagopian 94 et,mass
Nodulman 94 et,p
Norman 94 et,p,pt
Shochet 94 et,mass,pt
White 94 mass
Abachi 93B mass

e^- e^+ hadron (hadrons) X
(1800) Abachi 95C ang,col,et,p,pt
Abachi 95I et,mass,p,pt
Abachi 95K et,p,pt
Abachi 95U ang,col,et,p,pt
Abachi 95ZE col,et,et,mass,p
Eno 95 et,mass,p,pt
Fuess 95 col,et,mass,p,pt
Peryshkin 95 et,mass,pt
Fahley 94 et,mass
Geer 94 et,mass,p
Taketani 94 et,mass,p

e^- e^+ 2γ X
(1800) Abe 98R cs,et,mass,p
Conway 96 cor,et,mass

$2e^-$ e^+ $\bar{\nu}_e$ X
(1800) Errede 94 et,mass,p

e^- e^+ ν_e $\bar{\nu}_e$ X
(1800) Errede 94 et,mass,p

e^- $2e^+$ ν_e X
(1800) Errede 94 et,mass,p

$2e^-$ $2e^+$ X
(1800) Errede 94 et,mass,p

μ^- neutral 2jet X
(1800) Norman 94 et,p,pt

μ^+ neutral 2jet X
(1800) Norman 94 et,p,pt

μ^- 3jet X
(1800) Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs

μ^+ 3jet X
(1800) Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs

μ^- 2hadron (hadrons) X
(1800) Gerdes 94 et,p,pt

μ^+ 2hadron (hadrons) X
(1800) Gerdes 94 et,p,pt

μ^- γ hadron (hadrons) X
(1800) Abachi 95E col,et,p,pt
Benjmain 95 col,et,p,pt
Abe 94N col,et,pt
Abe 94P col,et,mass
Ellison 94 col,et,p,pt
Errede 94B et,p,pt
Fuess 94B cs,et,mass,pt

μ^+ γ hadron (hadrons) X
(1800) Abachi 95E col,et,p,pt
Benjmain 95 col,et,p,pt
Abe 94N col,et,pt
Abe 94P col,et,mass
Ellison 94 col,et,p,pt
Errede 94B et,p,pt
Fuess 94B cs,et,mass,pt

μ^- W^- (jets) jet X
(1800) Abachi 94B cs,et,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\bar{p}\,p$

$\mu^- W^-$ (jets) jet X
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt

$\mu^+ W^+$ (jets) jet X
(1800) Abachi 94B cs,et,pt
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt

$\mu^\pm W^+$ 2jet X
(1800) Abachi 96K cs,et,mass,p

$\mu^\pm W^-$ 2jet X
(1800) Abachi 96K cs,et,mass,p

$\mu^- e^-$ (jets) jet X
(1800) Raja 94 col,et,mult,pt

$\mu^+ e^+$ (jets) jet X
(1800) Raja 94 col,et,mult,pt

$\mu^- e^-$ 2jet X
(1800) Raja 94 et

$\mu^- e^+$ 2jet X
(1800) Chiarelli 96 cor,et,p,pt
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Abe 94T cor,et,mass,p,pt
Frisch 94 et,p
Garbincius 94 cor,et,p,pt
Genser 94 cs,et,p,pt
Leone 94 et,mass,pt
Nodulman 94 et,p
Shochet 94 et,mass,pt

$\mu^+ e^-$ 2jet X
(1800) Chiarelli 96 cor,et,p,pt
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Abe 94T cor,et,mass,p,pt
Frisch 94 et,p
Garbincius 94 cor,et,p,pt
Genser 94 cs,et,p,pt
Leone 94 et,mass,pt
Nodulman 94 et,p
Shochet 94 et,mass,pt

$\mu^+ e^+$ 2jet X
(1800) Raja 94 et

$\mu^- e^+$ hadron (hadrons) X
(1800) Abachi 95C ang,col,et,p,pt
Abachi 95U ang,col,et,p,pt
Fuess 95 col,et,mass,p,pt
Peryshkin 95 et,mass,pt

$\mu^+ e^-$ hadron (hadrons) X
(1800) Abachi 95C ang,col,et,p,pt
Abachi 95U ang,col,et,p,pt
Fuess 95 col,et,mass,p,pt
Peryshkin 95 et,mass,pt

$\mu^- e^- e^+ \bar{\nu}_\mu$ X
(1800) Errede 94 et,mass,p

$\mu^+ e^- e^+ \nu_\mu$ X
(1800) Errede 94 et,mass,p

$\mu^- e^+ \bar{\nu}_\mu \nu_e$ X
(1800) Errede 94 et,mass,p

$\mu^+ e^- \nu_\mu \bar{\nu}_e$ X
(1800) Errede 94 et,mass,p

$\mu^- \mu^+$ (jets) jet X
(1800) Abe 96S cor,cs,p,pt

$\bar{p}\,p$

$\mu^- \mu^+$ 2jet X
(1800) Abe 98Q et,mass,p,pt
Abachi 96R ang,cs,p,pt
Chiarelli 96 cor,et,p,pt
Abachi 95G et,mass,pt
Abachi 95M ang,et,mass,p,pt
Abe 95 et,mass,pt
Abe 95B et,mass,p,pt
Abe 95L et,mass,p,pt
Fuess 95 mass,p,pt
Harris 95 mass,p,pt
Park 95 col,et,mass
Abe 94T cor,et,mass,p,pt
Frisch 94 et,p
Garbincius 94 cor,et,p,pt
Geer 94 cs,et,p,pt
Hagopian 94 et,mass,pt
Nodulman 94 et,p
Norman 94 et,p,pt
Park 94B mass,p,pt
Shochet 94 et,mass,pt

$2\mu^-$ hadron (hadrons) X
(1800) Ragan 95 et,p

$\mu^- \mu^+$ hadron (hadrons) X
(1800) Abachi 95C ang,col,et,p,pt
Abachi 95I et,mass,p,pt
Abachi 95U ang,col,et,p,pt
Abachi 95ZE col,et,et,mass,p
Fuess 95 col,et,mass,p,pt
Peryshkin 95 et,mass,pt
Ragan 95 et,p
Geer 94 et,mass,p

$2\mu^+$ hadron (hadrons) X
(1800) Ragan 95 et,p

$\mu^- \mu^+ e^- \bar{\nu}_e$ X
(1800) Errede 94 et,mass,p

$\mu^- \mu^+ e^+ \nu_e$ X
(1800) Errede 94 et,mass,p

$\mu^- \mu^+ e^- e^+$ X
(1800) Errede 94 et,mass,p

$2\mu^- \mu^+ \bar{\nu}_\mu$ X
(1800) Errede 94 et,mass,p

$\mu^- \mu^+ \nu_\mu \bar{\nu}_\mu$ X
(1800) Errede 94 et,mass,p

$\mu^- 2\mu^+ \nu_\mu$ X
(1800) Errede 94 et,mass,p

$2\mu^- 2\mu^+$ X
(1800) Errede 94 et,mass,p

τ^- (jets) 2jet X
(1800) Abe 97K cs

τ^+ (jets) 2jet X
(1800) Abe 97K cs

$\tau^- e^+$ 2jet X
(1800) Leone 94 et,mass,pt

$\tau^+ e^-$ 2jet X
(1800) Leone 94 et,mass,pt

$\tau^- \mu^+$ 2jet X
(1800) Leone 94 et,mass,pt

$\tau^+ \mu^-$ 2jet X
(1800) Leone 94 et,mass,pt

$\tau^- \tau^+$ 2jet X
(1800) Abe 96ZD ang,cs,et,p,pt

$K^\pm \pi^\pm \mu^- \mu^+$ X
(1800) Cdfcollabora 94E mass

$\bar{p}\,p$

$K^+ \pi^- \mu^- \mu^+$ X
(1800) Abe 95E mass,p,pt
Byrum 94 mass,pt
Cdfcollabora 94B ang,mass
Karen 94 ang,mass
Mueller 94 mass,pt

$K^- \pi^+ \mu^- \mu^+$ X
(1800) Abe 95E mass,p,pt
Byrum 94 mass,pt
Cdfcollabora 94B ang,mass
Karen 94 ang,mass

$K_S \pi^+ \mu^- \mu^+$ X
(1800) Mueller 94 mass,pt

$K^+ 2\pi^- e^+$ X
(1800) Lewis 94B mass,pt

$K^- 2\pi^+ e^-$ X
(1800) Lewis 94B mass,pt

$K^\pm 2\pi^\pm \mu^\pm$ X
(1800) Shochet 94 mass

$K^+ 2\pi^- \mu^+$ X
(1800) Lewis 94B mass,pt

$K^- 2\pi^+ \mu^-$ X
(1800) Lewis 94B mass,pt

$K^+ K^- \mu^- \mu^+$ X
(1800) Abe 95P mass,p

$K^+ K^- \pi^+ e^-$ X
(1800) Abe 94ZH mass,pt
Lewis 94B mass,pt

$K^+ K^- \pi^- e^+$ X
(1800) Abe 94ZH mass,pt
Lewis 94B mass,pt

$K^+ K^- \pi^+ \mu^-$ X
(1800) Abe 94ZH mass,pt
Lewis 94B mass,pt

$K^+ K^- \pi^- \mu^+$ X
(1800) Abe 94ZH mass,pt
Lewis 94B mass,pt

(jets) 3jet X
(540) Jakobs 94 ang,et,mass,p
(630) Jakobs 94 ang,et,mass,p
(1800) Abbott 98Q cs,et,p
Abe 97I ang,cor,cs,et,p
Gallas 96B cs,et,p
Abachi 95F et,p
Abachi 95L et,p
Eno 95 et,p

(hadrons) 3jet X
(1800) Cullenvidal 96 cor,et,p

neutral 3jet X
(1800) Hoftun 95 et
Claes 94 et

invisible 3jet X
(1800) Abachi 96P col,et,p,pt

4jet X
(1800) Abe 96I ang,cor,et,mass,p
Asakawa 96 angp,et,mass,p
Yu 96C const,cor,et,p
Abachi 95W col,et,p
Abachi 95ZK ang,angp,cs,mass,p
Abe 95D angp,et,mass,p,pt
Geer 95B et,mass,p
Geer 94 angp,mass
Yu 94 ang,et,mass

hadron (hadrons) 2jet X
(1800) Astur 95 cor,et,p
Fahley 94 et,mult,p
Plunkett 94 cor,et,p

$\overline{p}\,p$

γ 3jet X
(1800) Abe 97P ang,angp,cor,cs
Abe 97S ang,cor,cs,et,pt
Buckleygeer 94 et,mass

2γ 2jet X
(1800) Abachi 96Q cs,et,p,pt
Greenlee 96 cs,et,p,pt
Abachi 95T cor,et,mass,p,pt
Abe 95ZH et,p,pt

2γ hadron (hadrons) X
(1800) Abe 98R cs,et,mass,p
Abe 95ZH col,et,p,pt

DD < W^+ X > (charged$^+$s) (charged$^-$s) X
(1800) Abe 97C cor,cs,p

DD < W^- X > (charged$^+$s) (charged$^-$s) X
(1800) Abe 97C cor,cs,p

W^+ (jets) 2jet X
(1800) Abe 97Z ang,cs,et,mass,p
Goshaw 96 cs,p
Phillips 96 et,mass,p
Grassmann 95 angp,et,p
Yu 95B et,mass,mult,p
Abe 94Z angp,et,p

W^- (jets) 2jet X
(1800) Abe 97Z ang,cs,et,mass,p
Goshaw 96 cs,p
Phillips 96 et,mass,p
Grassmann 95 angp,et,p
Yu 95B et,mass,mult,p
Abe 94Z angp,et,p

W^+ 3jet X
(1800) Kim 95B cor,cs,et,p
Abachi 94B cs,et
Graf 94 cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

W^- 3jet X
(1800) Kim 95B cor,cs,et,p
Abachi 94B cs,et
Graf 94 cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

W^- W^+ 2jet X
(1800) Kim 95B cs,et,p

Z^0 (jets) 2jet X
(1800) Abe 96F ang,angp,cor,cs,et
Dittmann 96 mass
Goshaw 96 cs,p
Phillips 96 et,mass,p
Hauger 94B col,mass

2neutralino 2jet X
(1800) Abachi 95ZP ang,cor,et,p

π^0 3jet X
(1800) Abe 97S ang,cor,cs,et,pt

$2\pi^0$ γ neutral (neutrals)
0. Amsler 94G angp,mass,p

K^+ $2\pi^-$ γ X
(1800) Kuhlmann 94B ang,mass,p

K^- $2\pi^+$ γ X
(1800) Kuhlmann 94B ang,mass,p

$\overline{p}\,p$

K^+ π^+ $2\pi^-$ X
0. Bertin 96 mass
Temnikov 96 mass
Bertin 95 mass

K^- $2\pi^+$ π^- X
0. Bertin 96 mass
Temnikov 96 mass
Bertin 95 mass

DD < 3jet X > p + DD < 3jet X > $\overline{p}$
(1800) Abe 97I ang,cor,cs,et,p

e^- (jets) 3jet X
(1800) Abachi 97B cor,et,mass,p,pt
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Binkley 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt
Chiarelli 96 cor,et,p,pt
Cobalgrassma 96 cor,et,p
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96 cor,et,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Beretvas 95 ang,col,et,p,pt
Grassmann 95 et,mass,p
Greenlee 95 cor,et,p,pt
Hoftun 95 ang,col,et,p,pt
Incandela 95 cor,et,mass,p,pt
Incandela 95B cor,et,p,pt
Klima 95 cor,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Thompson 95 cor,et,p,pt
Abe 94Z et,mass,p
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt
Watts 94 cs,et,pt
Williams 94 et,mass,p

e^+ (jets) 3jet X
(1800) Abachi 97B cor,et,mass,p,pt
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt

$\overline{p}\,p$

e^+ (jets) 3jet X
Barnett 96 cor,et,mass,p,pt
Binkley 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt
Chiarelli 96 cor,et,p,pt
Cobalgrassma 96 cor,et,p
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96 cor,et,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Beretvas 95 ang,col,et,p,pt
Grassmann 95 et,mass,p
Greenlee 95 cor,et,p,pt
Hoftun 95 ang,col,et,p,pt
Incandela 95 cor,et,mass,p,pt
Incandela 95B cor,et,p,pt
Klima 95 cor,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Thompson 95 cor,et,p,pt
Abe 94Z et,mass,p
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt
Watts 94 cs,et,pt
Williams 94 et,mass,p

e^- 4jet X
(1800) Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs
Leone 94 et,mass,pt

e^+ 4jet X
(1800) Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs
Leone 94 et,mass,pt

e^- hadron (hadrons) 2jet X
(1800) Abachi 96D col,et,p,pt
Fuess 94B cs,et,mass,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\bar{p}\,p$

e^+ hadron (hadrons) 2jet X
(1800) Abachi 96D col,et,p,pt
Fuess 94B cs,et,mass,pt

$e^-\,e^+$ (jets) 2jet X
(1800) Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Butler 96 cor,et,mass,p
Castro 96 cor,et,mass,p,pt
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p
Incandela 95 cor,et,mass,p,pt
Menzione 95 cor,et,mass,p
Roser 95 cor,et,p,pt
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,p,pt
Benlloch 94 col,et,p,pt
Grannis 94 cor,et,pt
Hauger 94B et,mass
Jensen 94 col,et,p,pt
Lidemarteau 94 cor,et,mass,pt

$e^-\,e^+$ invisible 2jet X
(1800) Abachi 96O col,et,p,pt

$e^-\,\bar{\nu}_e$ 3jet X
(1800) Shochet 94 et,mass,pt

$e^+\,\nu_e$ 3jet X
(1800) Shochet 94 et,mass,pt

$e^-\,e^+\,\gamma$ hadron (hadrons) X
(1800) Abe 94P col,et,mass

$e^-\,e^+\,2\gamma$ invisible X
(1800) Toback 96 et

$2e^-\,e^+$ hadron (hadrons) X
(1800) Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

$e^-\,2e^+$ hadron (hadrons) X
(1800) Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

μ^- (jets) 3jet X
(1800) Abachi 97B cor,et,mass,p,pt
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt

$\bar{p}\,p$

μ^- (jets) 3jet X
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Binkley 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt
Chiarelli 96 cor,et,p,pt
Cobalgrassma 96 cor,et,p
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96 cor,et,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Beretvas 95 ang,col,et,p,pt
Grassmann 95 et,mass,p
Greenlee 95 cor,et,p,pt
Hoftun 95 ang,col,et,p,pt
Incandela 95 cor,et,mass,p,pt
Incandela 95B cor,et,p,pt
Klima 95 cor,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Thompson 95 cor,et,p,pt
Abe 94Z et,mass,p
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt
Watts 94 cs,et,pt
Williams 94 et,mass,p

μ^+ (jets) 3jet X
(1800) Abachi 97B cor,et,mass,p,pt
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Binkley 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt
Chiarelli 96 cor,et,p,pt
Cobalgrassma 96 cor,et,p
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96 cor,et,p,pt

$\bar{p}\,p$

μ^+ (jets) 3jet X
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Beretvas 95 ang,col,et,p,pt
Grassmann 95 et,mass,p
Greenlee 95 cor,et,p,pt
Hoftun 95 ang,col,et,p,pt
Incandela 95 cor,et,mass,p,pt
Incandela 95B cor,et,p,pt
Klima 95 cor,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Thompson 95 cor,et,p,pt
Abe 94Z et,mass,p
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt
Watts 94 cs,et,pt
Williams 94 et,mass,p

μ^- 4jet X
(1800) Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs
Leone 94 et,mass,pt

μ^+ 4jet X
(1800) Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Antos 94 cs
Chakraborty 94 cs,et,p,pt
Jensen 94 cs
Leone 94 et,mass,pt

μ^- hadron (hadrons) 2jet X
(1800) Fuess 94B cs,et,mass,pt

μ^+ hadron (hadrons) 2jet X
(1800) Fuess 94B cs,et,mass,pt

$\mu^-\,e^+$ (jets) 2jet X
(1800) Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Butler 96 cor,et,mass,p
Castro 96 cor,et,mass,p,pt
Conway 96 cor,et,mass,p,pt

$\bar{p}\,p$

$\mu^- e^+$ (jets) 2jet X

Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Bantly 95 cor,et,mass,p
Greenlee 95 cor,et,p,pt
Hadley 95 cor,et,mass,p
Incandela 95 cor,et,mass,p,pt
Klima 95 cor,et,p,pt
Menzione 95 cor,et,mass,p
Roser 95 cor,et,p,pt
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Thompson 95 cor,et,p,pt
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,p,pt
Benlloch 94 col,et,p,pt
Grannis 94 cor,et,pt
Jensen 94 col,et,p,pt
Lidemarteau 94 cor,et,pt

$\mu^+ e^-$ (jets) 2jet X

(1800)
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Butler 96 cor,et,mass,p
Castro 96 cor,et,mass,p,pt
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Abachi 95V cor,et,p,pt
Bantly 95 cor,et,mass,p
Greenlee 95 cor,et,p,pt
Hadley 95 cor,et,mass,p
Incandela 95 cor,et,mass,p,pt
Klima 95 cor,et,p,pt
Menzione 95 cor,et,mass,p

$\bar{p}\,p$

$\mu^+ e^-$ (jets) 2jet X

Roser 95 cor,et,p,pt
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Thompson 95 cor,et,p,pt
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,p,pt
Benlloch 94 col,et,p,pt
Grannis 94 cor,et,pt
Jensen 94 col,et,p,pt
Lidemarteau 94 cor,et,pt

$\mu^- e^-$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Leone 94 et,mass,pt

$\mu^- e^+$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Leone 94 et,mass,pt

$\mu^+ e^-$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Unal 95 et,mass,pt
Abe 94B et,mass,pt
Abe 94ZE et,mass,pt
Leone 94 et,mass,pt

$\mu^+ e^+$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt
Leone 94 et,mass,pt

$\mu^- e^- e^+$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

$\mu^+ e^- e^+$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

$\mu^- \mu^+$ (jets) 2jet X

(1800)
Azzi 96 cor,et,mass,p,pt
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Barnett 96 cor,et,mass,p,pt
Butler 96 cor,et,mass,p
Castro 96 cor,et,mass,p,pt
Conway 96 cor,et,mass,p,pt
Gerdes 96 cor,et,mass,p,pt
Heinson 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Leone 96C cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Strovink 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p
Incandela 95 cor,et,mass,p,pt

$\bar{p}\,p$

$\mu^- \mu^+$ (jets) 2jet X

Menzione 95 cor,et,mass,p
Roser 95 cor,et,p,pt
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,p,pt
Benlloch 94 col,et,p,pt
Grannis 94 cor,et,pt
Hauger 94B et,mass
Jensen 94 col,et,p,pt
Lidemarteau 94 cor,et,pt

$\mu^- \bar{\nu}_\mu$ 3jet X

(1800) Shochet 94 et,mass,pt

$\mu^+ \nu_\mu$ 3jet X

(1800) Shochet 94 et,mass,pt

$\mu^- \mu^+$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt

$2\mu^+$ 3jet X

(1800)
Abachi 95G et,mass,pt
Abe 95 et,mass,pt

$\mu^- \mu^+ \gamma$ hadron (hadrons) X

(1800) Abe 94P col,et,mass

$\mu^- \mu^+ e^-$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

$\mu^- \mu^+ e^+$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95X cs,et,p,pt
Abachi 95ZO col,et,p,pt

$2\mu^- \mu^+$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95ZO col,et,p,pt

$\mu^- 2\mu^+$ hadron (hadrons) X

(1800)
Abachi 96N col,et,p,pt
Abachi 95ZO col,et,p,pt

τ^- invisible 3jet X

(1800) Loomis 96B cor,et,mass,p,pt

τ^+ invisible 3jet X

(1800) Loomis 96B cor,et,mass,p,pt

$\tau^- e^+$ (jets) 2jet X

(1800)
Azzi 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt

$\tau^+ e^-$ (jets) 2jet X

(1800)
Azzi 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt

$\tau^- e^\pm$ invisible 2jet X

(1800) Loomis 96B cor,et,mass,p,pt

$\tau^+ e^\pm$ invisible 2jet X

(1800) Loomis 96B cor,et,mass,p,pt

$\tau^- \mu^+$ (jets) 2jet X

(1800)
Azzi 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt

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$\bar{p}\,p$

$\tau^-\,\mu^+$ (jets) 2jet X
Leone 96B cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt

$\tau^+\,\mu^-$ (jets) 2jet X
(1800) Azzi 96 cor,et,mass,p,pt
Castro 96 cor,et,mass,p,pt
Leone 96B cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt
Tartarelli 96 cor,et,mass,p,pt

$\tau^-\,\mu^\pm$ invisible 2jet X
(1800) Loomis 96B cor,et,mass,p,pt

$\tau^+\,\mu^\pm$ invisible 2jet X
(1800) Loomis 96B cor,et,mass,p,pt

$e^-\,b$ 3jet X
(1800) Williams 94 et,mass,p

$e^+\,b$ 3jet X
(1800) Williams 94 et,mass,p

$e^-\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$e^+\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$\mu^-\,b$ 3jet X
(1800) Williams 94 et,mass,p

$\mu^+\,b$ 3jet X
(1800) Williams 94 et,mass,p

$\mu^-\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$\mu^+\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$e^-\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

$e^+\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

$\mu^-\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

$\mu^+\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

K (π's) $\mu^-\,\mu^+\,e^-$ X
(1800) Skarha 94 mass

K (π's) $\mu^-\,\mu^+\,e^+$ X
(1800) Skarha 94 mass

$K^+\,\pi^+\,\pi^-\,\mu^-\,\mu^+$ X
(1800) Mueller 94 mass,pt

$K^+\,2\pi^-\,\mu^-\,\mu^+$ X
(1800) Byrum 94 mass,pt

$K^-\,2\pi^+\,\mu^-\,\mu^+$ X
(1800) Byrum 94 mass,pt

$K_S\,\pi^+\,\pi^-\,\mu^-\,\mu^+$ X
(1800) Mueller 94 mass,pt

$K^+\,K^-\,\pi^-\,\mu^-\,\mu^+$ X
(1800) Abe 94ZH mass,pt

e^- bottom 3jet X
(1800) Antos 94 col,et,mass,p,pt

$\bar{p}\,p$

e^- bottom 3jet X
Frisch 94 et,mass,p
Jensen 94 col,et,mass,p,pt

e^+ bottom 3jet X
(1800) Antos 94 col,et,mass,p,pt
Jensen 94 col,et,mass,p,pt

e^- $\overline{\text{bottom}}$ 3jet X
(1800) Antos 94 col,et,mass,p,pt
Jensen 94 col,et,mass,p,pt

e^+ $\overline{\text{bottom}}$ 3jet X
(1800) Antos 94 col,et,mass,p,pt
Frisch 94 et,mass,p
Jensen 94 col,et,mass,p,pt

μ^- bottom 3jet X
(1800) Antos 94 col,et,mass,p,pt
Frisch 94 et,mass,p
Jensen 94 col,et,mass,p,pt

μ^+ bottom 3jet X
(1800) Antos 94 col,et,mass,p,pt
Jensen 94 col,et,mass,p,pt

μ^- $\overline{\text{bottom}}$ 3jet X
(1800) Antos 94 col,et,mass,p,pt
Jensen 94 col,et,mass,p,pt

μ^+ $\overline{\text{bottom}}$ 3jet X
(1800) Antos 94 col,et,mass,p,pt
Frisch 94 et,mass,p
Jensen 94 col,et,mass,p,pt

invisible (jets) 3jet X
(1800) Abe 97V cs

invisible 4jet X
(1800) Abachi 96P col,et,p,pt

5jet X
(1800) Abe 96I ang,cor,et,mass,p
Asakawa 96 angp,et,mass,p
Abe 95D angp,et,mass,p,pt
Geer 95B ang,et,mass,p
Geer 94 angp,mass
Yu 94 ang,et,mass

γ (jets) 3jet X
(1800) Abachi 96F cs,et,p

γ 4jet X
(1800) Buckleygeer 94 et,mass

($e^\pm$'s) ($\mu^\pm$'s) 2γ (γ's) (jets)
(1800) Abe 98 cs,et,p

2γ (jets) 2jet X
(1800) Abachi 96F cs,et,p

W^+ (jets) 3jet X
(1800) Abe 97Z ang,cs,et,mass,p
Giokaris 96 cor,et,mass,p
Goshaw 96 cs,p
Beretvas 95B et,mass,p,pt
Beretvas 95D cor,et,mass,p

$\bar{p}\,p$

W^+ (jets) 3jet X
Binkley 95 cor,et,mass,p
Grassmann 95 angp,et,p
Grassmann 95B et,p
Peryshkin 95 et,p
Abe 94Z angp,et,p

W^- (jets) 3jet X
(1800) Abe 97Z ang,cs,et,mass,p
Giokaris 96 cor,et,mass,p
Goshaw 96 cs,p
Beretvas 95B et,mass,p,pt
Beretvas 95D cor,et,mass,p
Binkley 95 cor,et,mass,p
Grassmann 95 angp,et,p
Grassmann 95B et,p
Peryshkin 95 et,p
Abe 94Z angp,et,p

W^+ 4jet X
(1800) Binkley 96 et,mass,p,pt
Kim 95B cor,cs,et,mass,p
Abachi 94B cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

W^- 4jet X
(1800) Binkley 96 et,mass,p,pt
Beretvas 95D cor,et,mass,p
Kim 95B cor,cs,et,mass,p
Abachi 94B cs,et
Grannis 94 cs,et
Lidemarteau 94 cs,et

Z^0 (jets) 3jet X
(1800) Abe 96F ang,angp,cor,cs,et
Dittmann 96 et,p
Goshaw 96 cs,p

$W^+\,b$ 3jet X
(1800) Williams 94 et,mass,p

$W^-\,b$ 3jet X
(1800) Williams 94 et,mass,p

$W^+\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$W^-\,\bar{b}$ 3jet X
(1800) Williams 94 et,mass,p

$W^+\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

$W^-\,\bar{b}\,b$ 2jet X
(1800) Williams 94 et,mass,p

Z^0 bottom (jets) 2jet X
(1800) Cdfcollabora 94D cs,et

Z^0 $\overline{\text{bottom}}$ (jets) 2jet X
(1800) Cdfcollabora 94D cs,et

e^- (jets) 4jet X
(1800) Butler 96 cor,et,mass,p
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p
Menzione 95 cor,et,mass,p
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,mass,p,pt
Geer 94 cs,et,p,pt

$\overline{p}\,p$

e^- (jets) 4jet X
Grannis 94 cor,et,pt
Jensen 94 col,et,mass,p,pt
Lidemarteau 94 cor,et,pt
Nodulman 94 et,mass,p

e^+ (jets) 4jet X
(1800) Butler 96 cor,et,mass,p
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p
Menzione 95 cor,et,mass,p
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,mass,p,pt
Geer 94 cs,et,p,pt
Grannis 94 cor,et,pt
Jensen 94 col,et,mass,p,pt
Lidemarteau 94 cor,et,pt
Nodulman 94 et,mass,p

$e^\pm\ \nu$ 4jet X
(1800) Abe 98ZE ang,col,et,mass,p,pt

$e^-\ \overline{\nu}_e$ 4jet X
(1800) Konigsberg 94 et,mass,pt
Shochet 94 et,mass,pt

$e^+\ \nu_e$ 4jet X
(1800) Konigsberg 94 et,mass,pt
Shochet 94 et,mass,pt

$e^-\ e^+$ hadron (hadrons) 2jet X
(1800) Beretvas 95 ang,col,et,p,pt
Hoftun 95 ang,col,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Wimpenny 95 ang,col,et,p,pt
Fuess 94B cs,et,mass,pt
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt

$e^-\ e^+\ \nu\ \overline{\nu}$ 2jet X
(1800) Abbott 98N ang,mass,p,pt

μ^- (jets) 4jet X
(1800) Butler 96 cor,et,mass,p
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p
Menzione 95 cor,et,mass,p
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,mass,p,pt
Geer 94 cs,et,p,pt
Grannis 94 cor,et,pt
Jensen 94 col,et,mass,p,pt
Lidemarteau 94 cor,et,pt
Nodulman 94 et,mass,p

μ^+ (jets) 4jet X
(1800) Butler 96 cor,et,mass,p
Bantly 95 cor,et,mass,p
Hadley 95 cor,et,mass,p

$\overline{p}\,p$

μ^+ (jets) 4jet X
Menzione 95 cor,et,mass,p
Sinervo 95 cor,et,mass,p
Synder 95 cor,et,mass,p
Abachi 94B cor,et,pt
Abachi 94D cor,et,p,pt
Antos 94 col,et,mass,p,pt
Geer 94 cs,et,p,pt
Grannis 94 cor,et,pt
Jensen 94 col,et,mass,p,pt
Lidemarteau 94 cor,et,pt
Nodulman 94 et,mass,p

γ 2jet jet $< \mu^\pm$ X $>$ X
(1800) Abachi 96Q cs,et,p,pt
Greenlee 96 cs,et,p,pt

$\mu^\pm\ \nu$ 4jet X
(1800) Abe 98ZE ang,col,et,mass,p,pt

$\mu^-\ e^-$ (jets) 3jet X
(1800) Abachi 94B cs,et,pt
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt
Raja 94 col,cs,et,pt

$\mu^-\ e^+$ (jets) 3jet X
(1800) Abachi 94B cs,et,pt
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt

$\mu^+\ e^-$ (jets) 3jet X
(1800) Abachi 94B cs,et,pt
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt

$\mu^+\ e^+$ (jets) 3jet X
(1800) Abachi 94B cs,et,pt
Grannis 94 cs,et,pt
Lidemarteau 94 cs,et,pt
Raja 94 col,cs,et,pt

$\mu^-\ e^+$ hadron (hadrons) 2jet X
(1800) Beretvas 95 ang,col,et,p,pt
Hoftun 95 ang,col,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Wimpenny 95 ang,col,et,p,pt
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt

$\mu^+\ e^-$ hadron (hadrons) 2jet X
(1800) Beretvas 95 ang,col,et,p,pt
Hoftun 95 ang,col,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Wimpenny 95 ang,col,et,p,pt
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt

$\mu^-\ e^+\ \nu\ \overline{\nu}$ 2jet X
(1800) Abbott 98N ang,mass,p,pt

$\mu^+\ e^-\ \nu\ \overline{\nu}$ 2jet X
(1800) Abbott 98N ang,mass,p,pt

$\mu^-\ \overline{\nu}_\mu$ 4jet X
(1800) Konigsberg 94 et,mass,pt

$\overline{p}\,p$

$\mu^-\ \overline{\nu}_\mu$ 4jet X
Shochet 94 et,mass,pt

$\mu^+\ \nu_\mu$ 4jet X
(1800) Konigsberg 94 et,mass,pt
Shochet 94 et,mass,pt

$\mu^-\ \mu^+$ hadron (hadrons) 2jet X
(1800) Beretvas 95 ang,col,et,p,pt
Hoftun 95 ang,col,et,p,pt
Kopp 95 ang,col,et,p,pt
Strovink 95 ang,col,et,p,pt
Wimpenny 95 ang,col,et,p,pt
Fuess 94B cs,et,mass,pt
Sphicas 94 ang,col,et,p,pt
Tollestrup 94 ang,col,et,p,pt

$\mu^-\ \mu^+\ \nu\ \overline{\nu}$ 2jet X
(1800) Abbott 98N ang,mass,p,pt

$K^+\ \pi^+\ 2\pi^-\ \mu^-\ \mu^+$ X
(1800) Mueller 94 mass,pt

$K_S\ 2\pi^+\ \pi^-\ \mu^-\ \mu^+$ X
(1800) Mueller 94 mass,pt

$e^-\ e^+$ bottom (jets) 2jet X
(1800) Cdfcollabora 94D et

$e^-\ e^+\ \overline{\text{bottom}}$ (jets) 2jet X
(1800) Cdfcollabora 94D et

$\mu^-\ \mu^+$ bottom (jets) 2jet X
(1800) Cdfcollabora 94D et

$\mu^-\ \mu^+\ \overline{\text{bottom}}$ (jets) 2jet X
(1800) Cdfcollabora 94D et

e^- 2jet jet $< B$ X $>$ X
(1800) Abe 95I cor,et,p,pt

e^+ 2jet jet $< B$ X $>$ X
(1800) Abe 95I cor,et,p,pt

e^- 2jet jet $< \overline{B}$ X $>$ X
(1800) Abe 95I cor,et,p,pt

e^+ 2jet jet $< \overline{B}$ X $>$ X
(1800) Abe 95I cor,et,p,pt

μ^- 2jet jet $< B$ X $>$ X
(1800) Abe 95I cor,et,p,pt

μ^+ 2jet jet $< B$ X $>$ X
(1800) Abe 95I cor,et,p,pt

μ^- 2jet jet $< \overline{B}$ X $>$ X
(1800) Abe 95I cor,et,p,pt

μ^+ 2jet jet $< \overline{B}$ X $>$ X
(1800) Abe 95I cor,et,p,pt

invisible (jets) 4jet X
(1800) Abe 97V cs

6jet X
(1800) Abe 97N ang,cor,et,mass,p
Bantly 96 cor,et,mass,p,pt
Barbarogalti 96 cor,et,mass,p,pt
Butler 96 cor,et,mass,p
Castro 96 cor,et,mass,p,pt
Lys 96 cor,et,mass,p,pt
Montgomery 96 cor,et,mass,p,pt
Rolli 96 cor,et,mass,p,pt
Sinervo 96 cor,et,mass,p,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are $p_{\rm lab}$ in GeV/c, or in parentheses $E_{\rm cm}$ in GeV.

$\bar{p}\,p$

6jet X
- Abe 95D angp,et,mass,p,pt
- Bantly 95 cor,et,mass,p
- Menzione 95 cor,et,mass,p
- Sinervo 95 cor,et,mass,p
- Cdfcollabora 94C et,mass,p
- Geer 94 angp,mass
- Yu 94 ang,et,mass

γ 5jet X
- (1800) Buckleygeer 94 et,mass

5γ neutral (neutrals)
- 0. Amsler 94G angp,mass,p
- Faessler 94 cs,mass

$W^\pm$ (jets) 4jet X
- (1800) Abe 95J cs,et,mass

W^+ (jets) 4jet X
- (1800) Abe 97Z ang,cs,et,mass,p
- Goshaw 96 cs,p

W^- (jets) 4jet X
- (1800) Abe 97Z ang,cs,et,mass,p
- Goshaw 96 cs,p

W^+ 5jet X
- (1800) Abachi 94B cs,et
- Grannis 94 cs,et
- Lidemarteau 94 cs,et

W^- 5jet X
- (1800) Abachi 94B cs,et
- Grannis 94 cs,et
- Lidemarteau 94 cs,et

Z^0 (jets) 4jet X
- (1800) Abe 96F ang,angp,cor,cs,et
- Goshaw 96 cs,p

2neutralino$_2$ $\tilde{\nu}\,\bar{\tilde{\nu}}\,\tilde{e}^-\,\tilde{e}^+$ X
- (1800) Abachi 96T cs

$2\pi^+\,2\pi^0\,2\pi^-$ (π^0's)
- 0. Adler 94 angp,cor

$e^\pm\,\nu$ (jets) 4jet X
- (1800) Abe 97ZJ et,mass,p

$\mu^\pm\,\nu$ (jets) 4jet X
- (1800) Abe 97ZJ et,mass,p

$\mu^-\,e^+\,\nu\,\bar{\nu}$ 3jet X
- (1800) Konigsberg 94 et,mass,pt

e^- bottom (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

e^+ bottom (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

e^- $\overline{\text{bottom}}$ (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

e^+ $\overline{\text{bottom}}$ (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

μ^- bottom (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

μ^+ bottom (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

μ^- $\overline{\text{bottom}}$ (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

μ^+ $\overline{\text{bottom}}$ (jets) 4jet X
- (1800) Geer 94 cs,et,p,pt

(jets) 6jet X
- (1800) Conway 96 cor,et,mass,p,pt

$\bar{p}\,p$

(jets) 6jet X
- Leone 96 cor,et,p,pt
- Leone 96B cor,et,mass,p,pt
- Tartarelli 96 cor,et,mass,p,pt

7jet X
- (1800) Cdfcollabora 94C et,mass,p

γ 6jet X
- (1800) Buckleygeer 94 et,mass

6γ neutral (neutrals)
- 0. Faessler 94 cs,mass

W^+ (jets) 5jet X
- (1800) Abe 97Z ang,cs,et,mass,p

W^- (jets) 5jet X
- (1800) Abe 97Z ang,cs,et,mass,p

$2\mu^+\,e^-\,\nu\,\bar{\nu}$ 3jet X
- (1800) Konigsberg 94 et,mass,pt

8jet X
- (1800) Cdfcollabora 94C et,mass,p

9jet X
- (1800) Cdfcollabora 94C et,mass,p

meson^0
- 0.8973 – 3.308 Hasan 94 –

$f_2(1565)$
- 0. Bertin 97B cs

$f_4(2050)$
- 0.8973 – 3.308 Hasan 94 –

$f_2(2150)$
- 0.6 – 1.9 Evangelista 97 cs

$f_J(2220)$
- 0.6 – 1.9 Evangelista 97 cs
- 1.35 – 1.55 Hasan 96B cs
- (2.22 – 2.25) Evangelista 98 cs

$\eta_c(1S)$
- (2.9 – 3.5) Cester 94 –
- (2.98) Gollwitzer 94 cs
- (2.988) Armstrong 95 cs
- (2.997) Pordes 96 –
- Menichetti 94 –

$J/\psi(1S)$
- (3.096) Pordes 96 –
- Menichetti 94 –
- (3.097) Gollwitzer 94 cs
- (3.1) Armstrong 96B –
- Cester 94 cs

$\chi_{c1}(1P)$
- (3.5 – 3.6) Cester 94 cs
- (3.51) Pordes 96 –
- Menichetti 94 –
- (3.511) Gollwitzer 94 cs

$h_c(1P)$
- (3.526) Pordes 96 –
- Garbincius 94 –
- Gollwitzer 94 cs
- Menichetti 94 –

$\chi_{c2}(1P)$
- (3.5 – 3.6) Cester 94 cs
- (3.555) Gollwitzer 94 cs
- (3.556) Pordes 96 –
- Menichetti 94 –
- Gollwitzer 94 cs

$\eta_c(2S)$
- (2.9 – 3.5) Cester 94 –
- (3.59) Gollwitzer 94 cs
- Armstrong 95 cs

$\psi(2S)$
- (3.67) Cester 94 cs

$\bar{p}\,p$

$\psi(2S)$
- (3.685 – 3.687) Armstrong 97C cs
- (3.686) Pordes 96 –
- Gollwitzer 94 cs
- Menichetti 94 –

χ_c(unspec)
- (3.5 – 3.55) Cester 94 cs
- (3.52 – 3.53) Cester 94 cs

$\overline{N}N$(1100 – 3600)
- 0.36 – 0.988 Kloet 96 –

$(\bar{p}p)_{\text{atom}}$
- 0. Bertin 96H –

$e^-\,e^+$
- 0.15 – 0.9 Meshcheryako 97 cs
- 0.3 – 0.9 Bardin 94 angp,cs
- (2.5 – 6.5) Cester 94 cs
- (2.9 – 4.62) Ambrogiani 99 cs
- (2.95 – 4) Cester 94 cs
- (3 – 3.6) Cester 94 cs
- (3.096) Pordes 96 cs,mass
- Menichetti 94 cs,mass
- (3.686) Pordes 96 cs,mass
- Menichetti 94 cs,mass

2jet
- (1800) Harris 95B mass
- Harris 94 angp

γ jet
- (1800) Harris 94 cs,pt

2γ
- 0. Amsler 94B cs
- Amsler 94J cs,p
- 3 – 7 Gollwitzer 94 cs
- (2.9 – 3.1) Pordes 96 angp,cs
- Menichetti 94 angp,cs
- (2.9 – 3.5) Cester 94 cs
- (2.91 – 3.1) Armstrong 95 angp,cs
- (2.911 – 3.686) Armstrong 97D angp,cs,mass,p
- (3.525 – 3.69) Armstrong 95 angp,cs
- (3.53 – 3.68) Pordes 96 angp,cs
- Menichetti 94 angp,cs

$W^\pm$ jet
- (1800) Abe 94G angp
- Harris 94 angp

$\pi^0\,\gamma$
- 0. Chiba 97B cs
- Amsler 94B cs
- Amsler 94J cs,p
- (2.911 – 3.686) Armstrong 97D angp,cs,mass,p

π^+ meson$^-$
- 1.94 Amsler 94E –

π^0 meson^0
- 0. Bertin 97B cs
- Abele 96C cs
- Spanier 96 cs
- Montanet 95 cs,mass,pwa
- Ableev 94 cs
- Amsler 94B –
- Amsler 94J –
- Brose 94 –
- Felix 94 cs
- Spanier 94 –
- Zenoni 94 –
- 0.1 – 0.29 Filippi 96 –
- 1.94 Amsler 94E –
- Ravndal 94 –
- (2.98) Ambrogiani 96 –
- Armstrong 94 –
- Hasan 96 –
- (3.526) Ambrogiani 96 –
- Armstrong 94 –

π^- meson$^+$
- 1.94 Amsler 94E –

$2\pi^0$
- 0. Chiba 97B cs
- Ableev 94B cs

$\bar{p}\,p$

$2\pi^0$

	Agnello 94	cs
	Piccinini 94	cs
0.36 – 1.99	Oakden 94	amp,angp,pwa
0.6	Amsler 96D	pwa
	Ravndal 94	amp,angp
0.8973 – 3.308	Hasan 94	angp,cs,pwa
1.125 – 1.99	Oakden 94	angp
1.2	Amsler 96D	pwa
	Ravndal 94	amp,angp
1.94	Amsler 96D	pwa
	Ravndal 94	amp,angp
(2.911 – 3.686)	Armstrong 97D	angp,cs,mass,p
(4.272)	Armstrong 97D	angp,cs,mass,p

$\pi^+\,\pi^-$

0.	Chiba 97B	cs
	Ableev 94B	cs
	Ableev 94C	ang,cs,p
	Ableev 94E	cs
0.3 – 0.9	Bardin 94	angp,cs
0.36 – 0.76	Oakden 94	angp,cs
0.36 – 0.988	Kloet 96	angp,pwa
0.36 – 1.55	Oakden 94	amp,angp,asym
0.36 – 1.99	Oakden 94	amp,angp,pwa
0.8973 – 3.308	Hasan 94	angp,cs,pwa
1.35 – 1.55	Hasan 96B	angp,cs,pwa
5.9	White 94B	angp

$\eta\,\gamma$

0.	Amsler 94B	cs
	Amsler 94J	cs,p

η meson^0

1.94	Amsler 94E	–
	Ravndal 94	–
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
	Hasan 96	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$\eta\,\pi^0$

0.	Chiba 97B	cs
	Piccinini 94	cs
0.6	Amsler 96D	pwa
1.2	Amsler 96D	pwa
1.94	Amsler 96D	pwa
(2.911 – 3.686)	Armstrong 97D	angp,cs,mass,p
(4.272)	Armstrong 97D	angp,cs,mass,p

2η

0.	Chiba 97B	cs
0.6	Amsler 96D	pwa
1.2	Amsler 96D	pwa
1.94	Amsler 96D	pwa
(2.911 – 3.686)	Armstrong 97D	angp,cs,mass,p
(4.272)	Armstrong 97D	angp,cs,mass,p

$\rho^+\,\pi^-$

0.	Chiba 97B	cs
	Ableev 94	cs

$\rho^0\,\pi^0$

0.	Bertin 97B	cs
	Chiba 97B	cs
	Adler 95F	cs
	Ableev 94	cs
0.1 – 0.29	Filippi 96	–

$\rho^-\,\pi^+$

0.	Chiba 97B	cs
	Ableev 94	cs

$\omega\,\gamma$

0.	Amsler 94B	cs
	Amsler 94J	cs,p

$\omega\,\pi^0$

0.	Abele 97E	–
	Chiba 97B	cs

$\bar{p}\,p$

$\omega\,\pi^0$

< 0.2	Sapozhnikov 95	cs
0.6	Amsler 96D	pwa
1.2	Amsler 96D	pwa
1.94	Amsler 96D	pwa

$\omega\,\eta$

0.	Abele 97E	–
	Chiba 97B	cs
0.6	Amsler 96D	pwa
1.2	Amsler 96D	pwa
1.94	Amsler 96D	pwa

$\omega\,\rho^0$

0.	Adler 95F	cs
< 0.2	Sapozhnikov 95	cs

$\eta'\,\gamma$

0.	Amsler 94B	cs
	Amsler 94J	cs,p

$\eta'\,\pi^0$

0.	Chiba 97B	cs

$\eta'\,\eta$

0.	Chiba 97B	cs

$\eta'\,\omega$

0.	Abele 97B	–

$f_0(980)\,\pi^0$

0.	Bertin 97B	cs
	Spanier 96	cs
	Amsler 95	cs
	Amsler 94J	–
1.94	Ravndal 94	–
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$f_0(980)\,\eta$

0.	Spanier 94	–

$a_0(980)^+\,\pi^-$

0.	Abele 98C	amp,cs
	Bertin 98B	cs

$a_0(980)^0\,\pi^0$

0.	Abele 96C	cs
	Spanier 96	cs
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Amsler 94H	cs
	Amsler 94J	–
	Spanier 94	–
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–

$a_0(980)^-\,\pi^+$

0.	Abele 98C	amp,cs
	Bertin 98B	cs

$a_0(980)^0\,\eta$

0.	Abele 96C	cs
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–
	Amsler 94E	–
	Ravndal 94	–
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$a_0(980)^0\,\omega$

0.	Amsler 94B	cs
	Amsler 94F	cs

$b_1(1235)^0\,\pi^0$

0.	Amsler 94B	cs
	Amsler 94J	–

$b_1(1235)^0\,\eta$

0.	Amsler 94B	cs
	Amsler 94F	cs

$b_1(1235)^0\,\omega$

1.94	Degener 96	–
	Amsler 94E	–

$\bar{p}\,p$

$f_0(1240)\,\pi^0$

(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$f_2(1270)\,\pi^0$

0.	Alberico 98B	amp,cs
	Bertin 97B	cs
	Abele 96B	cs
	Abele 96C	cs
	Adler 95F	cs
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Ableev 94	cs
	Amsler 94	cs
	Amsler 94J	–
	Anisovich 94	cs
0.1 – 0.29	Filippi 96	–
1.94	Ravndal 94	–
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$f_2(1270)\,\eta$

0.	Abele 96C	cs
	Adler 95F	cs
1.94	Amsler 94E	–

$f_2(1270)\,\omega$

0.	Amsler 94B	cs
	Amsler 94J	–

$f_2(1270)\,a_0(980)^0$

1.2	Pinder 96	–
1.94	Pinder 96	–

$f_1(1285)\,\pi^0$

0.	Abele 98D	cs,dme
	Pinder 96	–
1.2	Pinder 96	–
1.94	Pinder 96	–

$a_0(1320)^0\,\pi^0$

0.	Spanier 96	cs
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Amsler 94H	cs

$a_2(1320)^+\,\pi^-$

0.	Bertin 98B	cs

$a_2(1320)^0\,\pi^0$

0.	Abele 96C	cs
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–
	Amsler 94E	–
	Ravndal 94	–

$a_2(1320)^-\,\pi^+$

0.	Bertin 98B	cs

$a_2(1320)^0\,\eta$

0.	Abele 96C	cs
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–
	Amsler 94E	–
	Ravndal 94	–
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–

$a_2(1320)^0\,\omega$

0.	Amsler 94B	cs
	Amsler 94F	cs
1.94	Amsler 94E	mass
	Ravndal 94	–

$f_0(1370)\,\pi^0$

0.	Bertin 97B	cs
	Abele 96C	cs
	Spanier 96	cs
	Amsler 95	cs
	Amsler 95E	cs

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$\bar{p}\,p$

$f_0(1370)\,\pi^0$		
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Amsler 94	–
	Amsler 94B	–
	Anisovich 94	cs
$f_0(1370)\,\eta$		
0.	Abele 96C	cs
$h_1(1380)\,\pi^0$		
0.	Abele 97G	amp,cs
	Amsler 94F	cs
$\hat{\rho}(1405)^0\,\pi^0$		
0.	Abele 99	–
$\omega(1420)\,\pi^0$		
0.	Amsler 94B	cs
	Amsler 94F	cs
$\eta(1440)\,\pi^0$		
0.	Abele 98D	cs,dme
	Pinder 96	–
$a_0(1450)^+\,\pi^-$		
0.	Abele 98C	amp,cs
$a_0(1450)^0\,\pi^0$		
0.	Abele 97C	cs
	Abele 96C	cs
	Amsler 95E	cs
	Anisovich 95	cs
	Amsler 94H	cs
$a_0(1450)^-\,\pi^+$		
0.	Abele 98C	amp,cs
$\rho(1450)^0\,\pi^0$		
0.	Bertin 97B	cs
	Amsler 94B	cs
$\rho(1450)^0\,\rho^0$		
0.05	Bertin 97E	amp
$f_0(1500)\,\pi^0$		
0.	Abele 98C	amp,cs
	Bertin 97B	cs
	Abele 96	cs
	Abele 96B	cs
	Abele 96C	cs
	Resag 96	cs
	Spanier 96	cs
	Amsler 95	cs
	Amsler 95E	cs
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Amsler 94I	cs
	Anisovich 94	cs
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–
$f_0(1500)\,\eta$		
0.6	Degener 96	–
1.2	Degener 96	–
1.94	Degener 96	–
$f_1(1510)^0\,\pi^0$		
0.	Pinder 96	–
$f_2'(1525)\,\pi^0$		
0.	Abele 96B	cs
	Anisovich 95	cs
	Montanet 95	cs,mass,pwa
	Anisovich 94	cs
$f_2(1565)\,\pi^0$		
0.	Abele 98D	cs,dme
	Alberico 98B	amp,cs
	Abele 96C	cs
	Amsler 95	cs
	Amsler 95E	cs
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–
$f_2(1565)\,\eta$		
(2.98)	Ambrogiani 96	–

$\bar{p}\,p$

$f_2(1565)\,\eta$		
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–
$\omega(1600)\,\pi^0$		
0.	Amsler 94B	cs
	Amsler 94F	cs
$f_2(1640)\,\pi^0$		
1.94	Amsler 94E	–
$\pi_2(1670)^0\,\eta$		
1.2	Pinder 96	–
1.94	Pinder 96	–
$\rho(1700)^+\,\pi^-$		
0.	Bertin 98B	cs
$\rho(1700)^0\,\pi^0$		
0.	Bertin 97B	cs
$\rho(1700)^-\,\pi^+$		
0.	Bertin 98B	cs
$f_J(1710)\,\pi^0$		
0.	Abele 98D	cs,dme
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–
$\eta(1760)\,\pi^0$		
0.	Abele 98D	cs,dme
$\eta_2(1870)\,\pi^0$		
1.2	Pinder 96	–
1.94	Pinder 96	–
$X(1910)\,\pi^0$		
1.94	Amsler 94E	–
$a_4(2040)^0\,\eta$		
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–
$f_4(2050)\,\pi^0$		
(2.98)	Ambrogiani 96	–
	Armstrong 94	–
(3.526)	Ambrogiani 96	–
	Armstrong 94	–
$f_2(2150)\,\pi^0$		
1.2	Pinder 96	–
1.94	Pinder 96	–
$K^0\,\overline{K}^0$		
0.	Apostolakis 97	amp
$K^+\,K^-$		
0.	Ableev 94B	cs
	Ableev 94C	ang,cs,p
0.3 – 0.9	Bardin 94	angp,cs
5.9	White 94B	angp
$2K_S$		
0.	Adler 97D	cs
0.6 – 1.9	Evangelista 97	cs
$K_S\,K_L$		
0.	Adler 97D	cs
	Bertin 96F	cs
	Villa 96	cs
	Amsler 95C	cs
	Ableev 94B	cs
0.05	Bertin 96B	cs
$K^*(892)^+\,K^-$		
0.	Bertin 98B	cs
$K^*(892)^0\,\overline{K}^0$		
0.	Amsler 94J	cs
	Faessler 94	cs
$K^*(892)^0\,K_S$		
0.	Bertin 98B	cs
$\overline{K}^*(892)^0\,K^0$		
0.	Amsler 94J	cs
	Faessler 94	cs
$K^*(892)^-\,K^+$		
0.	Bertin 98B	cs

$\bar{p}\,p$

$K^*(892)^0\,\overline{K}^*(892)^0$		
0.	Abele 97F	amp,cs
	Abele 97G	amp,cs
	Felix 94	cs
$K^*(892)^+\,K^*(892)^-$		
0.	Abele 97F	amp,cs
$K_1(1270)^+\,K^-$		
0.	Abele 97F	amp,cs
$K_1(1270)^0\,K_L$		
0.	Abele 97F	amp,cs
	Abele 97G	amp,cs
$K_1(1270)^-\,K^+$		
0.	Abele 97F	amp,cs
$\overline{K}_1(1270)^0\,K_L$		
0.	Abele 97F	amp,cs
	Abele 97G	amp,cs
$K_1(1400)^+\,K^-$		
0.	Abele 97F	amp,cs
$K_1(1400)^0\,K_L$		
0.	Abele 97F	amp,cs
	Abele 97G	amp,cs
$K_1(1400)^-\,K^+$		
0.	Abele 97F	amp,cs
$\overline{K}_1(1400)^0\,K_L$		
0.	Abele 97F	amp,cs
	Abele 97G	amp,cs
$\phi(1020)\,\gamma$		
0.	Amsler 95C	cs
	Faessler 94	cs
	Sapozhnikov 94B	cs
< 0.2	Sapozhnikov 95	cs
$\phi(1020)\,\pi^0$		
0.	Alberico 98B	amp,cs
	Chiba 97B	cs
	Ableev 95C	cs,p
	Amsler 95C	cs
	Amsler 94B	cs
	Amsler 94J	cs
	Faessler 94	cs
	Sapozhnikov 94B	cs
< 0.2	Sapozhnikov 95	cs
$\phi(1020)\,\eta$		
0.	Alberico 98	cs
	Chiba 97B	cs
	Ableev 95C	cs,p
	Amsler 94B	cs
	Amsler 94J	cs
	Faessler 94	cs
$\phi(1020)\,\rho^0$		
< 0.2	Sapozhnikov 95	cs
$\phi(1020)\,\omega$		
< 0.2	Sapozhnikov 95	cs
$2\phi(1020)$		
(2.1 – 2.43)	Palano 96	amp,angp,cs
1.1 – 2	Evangelista 98	cs,mass
(2.15 – 2.43)	Bertolotto 96	cs
	Steinkamp 94	angp,cs
1.4	Bertolotto 95	angp,cs
1.6 – 2.2	Bertolotto 94	cs
2.1 – 2.4	Bertolotto 94	angp,cs
(3)	Bertolotto 94	angp,cs
$\phi(1680)\,\pi^0$		
0.	Amsler 94B	cs
	Amsler 94F	cs
$\eta_c(1S)\,\gamma$		
3 – 7	Gollwitzer 94	cs
(3.5 – 3.6)	Cester 94	cs,mass
$J/\psi(1S)\,\gamma$		
(3.5 – 3.6)	Cester 94	angp,cs
$J/\psi(1S)\,\pi^0$		
3 – 7	Gollwitzer 94	cs
(3.5 – 3.6)	Cester 94	cs,mass
(3.523 – 3.686)	Garbincius 94	cs

$\bar{p}\,p$

$J/\psi(1S)\,\pi^0$

(3.526)	Pordes 96	cs
	Menichetti 94	cs

π^0 exotic-meson

1.94	Amsler 94E	–

π^0 glueball

0.	Montanet 95	cs,mass,pwa

baryonium γ

0.	Chiba 97B	cs

π^0 baryonium

0.	Chiba 97B	cs

$n\,\bar{n}$

0.18 – 0.6	Bradamante 94	angp,cs
0.306	Iazzi 96	p
	Feliciello 94	p
0.39	Bradamante 94	angp,cs
0.49	Bradamante 94	angp,cs
0.5 – 1.5	Lamanna 96	angp,asym,pol
	Bradamante 94	angp,pol
0.546	Ahmidouch 95B	angp,pol
0.546 – 1.287	Ahmidouch 95	angp
0.59	Bradamante 94	angp,cs
0.601	Lamanna 96	angp,const
	Bradamante 95	angp,const
	Birsa 94	angp
	Bradamante 94	angp,const
0.6015	Bressan 97	angp
0.69	Bradamante 94	angp,cs
0.78	Bradamante 94	angp,cs
0.875	Ahmidouch 96	angp,pol
	Ahmidouch 95B	angp,pol
	Lamanna 94	angp,asym,pol
< 0.925	Deswart 94	angp,cs,pol,pwa
	Timmermans 94	angp,cs
1.202	Bressan 97	angp
	Lamanna 96	angp,const
	Bradamante 95	angp,const
	Birsa 94	angp
	Bradamante 94	angp,const

$p\,\bar{p}$

0.5 – 1.5	Lamanna 96	angp,asym,pol
< 0.925	Deswart 94	angp,cs,pol,pwa
	Timmermans 94	angp,cs
3.7 – 6.2	Armstrong 96	angp,cs
5.9	White 94B	angp
(541)	Kawasaki 95	amp,angp
	Augier 94	cs
	Haguenauer 94	amp,angp
(541 – 546)	Kawasaki 95	amp,angp
(546)	Abe 93S	cs
	Abe 93U	angp,cs
	Belforte 93	angp,cs
(1800)	Avila 99	angp
	Abe 93S	cs
	Abe 93U	angp,cs
	Belforte 93	angp,cs

$\Lambda\,\bar{\Lambda}$

1.434 – 1.451	Barnes 94	angp,cs
1.435	Rohrich 96	angp,cs,pol
1.435 – 2	Barnes 96	angp,cs
1.436 – 1.919	Eisenstein 94	angp,cs,pol
1.475 – 1.695	Deswart 94	angp,cs,pol,pwa
1.642	Barnes 96C	amp,angp,cs,pol

$\bar{p}\,p$

$\Lambda\,\bar{\Lambda}$

1.726	Barnes 96B	angp,cs,pol
1.918	Barnes 96C	amp,angp,cs,pol
1771	Barnes 96B	angp,cs,pol

$\bar{\Lambda}\,\Sigma^0$

1.435 – 2	Barnes 96	angp,cs
1.726	Barnes 96B	angp,cs,pol
1771	Barnes 96B	angp,cs,pol

$\Lambda\,\bar{\Sigma}^0$

1.435 – 2	Barnes 96	angp,cs
1.726	Barnes 96B	angp,cs,pol
1771	Barnes 96B	angp,cs,pol

$\Lambda\,\bar{\Sigma}^0 + \bar{\Lambda}\,\Sigma^0$

1.692	Eisenstein 94	angp,cs

$\Sigma^-\,\bar{\Sigma}^+$

1.435 – 2	Barnes 96	angp,cs
1.922	Barnes 97	amp,angp,cs

$\Sigma^+\,\bar{\Sigma}^-$

1.435 – 2	Barnes 96	angp,cs
1.922	Barnes 97	amp,angp,cs
1.924	Eisenstein 94	angp,cs

$e^-\,e^+\,\gamma$

(3.1)	Armstrong 96B	angp,cs,p
(3.5 – 3.6)	Cester 94	amp,cs,mass

$\pi^0\,e^-\,e^+$

3 – 7	Gollwitzer 94	cs,mass
(3.5 – 3.6)	Cester 94	cs,mass

$\bar{H}$(atom) $p\,e^-$

5.2 – 6.2	Blanford 97	cs

3hadron

22.4	Dementiev 94	col

3γ

3 – 7	Gollwitzer 94	cs,mass
(3.5 – 3.6)	Cester 94	cs,mass

$\pi^+\,\pi^-$ meson^0

0.	Bertin 96	–
	Temnikov 96	–
	Bertin 95	–

$3\pi^0$

0.	Abele 96C	amp,cs,mass
	Amsler 96	–
	Spanier 96	ang,cor,mass
	Amsler 95	cor,mass,pwa
	Amsler 95E	angp,cs,mass,mass,pwa
	Anisovich 95	mass,pwa
	Montanet 95	mass
	Amsler 94B	–
	Amsler 94G	cs
	Amsler 94J	cor,mass,pwa
	Anisovich 94	mass,pwa
	Brose 94	amp,cor,mass
	Zenoni 94	mass
0.6	Amsler 96D	mass
	Degener 96	cs,mass,pwa
1.2	Degener 96	cs,mass,pwa
1.94	Amsler 96D	mass
	Degener 96	cs,mass,pwa
	Ravndal 94	mass
(2.98)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa
	Hasan 96	cor,mass
(3.526)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa

$\pi^+\,\pi^0\,\pi^-$

0.	Abele 97D	amp,cs,mass
	Bertin 97B	cs,mass,pwa
	Ableev 94	cs,mass,pwa
	Piccinini 94	mass
	Zenoni 94	mass
< 0.05	Masoni 94	cs,mass

$\eta\,2\pi^0$

0.	Abele 99	cs,mass,pwa

$\bar{p}\,p$

$\eta\,2\pi^0$

	Abele 98	mass
	Abele 98B	mass,p
	Abele 96C	amp,cs,mass
	Amsler 96	–
	Spanier 96	ang,cor,mass
	Amsler 95E	angp,cs,mass,mass,pwa
	Anisovich 95	mass,pwa
	Montanet 95	mass
	Amsler 94	cs
	Amsler 94B	mass
	Amsler 94G	cs
	Amsler 94H	mass,pwa
	Amsler 94J	cor,mass,pwa
	Spanier 94	cor,mass,pwa
0.6	Degener 96	cs,mass,pwa
1.2	Degener 96	cs,mass,pwa
1.94	Amsler 96D	mass
	Degener 96	cs,mass,pwa
	Amsler 94E	mass
	Ravndal 94	mass
(2.98)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa
	Hasan 96	cor,mass
(3.526)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa

$\eta\,\pi^+\,\pi^-$

0.	Abele 97D	amp,cs,mass
	Amsler 95B	cs
	Montanet 95	cs,mass,pwa
	Amsler 94	cs
	Amsler 94B	–
	Amsler 94D	cs
	Wiedner 94	cs

$2\eta\,\pi^0$

0.	Abele 96C	amp,cs,mass
	Spanier 96	ang,cor,mass
	Amsler 95E	angp,cs,mass,mass,pwa
	Amsler 95H	mass,pwa
	Anisovich 95	mass,pwa
	Montanet 95	mass
	Anisovich 94	mass,pwa
	Zenoni 94	mass
0.6	Degener 96	cs,mass,pwa
1.2	Degener 96	cs,mass,pwa
1.94	Amsler 96D	mass
	Degener 96	cs,mass,pwa
	Amsler 94E	mass
	Ravndal 94	mass
(2.98)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa
	Hasan 96	cor,mass
(3.526)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa

3η

0.6	Degener 96	cs,mass,pwa
1.2	Degener 96	cs,mass,pwa
1.94	Amsler 96D	mass
	Degener 96	cs,mass,pwa
	Amsler 94E	mass
	Ravndal 94	mass
(2.98)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa
	Hasan 96	cor,mass
(3.526)	Ambrogiani 96	mass,pwa
	Armstrong 94	mass,pwa

$\rho^0\,2\pi^0$

0.	Adler 95F	cs

$2\rho^0\,\pi^0$

0.	Zenoni 94	mass

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

$\overline{p}\,p$

$\rho^+\,\rho^-\,\pi^0$

0.	Montanet 95	cs
	Amsler 94	mass
	Amsler 94B	mass
	Zenoni 94	mass

$\omega\,2\pi^0$

0.	Montanet 95	cs,mass,pwa
	Amsler 94	cs
	Amsler 94B	mass
	Amsler 94J	cor,mass,pwa
1.94	Ravndal 94	cor,mass

$\omega\,\pi^+\,\pi^-$

0.	Bertin 96G	cs,mass
< 0.2	Sapozhnikov 95	cs
0.7	Sapozhnikov 95	cs
1.2	Sapozhnikov 95	cs
2.3	Sapozhnikov 95	cs
3.6	Sapozhnikov 95	cs

$\omega\,\eta\,\pi^0$

0.	Amsler 94B	mass
	Amsler 94F	cs,mass,pwa
1.94	Amsler 96D	mass
	Amsler 94E	mass

$2\omega\,\pi^0$

1.94	Degener 96	cs,mass,pwa
	Amsler 94E	mass
	Ravndal 94	cor,mass

$\eta'\,2\pi^0$

0.	Abele 97B	–
	Abele 97C	cs,mass,pwa
	Amsler 96	–

$\eta'\,\pi^+\,\pi^-$

0.	Abele 97B	–

$\eta'\,\eta\,\pi^0$

0.	Abele 96C	amp,cs,mass
	Spanier 96	ang,cor,mass
	Amsler 94I	ang,cor,mass

$a_0(980)^0\,2\pi^0$

0.	Abele 98D	cs,dme
	Pinder 96	–
1.2	Pinder 96	–
1.94	Pinder 96	–

$a_2(1320)^0\,2\pi^0$

0.	Abele 98D	cs,dme

$f_1(1420)\,2\pi^0$

0.	Amsler 96B	–

$f_1(1420)\,\pi^+\,\pi^-$

0.	Amsler 96B	–

$\eta(1440)\,2\pi^0$

0.	Spanier 96B	–
	Amsler 95F	cs

$\eta(1440)\,\pi^+\,\pi^-$

0.	Bertin 96	–
	Bertin 96H	cs
	Spanier 96B	–
	Temnikov 96	–
	Amsler 95F	cs
	Bertin 95	–

$\rho(1450)^0\,\pi^+\,\pi^-$

0.05	Bertin 97E	amp

$K^+\,K^-\,\gamma$

0.	Amsler 95C	cs,mass

$K_S\,K_L\,\gamma$

0.	Amsler 95C	cs,mass
	Faessler 94	cs,mass

$K^+\,\overline{K}^0\,\pi^-$

0.	Angelopoulos 98	–
	Angelopoulos 98B	–
	Angelopoulos 98C	–
	Angelopoulos 98D	–
	Adler 97	–
	Angelopoulos 97	p

$\overline{p}\,p$

$K^+\,\overline{K}^0\,\pi^-$

	Angelopoulos 97C	cs
	Angelopoulos 97D	–
	Angelopoulos 97E	const
	Adler 96	–
	Adler 96B	mass
	Adler 96D	–
	Adler 96F	–
	Adler 95C	mass
	Adler 95D	mass
	Adler 95E	mass
	Adler 94B	–

$K^+\,\overline{K}^0\,\pi^- + K^0\,K^-\,\pi^+$

0.	Angelopoulos 98E	cs
	Adler 95	mass
	Adler 95G	mass

$K^+\,K^-\,\pi^0$

0.	Alberico 98B	cs,mass,pwa
	Prakhov 96	cs,mass,pwa
	Ableev 95C	amp,ang,mass,p
	Amsler 95C	cs,mass
	Zenoni 94	mass
< 0.05	Masoni 94	cs,mass

$K^0\,K^-\,\pi^+$

0.	Angelopoulos 98	–
	Angelopoulos 98B	–
	Angelopoulos 98C	–
	Angelopoulos 98D	–
	Adler 97	–
	Angelopoulos 97	p
	Angelopoulos 97C	cs
	Angelopoulos 97D	–
	Angelopoulos 97E	const
	Adler 96	–
	Adler 96B	mass
	Adler 96D	–
	Adler 96F	–
	Adler 95C	mass
	Adler 95D	mass
	Adler 95E	mass
	Adler 94B	–

$K^+\,K_S\,\pi^-$

0.	Bertin 98B	cs,mass,pwa

$K_S\,K^-\,\pi^+$

0.	Bertin 98B	cs,mass,pwa

$K^+\,K_L\,\pi^-$

0.	Abele 98C	cs,mass,pwa

$K_L\,K^-\,\pi^+$

0.	Abele 98C	cs,mass,pwa

$K_S\,K_L\,\pi^0$

0.	Amsler 95C	cs,mass
	Amsler 94B	mass
	Amsler 94J	cor,mass
	Faessler 94	cs,mass

$2K_L\,\pi^0$

0.	Abele 98C	cs,mass,pwa
	Abele 96B	amp,cs,mass

$K^+\,K^-\,\eta$

0.	Ableev 95C	amp,ang,mass,p

$K_S\,K_L\,\eta$

0.	Amsler 94B	mass
	Amsler 94J	cor,mass

$K^*(892)^0\,\overline{K}^0\,\pi^0$

0.	Felix 94	cs

$K^*(892)^+\,K_L\,\pi^-$

0.	Abele 97F	amp,cs

$K^*(892)^0\,K_L\,\pi^0$

0.	Abele 97F	amp,cs
	Abele 97G	amp,cs

$\overline{K}^*(892)^0\,K^0\,\pi^0$

0.	Felix 94	cs

$\overline{K}^*(892)^0\,K_L\,\pi^0$

0.	Abele 97F	amp,cs

$\overline{p}\,p$

$\overline{K}^*(892)^0\,K_L\,\pi^0$

	Abele 97G	amp,cs

$K^*(892)^-\,K_L\,\pi^+$

0.	Abele 97F	amp,cs

$\phi(1020)\,2\pi^0$

0.	Felix 94	cs

$\phi(1020)\,\pi^+\,\pi^-$

0.	Bertin 96C	amp,angp,mass
	Bertin 96G	cs,mass
< 0.2	Sapozhnikov 95	cs
0.7	Sapozhnikov 95	cs
1.2	Sapozhnikov 95	cs
2.3	Sapozhnikov 95	cs
3.6	Sapozhnikov 95	cs

$K^+\,K^-\,\phi(1020)$

(2.1 – 2.43)	Palano 96	amp,angp,cs
1.1 – 2	Evangelista 98	cs,mass
(2.15 – 2.43)	Bertolotto 96	cs
1.4	Bertolotto 95	angp,cs
2.1 – 2.4	Bertolotto 94	mass

$J/\psi(1S)\,2\pi^0$

3 – 7	Gollwitzer 94	cs

$J/\psi(1S)\,\pi^+\,\pi^-$

3 – 7	Gollwitzer 94	cs
(3.5 – 3.6)	Cester 94	cs,mass

$\pi^+\,\pi^-$ **baryonium**

1.65 – 2	Buzzo 97	cs

DD $< \overline{n}\,\pi^- > p$

22.4	Dementiev 94	angp,cs,mass

DD $< p\,\pi^0 > \overline{p}$

22.4	Dementiev 94	angp,cs,mass

DD $< \overline{p}\,\pi^0 > p$

22.4	Dementiev 94	angp,cs,mass

$\pi^0\,2(\pi\pi)_{L=0}$

0.	Amsler 94B	mass
	Zenoni 94	mass

$2\pi^0\,e^-\,e^+$

3 – 7	Gollwitzer 94	cs,mass

$\pi^+\,\pi^-\,e^-\,e^+$

3 – 7	Gollwitzer 94	cs,mass
(3.5 – 3.6)	Cester 94	cs,mass

4hadron

22.4	Dementiev 94	col

2γ 2jet

(1800)	Abbott 98L	cs,et,mass

4γ

0.	Ableev 94B	mass
	Agnello 94	mass
	Piccinini 94	ang,cor,mass

$2\pi^0\,\gamma$ **neutral**

0.	Amsler 94J	cs,p

$2\pi^0\,\gamma$ **longlived**

0.	Amsler 96	angp,cs,mass,p

$\pi^+\,\pi^-\,2\gamma$

0.	Amsler 94D	cs,mass
	Piccinini 94	ang,mass
	Wiedner 94	mass

$3\pi^0\,\gamma$

0.	Amsler 94B	mass
1.94	Ravndal 94	cor,mass

$4\pi^0$

0.	Felix 94	mass
1.94	Amsler 96D	mass

$2\pi^+\,2\pi^-$

0.	Angelopoulos 97B	cor,mass
	Adler 94	angp,cor
0.05	Bertin 97E	cs,mass,pwa

$\bar{p}\,p$

$\eta\, 2\pi^0\, \gamma$
1.94 Ravndal 94 cor,mass
$\eta\, 3\pi^0$
0. Abele 98D mass
Pinder 96 mass,pwa
1.2 Adomeit 96 mass,pwa
Pinder 96 mass,pwa
1.94 Adomeit 96 mass,pwa
1.94 – 2.2 Pinder 96 mass,pwa
$\rho^0\, 3\pi^0$
0. Adler 95F cs
$\omega\, \eta\, 2\pi^0$
1.94 Ravndal 94 cor,mass
$a_0(1450)^0\, 3\pi^0$
0. Abele 97C cs
$K^+\, K^-\, \pi^+\, \pi^-$
0. Bertin 96C mass
Adler 94 angp,cor
$K^+\, K_L\, \pi^0\, \pi^-$
0. Abele 97F cs,mass,pwa
$K_L\, K^-\, \pi^+\, \pi^0$
0. Abele 97F cs,mass,pwa
$K_S\, K_L\, 2\pi^0$
0. Abele 97G cs,mass,pwa
Felix 94 mass,pwa
$2K^+\, 2K^-$
(2.1 – 2.43) Palano 96 angp,cs,mass
1.1 – 2 Evangelista 98 cs,mass
(2.15 – 2.43) Bertolotto 96 mass,pwa
Steinkamp 94 mass
1.4 Bertolotto 95 angp,cs,mass
1.6 – 2.2 Bertolotto 94 mass
2.1 – 2.4 Bertolotto 94 mass
(3) Bertolotto 94 mass
$p\, \bar{p}\, \pi^+\, \pi$
1.7 – 2 Palano 96 mass
1.9 Bertolotto 95 cs
$p\, \bar{p}\, \pi^+\, \pi^-$
1.434 – 1.451 Barnes 94 mass
1.642 Barnes 96C mass
1.65 – 2 Buzzo 97 cs,mass
1.726 Barnes 96B angp,cor,p
1.918 Barnes 96C mass
1771 Barnes 96B angp,cor,p
DD $< p\, \pi^+\, \pi^- >\, \bar{p}$
22.4 Dementiev 94 angp,cs,mass
DD $< \bar{p}\, \pi^+\, \pi^- >\, p$
22.4 Dementiev 94 angp,cs,mass
5hadron
22.4 Dementiev 94 col
5γ
0. Amsler 94B mass,p
Faessler 94 cs,mass
$2\pi^0\, 3\gamma$
0. Amsler 94B mass
$3\pi^0\, 2\gamma$
0. Amsler 94F mass
$5\pi^0$
0. Abele 98 mass
Abele 96 angp,cs,mass,pwa
Resag 96 mass
$\pi^+\, 3\pi^0\, \pi^-$
0. Abele 98B mass,p
Montanet 95 mass
Amsler 94 cs,mass,pwa
Amsler 94B mass
Amsler 94D cs,mass
Wiedner 94 mass
Zenoni 94 mass
$2\pi^+\, \pi^0\, 2\pi^-$
0. Apostolakis 99 amp,cor,mass,p

$\bar{p}\,p$

$2\pi^+\, \pi^0\, 2\pi^-$
Adler 94 angp,cor
Amsler 94B mass
Amsler 94D cs,mass
Wiedner 94 mass
Zenoni 94 mass
0.1 – 0.29 Filippi 96 mass
$\eta\, 2\pi^0\, 2\gamma$
0. Amsler 94F mass
$\eta\, 4\pi^0$
0. Abele 97C cs,mass,pwa
1.94 Amsler 94E mass
$\eta\, \pi^+\, 2\pi^0\, \pi^-$
0. Amsler 96B mass
Spanier 96B mass,pwa
Amsler 95F cs,mass,pwa
1.94 Amsler 94E mass
$\omega\, 2\pi^0\, 2\gamma$
0. Amsler 94F mass
$K^+\, \overline{K}^0\, \pi^+\, 2\pi^-$
0. Bertin 97C mass,pwa
Bertin 96 mass,mass,pwa
Temnikov 96 mass,mass,pwa
Bertin 95 mass,mass,pwa
$K^0\, K^-\, 2\pi^+\, \pi^-$
0. Bertin 97C mass,pwa
Bertin 96 mass,mass,pwa
Temnikov 96 mass,mass,pwa
Bertin 95 mass,mass,pwa
$K^+\, K_S < \pi^+\, \pi^- >\, \pi^-$
0. Adler 94 angp,cor
$K_S < \pi^+\, \pi^- >\, K^-\, \pi^+$
0. Adler 94 angp,cor
$K^+\, K_L\, \pi^+\, 2\pi^-$
0. Bertin 96H cs,mass
$K_L\, K^-\, 2\pi^+\, \pi^-$
0. Bertin 96H cs,mass
$p\, \bar{p}\, \pi^+\, \pi^-\, \gamma$
1.726 Barnes 96B angp,cor,p
1771 Barnes 96B angp,cor,p
DD $< p\, \pi^+\, \pi^- >$ DD $< \bar{n}\, \pi^- >$
22.4 Dementiev 94 angp,cs,mass
DD $< \bar{n}\, \pi^+\, 2\pi^- >\, p$
22.4 Dementiev 94 angp,cs,mass
DD $< \bar{p}\, \pi^+\, \pi^0\, \pi^- >\, p$
22.4 Dementiev 94 angp,cs,mass
DD $< p\, \pi^0 >$ DD $< \bar{p}\, \pi^+\, \pi^- >$
22.4 Dementiev 94 angp,cs,mass
DD $< p\, \pi^+\, \pi^- >$ DD $< \bar{p}\, \pi^0 >$
22.4 Dementiev 94 angp,cs,mass
DD $< p\, \pi^+\, \pi^0\, \pi^- >\, \bar{p}$
22.4 Dementiev 94 angp,cs,mass
6γ
0. Spanier 96 mass
Amsler 95 mass
Amsler 95E cs,mass
Anisovich 95 mass
Montanet 95 –
Amsler 94H mass
Amsler 94I mass
Amsler 94J mass
Anisovich 94 mass

$\bar{p}\,p$

6γ
Brose 94 mass
Faessler 94 cs,mass
1.94 Amsler 94E mass
(2.98) Ambrogiani 96 mass
Armstrong 94 mass
(3.526) Ambrogiani 96 mass
Armstrong 94 mass
7γ
1.94 Amsler 94E mass
$5\pi^0\, 2\gamma$
0. Amsler 94F mass
8γ
0. Felix 94 mass
1.94 Amsler 94E mass
$\pi^+\, \pi^-\, 6\gamma$
0. Montanet 95 –
Amsler 94 –
1.94 Amsler 94E mass
10γ
1.94 Amsler 94E mass

$\bar{p}\,n$

π^- meson^0
0. Zenoni 94 –
$\pi^0\, \pi^-$
0. Chiba 97B cs
Gaspero 94 cs,mass
$\eta\, \pi^-$
0. Chiba 97B cs
$\rho^0\, \pi^-$
0. Chiba 97B cs
$\rho^-\, \pi^0$
0. Chiba 97B cs
$\rho^-\, \eta$
0. Chiba 97B cs
$\omega\, \pi^-$
0. Ableev 94G cs
Gaspero 94 cs
$f_0(1370)\, \pi^-$
0. Gaspero 94 –
$\hat{\rho}(1405)\, \pi^-$
0. Abele 98E cs
$\phi(1020)\, \pi^-$
0. Ableev 94G cs
Sapozhnikov 94B cs
$\pi^+\, 2\pi^-$
0. Gaspero 96 cor,mass
Gaspero 95 cor,mass
Zenoni 94 mass
$\eta\, \pi^0\, \pi^-$
0. Abele 98E cs,mass,pwa
$2\rho^0\, \pi^-$
0. Gaspero 94 mass,pwa
Zenoni 94 mass
$\pi^-\, 2(\pi\pi)_{L=0}$
0. Gaspero 94 mass,pwa
Zenoni 94 mass
$\pi^+\, \pi^0\, 2\pi^-$
0. Gaspero 94 mass
$2\pi^+\, 3\pi^-$
0. Gaspero 96 cor,mass
Gaspero 95B cor
Gaspero 94 mass,pwa
Zenoni 94 mass

$\bar{p}$ H(atom)

annihil
0. Ableev 94I cs

$\bar{p}$ nucleus

K^0 X
40 Grigalashvil 98 a-dep

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$\bar{p}$ nucleus

Λ X		
40	Grigalashvil 98	a-dep
$\bar{\Lambda}$ X		
40	Grigalashvil 98	a-dep
black 2shower		
0.	Batusov 96C	angp,p

$\bar{p}$ deuteron

annihil		
0.	Ableev 94I	cs
$< 10^{-6}$	Bertin 96E	cs
γ X		
0.	Anagnostopou 96	p
K^0 X		
40	Grigalashvil 98	mult
Λ X		
0.	Ableev 95	cs,p
40	Grigalashvil 98	mult
$\bar{\Lambda}$ X		
40	Grigalashvil 98	mult
$(\bar{p}p)_{\mathrm{atom}}$ X		
0.	Anagnostopou 96	-
$(\bar{p}p)_{\mathrm{atom}^*}$ X		
0.	Anagnostopou 96	-
2γ X		
0.	Amsler 95G	mass,p
π^+ charged (neutrals)		
0.	Chiba 97B	mult,p
π^0 (chargeds) (neutrals)		
0.	Chiba 97B	mult,p
π^- charged (neutrals)		
0.	Chiba 97B	mult,p
η (chargeds) (neutrals)		
0.	Chiba 97B	mult,p
$K^+ K^-$ X		
0.	Bertin 96D	mass
n (γ's) mult[charged]		
0.	Chiba 97	cs,p
$p\ \pi^-$ X		
0.	Bertin 96D	mass
3γ X		
0.	Amsler 95G	mass,p
$\pi^+ \pi^0 \pi^-$ X		
0.	Strassburger 94	mass
$p\ \pi^-$		
0.	Ableev 94E	cs
$n\ \pi^0$		
0.	Amsler 96C	cs,mass
	Chiba 96	cs
	Amsler 95G	cs
	Amsler 94B	cs
	Amsler 94C	cs
	Armstrong 94B	cs
$n\ \eta$		
0.	Amsler 96C	cs,mass
	Chiba 96	cs
	Amsler 95G	cs
	Amsler 94B	cs
	Amsler 94C	cs
	Armstrong 94B	cs
$p\ \rho^-$		
0.	Ableev 94E	cs
$n\ \omega$		
0.	Amsler 96C	cs,mass
	Amsler 95G	cs
	Amsler 94B	cs
	Amsler 94C	cs
	Armstrong 94B	cs
$n\ \eta'$		
0.	Amsler 96C	cs,mass
	Amsler 95G	cs
	Amsler 94B	cs
	Amsler 94C	cs

$\bar{p}$ deuteron

$n\ \eta'$		
	Armstrong 94B	cs
$n\ \phi(1020)$		
0.	Bertin 96D	angp,cs
n baryonium		
0.	Chiba 97	cs
$\Delta(1232\,P_{33})^0\ \pi^0$		
0.	Amsler 96C	cs,mass
	Chiba 96	cs
	Amsler 95D	cs
$\Delta(1232\,P_{33})^0\ \eta$		
0.	Chiba 96	cs
$\Lambda\ K_L$		
0.	Bertin 96D	angp,cs
$p\ \pi^-$ meson^0		
0.	Zenoni 94	mass
$p\ \pi^0\ \pi^-$		
0.	Ableev 94E	cs,mass
$n\ 2\pi^0$		
0.	Amsler 95D	angp,cs,mass
$n\ \eta\ \pi^0$		
0.	Amsler 95D	cs
$p\ \rho^0\ \pi^-$		
0.	Abele 99B	cs
$p\ \rho^-\ \pi^0$		
0.	Abele 97	cs
$p\ \omega\ \pi^-$		
0.	Ableev 95	cs
	Ableev 94G	cs,p
	Sapozhnikov 94	cs,p
< 0.2	Sapozhnikov 95	cs
p(spect) $\omega\ \pi^-$		
0.	Ableev 94G	cs,p
$p\ f_0(980)\ \pi^-$		
0.	Strassburger 94	-
$p\ f_2(1270)\ \pi^-$		
0.	Strassburger 94	-
$p\ f_0(1370)\ \pi^-$		
0.	Strassburger 94	-
$p\ \rho(1450)^0\ \pi^-$		
0.	Abele 99B	cs
$p\ \rho(1450)^-\ \pi^0$		
0.	Abele 97	cs
	Strassburger 94	-
$p\ f_0(1500)\ \pi^-$		
0.	Strassburger 94	-
$p\ f_2(1565)\ \pi^-$		
0.	Strassburger 94	-
$p\ \rho(1700)^0\ \pi^-$		
0.	Abele 99B	cs
$p\ \rho(1700)^-\ \pi^0$		
0.	Abele 97	cs
$p\ \phi(1020)\ \pi^-$		
0.	Ableev 95	cs
	Ableev 94G	cs,mass
	Sapozhnikov 94	cs,p
< 0.2	Sapozhnikov 95	cs
p(spect) $\phi(1020)\ \pi^-$		
0.	Ableev 94G	cs,mass
$n\ \pi^0$ baryonium		
0.	Chiba 97B	cs
$\Delta(1232\,P_{33})^{++}\ 2\pi^-$		
0.	Bertin 97	cs
$\Lambda\ K^+\ \pi^-$		
0.	Ableev 95	cs,p
$p\ 2\pi^0\ \pi^-$		
0.	Abele 97	amp,cs,mass
	Strassburger 94	cor,mass,p,pwa

$\bar{p}$ deuteron

$p\ 2\pi^0\ \pi^-$		
	Zenoni 94	mass
$p\ \pi^+\ 2\pi^-$		
0.	Abele 99B	mass,p,pwa
	Bertin 97	cs,mass
	Ableev 95	cs,mass
$p\ \eta\ \pi^0\ \pi^-$		
0.	Abele 98E	mass,p
$p\ K^+\ K^-\ \pi^-$		
0.	Ableev 94G	mass,p
	Sapozhnikov 94	mass,p
$\Delta(1232\,P_{33})^{++}\ \pi^0\ 2\pi^-$		
0.	Bertin 97	cs
$\Lambda\ K^+\ \pi^0\ \pi^-$		
0.	Ableev 95	cs,p
$n\ 4\gamma$		
0.	Amsler 95D	cs,mass
$p\ \pi^+\ \pi^0\ 2\pi^-$		
0.	Bertin 97	cs,mass
	Ableev 94G	mass,p
	Sapozhnikov 94	mass,p
$n\ 2\pi^+\ 2\pi^-$		
0.	Ableev 95	cs,mass
$\Delta(1232\,P_{33})^{++}\ \pi^+\ 3\pi^-$		
0.	Bertin 97	cs
$p\ 2\pi^+\ 3\pi^-$		
0.	Bertin 97	cs,mass
	Ableev 95	cs,mass
$\Delta(1232\,P_{33})^{++}\ \pi^+\ \pi^0\ 3\pi^-$		
0.	Bertin 97	cs
$p\ 2\pi^+\ \pi^0\ 3\pi^-$		
0.	Bertin 97	cs,mass
$n\ 3\pi^+\ 3\pi^-$		
0.	Ableev 95	cs,mass

$\bar{p}\ ^3$He

X		
0.	Nakamura 94	cs

$\bar{p}\ ^4$He

X		
0.	Nakamura 94	cs
γ X		
0.	Anagnostopou 96	p
π^- X		
0.	Adamo 94	p
p X		
0.	Adamo 94	p
$(\bar{p}p)_{\mathrm{atom}}$ X		
0.	Anagnostopou 96	-
$(\bar{p}p)_{\mathrm{atom}^*}$ X		
0.	Anagnostopou 96	-
$2\pi^+$ X		
0.	Adamo 94	ang,mass
$\pi^+\ \pi^-$ X		
0.	Adamo 94	ang
$2\pi^-$ X		
0.	Adamo 94	ang,mass
$p\ \pi^+$ X		
0.	Adamo 94	ang
$p\ \pi^-$ X		
0.	Adamo 94	ang
$2p$ X		
0.	Adamo 94	ang
$2\pi^+\ 2\pi^-$ X		
0.	Adamo 94	mass
$(\bar{p}\,\mathrm{He})_{\mathrm{atom}}$		
0.	Yamazaki 96	-
	Morita 95	-
	Daniel 94	-
	Hayano 94B	-

$\bar{p}$ He

X		
0.2	Widmann 94	cs
annihil		
0.	Ableev 94I	cs
0.001 – 0.066	Ableev 94F	cs

$\bar{p}$ Li

X		
0.2	Widmann 94	cs
K^0 X		
40	Grigalashvil 98	mult
Λ X		
40	Grigalashvil 98	mult
$\bar{\Lambda}$ X		
40	Grigalashvil 98	mult

$\bar{p}$ Be

annihil		
0.7 – 2.5	Kuzichev 93	a-dep,cs
	Kuzichev 92	a-dep,cs

$\bar{p}$ C

annihil		
0.7 – 2.5	Kuzichev 93	a-dep,cs
	Kuzichev 92	a-dep,cs
K^0 X		
40	Grigalashvil 98	mult
Λ X		
40	Grigalashvil 98	mult
$\bar{\Lambda}$ X		
40	Grigalashvil 98	mult

$\bar{p}$ ^{12}C

mult[$\pi^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[$K^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[p] X		
0.	Polster 95	a-dep,cs,mult,p
mult[n] X		
0.	Polster 95	a-dep,cs,mult,p
mult[deuteron] X		
0.	Polster 95	a-dep,cs,mult,p
mult[trit] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ Nit

annihil		
0.	Ableev 94I	cs

$\bar{p}$ Ne

annihil		
0.	Ableev 94I	cs

$\bar{p}$ ^{20}Ne

γ X		
0.	Anagnostopou 96	p
$(\bar{p}p)_{atom}$ X		
0.	Anagnostopou 96	–
$(\bar{p}p)_{atom^*}$ X		
0.	Anagnostopou 96	–

$\bar{p}$ Mg

π^+ X		
100	Whitmore 94	mult,p,pt
π^- X		
100	Whitmore 94	mult,p,pt
p X		
100	Whitmore 94	mult,p

$\bar{p}$ Al

annihil		
0.7 – 2.5	Kuzichev 93	a-dep,cs
	Kuzichev 92	a-dep,cs

$\bar{p}$ ^{27}Al

mult[$\pi^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[$K^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[p] X		
0.	Polster 95	a-dep,cs,mult,p
mult[n] X		
0.	Polster 95	a-dep,cs,mult,p
mult[deuteron] X		
0.	Polster 95	a-dep,cs,mult,p
mult[trit] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ ^{28}Si

mult[$\pi^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[$K^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[p] X		
0.	Polster 95	a-dep,cs,mult,p
mult[n] X		
0.	Polster 95	a-dep,cs,mult,p
mult[deuteron] X		
0.	Polster 95	a-dep,cs,mult,p
mult[trit] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ S

K^0 X		
40	Grigalashvil 98	mult
Λ X		
40	Grigalashvil 98	mult
$\bar{\Lambda}$ X		
40	Grigalashvil 98	mult

$\bar{p}$ Ar

annihil		
0.	Ableev 94I	cs

$\bar{p}$ ^{40}Ca

mult[$\pi^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[$K^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[p] X		
0.	Polster 95	a-dep,cs,mult,p
mult[n] X		
0.	Polster 95	a-dep,cs,mult,p
mult[deuteron] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ ^{40}Ca

mult[trit] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ Fe

annihil		
0.7 – 2.5	Kuzichev 93	a-dep,cs
	Kuzichev 92	a-dep,cs

$\bar{p}$ ^{58}Ni

fragt X		
0.	Lubinski 98	a-dep,cs
^{57}Co X		
0.	Lubinski 94	cs
^{57}Ni X		
0.	Lubinski 94	cs

$\bar{p}$ Cu

annihil		
0.7 – 2.5	Kuzichev 93	a-dep,cs
	Kuzichev 92	a-dep,cs
1.9	Schmid 97	cs
K^0 X		
40	Grigalashvil 98	mult
Λ X		
40	Grigalashvil 98	mult
$\bar{\Lambda}$ X		
40	Grigalashvil 98	mult
p (frags) X		
1.921	Goldenbaum 96	a-dep,col,cor,cs,mult,p
frag (frags) X		
1.921	Goldenbaum 96	a-dep,col,cor,cs,mult,p
2fragt X		
0.	Ivanov 95	cs
He (frags) X		
1.921	Goldenbaum 96	a-dep,col,cor,cs,mult,p
n (n's) (frags) charged (chargeds) X		
1.921	Goldenbaum 96	a-dep,col,cor,cs,mult,p
n (n's) 2frag (frags) X		
1.9	Schmid 97	cs

$\bar{p}$ ^{64}Cu

mult[$\pi^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[$K^{\pm}$] X		
0.	Polster 95	a-dep,cs,mult,p
mult[p] X		
0.	Polster 95	a-dep,cs,mult,p
mult[n] X		
0.	Polster 95	a-dep,cs,mult,p
mult[deuteron] X		
0.	Polster 95	a-dep,cs,mult,p
mult[trit] X		
0.	Polster 95	a-dep,cs,mult,p

$\bar{p}$ Yt

annihil		
1.9	Schmid 97	cs
n (n's) 2frag (frags) X		
1.9	Schmid 97	cs

$\bar{p}$ ^{96}Zr

fragt X		
0.	Lubinski 98	a-dep,cs

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$\bar{p}$ ^{96}Zr

fragt X
Lubinski 94 cs
^{95}Zr X
0. Lubinski 94 cs

$\bar{p}$ Nb

2fragt X
0. Ivanov 95 cs

$\bar{p}$ ^{92}Mo

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p

$\bar{p}$ Mo

annihil
1.9 Schmid 97 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{100}Mo

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p

$\bar{p}$ ^{96}Ru

fragt X
0. Lubinski 98 a-dep,cs
^{95}Tc X
0. Lubinski 94 cs

$\bar{p}$ ^{108}Ag

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p

$\bar{p}$ ^{108}Ag

mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p

$\bar{p}$ Ag

annihil
1.9 Schmid 97 cs
π^+ X
100 Whitmore 94 mult,p,pt
π^- X
100 Whitmore 94 mult,p,pt
p X
100 Whitmore 94 mult,p
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{106}Cd

fragt X
0. Lubinski 98 a-dep,cs

$\bar{p}$ Cd

annihil
0.7 – 2.5 Kuzichev 93 a-dep,cs
Kuzichev 92 a-dep,cs

$\bar{p}$ Sn

annihil
1.9 Schmid 97 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{128}Te

fragt X
0. Lubinski 98 a-dep,cs

$\bar{p}$ ^{130}Te

fragt X
0. Lubinski 98 a-dep,cs
Lubinski 94 cs
^{129}Sb X
0. Lubinski 94 cs

$\bar{p}$ Xe

inelastic
0.06 – 0.75 Barmin 94 cs
annihil
0. Ableev 94I cs
η X
0. Barmin 96 cs,p
0.4 – 0.9 Barmin 96 cs,p
ω X
0. Barmin 96 cs,p
0.4 – 0.9 Barmin 96 cs,p
strange X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K^+ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K^0 X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$\bar{K}^0$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K^- X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Λ X + Σ^0 X
< 0.4 Barmin 94B cs

$\bar{p}$ Xe

Λ X + Σ^0 X
0.4 – 0.9 Barmin 94B cs
2γ X
0. Barmin 96 mass
0.4 – 0.9 Barmin 96 mass
$2K^+$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K^+ K^- X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
< 1 Barmin 96B mass
K^+ K_S X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K_S K^- X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$2K_S$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Λ K^+ X + Σ^0 K^+ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Λ K_S X + Σ^0 K_S X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Σ^+ K^+ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Σ^0 K^+ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Σ^- K^+ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$\Sigma^\pm$ K_S X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
Σ^0 K_S X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
dibaryon($S = -1$) K^+ X
< 1 Barmin 96B cs
3γ X
0. Barmin 96 mass
0.4 – 0.9 Barmin 96 mass
K^+ K^- η X
0. Barmin 96 cs
0.4 – 0.9 Barmin 96 cs
K^+ K^- ω X
0. Barmin 96 cs
0.4 – 0.9 Barmin 96 cs
Λ K^+ K_S X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
p Σ^- K^+ X
< 1 Barmin 96B mass
dibaryon($S = -1$) $2K^+$ X
< 1 Barmin 96B cs
$4\pi^0$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
π^+ $2\pi^0$ π^- X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$2\pi^+$ $2\pi^-$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
K^+ 3γ X
0. Barmin 96 mass
0.4 – 0.9 Barmin 96 mass
p $2\pi^0$ π^- X
< 0.4 Barmin 94B cs

$\bar{p}$ Xe

$p\ 2\pi^0\ \pi^-$ X
0.4 – 0.9 Barmin 94B cs
$p\ \pi^+\ 2\pi^-$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$n\ 3\pi^0$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$n\ \pi^+\ \pi^0\ \pi^-$ X
< 0.4 Barmin 94B cs
0.4 – 0.9 Barmin 94B cs
$\Sigma^\pm\ K^+\ 2\gamma$ X + $K^+\ K^-\ 2\gamma$ X
0. Barmin 96 mass
0.4 – 0.9 Barmin 96 mass
$p\ \Sigma^-\ K^+\ K^-$ X
< 1 Barmin 96B mass
5γ X
0. Barmin 96 mass
0.4 – 0.9 Barmin 96 mass
Xe $\bar{H}$(atom) e^-
1.94 Baur 96 cs

$\bar{p}$ ^{148}Nd

fragt X
0. Lubinski 98 a-dep,cs

$\bar{p}$ ^{144}Sm

fragt X
0. Lubinski 98 a-dep,cs
Lubinski 94 cs
^{143}Pm X
0. Lubinski 94 cs

$\bar{p}$ ^{154}Sm

fragt X
0. Lubinski 98 a-dep,cs
Lubinski 94 cs

$\bar{p}$ ^{160}Gd

fragt X
0. Lubinski 98 a-dep,cs

$\bar{p}$ Ho

annihil
1.9 Schmid 97 cs
fragt (fragts)
0. Schmid 94 cs
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{165}Ho

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p
p (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p

$\bar{p}$ ^{165}Ho

frag (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
He (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
n (n's) (frags) charged (chargeds) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p

$\bar{p}$ ^{176}Yb

fragt X
0. Lubinski 98 a-dep,cs

$\bar{p}$ ^{181}Ta

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p

$\bar{p}$ Au

annihil
1.9 Schmid 97 cs
π^+ X
100 Whitmore 94 mult,p,pt
π^- X
100 Whitmore 94 mult,p,pt
p X
100 Whitmore 94 mult,p
fragt (fragts)
0. Schmid 94 cs
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{197}Au

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
< 0.585 Jahnke 96 mult,p
1.2 Jahnke 96 mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p
n charged X
< 0.585 Jahnke 96 mult,p

$\bar{p}$ ^{197}Au

n charged X
1.2 Jahnke 96 mult,p
p (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
frag (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
He (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
n (n's) (frags) charged (chargeds) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p

$\bar{p}$ Pb

annihil
0.7 – 2.5 Kuzichev 93 a-dep,cs
Kuzichev 92 a-dep,cs
mult[n] X
2 Pienkowski 97 mult
3 Pienkowski 97 mult
4 Pienkowski 97 mult
5 Pienkowski 97 mult
K^0 X
40 Grigalashvil 98 mult
Λ X
40 Grigalashvil 98 mult
$\bar{\Lambda}$ X
40 Grigalashvil 98 mult
2fragt X
0. Ivanov 95 cs

$\bar{p}$ ^{208}Pb

n charged X
< 0.585 Jahnke 96 mult,p
1.2 Jahnke 96 mult,p

$\bar{p}$ ^{209}Bi

mult[$\pi^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^\pm$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
< 0.585 Jahnke 96 mult,p
1.2 Jahnke 96 mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p
frag X
0.105 Hofmann 94 a-dep,mass,p

$\bar{p}$ Bi

annihil
1.9 Schmid 97 cs
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ Th

annihil
1.9 Schmid 97 cs

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$\bar{p}$ Th

fragt (fragts)
0. Schmid 94 cs
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{232}Th

frag X
0.105 Hofmann 94 a-dep,mass,p
fragt X
0. Lubinski 98 a-dep,cs
Lubinski 94 cs

$\bar{p}$ U

annihil
1.9 Schmid 97 cs
fragt (fragts)
0. Schmid 94 cs
2fragt X
0. Ivanov 95 cs
n (n's) 2frag (frags) X
1.9 Schmid 97 cs

$\bar{p}$ ^{238}U

mult[$\pi^{\pm}$] X
0. Polster 95 a-dep,cs,mult,p
mult[$K^{\pm}$] X
0. Polster 95 a-dep,cs,mult,p
mult[p] X
0. Polster 95 a-dep,cs,mult,p
mult[n] X
0. Polster 95 a-dep,cs,mult,p
mult[deuteron] X
0. Polster 95 a-dep,cs,mult,p
mult[trit] X
0. Polster 95 a-dep,cs,mult,p
frag X
0.105 Hofmann 94 a-dep,mass,p
fragt X
0. Lubinski 98 a-dep,cs
Lubinski 94 cs
n charged X
< 0.585 Jahnke 96 mult,p
1.2 Jahnke 96 mult,p
p (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
frag (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
mult[n] fragt X
0. Schmid 97B ang,mass,mult,p
He (frags) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p
n (n's) (frags) charged (chargeds) X
1.921 Goldenbaum 96 a-dep,col,cor,cs,mult,p

$\Delta(1232\,P_{33})^+$ nucleon

2nucleon
(2.25) Holzmann 96 cs

$\Delta(1232\,P_{33})^0$ nucleon

2nucleon
(2.25) Holzmann 96 cs

Λ Be

Ξ^- X
260 – 500 Woods 96 p,pol
Ω^- X
260 – 500 Woods 96 p,pol

Λ Cu

Ω^- X
300 – 800 Wallace 95 pol
Lach 94 pol

$\Sigma^+ \gamma^*$

Σ^+
375 Lach 94 pol

$\Sigma^+ p$

$p\ \Sigma^+$
0.3 – 0.6 Ahn 98B cs

Σ^0 Be

Ξ^- X
260 – 500 Woods 96 p,pol
Ω^- X
260 – 500 Woods 96 p,pol

Σ^0 Cu

Ω^- X
300 – 800 Wallace 95 pol
Lach 94 pol

$\Sigma^- e^-$

$\Sigma^- e^-$
315 – 345 Adamovich 99 angp
600 Eschrich 98 angp,p

Σ^- deuteron

n X
1.8 Chrien 98 p

Σ^- C

K_S X
360 Chudakov 94 a-dep,cs
D^+ X
340 Adamovich 98B p
360 Chudakov 94 a-dep,cs,p
D^- X
340 Adamovich 98B p
360 Chudakov 94 a-dep,cs,p
D_s^+ X
340 Adamovich 98B p
D_s^- X
340 Adamovich 98B p
Λ X
330 Beusch 95 p,pol,pt
$\bar{\Lambda}$ X
330 Beusch 95 p,pol,pt
Σ^+ X
330 Beusch 95 p,pol,pt
Ξ^- X
330 Beusch 95 p,pol,pt
345 Adamovich 97 a-dep,cs,p,pt
$\Xi(1530\,P_{13})^0$ X
345 Adamovich 97C cs,p
$\Xi(1690)^0$ X
345 Adamovich 97C cs,p
Λ_c^+ X
340 Adamovich 98B p
360 Chudakov 94 p

Σ^- C

$\bar{\Lambda}_c^-$ X
340 Adamovich 98B p
$\Sigma_c(2455)^{++}$ X
360 Chudakov 94 p
$\Sigma_c(2455)^0$ X
360 Chudakov 94 p
Ξ_c^+ X
360 Chudakov 94 p
Ω_c X
340 Paul 96 p
Schmitt 96 p
Adamovich 95C p
$p\ \pi^0$ X
330 Beusch 95 mass
$p\ \pi^-$ X
330 Beusch 95 mass
$\bar{p}\ \pi^+$ X
330 Beusch 95 mass
$\Lambda\ \pi^-$ X
330 Beusch 95 mass
$\Xi^- K^- 2\pi^+$ X + $\Omega^- 2\pi^+ \pi^-$ X
340 Adamovich 95C mass

Σ^- Cu

K_S X
360 Chudakov 94 a-dep,cs
D^+ X
340 Adamovich 98B p
360 Chudakov 94 a-dep,cs,p
D^- X
340 Adamovich 98B p
360 Chudakov 94 a-dep,cs,p
D_s^+ X
340 Adamovich 98B p
D_s^- X
340 Adamovich 98B p
Λ X
330 Beusch 95 p,pol,pt
$\bar{\Lambda}$ X
330 Beusch 95 p,pol,pt
Σ^+ X
330 Beusch 95 p,pol,pt
Ξ^- X
330 Beusch 95 p,pol,pt
345 Adamovich 97 a-dep,cs,p,pt
$\Xi(1530\,P_{13})^0$ X
345 Adamovich 97C cs,p
$\Xi(1690)^0$ X
345 Adamovich 97C cs,p
Λ_c^+ X
340 Adamovich 98B p
$\bar{\Lambda}_c^-$ X
340 Adamovich 98B p
Ω_c X
340 Paul 96 p
Schmitt 96 p
Adamovich 95C p
$p\ \pi^0$ X
330 Beusch 95 mass
$p\ \pi^-$ X
330 Beusch 95 mass
$\bar{p}\ \pi^+$ X
330 Beusch 95 mass
$\Lambda\ \pi^-$ X
330 Beusch 95 mass
$\Xi^- K^- 2\pi^+$ X + $\Omega^- 2\pi^+ \pi^-$ X
340 Adamovich 95C mass

$\Sigma^- \gamma^*$

Σ^-

375	Lach 94	pol

Ξ^- nucleus

hypernucleus($S = -2$) X

0.	Nakazawa 98	cs

Ξ^- ^{12}C

dibaryon($S = -2$) X

0.	Lowe 98	cs

hypernucleus($S = -2$)

< 1.66	Aoki 95B	cs

^{9}Be$_s$ ^{4}H$_s$

< 1.66	Aoki 95B	cs

strangelet nucleus

γ mult[γ] X strangelet

?	Perilloisaac 98	p

$(\pi p)_{atom}$ p

$p\ n\ \pi^0$

0.	Badertscher 96	p

nucleus nucleus

$\mu^\pm$ X

$8 \cdot 10^5 - 1.3 \cdot 10^7$	Kasahara 97	cs,mult,p

charged$^-$ X

57.2 – 6400	Gazdzicki 95	a-dep,mult

hadron X

$10^4 - 10^5$	Aglietta 97C	angp,mult
$> 10^4$	Kawasumi 96	p

shower X

$> 5 \cdot 10^5$	Borisov 97	cs,p,pt
$10^6 - 10^8$	Vishnevskaya 98	mult

π^0 X

$> 5 \cdot 10^6$	Borisov 97	p

($e^\pm$'s) $e^\pm$ X

$> 10^4$	Kawasumi 96	cor,mult,p

e^- mult[e^-] X

$10^6 - 10^8$	Vishnevskaya 98	mult

e^+ mult[e^+] X

$10^6 - 10^8$	Vishnevskaya 98	mult

μ^- mult[μ^-] X

$10^6 - 10^8$	Vishnevskaya 98	mult

μ^+ mult[μ^+] X

$10^6 - 10^8$	Vishnevskaya 98	mult

hadron (hadrons) X

$> 10^4$	Kawasumi 96	cor,mult,p

γ (γ's) X

$10^4 - 10^5$	Aglietta 97C	angp,cor,mult
$> 10^4$	Kawasumi 96	cor,mult,p

frag p

2fragb (fragbs) X

< 50	Gaitinov 94	cs,mass

deuteron p

π^+ X

4.2	Averichev 95B	angp,pol
	Averichev 95C	angp,pol
6.5	Averichev 95B	angp,pol
	Averichev 95C	angp,pol
9	Averichev 95B	angp,pol
	Averichev 95C	angp,pol

π^- X

4.2	Averichev 95B	angp,pol

deuteron p

π^- X

	Averichev 95C	angp,pol
6.5	Averichev 95B	angp,pol
	Averichev 95C	angp,pol
7.3 – 8.9	Anisimov 97	a-dep,angp
9	Afanasiev 98C	asym,p,pol
	Averichev 95B	angp,pol
	Averichev 95C	angp,pol

p X

1.102 – 3.775	Punjabi 94	angp,p,pol
9	Azhgirey 96	angp,p,pol
	Azhgirey 94	angp,p,pol

deuteron X

4.24 – 6.5	Azhgirey 97	angp,p,pol
4.495	Azhgirey 98	angp,p
4.5	Azhgirey 95B	angp,p
5.5	Azhgirey 95B	angp,p
5.532	Azhgirey 98	angp,p
9	Azhgirey 98	angp,p

deuteron p

1.042	Sakamoto 96	angp,pol
1.102 – 3.773	Punjabi 95	angp,pol
3.5 – 6	Azhgirey 94B	angp,p,pol
3.5 – 6.5	Azhgirey 97	angp,p,pol
	Azhgirey 97B	angp,p,pol
4.5	Azhgirey 95	angp,p
5.5	Azhgirey 95	angp,p

dibaryon$^+$ p

3.3	Deloff 95	cs

^{3}He γ

< 0.01732	Schmid 96	angp,pol
0.03519	Ma 97	angp,cs,p,pol
0.1587	Browne 96	angp,pol
0.2186 – 0.2733	Schmid 96B	pol
0.4133	Anklin 98B	angp,pol

^{3}He π^0

1.284 – 1.34	Nikulin 96	cs,pol

$2p\ n$

0.4451	Qin 95	pol
3.34	Glagolev 98	angp,mass
	Glagolev 95B	angp,cs,p
3.35	Glagolev 96	angp,p
3.391	Belostotsky 97	angp,p,pol
	Belostotsky 94	angp,p,pol
	Ero 94	angp
3.5 – 6.5	Azhgirey 97	angp,p,pol
	Azhgirey 97B	angp,p,pol

$3p\ \pi^-$

3.3	Deloff 95	mass
3.34	Glagolev 98	angp,mass

$p\ 2n\ \pi^+$

3.34	Hlavacova 97	mass,p

deuteron nucleus

γ X

2.5	Troyan 94B	p

K^0 X

8.266 – 9.084	Okonov 94	angp,mult,p,pt

Λ X

8.266 – 9.084	Okonov 94	angp,mult,p,pt

(showers) 2shower X

9	Ghosh 94B	ang,col

2grey (greys) X

9	Ghosh 94B	ang,col

2black (blacks) X

9	Ghosh 94B	ang,col

grey (greys) (showers) shower X

9	Ghosh 94B	ang,col

deuteron nucleus

(showers) shower fragb (fragbs) X

9	Ghosh 94B	ang,col

grey (greys) fragb (fragbs) X

9	Ghosh 94B	ang,col

black (blacks) fragb (fragbs) X

9	Ghosh 94B	ang,col

deuteron deuteron

^{4}He X

1.568	Bargholtz 97	cs,mass
1.602	Johansson 98B	mass

^{3}He n

0.001285	Bulgakov 97	cs

^{4}He η

2.337 – 2.36	Willis 97	cs,p,pol
2.337	Wurzinger 98	angp,p,pol

He η

2.337	Frascaria 94	amp,cs
2.338	Frascaria 94	amp,cs
2.34	Frascaria 94	amp,cs
2.341	Frascaria 94	amp,cs

deuteron $p\ n$

0.2125	Felsher 97	angp,pol

^{4}He $2\pi^0$

0.569	Bargholtz 97B	p

deuteron ^{6}Li

π^+ X

9	Bondarev 94	a-dep,angp

π^- X

9	Bondarev 94	a-dep,angp

p X

9	Bondarev 94	a-dep,angp

^{6}He ^{2}He

0.6967	Xu 95	angp,cs

deuteron ^{7}Li

π^+ X

9	Bondarev 94	a-dep,angp

π^- X

9	Bondarev 94	a-dep,angp

p X

9	Bondarev 94	a-dep,angp

deuteron Be

π^- X

9	Afanasiev 98C	asym,p,pol

deuteron ^{9}Be

inelastic

0.379	Auce 96	a-dep,cs
0.5	Auce 96	a-dep,cs
0.6122	Auce 96	a-dep,cs

deuteron C

charged X

0.8289 – 2.926	Ladygin 97	angp,pol

mult[nucleon] X

8.4	Dedovich 94	angp,cor,p,pt

π^+ X

3.731	Debowski 97	angp
6.615	Sugaya 97	a-dep,angp,p
7.649	Sugaya 97	a-dep,angp,p
8.675	Sugaya 97	a-dep,angp,p
9	Bondarev 94	a-dep,angp
9.696	Sugaya 97	a-dep,angp,p

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deuteron C

π^+ X
- 11.73 Sugaya 97 a-dep,angp,p

π^0 X
- 9 Abraamyan 98 a-dep,p,pt
- Abraamyan 94C a-dep,angp,p

π^- X
- 3.4 Ermakov 94 angp,p
- 6.615 Sugaya 97 a-dep,angp,p
- 7.3 – 8.9 Anisimov 97 a-dep,angp
- 7.649 Sugaya 97 a-dep,angp,p
- 8.4 Ermakov 94 angp,p
- Bekmirzaev 93 mult,p,pt
- 8.675 Sugaya 97 a-dep,angp,p
- 9 Afanasiev 98C asym,p,pol
- Baldin 94 a-dep,cs
- Bondarev 94 a-dep,angp
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

ω X + ρ X
- 400 Baglin 98B cs

K^+ X
- 3.731 Debowski 97 angp
- 6.615 Sugaya 97 a-dep,angp,p
- 7.649 Sugaya 97 a-dep,angp,p
- 8.675 Sugaya 97 a-dep,angp,p
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

K^- X
- 6.615 Sugaya 97 a-dep,angp,p
- 7.649 Sugaya 97 a-dep,angp,p
- 8.675 Sugaya 97 a-dep,angp,p
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

$\phi(1020)$ X
- 400 Baglin 98B cs

p X
- 1.616 Peterson 94 angp,p,pol
- 6 – 9 Aono 95 angp,asym,pol
- Chernykh 94 angp,p,pol
- 8.4 Simic 98 a-dep,p
- Backovic 94 p
- Bekmirzaev 94 angp,mult,p,pt
- 9 Bondarev 94 a-dep,angp
- Nomofilov 94 pol

$\bar{p}$ X
- 6.615 Sugaya 97 a-dep,angp,p
- 7.649 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p
- 8.675 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p
- 8.982 Baldin 95 a-dep,angp
- 9.696 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p
- 11.73 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p

mult[p] mult[π^-] X
- 8.4 Kuznetsov 97C cor

mult[π^-] mult[frag] X
- 8.4 Kuznetsov 96 mult

2γ X
- 9 Abraamyan 94C angp,mass

mult[p] π^- X
- 8.4 Kuznetsov 97B mult,p

p mult[p] X
- 8.4 Suleimanov 98 angp,mult,p
- Kuznetsov 97B mult,p

$2p$ X
- 5.5 Anisimov 98 cor,p

deuteron C

2charged (chargeds) X
- 8.4 Angelov 94 col,cor

$2p$ (p's) X
- 8.4 Bazarov 94 angp,col

deuteron ^{12}C

inelastic
- 0.379 Auce 96 a-dep,cs
- 0.5 Auce 96 a-dep,cs
- 0.6122 Auce 96 a-dep,cs

π^+ X
- 0.8 Baldin 95B asym
- 1 Baldin 95B asym
- 3.8 Averichev 95C angp,pol
- 4.2 Averichev 95B angp,pol
- 6.2 – 9 Anisimov 95 asym
- 6.5 Averichev 95B angp,pol
- Averichev 95C angp,pol
- 7.4 Afanasiev 97 asym,cs
- 8.4 Bondarenko 98C angp,mult,p,pt
- 9 Afanasiev 97 asym,cs
- Averichev 95B angp,pol

π^- X
- 0.8 Baldin 95B asym
- 1 Baldin 95B asym
- 3.8 Averichev 95C angp,pol
- 4.2 Averichev 95B angp,pol
- 6.2 Afanasiev 97 asym,cs
- 6.2 – 9 Anisimov 95 asym
- 6.5 Averichev 95B angp,pol
- Averichev 95C angp,pol
- 7 Afanasiev 97 asym,cs
- 7.4 Afanasiev 97 asym,cs
- 8.4 Bondarenko 98C angp,mult,p,pt
- 8.6 Afanasiev 97 asym,cs
- 9 Afanasiev 97 asym,cs
- Averichev 95B angp,pol

K^+ X
- 0.8 Baldin 95B asym
- 1 Baldin 95B asym

p X
- 0.8 Baldin 95B asym
- 0.8889 Morlet 94 angp,p,pol
- 1 Baldin 95B asym
- 5.8 – 9 Azhgirey 96B angp,p,pol
- 6 – 9 Kuehn 94 angp,pol
- 8.4 Bondarenko 98C angp,mult,p,pt
- 9 Afanasiev 98 angp,p,pol
- Afanasiev 98B angp,mass,p,pol
- Azhgirey 98B angp,asym,p,pol
- Azhgirey 96 angp,p,pol
- Averichev 95B angp,pol

deuteron X
- 4.495 Azhgirey 98 angp,p
- 4.5 Azhgirey 95B angp,p
- 5.5 Azhgirey 95B angp,p
- 5.532 Azhgirey 98 angp,p
- 9 Afanasiev 98B angp,mass,p,pol
- Azhgirey 98 angp,p
- Azhgirey 98B angp,asym,p,pol

^{2}He X
- 1.042 Okamura 94 angp,pol

(p's) ($\pi^{\pm}$'s) X
- 8.4 Bondarenko 96 angp,mult,p,pt

π^+ X star
- 8.4 Bondarenko 98C angp,mult,p,pt

π^- X star
- 8.4 Bondarenko 98C angp,mult,p,pt

deuteron ^{12}C

p X star
- 8.4 Bondarenko 98C angp,mult,p,pt

$2p$ X
- 2.926 Sams 95 angp,p
- 3.391 Sams 95 angp,p

^{12}Bor ^{2}He
- 0.6967 Xu 95 angp,cs
- 1.042 Okamura 94 angp,pol

^{11}C ^{3}H
- 0.8889 Vandewiele 94 angp,p,pol

^{12}C deuteron
- 4.5 Azhgirey 95 angp,p
- 5.5 Azhgirey 95 angp,p

deuteron ^{13}C

^{13}Bor ^{2}He
- 0.6967 Xu 95 angp,cs

deuteron ^{16}O

inelastic
- 0.379 Auce 96 a-dep,cs
- 0.5 Auce 96 a-dep,cs
- 0.6122 Auce 96 a-dep,cs

^{15}O ^{3}H
- 0.8889 Vandewiele 94 angp,p,pol

deuteron ^{24}Mg

^{24}Na ^{2}He
- 0.6967 Xu 95 angp,cs
- 1.042 Niizeki 94 angp,cs

deuteron ^{26}Mg

^{26}Na ^{2}He
- 1.042 Niizeki 94 angp,cs

deuteron Al

π^+ X
- 9 Bondarev 94 a-dep,angp
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

π^- X
- 9 Baldin 94 a-dep,cs
- Bondarev 94 a-dep,angp
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

K^+ X
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

K^- X
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

p X
- 9 Bondarev 94 a-dep,angp

$\bar{p}$ X
- 7.649 Chiba 94 a-dep,p
- 8.675 Chiba 94 a-dep,p
- 9.696 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p
- 11.73 Sugaya 97 a-dep,angp,p
- Chiba 94 a-dep,p

deuteron Si

π^+ X
- 9 Bondarev 94 a-dep,angp

π^- X
- 9 Bondarev 94 a-dep,angp

p X
- 9 Bondarev 94 a-dep,angp

deuteron ^{28}Si

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
^{28}Al ^{2}He
1.042 Niizeki 94 angp,cs

deuteron Ca

p X
1.616 Peterson 94 angp,p,pol
e^- e^+ X
3.391 Porter 98 mass
Porter 97 a-dep,mass

deuteron ^{40}Ca

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
p X
0.8889 Morlet 94 angp,p,pol
^{40}Ca deuteron
1.042 Ohnishi 98 angp,pol

deuteron ^{48}Ca

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs

deuteron ^{58}Ni

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
π^+ X
9 Bondarev 94 a-dep,angp
π^- X
9 Bondarev 94 a-dep,angp
p X
9 Bondarev 94 a-dep,angp
^{57}Ni ^{3}H
0.8889 Vandewiele 94 angp,p,pol

deuteron ^{60}Ni

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs

deuteron ^{64}Ni

π^+ X
9 Bondarev 94 a-dep,angp
π^- X
9 Bondarev 94 a-dep,angp
p X
9 Bondarev 94 a-dep,angp

deuteron Cu

π^+ X
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
8.675 Sugaya 97 a-dep,angp,p
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
π^0 X
9 Abraamyan 98 a-dep,p,pt
Abraamyan 94C a-dep,angp,p

deuteron Cu

π^- X
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
8.675 Sugaya 97 a-dep,angp,p
9 Baldin 94 a-dep,cs
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
K^+ X
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
8.675 Sugaya 97 a-dep,angp,p
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
K^- X
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
8.675 Sugaya 97 a-dep,angp,p
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
$\bar{p}$ X
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
8.675 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
9.696 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
11.73 Sugaya 97 a-dep,angp,p
Chiba 94 a-dep,p
2γ X
9 Abraamyan 94C angp,mass
$2p$ X
5.5 Anisimov 98 cor,p

deuteron ^{64}Zn

π^+ X
9 Bondarev 94 a-dep,angp
π^- X
9 Bondarev 94 a-dep,angp
p X
9 Bondarev 94 a-dep,angp

deuteron ^{90}Zr

^{89}Zr ^{3}H
0.8889 Vandewiele 94 angp,p,pol

deuteron ^{112}Sn

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs

deuteron ^{114}Sn

π^+ X
9 Bondarev 94 a-dep,angp
π^- X
9 Bondarev 94 a-dep,angp
p X
9 Bondarev 94 a-dep,angp

deuteron ^{116}Sn

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
^{115}Sn ^{3}H
0.8889 Vandewiele 94 angp,p,pol
^{116}Sn deuteron
0.8889 Vandewiele 94 angp,p,pol

deuteron ^{120}Sn

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
^{119}Sn ^{3}H
0.8889 Vandewiele 94 angp,p,pol

deuteron ^{124}Sn

inelastic
0.379 Auce 96 a-dep,cs
0.5 Auce 96 a-dep,cs
0.6122 Auce 96 a-dep,cs
π^+ X
9 Bondarev 94 a-dep,angp
π^- X
9 Bondarev 94 a-dep,angp
p X
9 Bondarev 94 a-dep,angp

deuteron Ta

mult[nucleon] X
8.4 Dedovich 94 angp,cor,p,pt
π^- X
8.4 Bekmirzaev 94B angp,mult,p,pt
p X
8.4 Simic 98 a-dep,p
Backovic 94 p
mult[π^-] mult[frag] X
8.4 Kuznetsov 96 mult
mult[grey] mult[charged$^-$] X
8.4 Garsevanishv 98 col,mult

deuteron Au

hadron$^-$ X
400 Alber 97 mult,p,pt
p X
400 Alber 97 mult,p,pt
$\bar{p}$ X
400 Alber 97 mult,p,pt
Λ X
400 Alber 97 mult,p,pt
$\bar{\Lambda}$ X
400 Alber 97 mult,p,pt

deuteron Pb

mult[n] X
2 Pienkowski 97 mult
3 Pienkowski 97 mult
4 Pienkowski 97 mult
5 Pienkowski 97 mult
π^+ X
3.731 Debowski 97 angp
6.615 Sugaya 97 a-dep,angp,p
7.649 Sugaya 97 a-dep,angp,p
9 Bondarev 94 a-dep,angp
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
π^- X
6.615 Sugaya 97 a-dep,angp,p
7.3 – 8.9 Anisimov 97 a-dep,angp
7.649 Sugaya 97 a-dep,angp,p
9 Baldin 94 a-dep,cs
Bondarev 94 a-dep,angp
9.696 Sugaya 97 a-dep,angp,p
11.73 Sugaya 97 a-dep,angp,p
K^+ X
3.731 Debowski 97 angp
6.615 Sugaya 97 a-dep,angp,p

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deuteron Pb

K^+ X
- 7.649 Sugaya 97 a-dep,angp,p
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

K^- X
- 6.615 Sugaya 97 a-dep,angp,p
- 7.649 Sugaya 97 a-dep,angp,p
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

p X
- 1.616 Peterson 94 angp,p,pol
- 9 Bondarev 94 a-dep,angp

$\bar{p}$ X
- 6.615 Sugaya 97 a-dep,angp,p
- 7.649 Sugaya 97 a-dep,angp,p
- 9.696 Sugaya 97 a-dep,angp,p
- 11.73 Sugaya 97 a-dep,angp,p

n frag (frags)
- 0.8606 Lott 97 mult,p

deuteron ^{208}Pb

inelastic
- 0.379 Auce 96 a-dep,cs
- 0.5 Auce 96 a-dep,cs
- 0.6122 Auce 96 a-dep,cs

^{3}He X
- 1.616 Yamazaki 98 angp,p

deuteron U

ω X + ρ X
- 400 Baglin 98B cs

$\phi(1020)$ X
- 400 Baglin 98B cs

dibaryon nucleus

nucleus 2Λ
- 7 − 8 Belz 96B angp,mass,p

nucleus 2p 2π^-
- 7 − 8 Belz 96B angp,mass,p

^{3}H p

p X
- 1.132 Korsheninnik 97 angp,p

^{3}H C

π^- X
- 9 Avramenko 94 angp,p

^{3}He X
- 9 Avramenko 94 p

^{3}H ^{12}C

^{3}He π^- X
- 5.979 Avramenko 96 p

^{3}H Mg

π^- X
- 9 Avramenko 94 angp,p

^{3}He X
- 9 Avramenko 94 p

^{3}He p

deuteron 2p
- 13.5 Glagolev 95B angp,cs,p
- Glagolev 94B angp,cs,p

3p n
- 13.5 Glagolev 95B cs
- Glagolev 94B angp,cs,p

^{3}He nucleus

^{18}Ne X
- 0.2366 Egorov 97 –

^{3}He ^{3}He

^{4}He 2p
- 0.01076 − 0.01175 Arpesella 96 cs

^{3}He ^{3}He

^{4}He 2p
- < 0.01672 Arpesella 97 angp,cs,p

^{3}He ^{12}C

Nit* ^{3}H
- 1.648 Harakeh 94 angp,p

^{3}He ^{71}Ga

^{71}Ge ^{3}H
- 1.648 Fujiwara 94 angp,p

Ge* ^{3}H
- 1.648 Ejiri 98 p

^{3}He ^{90}Zr

^{90}Zr ^{3}He
- 1.648 Yamagata 94 ang

^{90}Nb ^{3}H
- 1.648 Fujiwara 94 angp,p

^{3}He Ag

mult[charged] X
- 3.647 Morley 96 a-dep,angp,mult,p
- 5.752 Morley 96 a-dep,angp,mult,p
- 7.062 Morley 96 a-dep,angp,mult,p

mult[n] X
- 3.896 Pienkowski 94 mult

mult[frag] X
- 3.647 Foxford 96 a-dep,angp,cs,mult,p
- Morley 96 a-dep,angp,mult,p
- Morley 95 mult,p
- 5.752 Foxford 96 a-dep,angp,cs,mult,p
- Morley 96 a-dep,angp,mult,p
- Morley 95 mult,p
- 7.062 Foxford 96 a-dep,angp,cs,mult,p
- Morley 96 a-dep,angp,mult,p
- Kwiatkowski 95 mult,p
- Morley 95 mult,p

mult[fragt] X
- 3.647 − 7.062 Kwiatkowski 98 mult,p
- 7.062 Kwiatkowski 95 mult,p

frag X
- 3.647 Foxford 96 a-dep,angp,cs,mult,p
- 5.752 Foxford 96 a-dep,angp,cs,mult,p
- 7.062 Kwiatkowski 98B mass,p
- Foxford 96 a-dep,angp,cs,mult,p

^{3}He X
- 3.647 − 7.062 Kwiatkowski 98 p

^{4}He X
- 3.647 − 7.062 Kwiatkowski 98 p

fragt charged X
- 3.647 Brzychczyk 95 angp,mult,p
- 5.752 Brzychczyk 95 angp,mult,p
- 7.062 Brzychczyk 95 angp,mult,p

C mult[frag] X
- 7.062 Kwiatkowski 95 mult,p

C mult[fragt] X
- 7.062 Kwiatkowski 95 mult,p

mult[n] fragt charged X
- 3.896 Ledoux 98 angp,mult,p

^{3}He ^{112}Sn

^{112}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{114}Sn

^{114}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{116}Sn

^{116}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{117}Sn

^{117}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{118}Sn

^{118}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{119}Sn

^{119}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{120}Sn

^{120}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{122}Sn

^{122}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He ^{124}Sn

^{124}Sb ^{3}H
- 1.076 Pham 95 a-dep,angp,p

^{3}He Au

mult[charged] X
- 3.647 Morley 96 a-dep,angp,mult,p
- 5.752 Morley 96 a-dep,angp,mult,p
- 7.062 Morley 96 a-dep,angp,mult,p

mult[n] X
- 3.896 Pienkowski 94 mult

mult[frag] X
- 3.647 Morley 96 a-dep,angp,mult,p
- Morley 95 mult,p
- 5.752 Morley 96 a-dep,angp,mult,p
- Morley 95 mult,p
- 7.062 Morley 96 a-dep,angp,mult,p
- Morley 95 mult,p

He X
- 3.896 Ledoux 98 angp,p

Li X
- 3.896 Ledoux 98 angp,p

mult[n] fragt charged X
- 3.896 Ledoux 98 angp,mult,p

^{3}He ^{197}Au

mult[frag] X
- 7.062 Kwiatkowski 95 mult,p

mult[fragt] X
- 3.647 − 7.062 Kwiatkowski 98 mult,p
- 7.062 Kwiatkowski 95 mult,p

frag X
- 7.062 Brzychczyk 98 mass,mult
- Kwiatkowski 98B mass,p

^{3}He X
- 3.647 − 7.062 Kwiatkowski 98 p

^{4}He X
- 3.647 − 7.062 Kwiatkowski 98 p

^{3}He ^{197}Au

Li X
7.062 Wang 97F a-dep,ang,mass,mult,p

charged (chargeds) X
7.062 Wang 97F a-dep,ang,mass,mult,p

fragt charged X
3.647 Brzychczyk 95 angp,mult,p
7.062 Brzychczyk 95 angp,mult,p

Bor Be X
7.062 Wang 97F a-dep,ang,mass,mult,p

C mult[frag] X
7.062 Kwiatkowski 95 mult,p

C mult[fragt] X
7.062 Kwiatkowski 95 mult,p

Nit C X
7.062 Wang 97F a-dep,ang,mass,mult,p

Fl O X
7.062 Wang 97F a-dep,ang,mass,mult,p

Ph Na X
7.062 Wang 97F a-dep,ang,mass,mult,p

Tl < 2frag X > X
0.3432 – 0.8791 Rubehn 96C cs

^{3}He ^{208}Pb

Po < 2frag X > X
0.3432 – 0.8791 Rubehn 96C cs

^{208}Pb ^{3}He
1.648 Yamagata 94 ang

^{208}Bi ^{3}H
1.648 Harakeh 94 angp,p

^{3}He ^{209}Bi

At < 2frag X > X
0.3432 – 0.8791 Rubehn 96C cs

^{3}He Bi

mult[n] X
3.896 Pienkowski 94 mult

mult[n] fragt charged X
3.896 Ledoux 98 angp,mult,p

^{3}He U

mult[n] X
3.896 Pienkowski 94 mult

mult[n] fragt charged X
3.896 Ledoux 98 angp,mult,p

^{4}He p

X
2.7 Grechko 94 ang,angp,cs,pt

p X 0π
8.6 Sobchak 95B angp
13.6 Sobchak 95B angp

p X
8.6 Sobchak 95B angp
13.6 Sobchak 95B angp

n X 0π
8.6 Sobchak 95B angp
13.6 Sobchak 95B angp

n X
8.6 Sobchak 95B angp
13.6 Sobchak 95B angp

3p X
8.6 – 13.6 Sobchak 95 angp,cs,p

^{4}He p

^{3}He deuteron
2.7 Abdullin 92 cs

^{4}He p
2.7 Abdullin 92 cs
5.353 Alkhazov 97 angp,cs,p

2deuteron p
2.7 Grechko 94 ang,angp,cs,pt
Abdullin 92 cs
8.6 Glagolev 95B cs
8.6 – 13.6 Sobchak 95 angp,cs,p
13.48 Glagolev 95B cs

^{3}H 2p
2.7 Blinov 95B ang,angp,cs
Abdullin 92 cs
5 Chadeeva 97 angp,p
8.6 Glagolev 98 angp,mass
Glagolev 95B cs
8.6 – 13.6 Sobchak 95 angp,cs,p
13.48 Glagolev 95B cs
13.6 Glagolev 98 angp,mass

^{3}He p n
2.7 Blinov 95B ang,angp,cs
Abdullin 92 cs
5 Chadeeva 97 angp,p
8.6 Glagolev 98 angp,mass
Glagolev 95B angp,cs
8.6 – 13.6 Sobchak 95 angp,cs,p
13.48 Glagolev 95B angp,cs

deuteron 2p n
2.7 Abdullin 92 cs
8.6 Glagolev 95B angp,cs
8.6 – 13.6 Sobchak 95 angp,cs,p
13.48 Glagolev 95B angp,cs

^{3}H p n π^+
8.6 Glagolev 98B angp,mass,p
Glagolev 97 mass,p

^{4}He nucleus

inelastic
243.7 Elnadi 94 cs

mult[shower] X
243.7 Elnadi 94 mult

mult[grey] X
243.7 Elnadi 94 mult

mult[htrack] X
243.7 Elnadi 94 mult

shower X
243.7 Elnadi 94 mult

grey X
243.7 Elnadi 94 mult

htrack X
243.7 Elnadi 94 mult

black X
243.7 Elnadi 94 mult

p X
16.8 Bondarenko 98B angp

fragb X
16.8 Bondarenko 98B angp

mult[htrack] shower X
243.7 Elnadi 94 mult

mult[htrack] grey X
243.7 Elnadi 94 mult

mult[htrack] black X
243.7 Elnadi 94 mult

(showers) 2shower X
18 Ghosh 94B ang,col

2grey (greys) X
18 Ghosh 94B ang,col

2black (blacks) X
18 Ghosh 94B ang,col

grey (greys) (showers) shower X
18 Ghosh 94B ang,col

^{4}He nucleus

(showers) shower fragb (fragbs) X
18 Ghosh 94B ang,col

grey (greys) fragb (fragbs) X
18 Ghosh 94B ang,col

black (blacks) fragb (fragbs) X
18 Ghosh 94B ang,col

^{4}He deuteron

^{4}He deuteron
7 Morsch 94 angp

^{4}He ^{4}He

2^{4}He
0.9451 Warner 94 ang

^{5}He ^{3}He
0.9451 Warner 94 ang,angp,p

^{8}Be γ
0.497 – 0.5119 Debraeckelee 95 p

^{4}He Li

inelastic
18 Besliu 98 cs

jet X
18 Besliu 98 col

π^- X
18 Besliu 98 mult,pt

^{4}He C

π^+ X
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

π^0 X
18 Abraamyan 98 a-dep,p,pt
Abraamyan 92 a-dep,cs,p,pt

π^- X
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
16.8 Ermakov 94 angp,p
Bekmirzaev 93 mult,p,pt
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

K^+ X
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

p X
16.8 Bekmirzaev 94 angp,mult,p,pt

$\bar{p}$ X
11.12 – 23.43 Chiba 94 a-dep,p
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

mult[p] mult[π^-] X
16.8 Kuznetsov 97C cor

2γ X
18 Abraamyan 92 mass

mult[p] π^- X
16.8 Suleimanov 98B mult,p
Kuznetsov 97B mult,p

p mult[p] X
16.8 Suleimanov 98 angp,mult,p
Suleimanov 98B mult,p
Kuznetsov 97B mult,p

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^{4}He ^{12}C

π^+ X
16.8 Bondarenko 98C angp,mult,p,pt

π^- X
16.8 Bondarenko 98C angp,mult,p,pt

p X
16.8 Bondarenko 98C angp,mult,p,pt

(p's) ($\pi^\pm$'s) X
16.8 Bondarenko 96 angp,mult,p,pt

π^+ X star
16.8 Bondarenko 98C angp,mult,p,pt

π^- X star
16.8 Bondarenko 98C angp,mult,p,pt

p X star
16.8 Bondarenko 98C angp,mult,p,pt

^{12}C ^{4}He
7 Morsch 94 angp

^{4}He Al

inelastic
18 Besliu 98 cs

jet X
18 Besliu 98 col

π^+ X
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

π^- X
18 Besliu 98 mult,pt
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

K^+ X
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

$\bar{p}$ X
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

$\pi^\pm$ charged X
17.74 Adyasevich 94B angp,cor

$2p$ X
17.74 Adyasevich 94 angp,cor

^{4}He ^{27}Al

^{12}C X
0.6125 Mukherjee 95 angp,p
0.6714 Mukherjee 95 angp,p

^{16}O X
0.6125 Mukherjee 95 angp,p
0.6714 Mukherjee 95 angp,p

^{4}He Si

inelastic
0.7763 – 1.359 Warner 96 cs

^{4}He Cu

inelastic
18 Besliu 98 cs

jet X
18 Besliu 98 col

π^+ X
11.12 Sugaya 97 a-dep,angp,p
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

π^0 X
18 Abraamyan 98 a-dep,p,pt

^{4}He Cu

π^0 X
Abraamyan 92 a-dep,cs,p,pt

π^- X
11.12 Sugaya 97 a-dep,angp,p
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
18 Besliu 98 mult,pt
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

K^+ X
11.12 Sugaya 97 a-dep,angp,p
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

$\bar{p}$ X
11.12 Sugaya 97 a-dep,angp,p
11.12 – 23.43 Chiba 94 a-dep,p
13.21 Sugaya 97 a-dep,angp,p
15.28 Sugaya 97 a-dep,angp,p
17.33 Sugaya 97 a-dep,angp,p
19.37 Sugaya 97 a-dep,angp,p
23.43 Sugaya 97 a-dep,angp,p

2γ X
18 Abraamyan 92 mass

^{4}He Ag

frag X
16 Todorovic 98 cs,mult,p

fragt X
1.237 Zhang 97 a-dep,angp,cs,p

^{4}He Ta

π^- X
16.8 Bekmirzaev 94B angp,mult,p,pt

^{4}He Au

frag X
16 Todorovic 98 cs,mult,p

fragt X
1.237 Zhang 97 a-dep,angp,cs,p

^{4}He ^{197}Au

(fragts) X
4 – 14.4 Lips 94C ang,mass,mult

mult[frag] X
6.768 Lips 94 mult
17.74 Lips 94 mult

frag mult[charged] X
6.768 Lips 94 mass,mult
17.74 Lips 94 mass,mult

2frag X
6.768 Lips 94 cor,p
17.74 Lips 94 cor,p

fragt fragb X
17.74 Lips 94B ang,cor

2frag (frags) X
17.94 Shmakov 95 ang,cor

^{4}He Pb

inelastic
18 Besliu 98 cs

mult[charged] (neutrals)
$> 2 \cdot 10^1$ Apanasenko 94 mult,p

jet X
18 Besliu 98 col

π^- X
18 Besliu 98 mult,pt

^{4}He Pb

frag X
16 Todorovic 98 cs,mult,p

$\pi^\pm$ charged X
17.74 Adyasevich 94B angp,cor

$2p$ X
17.74 Adyasevich 94 angp,cor

n frag (frags)
1.281 Lott 97 mult,p

^{4}He ^{232}Th

3frag (frags) X
1.237 Chen 96B angp,mass,p

^{4}He U

frag X
16 Todorovic 98 cs,mult,p

He nucleus

K^0 X
16.51 – 18.15 Okonov 94 angp,mult,p,pt

Λ X
16.51 – 18.15 Okonov 94 angp,mult,p,pt

He He

2He
1.228 Cowley 94 ang,angp,p

^{6}Li deuteron + ^{6}Li p n
0.68 – 1.098 Mercer 97 cs

^{6}Li deuteron
0.68 – 1.098 Mercer 97 cs

^{7}Li p
0.68 – 1.098 Mercer 97 cs

^{7}Be n
0.68 – 1.098 Mercer 97 cs

^{6}He $2p$
0.68 – 1.098 Mercer 97 cs

^{6}Li p n
0.68 – 1.098 Mercer 97 cs

He Li

inelastic
18 Albaaj 94 cs

mult[charged] X
18 Albaaj 94 mult

mult[charged$^-$] X
18 Albaaj 94 mult

charged X
18 Albaaj 94 mult

charged$^-$ X
18 Albaaj 94 angp,mult,p,pt

π^- X
18 Anikina 98 angp,p,pt

π^- X 0fragb
18 Chkhaidze 95 angp,mult,p

He ^{6}Li

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{7}Li

π^+ X
18 Bondarev 94 a-dep,angp

He ^{7}Li

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{9}Be

^{5}He 2He
1.228 Cowley 94 ang,angp,p
2.159 Nadasen 99 ang,angp,cs,p

He C

π^+ X
7.447 Debowski 97 angp
18 Bondarev 94 a-dep,angp

π^0 X
18 Abraamyan 94C a-dep,angp,p

π^- X 0fragb
18 Chkhaidze 95 angp,mult,p

π^- X
18 Anikina 98 angp,p,pt
Bondarev 94 a-dep,angp

K^+ X
7.447 Debowski 97 angp

p X
16.8 Backovic 94 p
18 Bondarev 94 a-dep,angp

mult[π^-] mult[frag] X
16.8 Kuznetsov 96 mult

mult[shower] mult[frag] X
18 Jipa 95 angp,mult

2γ X
18 Abraamyan 94C angp,mass

2charged (chargeds) X
16.8 Angelov 94 col,cor

$2p$ (p's) X
16.8 Aslanyan 96 angp,cor,mult,p

He ^{12}C

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

^{8}Be 2He
1.237 Steyn 99 cs,p
2.159 Nadasen 99 ang,angp,cs,p

He ^{16}O

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

He Ne

mult[shower] mult[frag] X
18 Jipa 95 angp,mult

He Al

π^+ X
18 Bondarev 94 a-dep,angp

He Al

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

mult[shower] mult[frag] X
18 Jipa 95 angp,mult

He Si

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{28}Si

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

He Ca

$e^- e^+$ X
6.77 Porter 98 mass
Porter 97 a-dep,mass

He ^{40}Ca

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

He ^{48}Ca

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

He ^{58}Ni

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{60}Ni

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

He ^{64}Ni

π^+ X
18 Bondarev 94 a-dep,angp

He ^{64}Ni

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He Cu

π^0 X
18 Abraamyan 94C a-dep,angp,p

mult[shower] mult[frag] X
18 Jipa 95 angp,mult

2γ X
18 Abraamyan 94C angp,mass

He ^{64}Zn

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{114}Sn

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He ^{124}Sn

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

π^+ X
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

p X
18 Bondarev 94 a-dep,angp

He Ta

p X
16.8 Backovic 94 p

mult[grey] mult[charged$^-$] X
16.8 Garsevanishv 98 col,mult

He Pb

π^+ X
7.447 Debowski 97 angp
18 Bondarev 94 a-dep,angp

π^- X
18 Bondarev 94 a-dep,angp

K^+ X
7.447 Debowski 97 angp

p X
18 Bondarev 94 a-dep,angp

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He Pb

mult[shower] mult[frag] X
18 Jipa 95 angp,mult

He ^{208}Pb

inelastic
0.7491 Auce 94 a-dep,cs
0.8833 Auce 94 a-dep,cs
0.9904 Auce 94 a-dep,cs
1.103 Auce 94 a-dep,cs
1.214 Auce 94 a-dep,cs

^{6}He p

p X
2.223 Korsheninnik 97 angp,p
^{4}He p X
2.223 Korsheninnik 97 angp,p
^{4}He p n X
2.223 Korsheninnik 97 angp,p
^{6}He p
1.689 Cortinagil 97 angp
8.161 Alkhazov 97 angp,cs,p
^{6}Li n
2.559 Brown 96C angp
^{6}Li* n
2.559 Brown 96C angp

^{6}He Si

inelastic
1.164 – 2.038 Warner 96 cs

^{6}He ^{209}Bi

frag (frags)
0.4612 – 0.5799
Kolata 98 cs
^{212}At 3n
0.4612 – 0.5799
Kolata 98 cs

^{8}He p

^{8}He p
10.46 Alkhazov 97 angp,cs,p

^{8}He C

^{6}He 2n X
5.683 Nilsson 96 cs,p

^{8}He Si

inelastic
1.553 – 2.717 Warner 96 cs

^{6}Li p

fragb X
6.804 Webber 98 a-dep,cs

^{6}Li nucleus

inelastic
27 Elsharkawy 94 cs
mult[shower] X
27 Elsharkawy 94 mult
mult[shower] X 0fragb
27 Elsharkawy 94 mult
grey X
27.22 Elnadi 98 mult
black X
27.22 Elnadi 98 mult
p X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
Lepekhin 94B p,pt
fragb X
27 Lepekhin 95 cs,p,pt
deuteron X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
Lepekhin 94B p,pt

^{6}Li nucleus

^{3}H X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
^{3}He X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
Lepekhin 94B p,pt
^{4}He X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
Lepekhin 94B p,pt
^{6}He X
27 Lepekhin 98 cs,pt
Lepekhin 95 cs,p,pt
Lepekhin 94B p,pt
mult[grey] shower X
27.22 Elnadi 98 mult
mult[black] shower X
27.22 Elnadi 98 mult
mult[black] grey X
27.22 Elnadi 98 mult
black mult[grey] X
27.22 Elnadi 98 mult

^{6}Li Si

inelastic
1.164 – 2.038 Warner 96 cs

^{7}Li p

^{7}Li p
2.556 Cortinagil 97 angp

^{7}Li nucleus

inelastic
26.74 Yasin 95 a-dep,cs
37.46 Yasin 95 a-dep,cs
shower X
31.76 Elnadi 94C p
grey X
20.93 Elnadi 98 mult
31.76 Elnadi 94C p
black X
20.93 Elnadi 98 mult
31.76 Elnadi 94C p
fragb X
26.74 Yasin 95 a-dep,cs
hadron (hadrons) X
37.46 Yasin 95 a-dep,cs
mult[grey] shower X
20.93 Elnadi 98 mult
mult[htrack] shower X
31.76 Elnadi 94C mult,p
mult[black] shower X
20.93 Elnadi 98 mult
2shower X
28.7 Elnaghy 94 cor,p
mult[black] grey X
20.93 Elnadi 98 mult
black mult[grey] X
20.93 Elnadi 98 mult
Be He X
37.46 Yasin 95 a-dep,cs
(showers) 2shower X
28.7 Elnaghy 94 col
2grey (greys) X
28.7 Elnaghy 94 col
2black (blacks) X
28.7 Elnaghy 94 col
He hadron (hadrons) X
37.46 Yasin 95 a-dep,cs
3He X
37.46 Yasin 95 a-dep,cs

^{7}Li nucleus

Li 2hadron X
37.46 Yasin 95 a-dep,cs
2He hadron (hadrons) X
37.46 Yasin 95 a-dep,cs
3He hadron X
37.46 Yasin 95 a-dep,cs
Li 3hadron X
37.46 Yasin 95 a-dep,cs
Li He 2π X
37.46 Yasin 95 a-dep,cs
2Li 2π X
37.46 Yasin 95 a-dep,cs
Be He 2π X
37.46 Yasin 95 a-dep,cs
Bor p 2π X
37.46 Yasin 95 a-dep,cs
Li 4hadron X
37.46 Yasin 95 a-dep,cs
Li He 3π X
37.46 Yasin 95 a-dep,cs
Be He 3π X
37.46 Yasin 95 a-dep,cs
Li 5hadron X
37.46 Yasin 95 a-dep,cs
Li He 4π X
37.46 Yasin 95 a-dep,cs
Be He 4π X
37.46 Yasin 95 a-dep,cs
Li He 5π X
37.46 Yasin 95 a-dep,cs

^{7}Li Si

inelastic
1.358 – 2.378 Warner 96 cs

^{8}Li Si

inelastic
1.553 – 2.717 Warner 96 cs

^{9}Li Si

inelastic
1.747 – 3.057 Warner 96 cs

^{11}Li Be

n fragb X
2.531 Nilsson 95 angp

^{11}Li C

n fragb X
8.521 Nilsson 95 angp

^{11}Li Si

inelastic
2.135 – 3.736 Warner 96 cs

^{11}Li Ni

n fragb X
2.531 Nilsson 95 angp

^{11}Li Au

n fragb X
2.531 Nilsson 95 angp

^{11}Li Pb

n fragb X
8.521 Nilsson 95 angp

^{9}Be ^{208}Pb

Po ^{4}He n mult[n]
0.7668 – 0.9261
Dasgupta 99 cs,mult

^{10}Be p

^{10}Be p
3.377 Cortinagil 97 angp

^{10}Be Si

inelastic
1.941 – 3.398 Warner 96 cs

^{11}Be p

^{11}Be p
3.378 Cortinagil 97 angp

^{11}Be Be

n fragb X
3.073 Nilsson 95 angp
^{7}Li n X
3.073 Nilsson 95 angp

^{11}Be ^{9}Be

n X
3.073 Anne 94 cs
frag X
3.073 Anne 94 p
^{10}Be X
3.073 Anne 94 cs
n frag X
3.073 Anne 94 p
^{10}Be n X
3.073 Anne 94 angp

^{11}Be C

^{7}Li n X
11.37 Nilsson 95 angp
^{8}Li n X
11.37 Nilsson 95 angp

^{11}Be Ti

n X
3.073 Anne 94 cs
frag X
3.073 Anne 94 p
^{10}Be X
3.073 Anne 94 cs
n frag X
3.073 Anne 94 p
n fragb X
3.073 Nilsson 95 angp
^{7}Li n X
3.073 Nilsson 95 angp
^{10}Be n X
3.073 Anne 94 angp

^{11}Be ^{197}Au

n X
3.073 Anne 94 cs
frag X
3.073 Anne 94 p
^{10}Be X
3.073 Anne 94 cs
n frag X
3.073 Anne 94 p
^{10}Be n X
3.073 Anne 94 angp

^{8}Bor ^{208}Pb

^{7}Be* p X
0.8813 Kikuchi 98 cs,p

^{10}Bor p

fragb X
11.26 Webber 98 a-dep,cs

C p

He X
54 Ameeva 94 a-dep,pt
p (frags) (chargeds)
23.79 Kulakov 98 angp,p
51.49 Kulakov 98 angp,p

C p

(π^+'s) (π^-'s) (fragbs) X
50.4 Kuznetsov 97 ang,cor,cs

C nucleus

K^0 X
49.54 – 54.45 Okonov 94 angp,mult,p,pt
Λ X
49.54 – 54.45 Okonov 94 angp,mult,p,pt
He X
54 Ameeva 94 a-dep,pt
(showers) 2shower X
54 Ghosh 94B ang,col
2htrack (htracks) X
54 Ghosh 94B ang,col
(showers) shower fragb (fragbs) X
54 Ghosh 94B ang,col
htrack (htracks) fragb (fragbs) X
54 Ghosh 94B ang,col
nucleus ^{8}Be He
54 Belaga 95H ang,mass
nucleus 3He
50.4 Belaga 95E ang,cor,mass,pt
54 Belaga 95H ang,mass
Belaga 94 cor,pt

C ^{6}Li

π^+ X
54 Bondarev 94 a-dep,angp
π^- X
54 Bondarev 94 a-dep,angp
p X
54 Bondarev 94 a-dep,angp

C ^{7}Li

π^+ X
54 Bondarev 94 a-dep,angp
π^- X
54 Bondarev 94 a-dep,angp
p X
54 Bondarev 94 a-dep,angp

C C

π^+ X
54 Bondarev 94 a-dep,angp
π^0 X
54 Abraamyan 98 a-dep,p,pt
Abraamyan 96 a-dep,p,pt
Abraamyan 94C a-dep,angp,p
π^- X
50.4 Simic 95 p,pt
Ermakov 94 angp,p
54 Bondarev 94 a-dep,angp
p X
50.4 Simic 98 a-dep,p
Simic 95 p,pt
Backovic 94 p
54 Bondarev 94 a-dep,angp
e^- e^+ X
20.31 Porter 98 mass
Porter 97 a-dep,mass

C C

(p's) (π^+'s) (π^-'s)
50.4 Cheplakov 95 angp,col,p,pt
(π^-'s) (fragts) (fragbs)
50.4 Cheplakov 95 angp,col,p,pt
mult[p] mult[π^-] X
50.4 Kuznetsov 97C cor
mult[π^-] mult[frag] X
50.4 Kuznetsov 96 mult
mult[shower] mult[frag] X
54 Jipa 95 angp,mult
2γ X
54 Abraamyan 96 mass
Abraamyan 94C angp,mass
mult[p] π^- X
50.4 Kuznetsov 97B mult,p
Simic 95 mult,p,pt
p (frags) (chargeds)
23.79 Kulakov 98 angp,p
51.49 Kulakov 98 angp,p
p mult[p] X
50.4 Kuznetsov 97B mult,p
Simic 95 mult,p,pt
2charged (chargeds) X
50.4 Boos 95 col,cor,p
Angelov 94 col,cor
(π^+'s) (π^-'s) (fragbs) X
50.4 Kuznetsov 97 ang,cor,cs
2p (p's) X
50.4 Bazarov 95 angp,col,cor,mult
Bazarov 94 angp,col
4p (p's) X
50.4 Aslanyan 96 angp,cor,mult,p
6p (p's) X
50.4 Aslanyan 96 angp,cor,mult,p

C Ne

mult[charged] X
54 Chkhaidze 97 col,cor,mult,p,pt
π^- X 0fragb
54 Chkhaidze 95 angp,mult,p
π^- X
54 Anikina 98 angp,p,pt
p X
54 Chkhaidze 97 mult,p,pt
mult[shower] mult[frag] X
54 Jipa 95 angp,mult

C Al

π^+ X
54 Bondarev 94 a-dep,angp
π^- X
54 Bondarev 94 a-dep,angp
p X
54 Bondarev 94 a-dep,angp

C Si

π^+ X
54 Bondarev 94 a-dep,angp
π^- X
54 Bondarev 94 a-dep,angp

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C Si

p X
54 Bondarev 94 a-dep,angp

C Fe

mult[charged] (neutrals)
$> 6 \cdot 10^4$ Apanasenko 94 mult,p

charged mult[charged] X
$> 1.2 \cdot 10^4$ Apanasenko 97 angp,col,p,pt

C ^{58}Ni

π^+ X
54 Bondarev 94 a-dep,angp

π^- X
54 Bondarev 94 a-dep,angp

p X
54 Bondarev 94 a-dep,angp

C ^{64}Ni

π^+ X
54 Bondarev 94 a-dep,angp

π^- X
54 Bondarev 94 a-dep,angp

p X
54 Bondarev 94 a-dep,angp

C Cu

mult[charged] X
54 Chkhaidze 97 col,cor,mult,p,pt

π^0 X
54 Abraamyan 98 a-dep,p,pt
Abraamyan 96 a-dep,p,pt
Abraamyan 94C a-dep,angp,p

π^- X
54 Anikina 98 angp,p,pt

π^- X 0n 0fragb
54 Chkhaidze 95 angp,mult,p

p X
54 Chkhaidze 97 mult,p,pt

mult[shower] mult[frag] X
54 Jipa 95 angp,mult

2γ X
54 Abraamyan 96 mass
Abraamyan 94C angp,mass

n (n's) X
22 Bisplinghoff 94 cs
44 Bisplinghoff 94 cs

p (frags) (chargeds)
23.79 Kulakov 98 angp,p
51.49 Kulakov 98 angp,p

^{24}Na (frags) (chargeds)
23.79 Kulakov 98 angp,cs
51.49 Kulakov 98 angp,cs

C ^{64}Zn

π^+ X
54 Bondarev 94 a-dep,angp

π^- X
54 Bondarev 94 a-dep,angp

C ^{64}Zn

p X
54 Bondarev 94 a-dep,angp

C Zr

mult[shower] mult[frag] X
54 Jipa 95 angp,mult

C ^{114}Sn

π^+ X
54 Bondarev 94 a-dep,angp

π^- X
54 Bondarev 94 a-dep,angp

p X
54 Bondarev 94 a-dep,angp

C ^{124}Sn

π^+ X
54 Bondarev 94 a-dep,angp

π^- X
54 Bondarev 94 a-dep,angp

p X
54 Bondarev 94 a-dep,angp

C Ta

π^- X
50.4 Simic 95 p,pt

p X
50.4 Simic 98 a-dep,p
Simic 95 p,pt
Backovic 94 p

(p's) (π^+'s) (π^-'s)
50.4 Cheplakov 95 angp,col,p,pt

(π^-'s) (fragts) (fragbs)
50.4 Cheplakov 95 angp,col,p,pt

mult[π^-] mult[frag] X
50.4 Kuznetsov 96 mult

mult[grey] mult[charged$^-$] X
50.4 Garsevanishv 98 col,mult

mult[p] π^- X
50.4 Simic 95 mult,p,pt

2π^- X
50.4 Simic 96 cor

p mult[p] X
50.4 Simic 95 mult,p,pt

p π^- X
50.4 Simic 96 cor

2p X
50.4 Simic 96 cor

2charged (chargeds) X
50.4 Boos 95 col,cor,p

(π^+'s) (π^-'s) (fragbs) X
50.4 Kuznetsov 97 ang,cor,cs

2p (p's) X
50.4 Bazarov 95 angp,col,cor,mult
Bazarov 94 angp,col

C Pb

mult[charged] (neutrals)
$> 6 \cdot 10^4$ Apanasenko 94 mult,p

π^+ X
54 Bondarev 94 a-dep,angp

C Pb

π^- X
54 Bondarev 94 a-dep,angp

π^- X 0fragb
54 Chkhaidze 95 angp,mult,p

p X
54 Bondarev 94 a-dep,angp

charged mult[charged] X
$> 1.2 \cdot 10^4$ Apanasenko 97 angp,col,p,pt

mult[shower] mult[frag] X
54 Jipa 95 angp,mult

^{12}C p

mult[fragb] X
50.4 Belaga 95B mult

p X
50.4 Belaga 95B mult,p,pt

fragb X
50.4 Belaga 95B mult

deuteron X
50.4 Belaga 95B mult,p,pt

^{3}H X
50.4 Belaga 95B mult,p,pt

p mult[fragb] X
50.4 Belaga 95B mult,pt

2fragb X
50.4 Belaga 95B ang

deuteron mult[fragb] X
50.4 Belaga 95B mult,pt

^{3}H mult[fragb] X
50.4 Belaga 95B mult,pt

3^{4}He p
50.4 Bondarenko 94 ang,cs,pt

^{12}C nucleus

inelastic
54 Yasinelbakry 95 a-dep,cs,mult

mult[charged] X
54 Gulamov 95 cor,mult,p

mult[^{4}He] X
54 Bondarenko 98 mult

mult[shower] X
54 Ahmad 95 mult
Ahmad 94 mult

shower X
54 Ahmad 95 mult
Tariq 95 a-dep,angp
Ahmad 94 mult,p
Tariq 94 angp,p

grey X
54 Ahmad 95 mult
Tariq 94 angp,p

black X
54 Ahmad 95 mult
Tariq 94 angp,p

p X
50.4 Belyakov 98 angp,p,pt
Bondarenko 98B angp

frag X
54 Tariq 94 angp,p

fragb X
50.4 Bondarenko 98B angp
54 Ghosh 94D pt

deuteron X
50.4 Belyakov 98 angp,p,pt

^{3}H X
50.4 Belyakov 98 angp,p,pt

^{12}C nucleus

He X
50.4 Belaga 95 cs,p,pt

mult[grey] mult[shower] X
54 Ahmad 95 mult
Tariq 95 cor,mult

mult[htrack] mult[shower] X
54 Ahmad 95 mult

mult[htrack] mult[grey] X
54 Ahmad 95 mult

mult[black] mult[shower] X
54 Ahmad 95 mult
Tariq 95 cor,mult

mult[black] mult[grey] X
54 Ahmad 95 mult
Tariq 95 cor,mult

mult[htrack] mult[black] X
54 Ahmad 95 mult

2shower X
54 Ahmad 94 cor,p

fragb (fragbs) X
54 Ghosh 94D col,p,pt

2^{4}He X
54 Belaga 95D ang,mass,p

mult[black] mult[grey] mult[shower] X
54 Khan 95 a-dep,cor,mult

(showers) 2shower X
52.8 Belaga 95F ang,col,cor
54 Ahmad 94 col

2grey (greys) X
52.8 Belaga 95F ang,col,cor

2black (blacks) X
52.8 Belaga 95F ang,col,cor

nucleus 3^{4}He
50.4 Chernov 95B ang,angp,pt
54 Belaga 95I ang.cs,pt
Chernov 95B ang,angp,pt

nucleus 3He
50.4 Belaga 95 ang,cs,p,pt

nucleus 2He 2deuteron
49.14 Belaga 96 ang,cs,p,pt

nucleus 2He 2^{3}H p
49.14 Belaga 96 ang,cs,p,pt

^{12}C C

mult[fragb] X
50.4 Belaga 95G mult

π^0 X
4.304 – 6.98 Holzmann 97 cs

π^- X
50.4 Bekmirzaev 93 mult,p,pt
54 Zarubin 94 mult,p

η X
4.304 – 6.98 Holzmann 97 cs

K^+ X
17.52 – 33.36 Laue 99 angp,cs,p

K^- X
17.52 – 33.36 Laue 99 angp,cs,p

p X
50.4 Belaga 95G mult,pt
Bekmirzaev 94 angp,mult,p,pt

$\bar{p}$ X
53.83 Baldin 95 a-dep,angp

fragb X
50.4 Belaga 95G mult,pt

deuteron X
50.4 Belaga 95G mult,pt

^{3}H X
50.4 Belaga 95G mult,pt

^{12}C C

^{4}He X
50.4 Bondarenko 94 pt

mult[p] π^- X
50.4 Suleimanov 98B mult,p

p mult[p] X
50.4 Suleimanov 98 angp,mult,p
Suleimanov 98B mult,p

p mult[fragb] X
50.4 Belaga 95G mult,pt

2fragb X
50.4 Belaga 95G ang,cor

deuteron mult[fragb] X
50.4 Belaga 95G mult,pt

^{3}H mult[fragb] X
50.4 Belaga 95G mult,pt

C 3^{4}He
50.4 Bondarenko 94 ang,cs,pt

^{12}C ^{12}C

mult[frag] X
3.898 Llope 95 col,mult
4.575 Llope 95 col,mult
5.724 Llope 95 col,mult
6.712 Llope 95 col,mult

π^+ X
50.4 Bondarenko 98C angp,mult,p,pt

π^0 X
17.52 Averbeck 97 angp,mult,pt
20.31 Averbeck 97 angp,mult,pt
33.36 Averbeck 97 angp,mult,pt

π^- X
50.4 Bondarenko 98C angp,mult,p,pt

η X
17.52 Averbeck 97 angp,mult,pt
20.31 Averbeck 97 angp,mult,pt
33.36 Averbeck 97 angp,mult,pt

p X
50.4 Bondarenko 98C angp,mult,p,pt

(π^+'s) (π^-'s) X
50.4 Kulakov 97 angp

(p's) ($\pi^\pm$'s) X
50.4 Bondarenko 96 angp,mult,p,pt

π^+ X star
50.4 Bondarenko 98C angp,mult,p,pt

π^- X star
50.4 Bondarenko 98C angp,mult,p,pt

p X star
50.4 Bondarenko 98C angp,mult,p,pt

^{12}Nit ^{12}Bor
6.233 Ichihara 94 angp

^{24}Na π^+
2.49 Horn 96 cs,p

^{24}Mg π^0
2.49 Horn 96 cs,p

^{12}C Al

$\pi^\pm$ charged X
53.22 Adyasevich 94B angp,cor

^{12}C Al

2p X
53.22 Adyasevich 94 angp,cor

2deuteron X
53.22 Adyasevich 94 angp,cor

2^{3}H X
53.22 Adyasevich 94 angp,cor

$\pi^\pm$ charged mult[charged] X
53.22 Adyasevich 94B angp,cor,mult

^{12}C Cu

mult[charged] X
54 Sarkisyan 95 col,cor,mult,p,pt

K_S X
54 Gazdzicki 96 mult

n X
22 Kulakov 95 mult
44 Kulakov 95 mult

$\bar{p}$ X
53.83 Baldin 95 a-dep,angp

Λ X
54 Gazdzicki 96 mult

$\bar{\Lambda}$ X
54 Gazdzicki 96 mult

^{24}Na X
26.95 Brandt 95 cs
54.04 Brandt 95 cs

charged mult[charged] X
54 Gelovani 98 col,cor,p,pt
Gogiberidze 98 col,cor,p,pt

$\pi^\pm$ charged X
53.22 Adyasevich 94B angp,cor

2p X
53.22 Adyasevich 94 angp,cor

2deuteron X
53.22 Adyasevich 94 angp,cor

2^{3}H X
53.22 Adyasevich 94 angp,cor

^{12}C Yt

fragt X
53.83 Fedorets 94 cs

^{12}C Zr

K_S X
54 Gazdzicki 96 mult

Λ X
54 Gazdzicki 96 mult

$\bar{\Lambda}$ X
54 Gazdzicki 96 mult

^{12}C Ag

frag X
2.329 Chen 94B cs

fragt X
53.83 Fedorets 94 cs

^{12}C Ta

mult[fragb] X
50.4 Belaga 95G mult

π^- X
50.4 Bekmirzaev 94B angp,mult,p,pt

p X
50.4 Belaga 95G mult,pt

fragb X
50.4 Belaga 95G mult,pt

deuteron X
50.4 Belaga 95G mult,pt

^{3}H X
50.4 Belaga 95G mult,pt

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^{12}C Ta

^{4}He X
50.4 Bondarenko 94 pt
p mult[fragb] X
50.4 Belaga 95G mult,pt
2fragb X
50.4 Belaga 95G ang,cor
deuteron mult[fragb] X
50.4 Belaga 95G mult,pt
^{3}H mult[fragb] X
50.4 Belaga 95G mult,pt
Ta 3^{4}He
50.4 Bondarenko 94 ang,cs,pt

^{12}C ^{197}Au

π^0 X
17.52 Averbeck 97 angp,mult,pt
η X
17.52 Averbeck 97 angp,mult,pt

^{12}C Pb

$\bar{p}$ X
53.83 Baldin 95 a-dep,angp
$\pi^{\pm}$ charged X
53.22 Adyasevich 94B angp,cor
2p X
53.22 Adyasevich 94 angp,cor
2deuteron X
53.22 Adyasevich 94 angp,cor
2^{3}H X
53.22 Adyasevich 94 angp,cor
(showers) 2shower X
54 Elnaghy 94 col
$\pi^{\pm}$ charged mult[charged] X
53.22 Adyasevich 94B angp,cor,mult
2grey (greys) (showers) 2shower X
54 Elnaghy 94 col

^{17}C C

^{16}C X
27.01 Baumann 98B p,pt

^{19}C C

^{18}C X
30.2 Baumann 98B p,pt

^{19}C Ta

n fragb X
4.993 Marques 96 angp,cs,p

Nit Fe

charged mult[charged] X
$> 1.4 \cdot 10^4$ Apanasenko 97 angp,col,p,pt

Nit Pb

charged mult[charged] X
$> 1.4 \cdot 10^4$ Apanasenko 97 angp,col,p,pt

^{14}Nit nucleus

mult[^{4}He] X
35 Bondarenko 98 mult
2^{4}He X
40.6 Belaga 95D ang,mass,p
(showers) 2shower X
40.6 Belaga 95F ang,col,cor
2grey (greys) X
40.6 Belaga 95F ang,col,cor

^{14}Nit nucleus

2black (blacks) X
40.6 Belaga 95F ang,col,cor

^{14}Nit Cu

frag X
2.851 Sosin 94 angp,p

^{14}Nit Ag

frag X
2.851 Sosin 94 angp,p

^{14}Nit ^{159}Tb

frag X
2.851 Sosin 94 angp,p

^{14}Nit ^{197}Au

charged X
6.203 Lou 96 angp,cs,mult,p
7.126 Lou 96 angp,cs,mult,p
7.857 Lou 96 angp,cs,mult,p
2frag X
6.203 Lou 96 cor
7.126 Lou 96 cor
7.857 Lou 96 cor

^{17}Nit Be

inelastic
23.8 Ozawa 94 cs

^{17}Nit C

inelastic
22.98 Ozawa 94 cs
23.6 Ozawa 94 cs

^{17}Nit Al

inelastic
23.39 Ozawa 94 cs

^{21}Nit Ta

n fragb (fragbs) X
5.826 Marques 96 angp,cs,p

O p

2fragb (fragbs) X
50 Gaitinov 94 cs,mass

O nucleus

K^0 X
66.04 – 72.59 Okonov 94 angp,mult,p,pt
Λ X
66.04 – 72.59 Okonov 94 angp,mult,p,pt

O Ne

mult[shower] mult[frag] X
72 Jipa 95 angp,mult

O Fe

charged mult[charged] X
$> 1.6 \cdot 10^4$ Apanasenko 97 angp,col,p,pt

O Cu

fragb X
56.05 Butsev 97 angp

O Kr

p X
3.813 – 12.89 Jakobsson 98 cs
deuteron X
3.813 – 12.89 Jakobsson 98 cs

O Au

hadron$^-$ X
3200 Alber 97 mult,p,pt

O Au

p X
3200 Alber 97 mult,p,pt
$\bar{p}$ X
3200 Alber 97 mult,p,pt
Λ X
3200 Alber 97 mult,p,pt
$\bar{\Lambda}$ X
3200 Alber 97 mult,p,pt
charged$^+$ charged$^-$ X
3200 Bachler 94C col,p,pt
Fialkowski 94 col,p,pt
2charged$^-$ X
3200 Bachler 94C col,p,pt
Fialkowski 94 col,p,pt
hadron$^+$ hadron$^-$ X
3200 Wosiek 94 cor
2hadron$^-$ X
3200 Wosiek 94 cor
2π^+ X
3200 Awes 96 ang,cor
2p X
3200 Awes 96 ang,cor
2charged (chargeds) X
3200 Bachler 94C col,p,pt
Fialkowski 94 col,p,pt

O Pb

π^- X 0fragb
72 Chkhaidze 95 angp,mult,p
π^- X
72 Anikina 98 angp,p,pt
charged mult[charged] X
$> 1.6 \cdot 10^4$ Apanasenko 97 angp,col,p,pt
mult[shower] mult[frag] X
72 Jipa 95 angp,mult

^{16}O p

mult[trit] X
52 Gulamov 96 mult
p X
52 Gulamov 96 p
deuteron X
52 Gulamov 96 p
^{3}H X
52 Gulamov 96 p
Glagolev 94 angp,cs
^{3}He X
52 Glagolev 95 angp,p
Glagolev 94 angp,cs
^{4}He X
52 Glagolev 95 angp,p
^{7}Li X
52 Glagolev 94 cs
^{7}Be X
52 Glagolev 94 cs
mult[trit] π^- X
52 Gulamov 96 mult
π^- fragb X
52 Gulamov 96 mass,mult
mult[trit] deuteron X
52 Gulamov 96 mult
deuteron fragb X
52 Gulamov 96 mass,mult
^{3}H fragb X
52 Gulamov 96 mass,mult
Glagolev 94 cs
^{3}H deuteron X
52 Glagolev 94 cs
^{3}He mult[trit] X
52 Gulamov 96 mult

^{16}O p

^{3}He fragb X
52 Gulamov 96 mass,mult
Glagolev 94 cs

^{3}He deuteron X
52 Glagolev 94 cs

^{3}He ^{3}H X
52 Glagolev 94 cs

^{4}He ^{3}H X
52 Glagolev 94 cs

^{4}He ^{3}He X
52 Glagolev 94 cs

2He X
52 Glagolev 95 ang

^{16}O nucleus

inelastic
72 Sherif 95 cs
Yasinelbakry 95 a-dep,cs,mult

mult[charged] X
46.15 Ghosh 94F col,cor,mult,p
72 Gulamov 95 cor,mult,p

mult[shower] X
72 Sherif 95 mult
233.6 Adamovich 95H mult,p
974.8 Elnadi 96B mult
3215 Elnadi 97 mult

mult[grey] X
72 Sherif 95 mult
974.8 Elnadi 96B mult
3215 Elnadi 97 mult
Adamovich 95F mult

mult[htrack] X
3215 Adamovich 95F mult

mult[black] X
974.8 Elnadi 96B mult
3215 Elnadi 97 mult
Adamovich 95F mult

black X
46.15 Ghosh 94E angp,mult

q X
960 Ghosh 96B cs

p X 0fragb
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

fragb X
46.15 Ghosh 94D pt
960 Ghosh 96B cs
974.8 Elnadi 96B mult

deuteron X 0fragb
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

^{3}He X 0fragb
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

^{4}He X
974.8 Elnadi 94 mult

^{4}He X 0fragb
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

^{4}He X 0htrack
974.8 Elnadi 94 mult

Li X
960 Ghosh 97D pt

charged (chargeds) X
974.8 Ghosh 98B angp,col

mult[shower] mult[charged$^-$] X
974.8 Elnadi 95B mult

mult[grey] mult[shower] X
974.8 Elnadi 96B cor,mult
3215 Elnadi 97 cor,mult
Adamovich 95F cor,mult

^{16}O nucleus

mult[htrack] mult[shower] X
3215 Adamovich 95F cor,mult

mult[black] mult[shower] X
974.8 Elnadi 96B cor,mult
3215 Elnadi 97 cor,mult

mult[black] mult[grey] X
72.59 Andreeva 95B cor,mult
960 Ghosh 98 angp,col,mult
974.8 Elnadi 96B cor,mult
3200 Elnadi 95C mult,p
3215 Elnadi 97 cor,mult
Adamovich 95F cor,mult
Elnadi 95 mult

2shower X
960 Mukhopadhyay 95 angp,cor,p
3200 Mukhopadhyay 95 angp,cor,p

2p X
3200 Albrecht 94E a-dep,cor

fragb (fragbs) X
46.15 Ghosh 94D col,p,pt

fragb X mult[heavy]
72 Yasinelbakry 95 a-dep,cs,mult

p fragb X
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

deuteron fragb X
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

^{3}He fragb X
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

^{4}He fragb X
974.8 Elnadi 96 cs
3215 Elnadi 96 cs

(showers) 2shower X
3215 Dabrowska 95B angp,col,p

3shower X
960 Mukhopadhyay 95 angp,cor,p
3200 Mukhopadhyay 95 angp,cor,p

2black (blacks) X
46.15 Ghosh 94E angp,col

4^{4}He X
72 Avetyan 96 ang,angp

12grey (greys) X
72.59 Andreeva 95B cs

15htrack (htracks) mult[shower] X
72 Sherif 95 cs,mult

28htrack (htracks) X
72.59 Andreeva 95B cs

nucleus 4^{4}He
72 Avetyan 96 ang,angp
Chernov 95B ang,angp,pt

nucleus 4He
72 Chernov 95 ang,angp,cor,pt

^{16}O C

fragb X
71.77 Sampsonidis 95 cs
Sampsonidis 95B cs

2π^+ X
3200 Awes 95B angp,cor

2p X
3200 Awes 95 angp,cor

^{16}O Ne

K_S X
72 Gazdzicki 96 mult

Λ X
72 Gazdzicki 96 mult

$\overline{\Lambda}$ X
72 Gazdzicki 96 mult

^{16}O Al

charged X 0fragb
233.6 Abbott 94B p

mult[charged] (neutrals) 0fragb
233.6 Abbott 94B col,mult

fragb X
71.77 Sampsonidis 95 cs
Sampsonidis 95B cs

^{16}O ^{27}Al

2n X
2.57 Deyoung 96 angp,cor,cs

^{16}O Cu

mult[charged] X
232 Tannenbaum 94 mult
233.6 Abbott 95 col,mult,p

charged X 0fragb
233.6 Abbott 94B p

mult[charged] (neutrals) 0fragb
233.6 Abbott 94B col,mult

$J/\psi(1S)$ X
3200 Baglin 98 cs
Abreu 97T a-dep,cs

fragb X
71.77 Sampsonidis 95 cs
Sampsonidis 95B cs

2charged X
233.6 Abbott 95 cor

2π^+ X
3200 Awes 95B angp,cor

$J/\psi(1S)$ (neutrals) X
3200 Abreu 97T a-dep,cs,et

2p X
3200 Awes 95 angp,cor

^{16}O Ag

fragb X
71.77 Sampsonidis 95 cs
Sampsonidis 95B cs

2π^+ X
3200 Awes 95B angp,cor

2p X
3200 Awes 95 angp,cor

^{16}O Wt

γ X
3200 Tserruya 95 cs,et,pt

π^0 X
3200 Tserruya 95 cs,et,pt

^{16}O Au

2π^+ X
3200 Awes 95B angp,cor

2p X
3200 Awes 95 angp,cor

^{16}O ^{197}Au

p X
10.28 Gaff 95 p

2p X
10.28 Gaff 95 angp,cor

^{16}O Pb

$J/\psi(1S)$ X
3200 Abreu 97T a-dep,cs

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^{16}O Pb

fragb X
71.77 Sampsonidis 95 cs
Sampsonidis 95B cs

$J/\psi(1S)$ (neutrals) X
3200 Abreu 97T a-dep,cs,et

^{16}O U

$J/\psi(1S)$ X
3200 Abreu 97T a-dep,cs

$J/\psi(1S)$ (neutrals) X
3200 Abreu 97T a-dep,cs,et

^{22}O Ta

n fragb (fragbs) X
6.657 Marques 96 angp,cs,p

^{17}Fl Be

inelastic
23.18 Ozawa 94 cs

^{17}Fl C

inelastic
21.73 Ozawa 94 cs
22.77 Ozawa 94 cs

^{17}Fl Al

inelastic
22.56 Ozawa 94 cs

^{19}Fl p

fragb X
21.25 Webber 98 a-dep,cs

^{24}Fl Ta

n fragb (fragbs) X
7.484 Marques 96 angp,cs,p

^{17}Ne Be

inelastic
22.78 Ozawa 94 cs

^{17}Ne C

inelastic
21.1 Ozawa 94 cs
22.36 Ozawa 94 cs

^{17}Ne Al

inelastic
22.78 Ozawa 94 cs

^{19}Ne p

^{20}Na γ
0.1379 – 0.1744
Michotte 96 cs

Ne p

He X
82 Ameeva 94 a-dep,pt

Ne nucleus

mult[frag] X
57.81 Weigang 98
ang,cor,mult,pt

π^+ X
33.93 Muntz 97 angp,p
Muntz 95 angp,p

K^0 X
82.68 – 90.87 Okonov 94
angp,mult,p,pt

p X
33.93 Muntz 97 angp,p
Muntz 95 angp,p

Λ X
82.68 – 90.87 Okonov 94
angp,mult,p,pt

He X
82 Ameeva 94 a-dep,pt

Ne nucleus

π^+ mult[charged] X
33.93 Muntz 95 angp,mult,p

p mult[charged] X
33.93 Muntz 95 angp,mult,p

Ne Nit

π^+ X
6.211 – 9.795 Jakobsson 97 angp,p
8.897 – 19.09 Jakobsson 97 angp,p

Ne Fl

π^+ X
33.93 Ahner 97 angp,p
55.71 Ahner 97 angp,p

π^- X
41.54 Gillitzer 96 angp,p
45.89 Gillitzer 96 angp,p
50.19 Gillitzer 96 angp,p
54.44 Gillitzer 96 angp,p

K^+ X
33.93 Ahner 97 angp,p
Elmer 96 a-dep,angp,p
55.71 Ahner 97 angp,p

Ne Na

π^+ X
33.93 Ahner 97 angp,p
55.71 Ahner 97 angp,p

π^- X
41.54 Gillitzer 96 angp,p
45.89 Gillitzer 96 angp,p
50.19 Gillitzer 96 angp,p
54.44 Gillitzer 96 angp,p

K^+ X
33.93 Ahner 97 angp,p
Elmer 96 a-dep,angp,p
55.71 Ahner 97 angp,p

Ne Ar

π^+ X
6.211 – 9.795 Jakobsson 97 angp,p
8.897 – 19.09 Jakobsson 97 angp,p

Ne Xe

π^+ X
6.211 – 9.795 Jakobsson 97 angp,p
8.897 – 19.09 Jakobsson 97 angp,p

^{20}Ne p

inelastic
13.54 Dudkin 94 cs

shower X
13.54 Dudkin 94 mult

grey X
13.54 Dudkin 94 mult

black X
13.54 Dudkin 94 mult

fragb X
15.49 Bogdanov 94 mult

^{20}Ne nucleus

shower X
13.54 Dudkin 94 mult

grey X
13.54 Dudkin 94 mult

black X
13.54 Dudkin 94 mult

fragb X
15.49 Bogdanov 94 mult,pt

^{20}Ne C

inelastic
13.54 Dudkin 94 cs

^{20}Ne Nit

inelastic
13.54 Dudkin 94 cs

^{20}Ne O

inelastic
13.54 Dudkin 94 cs

^{20}Ne Fl

π^- X
54.11 Schroeter 94 p

K^- X
54.11 Schroeter 94 p

$\bar{p}$ X
54.11 Schroeter 94 p

^{20}Ne Na

π^- X
54.11 Schroeter 94 p

K^- X
54.11 Schroeter 94 p

$\bar{p}$ X
54.11 Schroeter 94 p

^{20}Ne ^{27}Al

mult[frag] X
6.496 Llope 95 a-dep,col,mult
7.625 Llope 95 a-dep,col,mult
9.539 Llope 95 a-dep,col,mult
10.39 Llope 95 a-dep,col,mult

^{20}Ne Cu

π^- X
53.48 Schroeter 94 p

K^- X
53.48 Schroeter 94 p

$\bar{p}$ X
53.48 Schroeter 94 p

^{20}Ne Br

inelastic
13.54 Dudkin 94 cs

^{20}Ne Ag

inelastic
13.54 Dudkin 94 cs

^{20}Ne Sn

π^- X
44.7 Schroeter 94 p
49.01 Schroeter 94 p
53.27 Schroeter 94 p

K^- X
44.7 Schroeter 94 p
49.01 Schroeter 94 p
53.27 Schroeter 94 p

$\bar{p}$ X
44.7 Schroeter 94 p
49.01 Schroeter 94 p
53.27 Schroeter 94 p

^{20}Ne ^{197}Au

^{194}Au X
49.22 Aumann 94 cs

^{196}Au X
49.22 Aumann 94 cs

^{20}Ne Bi

π^- X
52.84 Schroeter 94 p

K^- X
52.84 Schroeter 94 p

$\bar{p}$ X
52.84 Schroeter 94 p

^{21}Ne p

fragb X
23.38 Webber 98 a-dep,cs

^{22}Ne p

fragb X
18.98 – 34.54 Chen 94 cs

^{22}Ne nucleus

mult[charged] X
99 Gulamov 95 cor,mult,p
mult[^{4}He] X
90.2 Bondarenko 98 mult
mult[black] mult[grey] X
90.81 Andreeva 95B cor,mult
(showers) shower X
90.2 Elnaghy 95 angp,col,mult
2^{4}He X
90.2 Belaga 95D ang,mass,p
2charged (chargeds) X
90.2 Boos 95 col,cor,p
(showers) 2shower X
90.2 Belaga 95F ang,col,cor
Elnaghy 94 col
2grey (greys) X
90.2 Belaga 95F ang,col,cor
2black (blacks) X
90.2 Belaga 95F ang,col,cor
5charged (chargeds) X
90.2 Zhumanov 94 angp,col,cor,p
2grey (greys) (showers) 2shower X
90.2 Elnaghy 94 col
12grey (greys) X
90.81 Andreeva 95B cs
28htrack (htracks) X
90.81 Andreeva 95B cs

^{22}Na p

fragb X
24.25 Webber 98 a-dep,cs

^{23}Na p

fragb X
25.51 Webber 98 a-dep,cs

Na C

inelastic
36.49 Suzuki 95 cs

^{24}Mg p

fragb X
26.37 Webber 98 a-dep,cs

^{24}Mg nucleus

inelastic
108 Jilany 95 cs
mult[^{4}He] X
108 Bondarenko 98 mult
mult[shower] X
108 Jilany 95 a-dep,mult
mult[grey] X
108 Jilany 95 a-dep,mult
mult[black] X
108 Jilany 95 a-dep,mult
fragb X
108 Elnadi 95E a-dep,mult
Ghosh 94D pt
2charged (chargeds)
108 Ghosh 97 col,cor,p
shower X heavy
108 Elnadi 95E a-dep,mult
2shower X
108 Elnaghy 94 cor,p
fragb (fragbs) X
108 Ghosh 94D col,p,pt
2^{4}He X
108 Belaga 95D ang,mass,p
(showers) 2shower X
108 Elnaghy 94 col

^{24}Mg nucleus

(showers) 2shower X
Ghosh 94B ang,col
2grey (greys) X
108 Elnaghy 94 col
Ghosh 94B ang,col
2black (blacks) X
108 Elnaghy 94 col
Ghosh 94B ang,col
grey (greys) (showers) shower X
108 Ghosh 94B ang,col
black (blacks) (showers) shower X
108 Ghosh 94B ang,col
black (blacks) grey (greys) X
108 Ghosh 94B ang,col
(showers) shower fragb (fragbs) X
108 Ghosh 94B ang,col
grey (greys) fragb (fragbs) X
108 Ghosh 94B ang,col

^{24}Mg C

fragb X
107.7 Sampsonidis 95 cs

^{24}Mg ^{24}Mg

(π^-'s) X
108 Kulakov 97 angp

^{24}Mg Al

fragb X
107.7 Sampsonidis 95 cs

^{24}Mg Cu

fragb X
107.7 Sampsonidis 95 cs

^{24}Mg Ag

fragb X
107.7 Sampsonidis 95 cs

^{24}Mg Pb

fragb X
107.7 Sampsonidis 95 cs
(showers) 2shower X
108 Elnaghy 94 col
2grey (greys) (showers) 2shower X
108 Elnaghy 94 col

Mg p

He X
108 Ameeva 94 a-dep,pt

Mg nucleus

K^0 X
99.29 – 109.1 Okonov 94 angp,mult,p,pt
Λ X
99.29 – 109.1 Okonov 94 angp,mult,p,pt
He X
108 Ameeva 94 a-dep,pt

Mg Mg

mult[π^-] X 0fragb
103.2 Chkhaidze 98 cor,mult,p
mult[π^-] X
103.2 Chkhaidze 98 cor,mult,p
π^- X 0fragb
103.2 Chkhaidze 98 angp,mult,p,pt

Mg Mg

π^- X 0n 0fragb
108 Chkhaidze 95 angp,mult,p
π^- X
103.2 Anikina 98B angp,p
Chkhaidze 98 angp,mult,p,pt
Chkhaidze 96 angp,p,pt
108 Anikina 98 angp,p,pt
2π^- X
105.6 Anikina 95 cor,p
Anikina 95B cor,p,pt
7π^- (π^-'s) X
103.2 Chkhaidze 98 col,pt

Mg Pb

mult[charged] (neutrals)
$> 1.2 \cdot 10^5$ Apanasenko 94 col,mult,p

^{25}Mg p

fragb X
27.64 Webber 98 a-dep,cs

^{26}Mg p

fragb X
22.43 – 40.82 Chen 94 cs

^{26}Al p

fragb X
28.5 Webber 98 a-dep,cs

^{27}Al p

fragb X
29.74 Webber 98 a-dep,cs

Si p

He X
126 Ameeva 94 a-dep,pt

Si nucleus

He X
126 Ameeva 94 a-dep,pt

Si Al

X
408.8 Barrette 94 pt
charged X
408.8 Stocker 95 pt
hadron X
408.8 Ahle 94 cs,et,p
π^+ X
408.8 Stocker 95 p,pt
Abbott 94 p
Gonin 94 pt
Hamagaki 94 p
π^- X
408.8 Stocker 95 p,pt
Abbott 94 p
Gonin 94 pt
Hamagaki 94 p
K^+ X
324.8 Gazdzicki 96 mult
408.8 Stocker 95 p,pt
Abbott 94 p
Gonin 94 mult,p
Hamagaki 94 p
Kaufman 94C p,pt
K^- X
324.8 Gazdzicki 96 mult
408.8 Stocker 95 p,pt
Abbott 94 p
Hamagaki 94 p
Kaufman 94C p,pt
K_S X
324.8 Gazdzicki 96 mult

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Si Al

p X		
408.8	Kaufman 97	angp,p
	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	p,pt
	Hamagaki 94	p
$\bar{p}$ X		
408.8	Stocker 95	p
	Hayano 94	p
Λ X		
324.8	Gazdzicki 96	mult
deuteron X + p X		
408.8	Stocker 95	p
deuteron X		
408.8	Stocker 95	p
	Abbott 94	p
^{3}H X		
408.8	Stocker 95	cs
^{3}He X		
408.8	Stocker 95	cs
$2\pi^+$ X		
408.8	Stocker 95	cor
	Kaufman 94	cor
p mult[charged] X		
408.8	Lissauer 94C	mult,p,pt
$2p$ X		
408.8	Stocker 95	cor
	Kaufman 94	cor
deuteron mult[charged] X		
408.8	Lissauer 94C	mult,p,pt

Si Si

K^+ X		
324.8	Gazdzicki 96	mult
K^- X		
324.8	Gazdzicki 96	mult
K_S X		
324.8	Gazdzicki 96	mult
408.8	Stocker 95	p,pt
	Longacre 93	p,pt
Λ X		
324.8	Gazdzicki 96	mult
408.8	Stocker 95	p,pt
	Longacre 93	p,pt
X strangelet		
408.8	Stocker 95	cs
	Longacre 93	cs
$\pi^+ \pi^-$ X		
408.8	Stocker 95	mass
K_S mult[charged$^-$] X		
408.8	Stocker 95	cs
$p\ \pi^-$ X		
408.8	Stocker 95	mass
Λ mult[charged$^-$] X		
408.8	Stocker 95	cs

Si Cu

charged X		
408.8	Stocker 95	p,pt
π^+ X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	pt
	Hamagaki 94	p
π^- X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	pt
	Hamagaki 94	p
K^+ X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Hamagaki 94	p
K^- X		
408.8	Stocker 95	p,pt

Si Cu

K^- X		
	Abbott 94	p
	Hamagaki 94	p
p X		
408.8	Kaufman 97	angp,p
	Stocker 95	p,pt
	Abbott 94	p
	Hamagaki 94	p
$\bar{p}$ X		
408.8	Stocker 95	p
	Hayano 94	p
deuteron X		
408.8	Stocker 95	p
	Abbott 94	p
^{3}H X		
408.8	Stocker 95	cs
^{3}He X		
408.8	Stocker 95	cs

Si Pt

charged X		
408.8	Lowe 96	angp,cs
p X		
408.8	Saito 94	a-dep,angp,cs,p
X strangelet		
408.8	Lowe 96	angp,cs
deuteron X		
408.8	Saito 94	a-dep,angp,cs,p
^{3}H X		
408.8	Saito 94	a-dep,angp,cs,p
^{3}He X		
408.8	Saito 94	a-dep,angp,cs,p
^{4}He X		
408.8	Saito 94	a-dep,angp,cs,p
^{5}He$_s$ X		
408.8	Lowe 96	cs
^{6}He$_{ss}$ X		
408.8	Lowe 96	cs

Si Au

charged X		
408.8	Stocker 95	p,pt
mult[$\pi^\pm$] X		
408.8	Ogilvie 97	mult
mult[K^+] X		
408.8	Ogilvie 97	mult
mult[K^-] X		
408.8	Ogilvie 97	mult
mult[nucleon] X		
408.8	Ogilvie 97	mult
mult[deuteron] X		
408.8	Ogilvie 97	mult
hadron X		
408.8	Ahle 94	cs,et,p
π^+ X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	pt
	Hamagaki 94	p,pt
	Kaufman 94	p
π^- X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	pt
	Hamagaki 94	p,pt
	Kaufman 94	p
K^+ X		
408.8	Stocker 95	p,pt
	Abbott 94	p
	Gonin 94	mult,p

Si Au

K^+ X		
	Hamagaki 94	p
	Kaufman 94	p
	Kaufman 94C	p,pt
	Wang 94	p
K^- X		
406	Kaufman 95	p,pt
408.8	Stocker 95	p,pt
	Abbott 94	p
	Hamagaki 94	p
	Kaufman 94	p
	Kaufman 94C	p,pt
	Wang 94	p
ϕ(1020) X		
406	Kaufman 95	p
408.8	Ogilvie 97	mult,pt
	Stocker 95	p
	Kaufman 94	p
	Wang 94	p,pt
p X		
408.8	Kaufman 97	angp,p
	Stocker 95	p,pt
	Abbott 94	p
	Hamagaki 94	p,pt
	Kaufman 94	p
$\bar{p}$ X		
406	Kaufman 95	p,pt
408.8	Stephans 97	p,pt
	Stocker 95	p
	Hayano 94	p
	Kaufman 94	p
Λ X		
408.8	Ogilvie 97	mult
	Stephans 97	p,pt
	Stocker 95	p
	Kaufman 94	p
$\bar{\Lambda}$ X		
408.8	Ogilvie 97	mult
	Stephans 97	p,pt
Ξ^- X		
408.8	Ogilvie 97	mult
deuteron X		
408.8	Kaufman 97	angp,p
	Stocker 95	p
	Abbott 94	p
$2\pi^+$ X		
406	Kaufman 95	cor
408.8	Cianciolo 95	cor
	Stocker 95	cor
	Kaufman 94	cor
	Vossnack 94	cor
$2\pi^-$ X		
406	Kaufman 95	cor
408.8	Stocker 95	cor
	Kaufman 94	cor
$K^+\ \pi^+$ X		
408.8	Stocker 95	cor
	Vossnack 94	cor
$2K^+$ X		
408.8	Cianciolo 95	cor
	Stocker 95	cor
	Kaufman 94	cor
	Vossnack 94	cor
$K^+\ K^-$ X		
406	Kaufman 95	mass
408.8	Wang 94	mass
$p\ \pi^+$ X		
408.8	Stocker 95	mass
	Gonin 94	mass
$p\ \pi^-$ X		
406	Kaufman 95	mass
$\bar{p}\ \pi^+$ X		
406	Kaufman 95	mass
$p\ K^+$ X		
408.8	Stocker 95	cor
	Vossnack 94	cor
$2p$ X		
408.8	Stocker 95	cor

Si Au

2p X
Kaufman 94 cor

K^+ K^- mult[charged] X
408.8 Wang 95 mass

Si Pb

π^- X
408.8 Stocker 95 p,pt
Hemmick 94 p,pt

K^+ X
408.8 Stocker 95 p,pt

K^- X
408.8 Stocker 95 p,pt

p X
408.8 Stocker 95 p

$\bar{p}$ X
408.8 Stocker 95 p
Hayano 94 p

$\Delta(1232\,P_{33})^{++}$ X
408.8 Stocker 95 p

Λ X
408.8 Eiseman 94 angp,p

Ξ^- X
408.8 Stocker 95 p
Eiseman 94 angp,p
Longacre 93 p

deuteron X
408.8 Stocker 95 cs,p,pt

dibaryon($S=-1$) X
408.8 Longacre 95 p

^{3}H X
408.8 Stocker 95 cs,p,pt

^{3}He X
408.8 Stocker 95 cs,p,pt

2charged X
408.8 Barrette 94B cor,et,p

$2\pi^+$ X
408.8 Stocker 95 cor
Barrette 94C ang,cor,p,pt
Xu 94 cor

π^+ π^- X
408.8 Barrette 94C ang,cor,p,pt

$2\pi^-$ X
408.8 Stocker 95 cor
Barrette 94C ang,cor,p,pt
Xu 94 cor

p mult[charged] X
408.8 Lissauer 94C mult,p,pt

Λ π^- X
408.8 Eiseman 94 mass

p Σ^- X
408.8 Longacre 95 mass

deuteron mult[charged] X
408.8 Lissauer 94C mult,p,pt

2charged mult[charged] X
408.8 Barrette 94B cor,et,mult,p

p $2\pi^-$ X
408.8 Eiseman 94 mass

^{28}Si p

fragb X
30.66 Webber 98 a-dep,cs
127 Adamovich 95G cs,mass,mult
408.8 Adamovich 95G cs,mass,mult

^{28}Si nucleus

inelastic
126 Sherif 95 cs

^{28}Si nucleus

inelastic
Jilany 94 cs
Singh 94C cs

X 0fragb
127 Adamovich 95G cs
408.8 Adamovich 95G cs

mult[He] X
127 Adamovich 95G mult
408.8 Adamovich 95G mult

mult[^{4}He] X
126 Bondarenko 98 mult

mult[shower] X
126 Sherif 95 mult
Ahmad 94 mult
408.8 Adamovich 95H mult,p
Tretyakova 94 col,mult

mult[grey] X
126 Sherif 95 mult

mult[htrack] X 0fragb
127 Adamovich 95G cs,mult
408.8 Adamovich 95G cs,mult

mult[htrack] X
127 Adamovich 95G cs,mult
408.8 Adamovich 95G cs,mult

shower X
126 Tariq 95 a-dep,angp
Ahmad 94 mult,p
Jilany 94 mult
Singh 94C mult
Tariq 94 angp,p

grey X
126 Jilany 94 mult
Singh 94C mult
Tariq 94 angp,p

black X
126 Jilany 94 mult
Singh 94C mult
Tariq 94 angp,p

frag X
126 Tariq 94 angp,p

fragb X
127 Adamovich 95G cs,mass,mult
408.8 Adamovich 95G cs,mass,mult

He X
126 Singh 98B angp,cs,p

mult[grey] mult[shower] X
126 Tariq 95 cor,mult

mult[htrack] mult[fragb] X
406 Elnadi 98B mult

mult[black] mult[shower] X
126 Tariq 95 cor,mult

mult[black] mult[grey] X
126 Tariq 95 cor,mult
127 Andreeva 95B cor,mult
408.9 Andreeva 95B cor,mult

(showers) shower X
126 Elnaghy 95 angp,col,mult

mult[grey] shower X
126 Singh 94C mult

shower X mult[heavy]
126 Jilany 94 mult

2shower X
126 Ahmad 94 cor,p
406 Mukhopadhyay 95 angp,cor,p

mult[black] grey X
126 Singh 94C mult

grey X mult[heavy]
126 Jilany 94 mult

black mult[grey] X
126 Singh 94C mult

^{28}Si nucleus

black X mult[heavy]
126 Jilany 94 mult

2^4He X
126 Belaga 95D ang,mass,p

2He X
126 Singh 98B angp,cs,p

mult[He] (htracks) (showers) X
126 Singh 98B cor,mult

(showers) 2shower X
126 Ahmad 94 col
Elnaghy 94 col

3shower X
406 Mukhopadhyay 95 angp,cor,p

2grey (greys) X
126 Elnaghy 94 col

2black (blacks) X
126 Elnaghy 94 col

3He X
126 Singh 98B angp,cs,p

3fragb (fragbs) X
431.3 Jain 94B angp,cor

4He X
126 Singh 98B angp,cs,p

5He X
126 Singh 98B angp,cs,p

2grey (greys) (showers) 2shower X
126 Elnaghy 94 col

6He X
126 Singh 98B angp,cs,p

(showers) 5shower 3fragb (fragbs) X
431.3 Jain 95 col,pt

12grey (greys) X
127 Andreeva 95B cs
408.9 Andreeva 95B cs

28htrack (htracks) X
127 Andreeva 95B cs
408.9 Andreeva 95B cs

(showers) 50shower fragb X
431.3 Singh 94B col,mult,p

^{28}Si Al

hadron X
408.8 Fatyga 94 et

p X
408.8 Fatyga 94 p,pt
Ludlam 94 p

$\bar{p}$ X
408.8 Fatyga 94 cs

frag$^-$ X
408.8 Barrette 95F cs

fragb X
403.2 Barrette 95 cs,p

deuteron X
408.8 Lissauer 94B cs
Ludlam 94 p

^{3}H X
408.8 Lissauer 94B cs

^{3}He X
408.8 Lissauer 94B cs

^{6}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{9}Li X
408.8 Barrette 95C a-dep,cs,p,pt

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^{28}Si Al

^{10}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{11}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{13}Bor X
408.8 Barrette 95C a-dep,cs,p,pt

Al ^{24}Mg ^{4}He
408.8 Sonnadara 94 cs,p

^{27}Al Al p
408.8 Sonnadara 94 cs,p

^{27}Si Al n
408.8 Sonnadara 94 cs,p

Al ^{26}Mg $2p$
408.8 Sonnadara 94 cs,p

^{28}Si Cu

hadron X
408.8 Fatyga 94 et

$\bar{p}$ X
408.8 Fatyga 94 cs

frag^{-} X
408.8 Barrette 95F cs

fragb X
403.2 Barrette 95 cs,p

deuteron X
408.8 Lissauer 94B cs

^{3}H X
408.8 Lissauer 94B cs

^{3}He X
408.8 Lissauer 94B cs

^{6}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{9}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{10}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{11}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{13}Bor X
408.8 Barrette 95C a-dep,cs,p,pt

^{28}Si ^{112}Sn

p X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

deuteron X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{3}H X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{28}Si ^{112}Sn

^{3}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{4}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{6}Li X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{7}Li X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{7}Be X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{9}Be X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

fragb mult[charged] X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Ne 2^{4}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Na ^{4}He p X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Na $3p$ X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{28}Si Sn

frag^{-} X
408.8 Barrette 95F cs

fragb X
403.2 Barrette 95 cs,p

^{6}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{28}Si Sn

^{8}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{9}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{10}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{11}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{13}Bor X
408.8 Barrette 95C a-dep,cs,p,pt

Sn ^{24}Mg ^{4}He
408.8 Sonnadara 94 cs,p

Sn ^{27}Al p
408.8 Sonnadara 94 cs,p

Sn ^{27}Si n
408.8 Sonnadara 94 cs,p

Sn ^{26}Mg $2p$
408.8 Sonnadara 94 cs,p

^{28}Si ^{124}Sn

p X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

deuteron X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{3}H X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{3}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{4}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{6}Li X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{7}Li X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{7}Be X
6.673 Laforest 99 a-dep,angp,cs,p

^{28}Si ^{124}Sn

^{7}Be X
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{9}Be X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

fragb mult[charged] X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Ne 2^{4}He X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Na ^{4}He p X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

Na 3p X
6.673 Laforest 99 a-dep,angp,cs,p
7.725 Laforest 99 a-dep,angp,cs,p
8.66 Laforest 99 a-dep,angp,cs,p

^{28}Si ^{196}Au

K^+ X
408.8 Akiba 96 p,pt

K^- X
408.8 Akiba 96 p,pt

ϕ(1020) X
408.8 Akiba 96 p,pt

K^+ K^- X
408.8 Akiba 96 mass

^{28}Si Au

2π^- X
408.8 Kaufman 97B cor,p

^{28}Si Pb

charged X
408.8 Fatyga 94 angp,mult

hadron X
408.8 Fatyga 94 et

$\pi^\pm$ X
408.8 David 97 angp,p

π^- X
408.8 Barrette 95G pt
Ludlam 94 p,pt

K^+ X
408.8 Ludlam 94 p,pt

K^- X
408.8 Ludlam 94 p,pt

K_S X
408.8 Eiseman 95B p,pt

p X
408.8 David 97 angp,p
Fatyga 94 p,pt
Ludlam 94 p

$\bar{p}$ X
408.8 Fatyga 94 cs

^{28}Si Pb

$\Delta(1232\,P_{33})^{++}$ X
408.8 Barrette 95G cs
Ludlam 94 p

frag$^-$ X
408.8 Barrette 95F cs

fragb X
403.2 Barrette 95 cs,p

deuteron X
408.8 David 97 angp,p
Lissauer 94B cs,p,pt

^{3}H X
408.8 Lissauer 94B cs,p,pt

^{3}He X
408.8 Lissauer 94B cs,p,pt

^{8}He X
408.8 Barrette 95C a-dep,cs,p,pt

^{8}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{9}Li X
408.8 Barrette 95C a-dep,cs,p,pt

^{10}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{11}Be X
408.8 Barrette 95C a-dep,cs,p,pt

^{13}Bor X
408.8 Barrette 95C a-dep,cs,p,pt

2π^+ X
408.8 Ludlam 94 cor

2π^- X
408.8 Ludlam 94 cor

p π^+ X
408.8 Barrette 95G mass

Pb ^{24}Mg ^{4}He
408.8 Sonnadara 94 cs,p

Pb ^{27}Al p
408.8 Sonnadara 94 cs,p

Pb ^{27}Si n
408.8 Sonnadara 94 cs,p

Pb ^{26}Mg 2p
408.8 Sonnadara 94 cs,p

^{29}Si p

fragb X
31.14 Webber 98 a-dep,cs

^{30}Ph p

fragb X
32.65 Webber 98 a-dep,cs

^{31}Ph p

fragb X
33.22 Webber 98 a-dep,cs

S S

mult[charged] X
6400 Albrecht 94H et,mult

charged$^-$ X
6400 Venables 97 mult,pt
Bachler 94 cs,et,mult,p,pt
Sollfrank 94 mult

(charged-hadrons) X
6400 Seyboth 97 mult

hadron$^-$ X
6400 Alber 97 mult,p,pt
Panagiotou 95 p
Gazdzcki 94 mult

S S

γ X
6400 Viyogi 94 angp,et

π X
6400 Bachler 94 p

π^+ X
6400 Boggild 99 p,pt
Andrighetto 97 p,pt
Bearden 96B p,pt
Boggild 96 p,pt
Boggild 95C pt
Boggild 94 pt

π^0 X
6400 Albrecht 95F p,pt
Albrecht 94C pt

π^- X
6400 Andrighetto 97 p,pt
Bearden 96B p,pt
Boggild 96 p,pt
Boggild 95C pt
Boggild 95D p,pt
Boggild 94 pt

η X
6400 Albrecht 95F p,pt
Bachler 94 p

K^+ X
6400 Boggild 99 p,pt
Andrighetto 97 p,pt
Venables 97 mult,pt
Bearden 96B p,pt
Gazdzicki 96 mult
Abatzis 95C pt
Boggild 95C pt
Boggild 94 pt
Gazdzcki 94 mult
Sollfrank 94 mult

K^0 X
6400 Gazdzcki 94 mult,p

K^- X
6400 Boggild 99 p,pt
Andrighetto 97 p,pt
Venables 97 mult,pt
Bearden 96B p,pt
Gazdzicki 96 mult
Abatzis 95C pt
Boggild 95C pt
Boggild 95D p,pt
Boggild 94 pt
Gazdzcki 94 mult
Sollfrank 94 mult

K_S X
6400 Seyboth 97 mult,p,pt
Gazdzicki 96 mult
Panagiotou 95 p

p X
6400 Bearden 98B p,pt
Bearden 98C pt
Alber 97 mult,p,pt
Andrighetto 97 p,pt
Bearden 96B p,pt
Boggild 95C p,pt
Bachler 94 cs,et,mult,p,pt
Boggild 94 pt
Sollfrank 94 mult

$\bar{p}$ X
6400 Bearden 98B p,pt
Bearden 98C pt
Alber 97 mult,p,pt
Andrighetto 97 p,pt
Bearden 96B p,pt
Boggild 95C p,pt
Gunther 95 p,pt
Boggild 94 pt
Sollfrank 94 mult

Λ X
6400 Alber 97 mult,p,pt
Seyboth 97 mult,p,pt
Venables 97 mult,pt
Gazdzicki 96 mult
Abatzis 95 cs,p,pt

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S S

Λ X

	Abatzis 95C	cs,pt
	Andersen 95	p
	Panagiotou 95	p
	Abatzis 94C	cs
	Gazdzcki 94	mult,p
	Sollfrank 94	mult

$\overline{\Lambda}$ X

6400	Alber 97	mult,p,pt
	Seyboth 97	mult,p,pt
	Venables 97	mult,pt
	Gazdzcki 96	mult
	Abatzis 95	cs,p,pt
	Abatzis 95C	cs,pt
	Gunther 95	p,pt
	Abatzis 94C	cs
	Gazdzcki 94	mult
	Sollfrank 94	mult

Ξ X

6400	Venables 97	mult,pt

Ξ^- X

6400	Seyboth 97	mult,pt
	Abatzis 95	cs,p,pt
	Abatzis 95C	cs,pt
	Abatzis 94C	cs

$\overline{\Xi}^+$ X

6400	Seyboth 97	mult,pt
	Venables 97	mult,pt
	Abatzis 95	cs,p,pt
	Abatzis 95C	cs,pt
	Abatzis 94C	cs

μ^- μ^+ X

6400	Baglin 98C	mass

charged (chargeds) X

6400	Albrecht 94H	col,et

2charged X

6400	Albrecht 94H	cor,et

2charged$^-$ X

6400	Bachler 94C	col,p,pt
	Fialkowski 94	col,p,pt

hadron$^+$ hadron$^-$ X

6400	Wosiek 94	cor

2hadron$^-$ X

6400	Wosiek 94	cor

π^- charged$^+$ X

6400	Alvarezdelar 95	cor,p,pt

2π^- X

6400	Roland 94	cor
6430	Alber 95	cor,p,pt

K^0 $\overline{K}^0$ X

6400	Bachler 94	p

p π^+ X

6400	Abatzis 95C	mass

$\overline{p}$ π^- X

6400	Abatzis 95C	mass

nucleon $\overline{\text{nucleon}}$ X

6400	Bachler 94	p

hyperon $\overline{\text{hyperon}}$ X

6400	Bachler 94	p

Λ mult[charged$^-$] X

6400	Andersen 95	mult

Λ (charged-hadrons) X

6430	Baillie 97	mult

$\overline{\Lambda}$ (charged-hadrons) X

6430	Baillie 97	mult

Λ π^- X

6400	Abatzis 95C	mass
	Abatzis 94C	mass

$\overline{\Lambda}$ π^+ X

6400	Abatzis 95C	mass
	Abatzis 94C	mass

Ξ^- (charged-hadrons) X

6430	Baillie 97	mult

$\overline{\Xi}^+$ (charged-hadrons) X

6430	Baillie 97	mult

S S

2charged (chargeds) X

6400	Bachler 94C	col,p,pt
	Fialkowski 94	col,p,pt

2π^+ charged X

6400	Kaimi 97	col,cor,mult,p,pt

S Cu

2π^- X

6400	Panagiotou 95	cor

S Ag

(charged-hadrons) X

6400	Seyboth 97	mult,p

hadron$^-$ X

6400	Alber 97	mult,p,pt
	Panagiotou 95	p,pt
	Gazdzcki 94	mult

K^+ X

6400	Seyboth 97	mult
	Gazdzcki 96	mult
	Gazdzcki 94	mult

K^0 X

6400	Gazdzcki 94	mult,p

K^- X

6400	Seyboth 97	mult
	Gazdzcki 96	mult
	Gazdzcki 94	mult

K_S X

6400	Seyboth 97	mult,p
	Gazdzcki 96	mult
	Panagiotou 95	p

p X

6400	Alber 97	mult,p,pt
	Seyboth 97	p

$\overline{p}$ X

6400	Alber 97	mult,p,pt
	Seyboth 97	p
	Gunther 95	p,pt

Λ X

6400	Alber 97	mult,p,pt
	Seyboth 97	mult,p
	Gazdzcki 96	mult
	Panagiotou 95	p
	Gazdzcki 94	mult,p

$\overline{\Lambda}$ X

6400	Alber 97	mult,p,pt
	Seyboth 97	mult,p
	Gazdzcki 96	mult
	Gunther 95	p,pt
	Gazdzcki 94	mult

2π^+ X

6400	Ferenc 96	cor
6430	Panagiotou 97	cor

π^+ π^- X

6430	Panagiotou 97	cor

2π^- X

6400	Panagiotou 95	cor
	Roland 94	cor
6430	Panagiotou 97	cor
	Alber 95	cor,p,pt

2π^+ charged X

6400	Kaimi 97	col,cor,mult,p,pt

S Wt

hadron$^-$ X

6400	Abatzis 94	pt

π^+ X

6400	Antinori 97	p,pt

π^- X

6400	Antinori 97	p,pt

ω X + ρ X

6400	Gerschel 95	cs,pt
	Masera 95	p,pt

S Wt

K^+ X

6400	Abatzis 95D	cs,pt

K^0 X + $\overline{K}^0$ X

6400	Abatzis 94	pt

K^- X

6400	Abatzis 95D	cs,pt

K_S X

6400	Abatzis 96	p,pt
	Abatzis 95D	cs,pt

φ(1020) X

6400	Gerschel 95	cs,pt
	Masera 95	p,pt

p X

6400	Antinori 97	p,pt
	Borer 94	angp

$\overline{p}$ X

6400	Antinori 97	p,pt
	Borer 94	angp

Λ X

6400	Abatzis 97	p,pt
	Seyboth 97	mult,p,pt
	Abatzis 96	p,pt
	Abatzis 95D	cs,pt
	Abatzis 94	pt

$\overline{\Lambda}$ X

6400	Abatzis 97	p,pt
	Seyboth 97	mult,p,pt
	Abatzis 96	p,pt
	Abatzis 95D	cs,pt
	Abatzis 94	pt

Ξ^- X

6400	Abatzis 97	p,pt
	Seyboth 97	mult,pt
	Abatzis 95D	cs,pt
	Abatzis 95E	cs
	Abatzis 94	pt

$\overline{\Xi}^+$ X

6400	Abatzis 97	p,pt
	Seyboth 97	mult,pt
	Abatzis 95D	cs,pt
	Abatzis 95E	cs
	Abatzis 94	pt

Ω^- X

6400	Abatzis 95D	cs
	Abatzis 95E	cs
	Abatzis 94B	cs

$\overline{\Omega}^+$ X

6400	Abatzis 95D	cs
	Abatzis 95E	cs
	Abatzis 94B	cs

X strangelet

6400	Appelquist 94	cs
	Borer 94	cs

deuteron X

6400	Borer 94	angp

^{3}He X

6400	Borer 94	angp

^{4}He X

6400	Borer 94	angp

μ^- μ^+ X

6400	Angelis 98	mass
	Delosheros 96	mass
	Masera 95	mass

ω mult[charged] X + ρ mult[charged] X

6400	Angelis 97	cs,mult,p,pt
	Masera 95	cs

φ(1020) mult[charged] X

6400	Angelis 97	cs,mult,p,pt
	Masera 95	cs

$J/\psi(1S)$ mult[charged] X

6400	Angelis 97	cs,mult,p,pt

Λ π^- X + $\overline{\Lambda}$ π^+ X

6400	Abatzis 94B	mass

S Wt

$\Lambda\ \pi^-$ X			
	6400	Abatzis 95E	mass
$\overline{\Lambda}\ \pi^+$ X			
	6400	Abatzis 95E	mass
$\Lambda\ K^-$ X			
	6400	Abatzis 95E	mass
$\Lambda\ K^-$ X + $\overline{\Lambda}\ K^+$ X			
	6400	Abatzis 94	mass
		Abatzis 94B	mass
$\overline{\Lambda}\ K^+$ X			
	6400	Abatzis 95E	mass
$\mu^-\ \mu^+$ mult[charged] X			
	6400	Angelis 98	cor,mass,mult,p,pt

S Pt

$e^-\ e^+$ X			
	6400	Tserruya 95	ang,mass
Pt S $e^-\ e^+$			
	6400	Tserruya 95	cs
		Baur 94B	ang,cs,mass,pt
		Baur 93	cs,mass

S Au

mult[charged] X			
	6400	Albrecht 94H	et,mult
mult[γ] X			
	6400	Aggarwal 98F	et,mult,p
hadron$^+$ X			
	6400	Mitchell 94	p
hadron$^-$ X			
	6400	Mitchell 94	p
		Alber 97	mult,p,pt
		Panagiotou 95	p
		Slegt 95	pt
γ X			
	6400	Aggarwal 98F	et,mult,p
		Baur 97	mult,p,pt
		Kampert 97	mult,p,pt
		Baur 95	mult,p,pt
		Ceretto 95	pt
		Tserruya 95	pt
		Albrecht 94C	pt
		Viyogi 94	angp,et
		Baur 93	angp
$\pi^\pm$ X			
	6400	Tserruya 95	pt
		Baur 93	pt
π^+ X			
	6400	Bachler 94B	p,pt
π^0 X			
	6400	Albrecht 95F	p,pt
		Albrecht 94C	pt
η X			
	6400	Albrecht 95F	p,pt
		Albrecht 94C	pt
K^+ X			
	6400	Bachler 94B	p,pt
K^0 X			
	6400	Gazdzcki 94	mult,p
p X			
	6400	Alber 97	mult,p,pt
		Seyboth 97	p
		Bachler 94B	p,pt
$\overline{p}$ X			
	6400	Alber 97	mult,p,pt
		Seyboth 97	p
		Gunther 95	p,pt
Λ X			
	6400	Alber 97	mult,p,pt
		Seyboth 97	mult,p
		Gazdzcki 94	mult,p
$\overline{\Lambda}$ X			
	6400	Alber 97	mult,p,pt
		Seyboth 97	mult,p

S Au

$\overline{\Lambda}$ X			
		Gunther 95	p,pt
Ξ^- X			
	6400	Retyk 97	mult,pt
$\overline{\Xi}^+$ X			
	6400	Retyk 97	mult,pt
$e^-\ e^+$ X			
	6400	Delosheros 96	mass
		Agakichiev 95	mass
		Ceretto 95	mass
		Tserruya 95	mass
charged (chargeds) X			
	6400	Albrecht 94H	col,et
2charged X			
	6400	Albrecht 94H	cor,et
charged$^+$ charged$^-$ X			
	6400	Bachler 94C	col,p,pt
		Fialkowski 94	col,p,pt
2charged$^-$ X			
	6400	Bachler 94C	col,p,pt
		Fialkowski 94	col,p,pt
2hadron$^-$ X			
	6400	Slegt 95	cor
		Wosiek 94	cor
γ charged X			
	6400	Baur 95	mult,p,pt
γ (γ's) X			
	6400	Aggarwal 95	col,et
γ mult[γ] X			
	6400	Aggarwal 97B	angp,col,cor,et
2γ X			
	6400	Aggarwal 95	cor
$2\pi^+$ X			
	6400	Awes 96	ang,cor
		Albrecht 94E	cor
$2\pi^-$ X			
	6400	Panagiotou 95	cor
		Roland 94	cor
	6430	Alber 95	cor,p,pt
$2p$ X			
	6400	Awes 96	ang,cor
2charged (chargeds) X			
	6400	Bachler 94C	col,p,pt
		Fialkowski 94	col,p,pt

S Pb

π^+ X			
	6400	Boggild 99	p,pt
		Boggild 96	p,pt
		Boggild 95	pt
		Boggild 95C	pt
		Boggild 94	pt
π^- X			
	6400	Boggild 96	p,pt
		Boggild 95C	pt
		Boggild 95D	p,pt
		Boggild 94	pt
K^+ X			
	6400	Boggild 99	p,pt
		Boggild 95	pt
		Boggild 95C	pt
		Boggild 94	pt
K^- X			
	6400	Boggild 99	p,pt
		Boggild 95C	pt
		Boggild 95D	p,pt
		Boggild 94	pt
p X			
	6400	Bearden 98B	p,pt
		Bearden 98C	pt
		Boggild 95	pt
		Boggild 95C	p,pt
		Boggild 94	pt
	6430	Boggild 95B	p,pt

S Pb

$\overline{p}$ X			
	6400	Bearden 98B	p,pt
		Bearden 98C	pt
		Boggild 95C	p,pt
		Boggild 94	pt
Λ X			
	6400	Andersen 95	cs,p
$\overline{\Lambda}$ X			
	6400	Andersen 95	cs
Ξ^- X			
	6400	Andersen 95	cs
$\overline{\Xi}^+$ X			
	6400	Andersen 95	cs
deuteron X			
	6400	Boggild 95	pt
		Boggild 95C	pt
	6430	Boggild 95B	p,pt
$\overline{\text{deuteron}}$ X			
	6430	Boggild 95B	p,pt
π^- charged$^+$ X			
	6400	Alvarezdelar 95	cor,p,pt
$2\pi^+$ X			
	6400	Bearden 96C	cor
		Boggild 95	cor
$2K^+$ X			
	6400	Bearden 96C	cor
		Boggild 95	cor
$2K^-$ X			
	6400	Boggild 95	cor
$2p$ X			
	6400	Boggild 98	cor,p,pt
Λ mult[charged$^-$] X			
	6400	Andersen 95	mult
$\Lambda\ \pi^-$ X			
	6400	Andersen 95	mass
$\overline{\Lambda}\ \pi^+$ X			
	6400	Andersen 95	mass
$\Lambda\ K^-$ X			
	6400	Andersen 95	mass
$\overline{\Lambda}\ K^+$ X			
	6400	Andersen 95	mass
$2\pi^+$ charged X			
	6400	Kaimi 97	col,cor,mult,p,pt
$3\pi^+$ X			
	6400	Schmidtsoren 98	cor

S U

ω X + ρ^0 X			
	6400	Abreu 96ZE	pt
		Abreu 96ZF	pt
ω X + ρ X			
	6400	Baglin 98B	cs
$\phi(1020)$ X			
	6400	Baglin 98B	cs
		Abreu 96ZE	pt
		Abreu 96ZF	pt
$J/\psi(1S)$ X			
	6400	Lourenco 95	cs,p,pt
		Abreu 98R	cs,et
		Tserruya 95	cs
		Lourenco 94	cs
		Lourenco 93	cs
$\psi(2S)$ X			
	6400	Lourenco 95	cs,p,pt
		Abreu 98R	cs,et
		Tserruya 95	cs
		Lourenco 94	cs
		Lourenco 93	cs
$2\mu^-$ X + $2\mu^+$ X			
	6400	Abreu 96ZE	mass
$\mu^-\ \mu^+$ X			
	6400	Lourenco 95	mass
		Abreu 98R	cs,et,mass

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S U

$\mu^- \mu^+$ X
Baglin 98C mass
Abreu 96ZE mass,pt
Tserruya 95 cs,mass
Lourenco 94 cs,mass
Lourenco 93 cs,mass

$\bar{c}$ c X
6400 Lourenco 94 cs

ω (neutrals) X + ρ (neutrals) X
6400 Gerschel 95 cs,pt

ω (neutrals) X + ρ^0 (neutrals) X
6400 Abreu 96ZF et,pt

ϕ(1020) (neutrals) X
6400 Abreu 96ZF et,pt
Gerschel 95 cs,pt

$J/\psi(1S)$ (neutrals) X
6400 Gerschel 95 cs,pt
Tserruya 95 cs,et
Lourenco 94 cs,et
Lourenco 93 cs,et

$\psi(2S)$ (neutrals) X
6400 Gerschel 95 cs,pt
Tserruya 95 cs,et
Lourenco 94 cs,et
Lourenco 93 cs,et

$\mu^- \mu^+$ (neutrals) X
6400 Abreu 98U cs,mass,p,pt
Gerschel 95 cs,pt

^{32}S p

fragb X
27.6 – 50.24 Chen 94 cs
34.83 Webber 98 a-dep,cs
6400 Adamovich 95G cs,mass,mult

C X
35.2 Webber 98 a-dep,cs

Nit X
35.2 Webber 98 a-dep,cs

O X
35.2 Webber 98 a-dep,cs

Fl X
35.2 Webber 98 a-dep,cs

Ne X
35.2 Webber 98 a-dep,cs

Na X
35.2 Webber 98 a-dep,cs

Mg X
35.2 Webber 98 a-dep,cs

Al X
35.2 Webber 98 a-dep,cs

Si X
35.2 Webber 98 a-dep,cs

Ph X
35.2 Webber 98 a-dep,cs

^{32}S nucleus

X 0fragb
6400 Adamovich 95G cs

mult[He] X
6400 Adamovich 95G mult

mult[shower] X
6400 Ghosh 97C mult,p
Ghosh 96 cor,mult,p

mult[grey] X
6430 Adamovich 95F mult

mult[htrack] X
6400 Adamovich 95G cs,mult
6430 Adamovich 95F mult

mult[htrack] X 0fragb
6400 Adamovich 95G cs,mult

mult[black] X
6430 Adamovich 95F mult

^{32}S nucleus

fragb X
6400 Adamovich 95G cs,mass,mult

$e^- e^+$ X
6400 Kamel 96 ang,angp,p

charged (chargeds) X
6400 Ghosh 95 col,p

mult[grey] mult[shower] X
6430 Adamovich 95F cor,mult

mult[htrack] mult[fragb] X
144 Elnadi 98B mult

mult[htrack] mult[shower] X
6430 Adamovich 95F cor,mult

mult[black] mult[grey] X
144 Elnadi 97B cor,mult
6400 Ghosh 98 angp,col,mult
Elnadi 97B cor,mult
Andreeva 95B cor,mult
6430 Adamovich 95F cor,mult

2shower X
6400 Mukhopadhyay 95 angp,cor,p

fragb charged X
145.2 Elnadi 95D cor,mult,p

(showers) 2shower X
6430 Dabrowska 95B angp,col,p

2shower mult[shower] X
6400 Mukhopadhyay 95 cor,mult,p

3shower X
6400 Mukhopadhyay 95 angp,cor,p

2black (blacks) X
6400 Ghosh 97B angp,col

3shower mult[shower] X
6400 Mukhopadhyay 95 cor,mult,p

12grey (greys) X
6400 Andreeva 95B cs

28htrack (htracks) X
6400 Andreeva 95B cs

(showers) 50shower fragb X
6430 Singh 94B col,mult,p

^{32}S C

fragb X
143.6 Sampsonidis 95 cs
Sampsonidis 95B cs

^{32}S Al

fragb X
143.6 Sampsonidis 95 cs
Sampsonidis 95B cs

$2\pi^+$ X
6400 Awes 95B angp,cor

$2p$ X
6400 Awes 95 angp,cor

^{32}S S

charged$^-$ X
6400 Foka 95 p

charged$^-$ X 0fragb
6400 Alber 96 p

hadron$^-$ X
6400 Panagiotou 94 p,pt

π^0 X
6400 Kampert 94 pt

η X
6400 Kampert 94 pt

^{32}S S

K^+ X
6400 Foka 95 pt

K^0 X
6400 Panagiotou 94 p

K^- X
6400 Foka 95 pt

K_S X
6400 Foka 95 p,pt
Alber 94 mult,p,pt

p X
6400 Panagiotou 94 p

$\bar{p}$ X 0fragb
6400 Alber 96 p,pt

$\bar{p}$ X
6400 Alber 96 p,pt
Panagiotou 94 p

Λ X
6400 Foka 95 p
Alber 94 mult,p,pt
Panagiotou 94 p

$\bar{\Lambda}$ X
6400 Alber 96 p,pt
Foka 95 p
Alber 94 mult,p,pt
Panagiotou 94 p

$\bar{\Lambda}$ X 0fragb
6400 Alber 96 p,pt

2charged$^-$ X
6400 Alber 95C cor,p,pt

$p\ \pi^-$ X
6400 Andersen 94C mass

$\bar{p}\ \pi^+$ X
6400 Andersen 94C mass

$\Lambda\ \pi^-$ X
6400 Andersen 94C mass

^{32}S Cu

fragb X
143.6 Sampsonidis 95 cs
Sampsonidis 95B cs

2charged$^-$ X
6400 Alber 95C cor,p,pt

^{32}S ^{96}Mo

^{96}Mo ^{32}S
3.281 Herrick 95 cs

^{32}S ^{100}Mo

^{100}Mo ^{32}S
3.281 Herrick 95 cs

^{32}S ^{110}Pd

frag (frags) X
2.479 – 2.779 Stefanini 95 angp,cs,p

^{32}S Ag

charged X
6400 Aoki 95 a-dep,angp,et,mult,p

charged$^-$ X 0fragb
6400 Alber 96 p

hadron X
6400 Aoki 95 a-dep,angp,et,mult,p

hadron$^-$ X
6400 Panagiotou 94 p,pt

K^+ X
6400 Alber 94 p,pt
Panagiotou 94 p,pt

K^0 X
6400 Panagiotou 94 p,pt

K^- X
6400 Panagiotou 94 p,pt

^{32}S Ag

K_S X
6400 Alber 94 mult,p,pt
p X
6400 Panagiotou 94 p
$\bar{p}$ X 0fragb
6400 Alber 96 p,pt
$\bar{p}$ X
6400 Alber 96 p,pt
Panagiotou 94 p
Λ X
6400 Alber 94 mult,p,pt
Panagiotou 94 p
$\bar{\Lambda}$ X
6400 Alber 96 p,pt
Alber 94 mult,p,pt
Panagiotou 94 p
$\bar{\Lambda}$ X 0fragb
6400 Alber 96 p,pt
fragb X
143.6 Sampsonidis 95 cs
Sampsonidis 95B cs
2charged$^-$ X
6400 Alber 95C cor,p,pt
$\pi^+ \pi^-$ X
6400 Alber 94 mass
$p \pi^-$ X
6400 Alber 94 mass
$\bar{p} \pi^+$ X
6400 Alber 94 mass

^{32}S Wt

charged X
6400 Aoki 95
a-dep,angp,et,mult,p
hadron X
6400 Aoki 95
a-dep,angp,et,mult,p
γ X
6400 Tserruya 95 cs,et,pt
π^0 X
6400 Tserruya 95 cs,et,pt
ρ X
6400 Mazzoni 94 cs,p,pt
ω X
6400 Mazzoni 94 cs,p,pt
K^+ X
6400 Abatzis 95B cs,pt
K^- X
6400 Abatzis 95B cs,pt
K_S X
6400 Kinson 91 cs,mult,p,pt
$\phi(1020)$ X
6400 Mazzoni 94 cs,p,pt
Λ X
6400 Kinson 91 cs,mult,p,pt
$\bar{\Lambda}$ X
6400 Kinson 91 cs,mult,p,pt
Ξ^- X
6400 Kinson 91 cs,mult,p,pt
$\bar{\Xi}^+$ X
6400 Kinson 91 cs,mult,p,pt
$\mu^- \mu^+$ X
6400 Mazzoni 94 mass
$\pi^+ \pi^-$ X
6400 Kinson 91 mass
ρ mult[charged] X
6400 Mazzoni 94 cs,mult
ω mult[charged] X
6400 Mazzoni 94 cs,mult
$\phi(1020)$ mult[charged] X
6400 Mazzoni 94 cs,mult

^{32}S Wt

$p \pi^-$ X
6400 Kinson 91 mass
$\bar{p} \pi^+$ X
6400 Kinson 91 mass
$\Lambda \pi^-$ X
6400 Kinson 91 mass
$\bar{\Lambda} \pi^+$ X
6400 Kinson 91 mass
$2\pi^+ \pi^-$ X
6400 Abatzis 95B mass
$\pi^+ 2\pi^-$ X
6400 Abatzis 95B mass

^{32}S ^{184}Wt

frag (frags)
3.141 – 3.923 Back 99 angp,cs,mass

^{32}S Pt

γ X
6400 Tserruya 95 cs,et,pt
π^0 X
6400 Tserruya 95 cs,et,pt

^{32}S Au

charged$^-$ X 0fragb
6400 Alber 96 p
hadron$^-$ X
6400 Panagiotou 94 p,pt
γ X
6400 Albrecht 96 cs,pt
Albrecht 95I pt
Irmscher 94 pt
Kampert 94 pt
6430 Aggarwal 97 pt
Aggarwal 97C mult,pt
π^0 X
6400 Albrecht 98 cs,pt
Albrecht 95I pt
Albrecht 94D pt
Kampert 94 pt
η X
6400 Albrecht 95I pt
Albrecht 94D pt
Kampert 94 pt
K^- X
6400 Alber 94 p,pt
Panagiotou 94 p
K_S X
6400 Alber 94 p,pt
p X
6400 Panagiotou 94 p
$\bar{p}$ X
6400 Alber 96 p,pt
Panagiotou 94 p
$\bar{p}$ X 0fragb
6400 Alber 96 p,pt
Λ X
6400 Alber 94 p,pt
Panagiotou 94 p
$\bar{\Lambda}$ X
6400 Alber 96 p,pt
Alber 94 p,pt
Panagiotou 94 p
$\bar{\Lambda}$ X 0fragb
6400 Alber 96 p,pt
2charged$^-$ X
6400 Alber 95C cor,p,pt
2γ X
6400 Albrecht 95I mass
Albrecht 94D mass
$2\pi^+$ X
6400 Awes 95B angp,cor
$J/\psi(1S)$ (neutrals) X
6400 Baglin 95 cs

^{32}S Au

$\psi(2S)$ (neutrals) X
6400 Baglin 95 cs
$2p$ X
6400 Awes 95 angp,cor

^{32}S Pb

mult[charged$^-$] X
6400 Hafidouni 94 mult
K^0 X
6400 Andersen 94 p,pt
$J/\psi(1S)$ X
6400 Abreu 97T a-dep,cs
Λ X
6400 Andersen 94 p,pt
Andersen 94C cs,pt
$\bar{\Lambda}$ X
6400 Andersen 94 p,pt
Andersen 94C cs,pt
Ξ^- X
6400 Andersen 94 cs
Andersen 94C cs
$\bar{\Xi}^+$ X
6400 Andersen 94 cs
Andersen 94C cs
fragb X
143.6 Sampsonidis 95 cs
Sampsonidis 95B cs
$2\pi^+$ X
6400 Beker 94B cor,pt
Boggild 94B angp,cor
Beker 93 angp,cor,pt
$2\pi^-$ X
6400 Boggild 94B angp,cor
K^0 mult[charged$^-$] X
6400 Andersen 94 mult,p,pt
$2K^+$ X
6400 Beker 94B cor,pt
Beker 94C cor,pt
Beker 93 angp,cor,pt
$2K^-$ X
6400 Beker 94C cor,pt
Beker 93 angp,cor,pt
$J/\psi(1S)$ (neutrals) X
6400 Abreu 97T a-dep,cs,et
Λ mult[charged$^-$] X
6400 Andersen 94 mult,p,pt
$\bar{\Lambda}$ mult[charged$^-$] X
6400 Andersen 94 mult,p,pt
$\Lambda \pi^-$ X
6400 Andersen 94 mass
$\bar{\Lambda} \pi^+$ X
6400 Andersen 94 mass
Andersen 94C mass

^{32}S U

$J/\psi(1S)$ X
6400 Abreu 98G pt
Baglin 98 cs,pt
Abreu 97T a-dep,cs
Baglin 95B cs
$\psi(2S)$ X
6400 Abreu 98G pt
Baglin 95B cs
$\mu^- \mu^+$ X
6400 Abreu 98G mass,pt
Baglin 95 mass
Baglin 95B mass
Baglin 94 et,mass
$J/\psi(1S)$ (neutrals) X
6400 Abreu 98G p,pt
Abreu 97T a-dep,cs,et
Baglin 95B cs,et
Baglin 94 cs,et

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^{32}S U

$\psi(2S)$ (neutrals) X
6400 Abreu 98G p,pt
Baglin 95B cs,et
Baglin 94 cs,et

μ^- μ^+ (neutrals) X
6400 Abreu 98G mass,p,pt

^{33}S p

fragb X
35.4 Webber 98 a-dep,cs

^{36}S ^{110}Pd

frag (frags) X
2.673 – 3.034 Stefanini 95 angp,cs,p

^{34}Cl p

fragb X
36.11 Webber 98 a-dep,cs

^{37}Cl p

fragb X
40.12 Webber 98 a-dep,cs

^{36}Ar p

fragb X
31.05 – 56.52 Chen 94 cs
32.26 Knott 97 a-dep,cs
39.03 Webber 98 a-dep,cs
41.28 Knott 97 a-dep,cs
51.9 Knott 97 a-dep,cs

^{36}Ar ^{12}C

K^+ X
15.27 Legrain 97 a-dep,cs
Lecolley 95 cs

^{36}Ar ^{27}Al

γ X
15.53 Badala 96C angp,cs,p,pt

π^0 X
15.53 Badala 96 angp,mult,p
Badala 96C angp,p,pt

η X
15.53 Badala 96B cs

$\Delta(1232\,P_{33})^+$ X
15.53 Badala 98 cs

frag X
11.69 Angelique 97 angp,pt
Buta 97C angp,p
12.94 Angelique 97 angp,pt
Buta 97C angp,p
14.1 Angelique 97 angp,pt
14.74 Angelique 97 angp,pt
15.53 Angelique 97 angp,pt
Buta 97C angp,p

2charged X
11.69 – 15.53 Buta 95 cor

2γ X
15.53 Badala 96B mass,p
Badala 95 ang,p

π mult[charged] X
15.53 Badala 97 angp,cor,mult

π^0 mult[charged] X
15.53 Badala 96 angp,mult,p

p γ X
15.53 Badala 98 ang,angp,mass,p

γ frag X
15.53 Badala 97B cor,mass,p

γ fragb X
15.53 Badala 97 angp,cor,mult

^{36}Ar ^{27}Al

π fragb X
15.53 Badala 97 angp,cor,mult

2γ frag
15.53 Badala 97B cor,mass,p

^{36}Ar Ti

K^+ X
15.27 Legrain 97 a-dep,cs
Lecolley 95 cs

^{36}Ar ^{58}Ni

γ X
15.53 Badala 96C angp,cs,p,pt

π^0 X
15.53 Badala 96 angp,mult,p
Badala 96C angp,p,pt

η X
15.53 Badala 96B cs

2γ X
15.53 Badala 96B mass,p

π^0 mult[charged] X
15.53 Badala 96 angp,mult,p

p (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

n (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

deuteron (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

^{3}H (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

^{3}He (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

He (chargeds) X
11.36 Borderie 96 p
13.63 Borderie 96 p
14.56 Borderie 96 p
15.53 Borderie 96 p

(He's) (p's) (chargeds) X
11.36 Rivet 96 col,p
13.63 Rivet 96 col,p
14.56 Rivet 96 col,p
15.53 Rivet 96 col,p

^{36}Ar ^{112}Sn

γ X
15.53 Badala 96C angp,cs,p,pt

π^0 X
15.53 Badala 96 angp,mult,p
Badala 96C angp,p,pt

η X
15.53 Badala 96B cs

2γ X
15.53 Badala 96B mass,p

π^0 mult[charged] X
15.53 Badala 96 angp,mult,p

γ frag X
15.53 Badala 97B cor,mass,p

^{36}Ar ^{112}Sn

2γ frag
15.53 Badala 97B cor,mass,p

^{36}Ar ^{181}Ta

K^+ X
15.27 Legrain 97 a-dep,cs
Lecolley 95 cs

p X
15.44 Germain 97 angp,p

^{36}Ar ^{197}Au

γ X
15.53 Badala 96C angp,cs,p,pt

π^0 X
15.53 Badala 96 angp,mult,p
Badala 96C angp,p,pt
Holzmann 96 cs,p

η X
15.53 Badala 96B cs

2γ X
15.53 Badala 96B mass,p

π^0 mult[charged] X
15.53 Badala 96 angp,mult,p

γ frag X
15.53 Badala 97B cor,mass,p

2γ frag
15.53 Badala 97B cor,mass,p

^{38}Ar p

fragb X
41.66 Webber 98 a-dep,cs

Ar nucleus

mult[frag] X
75.32 Weigang 98 ang,cor,mult,pt

Ar C

fragb X
94.5 Brady 94 a-dep,cs

Ar Ca

π^0 X
66.51 Schwalb 94 cs,mult,pt

η X
66.51 Berg 94 cs,pt
88.18 Berg 94 cs,pt

mult[π^0] mult[charged] X
66.51 Schwalb 94 cor,mult

2γ X
66.51 Berg 94 mass
88.18 Berg 94 mass

Ar Au

frag X
13.4 Lecolley 97 angp,p

n fragt X
13.4 Lecolley 97 angp,mult,p

^{40}Ar p

inelastic
30.35 Dudkin 94 cs

shower X
30.35 Dudkin 94 mult

grey X
30.35 Dudkin 94 mult

black X
30.35 Dudkin 94 mult

fragb X
30.35 Bogdanov 94 mult
34.5 – 62.8 Chen 94 cs
35.32 Knott 97 a-dep,cs

^{40}Ar nucleus

shower X		
30.35	Dudkin 94	mult
grey X		
30.35	Dudkin 94	mult
black X		
30.35	Dudkin 94	mult
fragb X		
30.35	Bogdanov 94	mult,pt

^{40}Ar C

inelastic		
30.35	Dudkin 94	cs

^{40}Ar Nit

inelastic		
30.35	Dudkin 94	cs

^{40}Ar O

inelastic		
30.35	Dudkin 94	cs

^{40}Ar Ca

π^0 X		
7.762 – 12.37	Holzmann 97	cs
η X		
7.762 – 12.37	Holzmann 97	cs

^{40}Ar ^{45}Sc

mult[frag] X		
6.714	Llope 95	a-dep,col,mult
10.31	Llope 95	a-dep,col,mult
15.25	Llope 95	a-dep,col,mult
17.25	Llope 95	a-dep,col,mult
19.08	Llope 95	a-dep,col,mult
frag X		
1.615 – 2.93	Pak 96	et,p

^{40}Ar ^{51}Va

p X		
11.59	Sapienza 98	angp,p
$p\,\gamma$ X		
11.59	Sapienza 98	cor,p

^{40}Ar Br

inelastic		
30.35	Dudkin 94	cs

^{40}Ar ^{98}Mo

$p\,\gamma$ X		
10.61	Sapienza 98	cor,p

^{40}Ar Ag

inelastic		
30.35	Dudkin 94	cs
p X		
7.151	Gelderloos 96	angp,cs,p
deuteron X		
7.151	Gelderloos 96	angp,cs,p
^{3}H X		
7.151	Gelderloos 96	angp,cs,p
He X		
7.151	Gelderloos 96	angp,cs,p
2p X		
7.151	Gelderloos 96	angp,cs,p
deuteron p X		
7.151	Gelderloos 96	angp,cs,p
2deuteron X		
7.151	Gelderloos 96	angp,cs,p
^{3}H p X		
7.151	Gelderloos 96	angp,cs,p
^{3}H deuteron X		
7.151	Gelderloos 96	angp,cs,p
2^{3}H X		
7.151	Gelderloos 96	angp,cs,p
He p X		
7.151	Gelderloos 96	angp,cs,p

^{40}Ar Ag

He ^{3}H X		
7.151	Gelderloos 96	angp,cs,p
2He X		
7.151	Gelderloos 96	angp,cs,p

^{40}Ar ^{197}Au

deuteron X		
8.69	He 97	cor
^{3}H X		
8.69	He 97	cor
2p X		
8.69	He 97	cor
deuteron p X		
8.69	He 97	cor
^{3}H p X		
8.69	He 97	cor
^{4}He deuteron X		
8.69	He 97	cor
^{4}He ^{3}H X		
8.69	He 97	cor

Ca Ca

$e^-\,e^+$ X		
67.73	Porter 98	mass
	Porter 97	a-dep,mass

^{40}Ca p

n X		
35.61	Tuve 97	angp,p,pt
46.85	Tuve 97	angp,p,pt
fragb X		
34.5 – 62.8	Chen 94	cs
35.55	Chen 97	a-dep,cs
46.85	Chen 97	a-dep,cs
56.62	Chen 97	a-dep,cs
mult[n] fragb X		
35.61	Tuve 99	a-dep,cs,mult,p
46.85	Tuve 99	a-dep,cs,mult,p
n fragb X		
35.61	Tuve 99	a-dep,cs,mult,p
46.85	Tuve 99	a-dep,cs,mult,p

^{40}Ca Ca

π^0 X		
7.762 – 12.37	Holzmann 97	cs
η X		
7.762 – 12.37	Holzmann 97	cs

^{40}Ca ^{40}Ca

frag X		
10.31	Pawlowski 97	angp,p

^{42}Ca p

fragb X		
49.78	Webber 98	a-dep,cs

^{44}Ca p

fragb X		
52.21	Webber 98	a-dep,cs

^{44}Sc p

fragb X		
51.98	Webber 98	a-dep,cs

^{46}Sc p

fragb X		
54.41	Webber 98	a-dep,cs

^{46}Ti p

fragb X		
54.17	Webber 98	a-dep,cs

^{46}Ti nucleus

fragb X		
63.95	Brohm 95	cs

^{47}Ti nucleus

fragb X		
62.91	Brohm 95	cs

^{48}Ti p

fragb X		
56.59	Webber 98	a-dep,cs

^{48}Va p

fragb X		
56.34	Webber 98	a-dep,cs

^{48}Va nucleus

fragb X		
57.38	Brohm 95	cs
66.33	Brohm 95	cs

^{49}Va nucleus

fragb X		
56.58	Brohm 95	cs
65.33	Brohm 95	cs

^{50}Va p

fragb X		
58	Webber 98	a-dep,cs

^{50}Va nucleus

fragb X		
56.48	Brohm 95	cs

Va C

fragb X		
50.71	Blank 95B	cs

Va Al

fragb X		
50.71	Blank 95B	cs

Va Pb

fragb X		
50.71	Blank 95B	cs

^{51}Va nucleus

fragb X		
57.77	Brohm 95	cs

^{49}Cr nucleus

fragb X		
61.19	Brohm 95	cs

^{50}Cr p

fragb X		
57.75	Webber 98	a-dep,cs

^{50}Cr nucleus

fragb X		
58.87	Brohm 95	cs
67.93	Brohm 95	cs

^{51}Cr nucleus

fragb X		
59.6	Brohm 95	cs
68.74	Brohm 95	cs

^{52}Cr p

fragb X		
44.33 – 80.56	Chen 94	cs
60.15	Webber 98	a-dep,cs

^{52}Cr nucleus

fragb X		
58.77	Brohm 95	cs

Cr C

fragb X		
52.34	Blank 95B	cs

Cr Al

fragb X		
52.34	Blank 95B	cs

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Cr Pb

fragb X		
52.34	Blank 95B	cs

^{53}Cr nucleus

fragb X		
58.63	Brohm 95	cs

^{50}Mn nucleus

fragb X		
64.22	Brohm 95	cs

^{51}Mn nucleus

fragb X		
64.22	Brohm 95	cs

^{52}Mn p

fragb X		
59.9	Webber 98	a-dep,cs

^{52}Mn nucleus

fragb X		
61.34	Brohm 95	cs
70.02	Brohm 95	cs

^{53}Mn nucleus

fragb X		
61.05	Brohm 95	cs
70.29	Brohm 95	cs

^{54}Mn nucleus

fragb X		
61.58	Brohm 95	cs
71.01	Brohm 95	cs

Mn nucleus

fragb X		
60.52	Blank 95	cs

Mn C

fragb X		
54.74	Blank 95B	cs

Mn Al

fragb X		
54.74	Blank 95B	cs

Mn Pb

fragb X		
54.74	Blank 95B	cs

^{55}Mn p

fragb X		
63.54	Webber 98	a-dep,cs

^{55}Mn nucleus

fragb X		
60.81	Brohm 95	cs

^{56}Mn nucleus

fragb X		
61.39	Brohm 95	cs

^{51}Fe nucleus

fragb X		
66.14	Brohm 95	cs

^{52}Fe nucleus

fragb X		
67.04	Brohm 95	cs

^{53}Fe nucleus

fragb X		
67.1	Brohm 95	cs

^{54}Fe p

fragb X		
62.69	Webber 98	a-dep,cs

^{54}Fe nucleus

fragb X		
64.42	Brohm 95	cs
73.51	Brohm 95	cs

^{55}Fe nucleus

fragb X		
63.24	Brohm 95	cs
72.58	Brohm 95	cs

^{56}Fe p

inelastic		
59.39	Dudkin 94	cs
shower X		
59.39	Dudkin 94	mult
grey X		
59.39	Dudkin 94	mult
black X		
59.39	Dudkin 94	mult
fragb X		
59.39	Bogdanov 94	mult
66.16	Webber 98	a-dep,cs
97.94	Zeitlin 97	a-dep,cs
He X		
140	Ameeva 94	a-dep,pt

^{56}Fe nucleus

mult[^{4}He] X		
140	Bondarenko 98	mult
shower X		
59.39	Dudkin 94	mult
grey X		
59.39	Dudkin 94	mult
black X		
59.39	Dudkin 94	mult
fragb X		
59.39	Bogdanov 94	mult,pt
63.65	Brohm 95	cs
73.43	Brohm 95	cs
He X		
140	Ameeva 94	a-dep,pt
2^{4}He X		
140	Belaga 95D	ang,mass,p
(showers) 2shower X		
140	Belaga 95F	ang,col,cor
2grey (greys) X		
140	Belaga 95F	ang,col,cor
2black (blacks) X		
140	Belaga 95F	ang,col,cor
mult[htrack] 3fragb (fragbs) X		
137.8	Jain 94B	angp,cor,mult
(He's) 3^{4}He mult[htrack] X		
137.8	Jain 94B	angp,cor,mult

^{56}Fe C

inelastic		
59.39	Dudkin 94	cs
fragb X		
97.94	Zeitlin 97	a-dep,cs

^{56}Fe Nit

inelastic		
59.39	Dudkin 94	cs

^{56}Fe O

inelastic		
59.39	Dudkin 94	cs

^{56}Fe Al

fragb X		
97.94	Zeitlin 97	a-dep,cs

^{56}Fe Cu

fragb X		
97.94	Zeitlin 97	a-dep,cs

^{56}Fe Br

inelastic		
59.39	Dudkin 94	cs

^{56}Fe Ag

inelastic		
59.39	Dudkin 94	cs

^{56}Fe Ta

fragt fragb X		
2.8	Sangster 95	ang,cor,p,pt
5.6	Sangster 95	ang,cor,p,pt

^{56}Fe Au

fragt fragb X		
2.8	Sangster 95	ang,cor,p,pt
5.6	Sangster 95	ang,cor,p,pt

^{56}Fe Pb

fragb X		
97.94	Zeitlin 97	a-dep,cs

^{56}Fe Th

fragt fragb X		
2.8	Sangster 95	ang,cor,p,pt
5.6	Sangster 95	ang,cor,p,pt

Fe nucleus

fragb X		
61.59	Blank 95	cs

Fe C

fragb X		
55.71	Blank 95B	cs

Fe Al

fragb X		
55.71	Blank 95B	cs

Fe Pb

fragb X		
55.71	Blank 95B	cs

^{57}Fe nucleus

fragb X		
63.6	Brohm 95	cs

^{58}Fe nucleus

fragb X		
62.73	Brohm 95	cs

^{54}Co nucleus

fragb X		
68.44	Brohm 95	cs

^{55}Co nucleus

fragb X		
69.2	Brohm 95	cs

^{57}Co nucleus

fragb X		
66.25	Brohm 95	cs
75.79	Brohm 95	cs

^{58}Co nucleus

fragb X		
65.69	Brohm 95	cs
75.84	Brohm 95	cs

Co C

fragb X		
58.76	Blank 95B	cs

Co Al

fragb X
58.76 Blank 95B cs

Co Pb

fragb X
58.76 Blank 95B cs

^{59}Co nucleus

fragb X
65.52 Brohm 95 cs

^{60}Co nucleus

fragb X
65.46 Brohm 95 cs
82.04 Brohm 95 cs

^{56}Ni nucleus

fragb X
71.36 Brohm 95 cs

^{58}Ni p

fragb X
50.03 – 91.06 Chen 94 cs

^{58}Ni Be

fragb X
74.13 Blank 94 a-dep,cs
^{40}Sc X
74.13 Blank 94 a-dep,cs
^{41}Sc X
74.13 Blank 94 a-dep,cs
^{42}Sc X
74.13 Blank 94 a-dep,cs
^{43}Sc X
74.13 Blank 94 a-dep,cs
^{44}Sc X
74.13 Blank 94 a-dep,cs
^{40}Ti X
74.13 Blank 94 a-dep,cs
^{42}Ti X
74.13 Blank 94 a-dep,cs
^{45}Ti X
74.13 Blank 94 a-dep,cs
^{46}Ti X
74.13 Blank 94 a-dep,cs
^{46}Va X
74.13 Blank 94 a-dep,cs
^{48}Va X
74.13 Blank 94 a-dep,cs
^{48}Cr X
74.13 Blank 94 a-dep,cs
^{50}Cr X
74.13 Blank 94 a-dep,cs
^{50}Mn X
74.13 Blank 94 a-dep,cs
^{52}Mn X
74.13 Blank 94 a-dep,cs
^{52}Fe X
74.13 Blank 94 a-dep,cs
^{53}Fe X
74.13 Blank 94 a-dep,cs
^{54}Fe X
74.13 Blank 94 a-dep,cs
^{54}Co X
74.13 Blank 94 a-dep,cs
^{55}Co X
74.13 Blank 94 a-dep,cs
^{56}Co X
74.13 Blank 94 a-dep,cs
^{56}Ni X
74.13 Blank 94 a-dep,cs
^{57}Ni X
74.13 Blank 94 a-dep,cs

^{58}Ni ^{58}Ni

inelastic
29.34 Andronic 97 cs

^{58}Ni ^{58}Ni

inelastic
64.45 Andronic 97 cs
98.04 Andronic 97 cs

π^+ X
29.34 Andronic 97 angp,et,mult,p
64.45 Andronic 97 angp,et,mult,p
98.04 Andronic 97 angp,et,mult,p

π^- X
29.34 Andronic 97 angp,et,mult,p
64.45 Andronic 97 angp,et,mult,p
98.04 Andronic 97 angp,et,mult,p
102.1 Buta 98 cs,p,pt
Hong 97 mult,p,pt
Legrand 97 p
127.1 Buta 98 cs,p,pt
Hong 97 mult,p,pt
Legrand 97 p
156.9 Buta 98 cs,p,pt
Hong 97 mult,p,pt
Legrand 97 p

K^+ X
98.04 Buta 95B p,pt
102.1 Legrand 97 angp,cs,p,pt
127.1 Legrand 97 angp,cs,p,pt
156.9 Legrand 97 angp,cs,p,pt

K_S X
98.04 Buta 95B p,pt

p X
98.04 Buta 95B p,pt
102.1 Buta 98 cs,p,pt
Legrand 97 p
127.1 Buta 98 cs,p,pt
Legrand 97 p
156.9 Buta 98 cs,p,pt
Legrand 97 p

$\Delta(1232\,P_{33})$ X
102.1 Hong 97 mult
127.1 Hong 97 mult
156.9 Hong 97 mult

Λ X
98.04 Buta 95B p,pt

deuteron X
102.1 Buta 98 cs,p,pt
127.1 Buta 98 cs,p,pt
156.9 Buta 98 cs,p,pt

$\pi^+\ \pi^-$ X
98.04 Buta 95B mass

$p\ \pi^-$ X
98.04 Buta 95B mass

^{58}Ni Ni

π^+ X
84.66 Muntz 97 angp,p
98.14 Muntz 97 angp,p
148.9 Muntz 97 angp,p

π^- X
140.3 Schroeter 94 p
152 Schroeter 94 p

K^- X
140.3 Schroeter 94 p
152 Schroeter 94 p

p X
84.66 Muntz 97 angp,p
98.14 Muntz 97 angp,p
148.9 Muntz 97 angp,p

$\bar{p}$ X
140.3 Schroeter 94 p
152 Schroeter 94 p

Ni C

fragb X
58.67 Blank 95B cs

Ni Al

fragb X
58.67 Blank 95B cs

Ni Ni

π^+ X
102.5 Andronic 98 pt
127.6 Andronic 98 pt
157.4 Andronic 98 pt

π^- X
98.53 Buta 96 pt
102.5 Andronic 98 pt
Buta 96 p
112.9 Gillitzer 96 angp,p
119.3 Gillitzer 96 angp,p
127.6 Andronic 98 pt
Buta 96 p
135.1 Gillitzer 96 angp,p
152.5 Gillitzer 96 angp,p
157.4 Andronic 98 pt
Buta 96 p

K^+ X
85.02 Barth 97 angp,cs,mult,p
98.53 Barth 97 angp,cs,mult,p
Elmer 96 a-dep,angp,p
102.5 Buta 96 p
149.4 Barth 97 angp,cs,mult,p

K^- X
149.4 Barth 97 angp,cs,p

p X
98.53 Buta 96 pt
102.5 Buta 96 p
127.6 Buta 96 p
157.4 Buta 96 p

Λ X
102.5 Buta 96 p

deuteron X
98.53 Buta 96 pt
102.5 Buta 96 p
127.6 Buta 96 p
157.4 Buta 96 p

$K^+\ K^-$ X
157.4 Buta 96 mass

$p\ \pi^+$ X
102.5 Andronic 98 mass
127.6 Andronic 98 mass
157.4 Andronic 98 mass

$p\ \pi^-$ X
102.5 Andronic 98 mass
127.6 Andronic 98 mass
157.4 Andronic 98 mass

$2p$ X
157.4 Buta 97 cor

Ni Cu

π^- X
161.7 Justice 97 mult,p,pt

Λ X
161.7 Justice 97 mult,p,pt

Λ X + Σ^0 X
161.7 Justice 97 cs

charged mult[charged] X
98.53 Hauger 96 col,mass,p,pt
130.7 Hauger 96 col,mass,p,pt
159.9 Hauger 96 col,mass,p,pt

p mult[p] X
98.53 Hauger 96 col,mass,p,pt
130.7 Hauger 96 col,mass,p,pt
159.9 Hauger 96 col,mass,p,pt

p frag (frags) X
161.7 Justice 95 col,p

Λ frag (frags) X
161.7 Justice 95 col,p

Ni Au

charged mult[charged] X
55.46 – 143.2 Hauger 96 col,mass,p,pt

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Ni Au

p mult[p] X
55.46 – 143.2 Hauger 96 col,mass,p,pt

Ni Pb

fragb X
58.67 Blank 95B cs

^{59}Ni nucleus

fragb X
67.6 Brohm 95 cs
77.28 Brohm 95 cs

^{60}Ni nucleus

fragb X
67.96 Brohm 95 cs
78.24 Brohm 95 cs

^{61}Ni nucleus

fragb X
67.5 Brohm 95 cs

^{62}Ni nucleus

fragb X
67.47 Brohm 95 cs
84.48 Brohm 95 cs

^{63}Ni nucleus

fragb X
84.92 Brohm 95 cs

^{61}Cu nucleus

fragb X
80.44 Brohm 95 cs

^{62}Cu nucleus

fragb X
79.75 Brohm 95 cs

^{65}Cu nucleus

fragb X
87.3 Brohm 95 cs

^{63}Zn nucleus

fragb X
82.77 Brohm 95 cs

^{64}Zn nucleus

fragb X
82.04 Brohm 95 cs

^{64}Zn ^{48}Ti

2charged X
16.35 – 24.85 Buta 95 cor

^{64}Zn ^{58}Ni

frag X
19.42 Buta 97C angp,p
23.16 Buta 97C angp,p
24.85 Buta 97C angp,p

2charged X
16.35 – 24.85 Buta 95 cor

^{67}Zn nucleus

fragb X
88.52 Brohm 95 cs

^{68}Zn nucleus

fragb X
89.12 Brohm 95 cs

^{69}Ga nucleus

fragb X
90.61 Brohm 95 cs

^{70}Ga nucleus

fragb X
91.34 Brohm 95 cs

^{72}Ge nucleus

fragb X
94.33 Brohm 95 cs

^{73}Ge nucleus

fragb X
94.23 Brohm 95 cs

^{71}As e^-

^{71}Ge ν_e
0. Hampel 98 const

^{74}As nucleus

fragb X
95.62 Brohm 95 cs

^{75}As nucleus

fragb X
97.52 Brohm 95 cs

^{76}Se nucleus

fragb X
98.63 Brohm 95 cs

^{77}Se nucleus

fragb X
98.88 Brohm 95 cs

^{78}Kr ^{58}Ni

fragb X
29.52 Pfaff 96 a-dep,cs

^{84}Kr p

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr nucleus

fragb X
130.2 Adamovich 97E angp,pt

^{4}He X
130.2 Adamovich 97E angp,pt

mult[grey] fragb X
130.2 Adamovich 97E angp,mult,pt

mult[htrack] 3fragb (fragbs) X
190.5 Jain 94B angp,cor,mult

(He's) 3^{4}He mult[htrack] X
190.5 Jain 94B angp,cor,mult

^{84}Kr C

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr Al

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr ^{59}Co

fragb X
53.96 Donzaud 95 angp

p fragb X
53.96 Donzaud 95 cs

^{4}He fragb X
53.96 Donzaud 95 cs

^{84}Kr Cu

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr ^{93}Nb

mult[frag] X
21.65 Llope 95 a-dep,col,mult
27.28 Llope 95 a-dep,col,mult
32.03 Llope 95 a-dep,col,mult

^{84}Kr Sn

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr ^{197}Au

mult[charged] X
21.65 Peaslee 94 mult
27.28 Peaslee 94 mult
30.9 Peaslee 94 mult
37.22 Peaslee 94 mult
53.96 Peaslee 94 mult
79.92 Peaslee 94 mult

mult[frag] X
21.65 Peaslee 94 mult
27.28 Peaslee 94 mult
30.9 Peaslee 94 mult
37.22 Peaslee 94 mult
53.96 Peaslee 94 mult
79.92 Peaslee 94 mult

n X
46.16 Quednau 96 mult

fragb X
53.96 Donzaud 95 angp

Be X
30.9 Cornell 96 angp,cor,mass,mult,p

C X
30.9 Cornell 96 angp,cor,mass,mult,p

charged (chargeds) X
30.9 Cornell 96 angp,cor,mass,mult,p

mult[frag] mult[charged] X
21.65 Peaslee 94 mult
27.28 Peaslee 94 mult
30.9 Peaslee 94 mult
37.22 Peaslee 94 mult
53.96 Peaslee 94 mult
79.92 Peaslee 94 mult

frag mult[charged] X
21.65 Tsang 97 a-dep,et,mult
27.28 Tsang 97 a-dep,et,mult
30.9 Tsang 97 a-dep,et,mult
37.22 Tsang 97 a-dep,et,mult
53.96 Tsang 97 a-dep,et,mult
79.92 Tsang 97 a-dep,et,mult

n fragb X
46.16 Quednau 96 angp,cor,cs,mult

2He X
21.65 Tsang 97 ang,cor
27.28 Tsang 97 ang,cor
30.9 Tsang 97 ang,cor

C Be X
30.9 Cornell 96 angp,cor,mass,mult,p

^{84}Kr Pb

X
85.7 – 188.7 Nilsen 95 a-dep,cs

fragb X
85.7 – 188.7 Nilsen 95 a-dep,cs

^{84}Kr U

n 2fragt X
46.16 Quednau 96 cor

Kr p

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

Kr nucleus

multicharged X
87.25 – 184.2 Nilsen 94 a-dep,cs
Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs
(showers) 2shower X
116.2 Ghosh 94B ang,col
2grey (greys) X
116.2 Ghosh 94B ang,col
2black (blacks) X
116.2 Ghosh 94B ang,col
grey (greys) (showers) shower X
116.2 Ghosh 94B ang,col
black (blacks) (showers) shower X
116.2 Ghosh 94B ang,col
black (blacks) grey (greys) X
116.2 Ghosh 94B ang,col

Kr C

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

Kr Al

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

Kr Cu

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

Kr Zr

π^0 X
140.9 Schwalb 94 cs,mult,pt
mult[π^0] mult[charged] X
140.9 Schwalb 94 cor,mult

Kr Sn

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

Kr Au

frag X
21.49 Williams 97 a-dep,et,p
27.08 Williams 97 a-dep,et,p
30.67 Williams 97 a-dep,et,p
36.94 Williams 97 a-dep,et,p
53.55 Williams 97 a-dep,et,p
79.28 Williams 97 a-dep,et,p

Kr Pb

Cd X
87.25 – 184.2 Nilsen 94 a-dep,cs

^{86}Kr ^{9}Be

fragb X
93.48 Weber 94 cs,p

^{86}Kr Ni

γ X
29.21 Schutz 98 angp,p
Schutz 97 angp,p
π^0 X
29.21 Schutz 97 p,pt
2γ X
29.21 Schutz 98 cor
Schutz 97 cor

^{86}Kr Cu

fragb X
93.48 Weber 94 cs,p

^{86}Kr Zr

η X
145.5 Berg 94 cs,pt
2γ X
145.5 Berg 94 mass

^{86}Kr ^{93}Nb

2frag X
26.6 Popescu 98 angp,cor,p

^{86}Kr Ta

fragb X
93.48 Weber 94 cs,p

^{86}Kr ^{197}Au

^{194}Au X
145.5 Aumann 94 cs
^{196}Au X
145.5 Aumann 94 cs

Nb C

fragb X
222.1 Brady 94 a-dep,cs,pt

Nb Al

n X
70.41 Heilbronn 98 angp,p

Nb Nb

n X
70.41 Heilbronn 98 angp,p
87.89 Elaasar 94 angp,p
92.35 Heilbronn 98 angp,p
n mult[charged] X
87.89 Htun 98
angp,col,mult,pt

Ru Ru

charged mult[charged] X
96.12 Buta 98B
angp,cor,cs,mass,mult,p,pt

Ag *p*

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag nucleus

multicharged X
109.5 – 240.9 Nilsen 94 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag Li

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag C

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag Al

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag Cu

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag Sn

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

Ag Pb

X
109.5 – 240.9 Nilsen 95 a-dep,cs
fragb X
109.5 – 240.9 Nilsen 95 a-dep,cs
Cd X
109.5 – 240.9 Nilsen 94 a-dep,cs

^{112}Sn ^{112}Sn

2He mult[frag] mult[charged] X
30.9 Kunde 97
ang,angp,cor,mult
2He mult[*n*] mult[frag] X
30.9 Kunde 97
ang,angp,cor,mult

^{124}Sn ^{124}Sn

2He mult[frag] mult[charged] X
34.21 Kunde 97
ang,angp,cor,mult
2He mult[*n*] mult[frag] X
34.21 Kunde 97
ang,angp,cor,mult

^{129}Xe Be

frag X
156.8 Schuttauf 96 p,pt

^{129}Xe C

frag X
156.8 Schuttauf 96 p,pt

^{129}Xe Al

frag X
156.8 Schuttauf 96 p,pt

^{129}Xe ^{27}Al

fragb X
186.8 Reinhold 98 a-dep,cs,p
^{123}Cs X
186.8 Summerer 95 a-dep,cs
^{125}Cs X
186.8 Summerer 95 a-dep,cs
^{127}Cs X
186.8 Summerer 95 a-dep,cs
^{129}Cs X
186.8 Summerer 95 a-dep,cs
Cs X
186.8 Summerer 95 a-dep,cs

^{129}Xe Cu

mult[frag] X
37.8 Bruno 94 mult
frag X
37.8 Bruno 94 angp,cs,p
156.8 Schuttauf 96 p,pt

^{129}Xe In

frag X
156.8 Schuttauf 96 p,pt

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^{129}Xe Sn

mult[p] mult[fragt] X
39.9 Marie 98 a-dep,angp,cor,mult,p
mult[deuteron] mult[fragt] X
39.9 Marie 98 a-dep,angp,cor,mult,p
mult[trit] mult[fragt] X
39.9 Marie 98 a-dep,angp,cor,mult,p
mult[He] mult[fragt] X
39.9 Marie 98 a-dep,angp,cor,mult,p
mult[^{4}He] mult[fragt] X
39.9 Marie 98 a-dep,angp,cor,mult,p
mult[fragt] mult[fragb] X
39.9 Marie 98 a-dep,angp,cor,mult,p
3frag (frags) X
31.77 Rivet 98 angp,col,p

^{129}Xe ^{139}La

mult[frag] X
28.03 Llope 95 a-dep,col,mult
33.25 Llope 95 a-dep,col,mult
37.8 Llope 95 a-dep,col,mult
41.9 Llope 95 a-dep,col,mult

^{129}Xe Au

frag X
156.8 Schuttauf 96 p,pt

^{129}Xe U

frag X
156.8 Schuttauf 96 p,pt

Xe I

charged mult[charged] X
124.8 Buta 98B angp,cor,cs,mass,mult,p,pt

Xe Cs

charged mult[charged] X
124.8 Buta 98B angp,cor,cs,mass,mult,p,pt

^{132}Xe p

shower X
222.1 Basova 95B p

^{132}Xe nucleus

mult[shower] X
222.1 Basova 95 mult
mult[grey] X
222.1 Basova 95 mult
mult[htrack] X
222.1 Basova 95 mult
mult[black] X
222.1 Basova 95 mult
shower X
222.1 Basova 95 mult
Basova 95B p
grey X
222.1 Basova 95 mult
Basova 95B angp
black X
222.1 Basova 95 mult
Basova 95B angp
mult[grey] mult[shower] X
222.1 Basova 95 cor,mult
mult[htrack] mult[shower] X
222.1 Basova 95 cor,mult
mult[htrack] mult[grey] X
222.1 Basova 95 cor,mult

^{132}Xe nucleus

mult[black] mult[shower] X
222.1 Basova 95 cor,mult
mult[black] mult[grey] X
222.1 Basova 95 cor,mult
mult[htrack] mult[black] X
222.1 Basova 95 cor,mult

^{132}Xe ^{51}Va

p X
38.07 Sapienza 98 angp

^{136}Xe strangelet

nucleus strangelet
10.69 Perilloisaac 98 –

^{139}La ^{12}C

π^- fragb X
198.8 Hashimoto 94 a-dep,cs,p,pt

^{139}La ^{139}La

π^- fragb X
198.8 Hashimoto 94 a-dep,cs,p,pt

La C

fragb X
265.1 Brady 94 a-dep,cs,pt

La La

p X
194.8 Dardenne 94 angp,p
frag X
194.8 Dardenne 94 angp,p
deuteron X
194.8 Dardenne 94 angp,p
^{3}H X
194.8 Dardenne 94 angp,p
^{3}He X
194.8 Dardenne 94 angp,p
^{4}He X
194.8 Dardenne 94 angp,p
n mult[charged] X
100.6 Htun 98 angp,col,mult,pt
131.6 Htun 98 angp,col,mult,pt

Gd ^{238}U

3frag (frags) X
44.03 Rivet 98 angp,col,p

^{181}Ta ^{197}Au

γ X
49.94 Schutz 98 angp,p
Schutz 97 angp,p
2γ X
49.94 Schutz 98 cor
Schutz 97 cor

Au p

frag X
2264 Stocker 95 a-dep,cs
Waddington 94 a-dep,cs
fragb X
299.1 – 333.3 Rusch 94 mass,mult,pt

Au nucleus

mult[charged] X
2264 Cherry 94B mult
2285 Adamovich 95D mult
mult[charged] (neutrals)
2285 Adamovich 94E angp
mult[$\pi^\pm$] X
2285 Adamovich 95D mult

Au nucleus

mult[p] X
2264 Cherry 94 mult
2285 Adamovich 95D mult
mult[He] X
2285 Adamovich 94C mult
mult[^{4}He] X
2264 Cherry 94 mult
Cherry 94B mult
mult[fragb] X
2264 Cherry 95 mult
Cherry 94B mult
2285 Adamovich 95D mult
mult[shower] X
2264 Cherry 94 mult
2285 Adamovich 95D mult,p
mult[grey] X
2285 Adamovich 95F mult
Adamovich 95I mult
mult[htrack] X
2264 Cherry 94 mult
mult[black] X
2264 Cherry 94B mult
2285 Adamovich 95F mult
multicharged X
2264 Stocker 95 a-dep,cs
Nilsen 94 a-dep,cs
Waddington 94 a-dep,cs
shower X 0fragb
2264 Cherry 94 p
2285 Adamovich 95I mult
shower X
2264 Cherry 94 p
Cherry 94B mult,p
2285 Adamovich 95D mult,p
Adamovich 95I mult
grey X
2264 Cherry 94B mult
2285 Adamovich 95E angp
Adamovich 95I mult,p
grey X 0fragb
2285 Adamovich 95I mult,p
black X
2264 Cherry 94B angp,mult
2285 Adamovich 95I mult
black X 0fragb
2285 Adamovich 95I mult
p X
2264 Cherry 94B mult
frag X
2264 Cherry 95 cs,mass
2284 Andreeva 97B mult,pt
fragb X
2264 Cherry 94 mult
Cherry 94B mult
2284 Andreeva 98 cs
^{4}He X
2264 Cherry 94 pt
Cherry 94B mult
He X
2264 Dabrowska 97 pt
2285 Adamovich 94C angp,mult
Adamovich 94E angp
Os X
2264 Nilsen 94 a-dep,cs
Ir X
2264 Nilsen 94 a-dep,cs
Pt X
2264 Nilsen 94 a-dep,cs
Au X
2264 Nilsen 94 a-dep,cs
Hg X
2264 Nilsen 94 a-dep,cs
mult[^{4}He] mult[fragb] X
2264 Cherry 95 mult

Au nucleus

mult[p] mult[shower] X
2264 Cherry 94 mult
mult[shower] mult[fragb] X
2264 Cherry 94B cor,mult
mult[grey] mult[shower] X
2285 Adamovich 95F cor,mult
mult[black] mult[shower] X
2264 Cherry 94 mult
Cherry 94B cor,mult
2285 Adamovich 95F cor,mult
mult[black] mult[grey] X
2264 Cherry 94 mult
2285 Adamovich 94E mult
mult[^{4}He] shower X
2285 Adamovich 95I mult
mult[^{4}He] grey X
2285 Adamovich 95I mult
mult[^{4}He] black X
2285 Adamovich 95I mult
shower fragb X
2285 Adamovich 95I mass,mult
grey fragb X
2285 Adamovich 95I mass,mult
black fragb X
2285 Adamovich 95I mass,mult
He mult[shower] X
2285 Adamovich 94C cor,mult,pt

Au C

mult[fragb] X
333.3 Elliott 96 col,mult
Gilkes 94 col,mult
frag X
333.3 Lauret 98 et,p
2264 Stocker 95 a-dep,cs
Waddington 94 a-dep,cs
fragb X
299.1 – 333.3 Rusch 94 mass,mult,pt
333.3 Brady 94 a-dep,cs,pt
Hg X
2264 Nilsen 94 a-dep,cs
p mult[charged] X
333.3 Hauger 98 a-dep,mult,p
frag mult[charged] X
333.3 Hauger 98 a-dep,mult,p
deuteron mult[charged] X
333.3 Hauger 98 a-dep,mult,p
^{3}He mult[charged] X
333.3 Hauger 98 a-dep,mult,p
He mult[charged] X
333.3 Hauger 98 a-dep,mult,p
3fragb X
299.1 – 333.3 Rusch 94 ang,cor

Au Al

charged X
2128 Barrette 95B cs,p
Voloshin 95 angp,pt
p X
2128 Bennett 98 mult,p,pt
$\bar{p}$ X
2128 Beavis 97 cs,mult,p,pt
2167 Beavis 95 p
deuteron X
2128 Bennett 98 mult,p,pt
^{3}H X
2128 Bennett 98 mult,p,pt

Au Al

^{3}He X
2128 Bennett 98 mult,p,pt
^{4}He X
2128 Bennett 98 mult,p,pt
Hg X
2264 Nilsen 94 a-dep,cs

Au Cu

charged X
2128 Barrette 95B cs,p
Voloshin 95 angp,pt
p X
2128 Bennett 98 mult,p,pt
$\bar{p}$ X
2128 Beavis 97 cs,mult,p,pt
2167 Beavis 95 p
frag X
2264 Stocker 95 a-dep,cs
Waddington 94 a-dep,cs
deuteron X
2128 Bennett 98 mult,p,pt
^{3}H X
2128 Bennett 98 mult,p,pt
^{3}He X
2128 Bennett 98 mult,p,pt
^{4}He X
2128 Bennett 98 mult,p,pt
Hg X
2264 Nilsen 94 a-dep,cs

Au Ag

charged X
2285 Stocker 95 p
Adamovich 94 p
shower X 0fragb
2285 Stocker 95 p
Adamovich 94 p
Adamovich 94B p
shower X
2285 Stocker 95 p
Adamovich 94 p
shower fragb X
2285 Stocker 95 p
Adamovich 94 p

Au Sn

Hg X
2264 Nilsen 94 a-dep,cs

Au Pt

charged X
2128 Lowe 96 angp,cs
p X
2128 Lowe 96 a-dep,angp,mass
2266 Saito 94 a-dep,angp,cs,p
$\bar{p}$ X
2128 Lowe 96 a-dep,angp,mass
X strangelet
2128 Lowe 96 angp,cs
deuteron X
2128 Lowe 96 a-dep,angp,mass
2266 Saito 94 a-dep,angp,cs,p
^{3}H X
2128 Lowe 96 a-dep,angp,mass
2266 Saito 94 a-dep,angp,cs,p
^{4}H$_{ss}$ X
2128 Rusek 95 cs
^{3}He X
2128 Lowe 96 a-dep,angp,mass

Au Pt

^{3}He X
2266 Saito 94 a-dep,angp,cs,p
^{4}He X
2128 Lowe 96 a-dep,angp,mass
2266 Saito 94 a-dep,angp,cs,p
^{5}He$_s$ X
2128 Lowe 96 a-dep,angp,mass
^{5}He$_{ss}$ X
2128 Rusek 95 cs
^{6}He X
2128 Lowe 96 a-dep,angp,mass
^{6}He$_{ss}$ X
2128 Lowe 96 a-dep,angp,mass
^{8}He X
2128 Lowe 96 a-dep,angp,mass
^{6}Li X
2128 Lowe 96 a-dep,angp,mass
^{7}Li X
2128 Lowe 96 a-dep,angp,mass
^{8}Li X
2128 Lowe 96 a-dep,angp,mass
^{7}Be X
2128 Lowe 96 a-dep,angp,mass

Au Au

X
2246 Barrette 94 pt
mult[charged] X
2285 Ahle 99 cs,mult,p,pt
charged X
108.2 Buta 97B angp,p
2128 Barrette 95B cs,p
Barrette 95E et,p
Voloshin 95 angp,pt
2285 Ashktorab 98 mult,p,pt
Ashktorad 95 angp
Stocker 95 pt
Adamovich 94 p
mult[He] X
2285 Adamovich 94C mult
mult[frag] X
42.79 Petrovici 95 mult
hadron X
2285 Ahle 94 cs,et,p
hadron (hadrons)
2128 Zhang 95B col,et,p
2246 Barrette 94D col,et
shower X 0fragb
2285 Stocker 95 p
Adamovich 94 p
Adamovich 94B p
shower X
2285 Stocker 95 p
Adamovich 94 p
Adamovich 94B p
γ X
2304 David 96B pt
π^+ X
333.3 Andronic 97B angp,mult,p
Muntz 95 angp,p
Miskowiec 94 angp,p
346.7 Andronic 98 pt
394 – 2285 Baillie 97 mult
547.5 Back 98 p,pt
Back 98B p,pt

Entries are in order of beam name, then target name, then multiplicity of final state. Particle names are ordered as described in the legend on page 157 and as listed in the Particle Vocabulary. See also the Table of Contents of this Index beginning on the page 158. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). Beam momenta are p_{lab} in GeV/c, or in parentheses E_{cm} in GeV.

Au Au

π^+ X

	Ogilvie 98	cs
954	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
1353	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
1750	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
2128	Barrette 95E	p,pt
	Zhang 95B	p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
2284	Back 98	p,pt
2285	Ashktorab 98	mult,p,pt
	Ogilvie 97	mult,p
	Ashktorab 96	p,pt
	Ashktorad 95	p,pt
	Stocker 95	mult,p,pt
	Gonin 94	pt
	Hamagaki 94	p,pt
2304	Back 98B	p,pt
	David 96	angp,pt
	David 96B	p,pt

π^0 X

333.3	Schwalb 94	cs,mult,pt
2285	Ashktorad 95	angp

π^- X

333.3	Andronic 97B	angp,mult,p
	Buta 96	p,pt
346.7	Andronic 98	pt
547.5	Back 98B	p,pt
954	Back 98B	p,pt
1353	Back 98B	p,pt
	Liu 98	p,pt
1750	Back 98B	p,pt
2128	Barrette 95E	p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
2285	Ashktorab 98	mult,p,pt
	Ogilvie 97	mult,p
	Ashktorab 96	p,pt
	Ashktorad 95	p,pt
	Stocker 95	mult,p,pt
	Gonin 94	pt
	Hamagaki 94	p,pt
2304	Back 98B	p,pt
	David 96	angp,pt
	David 96B	p,pt

K^+ X

333.3	Shin 98	angp,pt
	Wang 97E	a-dep,angp,asym,cs,mult,p
	Elmer 96	a-dep,angp,p
	Miskowiec 94	angp,cs,p
394 – 2285	Baillie 97	mult
547.5	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
954	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
1353	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
1750	Back 98	p,pt
	Back 98B	p,pt
	Ogilvie 98	cs
2128	Barrette 95E	p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
2284	Back 98	p,pt
	Ogilvie 98	p,pt
2285	Ashktorab 98D	mult,p,pt
	Ogilvie 97	mult,p,pt
	Ashktorab 96	p,pt
	Gazdzicki 96	mult
	Ashktorad 95	p
	Stocker 95	mult,p,pt

Au Au

K^+ X

	Gonin 94	mult,p
2304	Back 98B	p,pt
	David 96B	p,pt

K^- X

2128	Barrette 95E	p,pt
2167	Barrette 98	p,pt
2284	Ogilvie 98	p,pt
2285	Ashktorab 98D	mult,p,pt
	Ogilvie 97	mult,p,pt
	Ashktorab 96	p,pt
	Gazdzicki 96	mult
	Ashktorad 95	p
2304	David 96B	p,pt

p X

87.27	Poggi 95	mult,p
87.27 – 187.4	Dzelalija 95	mult,p
108.2	Dzelalija 95	p
	Poggi 95	mult,p
143.2	Poggi 95	mult,p
143.2 – 366.7	Lisa 95	angp,p
333.3	Lynen 98	p
	Buta 96	p,pt
	Muntz 95	angp,p
	Miskowiec 94	angp,p
366.7	Wang 95D	angp,col,p,pt
547.5	Back 98B	p,pt
954	Back 98B	p,pt
1353	Back 98B	p,pt
	Liu 98	p,pt
1750	Back 98B	p,pt
2128	Bennett 98	mult,p,pt
	Barrette 95E	p,pt
	Beavis 95B	angp,p,pt
	Zhang 95B	p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
	Shigaki 95	p,pt
2185	Ashktorab 98B	angp,p,pt
2266	Kaufman 96	cs
2285	Ashktorab 98	mult,p,pt
	Ogilvie 97	mult,p
	Ashktorab 96	p,pt
	Ashktorad 95	p
	Stocker 95	mult,p,pt
	Gonin 94	p,pt
2304	Back 98B	p,pt
	David 96	angp,pt
	David 96B	p,pt
2305	Kaufman 97	angp,p
	Kaufman 94B	angp,p

p(spect) X

239.5	Lynen 98	p
287.5	Lynen 98	p
333.3	Lynen 98	p

n(spect) X

239.5	Lynen 98	p
287.5	Lynen 98	p
333.3	Lynen 98	p

$\bar{p}$ X

2128	Beavis 97	cs,mult,p,pt
	Beavis 95B	angp,p,pt
2167	Barrette 98	p,pt
	Beavis 95	p
	Beavis 95C	p
2246	Hayano 94	p
2285	Ashktorab 96	p,pt
	Stocker 95	p
2305	Ahle 98	cs,p,pt
	Ashktorab 98C	p,pt

Λ X

2285	Ahmad 98	mult,p
	Ahmad 96	p,pt

X strangelet

2128	Beavis 95B	angp,p,pt

nucleus X

2128	Beavis 95B	angp,p,pt

Au Au

frag X

87.27	Kotte 95	a-dep,ang,cor,p
	Kunde 95	mass,p
87.27 – 187.4	Dzelalija 95	mult,p
87.27 – 287.5	Crochet 97C	col
	Bastid 96	angp,p,pt
108.2	Buta 96	p
	Kotte 95	a-dep,ang,cor,p
143.2	Buta 96	p
	Kotte 95	a-dep,ang,cor,p
	Petrovici 95	p,pt
143.2 – 366.7	Partlan 95	mult,p
187.4	Buta 96	p
	Kotte 95	a-dep,ang,cor,p
239.5	Pochodzalla 95	cs,p
333.3	Kunde 95	mass,p

fragb X

239.5	Lynen 98	p
287.5	Lynen 98	p
333.3	Lynen 98	p

fragt X

239.5	Lynen 98	p
287.5	Lynen 98	p
333.3	Lynen 98	p

deuteron X

87.27	Poggi 95	mult,p
108.2	Poggi 95	mult,p
143.2	Poggi 95	mult,p
143.2 – 366.7	Lisa 95	angp,p
333.3	Buta 96	p,pt
366.7	Wang 95D	angp,col,p,pt
2128	Bennett 98	mult,p,pt
	Beavis 95B	angp,p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
2185	Ashktorab 98B	angp,p,pt
2266	Kaufman 96	cs
2304	David 96B	p,pt

$\overline{\text{deuteron}}$ X

2128	Beavis 95B	angp,p,pt

^{3}H X

87.27	Poggi 95	mult,p
108.2	Poggi 95	mult,p
143.2	Poggi 95	mult,p
143.2 – 366.7	Lisa 95	angp,p
2128	Bennett 98	mult,p,pt
	Beavis 95B	angp,p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt
2185	Ashktorab 98B	angp,p,pt

^{3}He X

87.27	Poggi 95	mult,p
108.2	Poggi 95	mult,p
143.2	Poggi 95	mult,p
143.2 – 366.7	Lisa 95	angp,p
2128	Bennett 98	mult,p,pt
	Beavis 95B	angp,p,pt
2167	Barrette 98	p,pt
	Voloshin 98	col,pt

^{4}He X

60.92	Lynen 98	cs
87.27	Lynen 98	cs
	Poggi 95	mult,p
108.2	Lynen 98	cs
	Poggi 95	mult,p
126.5	Lynen 98	cs
143.2	Poggi 95	mult,p
143.2 – 366.7	Lisa 95	angp,p
2128	Bennett 98	mult,p,pt
	Beavis 95B	angp,p,pt
2167	Voloshin 98	col,pt

He X

108.2	Dzelalija 95	p
2285	Adamovich 94C	angp,mult

Au Au

^{5}Li X

60.92	Lynen 98	cs
87.27	Lynen 98	cs
108.2	Lynen 98	cs
126.5	Lynen 98	cs

Li X

108.2	Dzelalija 95	p

^{6}Li X

2128	Beavis 95B	angp,p,pt

Bor X

108.2	Dzelalija 95	p

C X

108.2	Dzelalija 95	p

charged (chargeds) X

547.5	Ajitanand 98	col
954	Ajitanand 98	col
1353	Ajitanand 98	col
1750	Ajitanand 98	col

charged mult[charged] X

82.58 – 287.5	Buta 98B	angp,cor,cs,mass,mult,p,pt

mult[π^0] mult[charged] X

333.3	Schwalb 94	cor,mult

π^+ mult[charged] X

333.3	Muntz 95	angp,mult,p
	Miskowiec 94	angp,cor,mult
2285	Ahle 99	cs,mult,p,pt

$2\pi^+$ X

547.5	Back 98	cor
954	Back 98	cor
1353	Back 98	cor
1750	Back 98	cor
2128	Barrette 97	col,cor,p,pt
	Barrette 95E	cor
	Miskowiec 95	cor
2167	Barrette 98	cor
2284	Back 98	cor
2304	David 96C	cor

$\pi^+ \pi^-$ X

2128	Barrette 97	col,cor,p,pt
	Barrette 95E	cor
2167	Barrette 98	cor
2304	David 96C	cor

$2\pi^-$ X

2128	Barrette 97	col,cor,p,pt
	Barrette 95E	cor
	Miskowiec 95	cor
2167	Barrette 98	cor
2266	Kaufman 96	cor
2304	David 96C	cor

K^+ mult[charged] X

333.3	Miskowiec 94	angp,cor,mult
2285	Ahle 99	cs,mult,p,pt

mult[p] K^+ X

2284	Ogilvie 98	cs

mult[p] K^- X

2284	Ogilvie 98	cs

$2K^+$ X

2167	Barrette 98	cor
2304	David 96C	cor

p mult[charged] X

333.3	Muntz 95	angp,mult,p
2285	Ahle 99	cs,mult,p,pt

n mult[charged] X

87.27	Zhang 95C	ang,angp,col,mult,p,pt
143.2	Zhang 95C	ang,angp,col,mult,p,pt
187.4	Zhang 95C	ang,angp,col,mult,p,pt
251.8	Zhang 95C	ang,angp,col,mult,p,pt

$\bar{p}$ mult[charged] X

2167	Beavis 95C	mult,p

Au Au

$\bar{p}$ (charged-hadrons) X

2305	Ahle 98	cs,p,pt

$p\ \pi^\pm$ X

2304	David 96	cor

$p\ \pi^+$ X

346.7	Andronic 98	mass
2167	Barrette 98	cor
2304	David 96C	cor

$p\ \pi^-$ X

346.7	Andronic 98	mass
2167	Barrette 98	cor
2304	David 96C	cor

2p X

2304	David 96C	cor

frag mult[charged] X

87.27	Kunde 95	cor,mass,mult
333.3	Kunde 95	cor,mass,mult

frag mult[frag] X

239.5	Hauger 96B	a-dep,col,mass,p,pt

shower fragb X

2285	Stocker 95	p
	Adamovich 94	p
	Adamovich 94B	p

p fragb X

2185	Ashktorab 98B	angp,p,pt

deuteron fragb X

2185	Ashktorab 98B	angp,p,pt

^{3}H fragb X

2185	Ashktorab 98B	angp,p,pt

He mult[shower] X

2285	Adamovich 94C	cor,mult,pt

p fragt fragb X

2304	David 99	p,pt

deuteron fragt fragb X

2304	David 99	p,pt

^{3}H fragt fragb X

2304	David 99	p,pt

^{3}He fragt fragb X

2304	David 99	p,pt

^{4}He fragt fragb X

2304	David 99	p,pt

mult[p] mult[π^+] mult[π^-] mult[charged] X

2128	Barrette 97B	angp,cor,et,p,pt

Au Pb

K^- X

2285	Skank 96	p,pt

p X

2266	Pruneau 98	p,pt

$\bar{p}$ X

2266	Dover 98	mult,p,pt
	Pruneau 98	p,pt
	Armstrong 97	p,pt
2285	Nagle 97	mult,p,pt
	Skank 96	p,pt

X strangelet

2266	Pruneau 98	cs
	Armstrong 97B	angp,cs
2285	Armstrong 99	cs
	Barish 98	cs,mass
	Barish 97B	cs
	Decataldo 97	cs,mass,p

frag X

2264	Stocker 95	a-dep,cs
	Waddington 94	a-dep,cs
2266	Armstrong 97B	angp,mass

Au Pb

fragb X

299.1 – 333.3	Rusch 94	mass,mult,pt

deuteron X

2266	Pruneau 98	p,pt

$\overline{\text{deuteron}}$ X

2266	Dover 98	mult,p,pt
2285	Nagle 97	cs

^{3}H X

2266	Pruneau 98	p,pt

^{3}He X

2266	Pruneau 98	p,pt

^{4}He X

2266	Pruneau 98	p,pt

^{6}He X

2266	Pruneau 98	p,pt

Hg X

2264	Nilsen 94	a-dep,cs

3fragb X

299.1 – 333.3	Rusch 94	ang,cor

Au U

charged X

2128	Barrette 95B	cs,p
	Voloshin 95	angp,pt

^{197}Au p

fragb X

2157	Hirzebruch 95	cs
2276	Geer 95	a-dep,cs

^{197}Au nucleus

inelastic

2276	Singh 94	cs

mult[He] X

2276	Singh 94	cs

mult[shower] X

2297	Adamovich 95H	mult,p

mult[grey] X

2276	Singh 96	mult

mult[htrack] X

2276	Singh 96	mult

mult[black] X

2276	Singh 96	mult

shower X

2296	Andreeva 97	mult
2297	Adamovich 95H	p

shower X 0fragb

2297	Adamovich 95H	p

grey X

2276	Singh 96	mult
2296	Andreeva 97	mult

htrack X

2276	Singh 96	mult

black X

2276	Singh 96	mult
2296	Andreeva 97	mult

$\pi^\pm$ X

2296	Andreeva 97	mult

p X

2276	Singh 96	mult,p
2296	Andreeva 97	mult

fragb X

2276	Singh 96	mult,p
	Geer 95	a-dep,cs
	Jain 95	pt
	Jain 94	cs
2297	Andreeva 98B	p,pt

^{4}He X

2276	Jain 95	pt

He X

2276	Jain 96	p,pt
	Singh 96	mult,p
	Singh 94	angp,mult,pt

mult[grey] shower X

2296	Andreeva 97	mult

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^{197}Au nucleus

mult[black] shower X
2296 Andreeva 97 mult
2shower X
2276 Mukhopadhyay 95 angp,cor,p
grey mult[shower] X
2296 Andreeva 97 mult
mult[black] grey X
2296 Andreeva 97 mult
black mult[shower] X
2296 Andreeva 97 mult
black mult[grey] X
2296 Andreeva 97 mult
p mult[shower] X
2296 Andreeva 97 mult
p mult[grey] X
2296 Andreeva 97 mult
p mult[black] X
2296 Andreeva 97 mult
fragb (fragbs) X
2276 Jain 95 ang,col,p,pt
mult[^{4}He] fragb X
2276 Jain 94 a-dep,cor,mult
fragt fragb X
2297 Andreeva 98B cor
He fragb X
2276 Singh 97 angp,cor,pt
2He X
2276 Singh 94 cor
2shower mult[shower] X
2276 Mukhopadhyay 95 cor,mult,p
3shower X
2276 Mukhopadhyay 95 angp,cor,p
2grey (greys) X
2276 Cherry 96 a-dep,col,mult
2fragb (fragbs) X
2276 Cherry 96 a-dep,col,mult
He mult[shower] fragb X
2276 Singh 97 angp,cor,mult,pt
2He (He's) X
2276 Cherry 96 a-dep,col,mult
3shower mult[shower] X
2276 Mukhopadhyay 95 cor,mult,p
3frag (frags) X
2276 Jain 96 ang,cor
3fragb (fragbs) X
2276 Jain 94B angp,cor
(He's) 3^{4}He X
2276 Jain 94B angp,cor
3He (He's) X
2276 Jain 96 ang,cor
mult[shower] 3fragb (fragbs) X
2276 Jain 94B angp,cor,mult
mult[htrack] 3fragb (fragbs) X
2276 Jain 94B angp,cor,mult
(He's) 3^{4}He mult[htrack] X
2276 Jain 94B angp,cor,mult
(showers) 5shower X
2297 Adamovich 95H p
(showers) 50shower fragb X
2276 Singh 94B col,mult,p
(showers) 300shower X
2297 Adamovich 95H p

^{197}Au Be

frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt

^{197}Au C

X
2435 He 94 cs
mult[fragb] X
240.6 Botvina 95 a-dep,col,cs
frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt
fragb X
240.6 Begemannblai 98 a-dep,mass,mult,p
2157 Hirzebruch 95 cs
2276 Geer 95 a-dep,cs
2435 He 94 cs
(frags) mult[charged] X
335 Hauger 96C a-dep,cs,mass,p,pt
2fragb X
240.6 Begemannblai 98 a-dep,cor,mass,p
3fragb X
240.6 Begemannblai 98 a-dep,cor,mass,p

^{197}Au ^{12}C

π^0 X
289 Averbeck 97 angp,mult,pt
η X
289 Averbeck 97 angp,mult,pt

^{197}Au Al

X
2435 He 94 cs
mult[fragb] X
240.6 Botvina 95 a-dep,col,cs
frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt
fragb X
2157 Hirzebruch 95 cs
2276 Geer 95 a-dep,cs
2435 He 94 cs

^{197}Au Fe

X
2435 He 94 cs
fragb X
2435 He 94 cs

^{197}Au Cu

X
2435 He 94 cs
mult[fragb] X
240.6 Botvina 95 a-dep,col,cs
frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt
fragb X
240.6 Begemannblai 98 a-dep,mass,mult,p
2157 Hirzebruch 95 cs
2276 Geer 95 a-dep,cs
2435 He 94 cs

^{197}Au Cu

2fragb X
240.6 Begemannblai 98 a-dep,cor,mass,p
3fragb X
240.6 Begemannblai 98 a-dep,cor,mass,p

^{197}Au Ag

fragb X
2157 Hirzebruch 95 cs

^{197}Au In

frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt

^{197}Au Sn

X
2435 He 94 cs
fragb X
2276 Geer 95 a-dep,cs
2435 He 94 cs

^{197}Au Au

frag X
188.3 Schuttauf 96 p,pt
240.6 Schuttauf 96 p,pt
289 Schuttauf 96 p,pt
335 Schuttauf 96 p,pt

^{197}Au ^{197}Au

charged X
108.8 Reisdorf 97 angp,et,mult,p
143.9 Reisdorf 97 angp,et,mult,p
188.3 Reisdorf 97 angp,et,mult,p
240.6 Crochet 97 angp,et,mult,p
2138 Barrette 97B ang,et,p
mult[*p*] X
188.3 Lambrecht 94 col
240.6 Lambrecht 94 col
289 Lambrecht 94 col
mult[*n*] X
188.3 Lambrecht 94 col
240.6 Lambrecht 94 col
289 Lambrecht 94 col
π^+ X
335 Muntz 97 angp,p
2138 David 97B ang,angp,et,p
π^0 X
289 Wolf 98 cs,mult,p,pt
π^- X
2138 David 97B ang,angp,et,p
η X
289 Wolf 98 cs,mult,p,pt
335 Berg 94 cs,pt
p X
335 Muntz 97 angp,p
Xi 97 angp,p
2138 David 97B ang,angp,et,p
frag X
12.15 Ramillien 95 col
deuteron X
335 Xi 97 angp,p
^{3}H X
335 Xi 97 angp,p
^{3}He X
335 Xi 97 angp,p

^{197}Au ^{197}Au

^{4}He X		
335	Xi 97	angp,p
^{6}Li X		
335	Xi 97	angp,p
^{7}Li X		
335	Xi 97	angp,p
^{194}Au X		
335	Aumann 94	cs
^{195}Au X		
335	Aumann 94	cs
^{196}Au X		
335	Aumann 94	cs
2γ X		
335	Berg 94	mass
π^+ mult[π^+] X		
368.5	Hauger 97	col,pt
π^- mult[π^-] X		
368.5	Hauger 97	col,pt
p (fragbs) X		
198	Xi 97	angp,p
p mult[p] X		
368.5	Hauger 97	col,pt
deuteron (fragbs) X		
198	Xi 97	angp,p
^{3}H (fragbs) X		
198	Xi 97	angp,p
^{3}He (fragbs) X		
198	Xi 97	angp,p
^{4}He (fragbs) X		
198	Xi 97	angp,p
^{6}Li (fragbs) X		
198	Xi 97	angp,p
^{7}Li (fragbs) X		
198	Xi 97	angp,p

^{197}Au Pb

X		
2435	He 94	cs
mult[fragb] X		
240.6	Botvina 95	a-dep,col,cs
monopole X		
2170	He 97B	cs
fragb X		
240.6	Begemannblai 98	a-dep,mass,mult,p
2157	Hirzebruch 95	cs
2276	Geer 95	a-dep,cs
2435	He 94	cs
2fragb X		
240.6	Begemannblai 98	a-dep,cor,mass,p
3fragb X		
240.6	Begemannblai 98	a-dep,cor,mass,p

Pb nucleus

charged X		
$3.29 \cdot 10^4$	Dabrowska 98	mult,p
2charged (chargeds) X		
$3.29 \cdot 10^4$	Dabrowska 98	col

Pb Ni

charged X		
$3.271 \cdot 10^4$	Angelis 96	angp,pt

Pb Nb

charged X		
$3.271 \cdot 10^4$	Angelis 96	angp,pt

Pb Au

charged X		
$3.271 \cdot 10^4$	Agakichiev 98B	angp,col

Pb Au

charged X		
	Agakichiev 97	mult,p
hadron$^+$ X		
$3.271 \cdot 10^4$	Agakichiev 98B	pt
hadron$^-$ X		
$3.271 \cdot 10^4$	Agakichiev 98B	pt
$\pi^\pm$ X		
$3.271 \cdot 10^4$	Agakichiev 98B	pt
e^- e^+ X		
$3.271 \cdot 10^4$	Agakichiev 98	mass,pt
	Agakichiev 97	mass,mult,p,pt
$3.312 \cdot 10^4$	Agakichiev 96	mass
e^- e^+ mult[charged] X		
$3.271 \cdot 10^4$	Agakichiev 98	mass,mult
5frag (frags) X		
48.51	Lecolley 96	ang,angp,col,cor,p

Pb Pb

mult[charged] X		
$3.271 \cdot 10^4$	Deinesjones 96	angp,mult,p
charged X		
$3.271 \cdot 10^4$	Angelis 96	angp,pt
$3.29 \cdot 10^4$	Vassiliadis 98	mult
	Panagiotou 96	pt
	Adamovich 95E	angp
charged$^-$ X		
$3.29 \cdot 10^4$	Rosselet 96	pt
hadron X		
$3.29 \cdot 10^4$	Margetis 95	et,p
hadron$^-$ X		
$3.271 \cdot 10^4$	Appelshauser 97	p,pt
$3.29 \cdot 10^4$	Panafiotou 98	p
	Panafiotou 96	p,pt
	Margetis 95	p
charged-hadron X		
$3.29 \cdot 10^4$	Panagiotou 96	pt
$\pi^\pm$ X		
$3.29 \cdot 10^4$	Panafiotou 98C	col
π^+ X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Baillie 97	pt
	Bearden 96B	p,pt
	Boggild 96	p,pt
$3.29 \cdot 10^4$	Aggarwal 98E	col
	Seyboth 97	mult,pt
	Bearden 96D	pt
	Panafiotou 96	pt
$3.312 \cdot 10^4$	Boggild 95	pt
	Boggild 95C	pt
π^0 X		
$3.271 \cdot 10^4$	Angelis 96	p,pt
$3.29 \cdot 10^4$	Aggarwal 98C	pt
	Aggarwal 98D	pt
π^- X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Appelshauser 97	p,pt
	Baillie 97	pt
	Bearden 96B	p,pt
	Boggild 96	p,pt
$3.29 \cdot 10^4$	Aggarwal 98E	col
	Bearden 96D	pt
	Panafiotou 96	pt
ρ X		
$3.29 \cdot 10^4$	Seyboth 97	cs
ω X + ρ X		
$3.271 \cdot 10^4$	Baglin 98B	cs
ω X		
$3.29 \cdot 10^4$	Seyboth 97	cs

Pb Pb

K^+ X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Bormann 97	p,pt
	Kabana 97	p
	Kaneta 97	mult,pt
	Ambrosini 97	angp
	Baillie 97	pt
	Baglin 96	p
	Bearden 96B	p,pt
$3.29 \cdot 10^4$	Aggarwal 98E	col
	Ambrosini 98C	p,pt
	Bearden 98D	pt
	Seyboth 97	mult,pt
	Bearden 96D	pt
	Panafiotou 96	pt
$3.312 \cdot 10^4$	Boggild 95	pt
	Boggild 95C	pt
K^0 X		
$3.29 \cdot 10^4$	Panafiotou 96	pt
K^- X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Bormann 97	p,pt
	Kabana 97	p
	Kaneta 97	mult,pt
	Ambrosini 97	angp
	Baillie 97	pt
	Baglin 96	p
	Bearden 96B	p,pt
$3.29 \cdot 10^4$	Aggarwal 98E	col
	Bearden 98D	pt
	Seyboth 97	mult,pt
	Bearden 96D	pt
	Panafiotou 96	pt
K_S X		
$3.271 \cdot 10^4$	Bormann 97	p,pt
$\phi(1020)$ X		
$3.271 \cdot 10^4$	Friese 97	mult,p,pt
	Baglin 98B	cs
	Baillie 97	cs
$3.29 \cdot 10^4$	Panafiotou 98	pt
	Panafiotou 98B	p,pt
	Seyboth 97	cs
$J/\psi(1S)$ X		
$3.271 \cdot 10^4$	Abreu 99F	cs,p,pt
	Abreu 97S	cs,p,pt
	Abreu 97T	cs,p,pt
	Baglin 96C	cs
$\psi(2S)$ X		
$3.271 \cdot 10^4$	Baglin 96C	cs
p X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Kabana 97	mult,p
	Kaneta 97	mult,pt
	Bearden 98C	pt
	Ambrosini 97	angp
	Baillie 97	pt
	Baglin 96	p
	Bearden 96	p,pt
	Bearden 96B	p,pt
$3.29 \cdot 10^4$	Aggarwal 98C	col
	Aggarwal 98E	col
	Ambrosini 98C	p,pt
	Bearden 98D	pt
	Panafiotou 98	p
	Panafiotou 98C	col
	Seyboth 97	mult,pt
	Bearden 96D	p
	Panafiotou 96	pt
	Panagiotou 96	p
$3.312 \cdot 10^4$	Boggild 95	pt
	Boggild 95C	pt
$\bar{p}$ X		
$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Kabana 97	mult,p
	Kaneta 97	mult,pt
	Bearden 98C	pt
	Ambrosini 97	angp
	Baillie 97	pt

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Pb Pb

$\bar{p}$ X

	Appelquist 96	angp,p
	Baglin 96	p
	Bearden 96B	p,pt
$3.29 \cdot 10^4$	Aggarwal 98E	col
	Ambrosini 98C	p,pt
	Bearden 98D	pt
	Panafiotou 98	p
	Seyboth 97	mult,pt
	Bearden 96D	pt
	Panafiotou 96	pt
	Panagiotou 96	p

Λ X

$3.271 \cdot 10^4$	Bormann 97	p,pt
	Andersen 98	p,pt
	Baillie 97	pt
$3.29 \cdot 10^4$	Panafiotou 98	p
	Vassiliadis 98	pt
	Vassiliadis 98B	cs
	Seyboth 97	mult,pt
	Panafiotou 96	pt
	Vassiliadis 96	pt

$\bar{\Lambda}$ X

$3.271 \cdot 10^4$	Bormann 97	p,pt
	Andersen 98	p,pt
	Baillie 97	pt
$3.29 \cdot 10^4$	Panafiotou 98	p
	Vassiliadis 98	pt
	Vassiliadis 98B	cs
	Seyboth 97	mult,pt
	Panafiotou 96	pt
	Vassiliadis 96	pt

Σ^- X

$3.29 \cdot 10^4$	Vassiliadis 98B	cs

$\bar{\Sigma}^+$ X

$3.29 \cdot 10^4$	Vassiliadis 98B	cs

Ξ^- X

$3.271 \cdot 10^4$	Holme 97	cs,mult
	Odyniec 97	mult,pt
	Andersen 98	p,pt
	Appelshauser 98B	mult,p,pt
	Baillie 97	pt
$3.29 \cdot 10^4$	Vassiliadis 98	pt
	Seyboth 97	mult

$\bar{\Xi}$ X

$3.271 \cdot 10^4$	Baillie 97	pt

$\bar{\Xi}^+$ X

$3.271 \cdot 10^4$	Holme 97	cs,mult
	Odyniec 97	mult,pt
	Andersen 98	p,pt
	Appelshauser 98B	p,pt
	Baillie 97	mult
$3.29 \cdot 10^4$	Vassiliadis 98	pt
	Seyboth 97	mult

Ω^- X

$3.271 \cdot 10^4$	Holme 97	cs,mult
	Andersen 98	p,pt
	Baillie 97	mult
$3.29 \cdot 10^4$	Vassiliadis 98	pt
	Vassiliadis 98B	cs

$\bar{\Omega}^+$ X

$3.271 \cdot 10^4$	Holme 97	cs,mult
	Andersen 98	p,pt
	Baillie 97	mult
$3.29 \cdot 10^4$	Vassiliadis 98	pt
	Vassiliadis 98B	cs

X strangelet

$3.264 \cdot 10^4$	Appelquist 95	cs
$3.271 \cdot 10^4$	Kabana 97	cs
	Baillie 97	cs
	Appelquist 96B	angp,cs
	Baglin 96	cs
$3.29 \cdot 10^4$	Seyboth 97	cs

fragb X

$3.29 \cdot 10^4$	Panagiotou 98	mass,p

Pb Pb

deuteron X

$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Kabana 97	p
	Bearden 98C	pt
	Ambrosini 97	angp
	Appelshauser 97	p,pt
	Baillie 97	pt
	Baglin 96	p
$3.29 \cdot 10^4$	Aggarwal 98C	col
	Aggarwal 98E	col
	Ambrosini 98C	p,pt
	Panafiotou 98	pt

$\overline{\text{deuteron}}$ X

$3.264 \cdot 10^4$	Appelquist 95	cs,p
$3.271 \cdot 10^4$	Kabana 97	p
	Bearden 98C	pt
	Ambrosini 97	angp
	Appelquist 96	angp,p
	Baglin 96	p
$3.29 \cdot 10^4$	Ambrosini 98C	p,pt

^{3}H X

$3.271 \cdot 10^4$	Bearden 98C	pt
	Ambrosini 97	angp
	Baglin 96	p
$3.29 \cdot 10^4$	Aggarwal 98C	col

$^3\bar{\text{H}}$ X

$3.271 \cdot 10^4$	Bearden 98C	pt

^{3}He X

$3.271 \cdot 10^4$	Kabana 97	p
	Ambrosini 97	angp
	Baglin 96	p
$3.29 \cdot 10^4$	Ambrosini 98C	p,pt

$^3\overline{\text{He}}$ X

$3.271 \cdot 10^4$	Kabana 97	p
	Ambrosini 97	angp
	Appelquist 96	angp,p
	Baglin 96	p

^{4}He X

$3.271 \cdot 10^4$	Kabana 97	p
$3.29 \cdot 10^4$	Ambrosini 98C	p,pt

He X

$3.271 \cdot 10^4$	Adamovich 97D	angp,mult,pt

^{6}Li X

$3.271 \cdot 10^4$	Kabana 97	p
$3.29 \cdot 10^4$	Ambrosini 98C	p,pt

^{7}Be X

$3.271 \cdot 10^4$	Kabana 97	p
$3.29 \cdot 10^4$	Ambrosini 98C	p,pt

$\mu^- \mu^+$ X

$3.271 \cdot 10^4$	Abreu 99F	cs,mass,p,pt
	Abreu 97S	cs,mass,p,pt
	Abreu 97T	cs,mass,p,pt
	Baglin 96B	mass
	Baglin 96C	cs,mass
$3.29 \cdot 10^4$	Seyboth 97	cs

2charged X

$3.29 \cdot 10^4$	Panagiotou 96	cor

mult[γ] mult[charged] X

$3.29 \cdot 10^4$	Aggarwal 98C	mult

mult[kaon] mult[π] X

$3.271 \cdot 10^4$	Bormann 97	mult

neutral (neutrals) X

$3.271 \cdot 10^4$	Baglin 96C	pt

2hadron$^-$ X

$3.271 \cdot 10^4$	Appelshauser 97	ang,cor,p,pt

2charged-hadron X

$3.29 \cdot 10^4$	Panagiotou 96	cor

γ mult[charged] X

$3.271 \cdot 10^4$	Angelis 96	mult,pt

2γ X

$3.271 \cdot 10^4$	Angelis 96	mass

Pb Pb

$2\pi^+$ X

$3.271 \cdot 10^4$	Bearden 98	ang,cor,p,pt
	Bearden 98C	cor
	Bearden 96C	cor
	Ferenc 96	cor
$3.29 \cdot 10^4$	Panafiotou 98	cor

$\pi^+ \pi^-$ X

$3.29 \cdot 10^4$	Panafiotou 96	mass
	Panagiotou 96B	cor

$2\pi^-$ X

$3.271 \cdot 10^4$	Bearden 98	ang,cor,p,pt
	Appelshauser 97	ang,cor,p,pt
	Bearden 96C	cor
$3.29 \cdot 10^4$	Panafiotou 98	cor
	Panagiotou 96B	cor
	Rosselet 96	cor
$3.331 \cdot 10^4$	Alber 95	cor,p,pt

$2K^+$ X

$3.271 \cdot 10^4$	Bearden 98C	cor
	Bearden 96C	cor

$K^+ K^-$ X

$3.29 \cdot 10^4$	Panafiotou 98B	mass

$J/\psi(1S)$ (neutrals) X

$3.271 \cdot 10^4$	Abreu 99F	cs,p,pt
	Baglin 96C	cs,et

$\psi(2S)$ (neutrals) X

$3.271 \cdot 10^4$	Baglin 96C	cs,et

$p\ \pi^+$ X

$3.29 \cdot 10^4$	Aggarwal 98C	mass

$p\ \pi^-$ X

$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Panafiotou 96	mass
	Vassiliadis 96	mass
$3.331 \cdot 10^4$	Vassiliadis 95	mass

$\bar{p}\ \pi^+$ X

$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Panafiotou 96	mass
	Vassiliadis 96	mass

$\Lambda\ \pi^-$ X

$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Vassiliadis 98B	mass
	Vassiliadis 96	mass

$\bar{\Lambda}\ \pi^+$ X

$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Vassiliadis 98B	mass
	Vassiliadis 96	mass

$\Lambda\ K^-$ X

$3.271 \cdot 10^4$	Baillie 97	mass
$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Vassiliadis 98B	mass
	Vassiliadis 96	mass

$\bar{\Lambda}\ K^+$ X

$3.271 \cdot 10^4$	Baillie 97	mass
$3.29 \cdot 10^4$	Vassiliadis 98	mass
	Vassiliadis 98B	mass
	Vassiliadis 96	mass

$\mu^- \mu^+$ (neutrals) X

$3.271 \cdot 10^4$	Abreu 99F	cs,mass,p,pt
	Abreu 98U	cs,mass,p,pt
	Baglin 96C	cs,mass

^{208}Pb nucleus

mult[grey] X

$3.347 \cdot 10^4$	Singh 96	mult

mult[htrack] X

$3.347 \cdot 10^4$	Singh 96	mult

mult[black] X

$3.347 \cdot 10^4$	Singh 96	mult

grey X

$3.347 \cdot 10^4$	Singh 96	mult

htrack X

$3.347 \cdot 10^4$	Singh 96	mult

^{208}Pb nucleus

black X		
$3.347 \cdot 10^4$	Singh 96	mult
p X		
$3.347 \cdot 10^4$	Singh 96	mult,p
fragb X		
$3.347 \cdot 10^4$	Singh 96	mult,p
He X		
$3.347 \cdot 10^4$	Singh 96	mult,p
mult[He] mult[fragb] X		
$3.347 \cdot 10^4$	Singh 96	cor,mult
He fragb X		
$3.306 \cdot 10^4$	Singh 97	angp,cor,pt
He mult[shower] fragb X		
$3.306 \cdot 10^4$	Singh 97	angp,cor,mult,pt

^{208}Pb C

X		
$3.3 \cdot 10^4$	Datz 97	cs

^{208}Pb Si

X		
$3.3 \cdot 10^4$	Datz 97	cs

^{208}Pb Cu

X		
$3.3 \cdot 10^4$	Datz 97	cs
fragb X		
351.9	Dejong 98	cs,mass
Tl X		
351.9	Clerc 95	cs
Pb X		
351.9	Clerc 95	cs

^{208}Pb Sn

X		
$3.3 \cdot 10^4$	Datz 97	cs

^{208}Pb Au

γ X		
49.57	Schutz 98	angp,p
	Schutz 97	angp,p

^{208}Pb Pb

X		
$3.3 \cdot 10^4$	Datz 97	cs
hadron X		
$3.306 \cdot 10^4$	Alber 95D	et,p
monopole X		
$3.328 \cdot 10^4$	He 97B	cs
$J/\psi(1S)$ X		
$3.286 \cdot 10^4$	Baglin 98	cs,pt
fragb (fragbs) X		
$3.286 \cdot 10^4$	Abreu 99G	cs,mass,p,pt

^{208}Pb ^{208}Pb

charged$^-$ X		
$3.286 \cdot 10^4$	Appelshauser 98	p,pt
mult[$\pi^\pm$] X		
$3.286 \cdot 10^4$	Skrzypczak 98	col,cor
mult[p] X		
$3.286 \cdot 10^4$	Skrzypczak 98	col,cor
π^+ X		
$3.286 \cdot 10^4$	Aggarwal 98B	et,mult,p,pt
π^0 X		
$3.286 \cdot 10^4$	Aggarwal 98	et,pt
p X		
$3.286 \cdot 10^4$	Aggarwal 98B	et,mult,p,pt

^{208}Pb ^{208}Pb

p X		
	Appelshauser 98	p,pt
$\bar{p}$ X		
$3.286 \cdot 10^4$	Appelshauser 98	p,pt

^{208}Pb ^{238}U

X		
92.16	Polikanov 94	cs
226.1	Polikanov 94	cs
351.9	Polikanov 94	cs
2frag X		
92.16	Polikanov 94	angp,p,pt
226.1	Polikanov 94	angp,p,pt
351.9	Polikanov 94	angp,p,pt

^{209}Bi ^{197}Au

^{194}Au X		
353.6	Aumann 94	cs
^{196}Au X		
353.6	Aumann 94	cs

^{209}Bi Pb

π^+ X		
305	Muntz 97	angp,p
p X		
305	Muntz 97	angp,p

^{209}Bi ^{208}Pb

γ X		
353.6	Kuhn 94	p

^{209}Bi ^{209}Bi

π^+ X		
198.9	Brill 97	angp,p
279.9	Brill 97	angp,p
353.6	Brill 97	angp,p
π^- X		
198.9	Brill 97	angp,p
279.9	Brill 97	angp,p
353.6	Brill 97	angp,p
p mult[charged] X		
198.9	Brill 96	p,pt
279.9	Brill 96	p,pt
353.6	Brill 96	p,pt
deuteron mult[charged] X		
198.9	Brill 96	p,pt
279.9	Brill 96	p,pt
353.6	Brill 96	p,pt
^{3}H mult[charged] X		
198.9	Brill 96	p,pt
279.9	Brill 96	p,pt
353.6	Brill 96	p,pt
^{3}He mult[charged] X		
198.9	Brill 96	p,pt
279.9	Brill 96	p,pt
353.6	Brill 96	p,pt
^{4}He mult[charged] X		
198.9	Brill 96	p,pt
279.9	Brill 96	p,pt
353.6	Brill 96	p,pt
mult[p] mult[frag] mult[charged] X		
198.9	Brill 96	angp,mult,p,pt
279.9	Brill 96	angp,mult,p,pt
353.6	Brill 96	angp,mult,p,pt

Bi Pb

p X		
76.06	Kugler 94	angp,p,pt
n X		
76.06	Kugler 94	angp,p,pt
deuteron X		
76.06	Kugler 94	angp,p,pt
^{3}H X		
76.06	Kugler 94	angp,p,pt
^{3}He X		
76.06	Kugler 94	angp,p,pt

Bi Pb

^{4}He X		
76.06	Kugler 94	angp,p,pt

U Ta

neutral X		
24.99 – 26.03	Ganz 96	cs
25.2 – 26.03	Leinberger 96	cs
e^- e^+ X		
24.99 – 26.03	Ganz 96	angp,cs,p
25.2 – 26.03	Leinberger 96	ang,cs,mass,p

U Th

neutral X		
24.78 – 24.99	Ganz 96	cs
e^- e^+ X		
24.78 – 24.99	Ganz 96	angp,cs,p

^{238}U nucleus

mult[htrack] 3fragb (fragbs) X		
391.8	Jain 94B	angp,cor,mult
(He's) 3^{4}He mult[htrack] X		
391.8	Jain 94B	angp,cor,mult

^{238}U Be

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
fragt fragb X		
289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
Be fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U ^{9}Be

fragb X		
116.1	Justice 94	a-dep,cs

^{238}U C

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
fragt fragb X		
289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
C fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U Al

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
fragb X		
289.3	Summerer 95B	cs
389.1	Summerer 95B	cs
fragt fragb X		
289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
Al fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U ^{27}Al

fragb X		
116.1	Justice 94	a-dep,cs
Ra X		
382.8	Bhattacharyy 97	cs
Ac X		
382.8	Bhattacharyy 97	cs

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^{238}U ^{27}Al

Th X		
382.8	Bhattacharyy 97	cs
Pa X		
382.8	Bhattacharyy 97	cs
Np X		
382.8	Bhattacharyy 97	cs

^{238}U Cu

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
fragb X		
116.1	Justice 94	a-dep,cs
289.3	Summerer 95B	cs
389.1	Summerer 95B	cs
Pa X		
389.1	Clerc 95	cs
U X		
389.1	Clerc 95	cs
fragt fragb X		
289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
Cu fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U Ag

fragb X		
116.1	Justice 94	a-dep,cs

^{238}U In

frag X		
289.3	Rubehn 96B	a-dep,cs
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402.7	Rubehn 96B	a-dep,cs
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289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
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289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U ^{181}Ta

e^+ X		
24.76 – 25.1	Ahmad 97	cs,p
	Ahmad 95B	mass,p
25.08 – 25.41	Ahmad 97	cs,p
	Ahmad 95B	mass,p
25.48 – 25.83	Ahmad 97	cs,p
	Ahmad 95B	mass,p
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24.76 – 25.1	Ahmad 97	cs
25.08 – 25.41	Ahmad 97	cs
25.48 – 25.83	Ahmad 97	cs

^{238}U Au

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
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289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
Au fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

^{238}U Pb

fragb X		
289.3	Summerer 95B	cs
389.1	Summerer 95B	cs

^{238}U ^{208}Pb

frag X		
333.2	Donzaud 98	cs,p
fragb X		
333.2	Schwab 98	cs

^{238}U ^{232}Th

e^+ X		
24.74 – 25.1	Ahmad 97	cs,p
	Ahmad 95B	mass,p
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24.74 – 25.1	Ahmad 97	cs
	Ahmad 95B	cs
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24.74 – 25.1	Ahmad 95B	mass,p
24.76 – 25.1	Ahmad 95B	mass,p
25.08 – 25.41	Ahmad 95B	mass,p
25.48 – 25.83	Ahmad 95B	mass,p

^{238}U U

frag X		
289.3	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
402.7	Rubehn 96B	a-dep,cs
	Schuttauf 96	p,pt
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116.1	Justice 94	a-dep,cs
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289.3	Rubehn 96	a-dep,cs
402.7	Rubehn 96	a-dep,cs
U fragb (fragbs)		
289.3	Rubehn 95	cs,mass
402.7	Rubehn 95	cs,mass

This index lists papers by names of particles studied or produced and their decays, ordered by particle name, then decay.

Particle names follow the ordering in the Particle Vocabulary of this compilation: Gauge bosons, leptons, mesons, baryons, atoms, and nuclei; and within each group the ordering is mainly by increasing mass. Within mesons and baryons, however, we further categorize these particles as having only light quarks, or as having as the heaviest quark, a strange, charmed, bottom, or top quark. To simplify searching in this Index, a short "Table of Contents" of the full Index comes first.

For a given particle, the decays are divided into two classes: inclusive and exclusive, with inclusive first. In each inclusive or exclusive sample, ordering is by the final-state multiplicity, with separation of semileptonic from nonleptonic final states; semileptonic appear first, then nonleptonic. The decays are further ordered by names of the final-state particles, taking into account the weak and strong isospin multiplet structures. When no decay mode is given, no mode was given in the original paper.

For a given decay, papers are ordered by year (most recent first), then first author name. For the full reference, see the ID/Reference/Title Index.

Illustrative Key

Particle: see the *Particle Vocabulary* for nomenclature.

Decay: decay mode of the particle.

$a_2(1320)^+$

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Baltrusaitis 91
Bisello 91B
Kopke 89
Thorndike 88

$\eta\ \pi^+$

Atkinson 92C
Landsberg 91

$K^+\ K_S$

Landsberg 91

Document ID: see *ID/Reference/Title Index* for the full reference.

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Adloff 98E
Adloff 98G
Adloff 98I
Adloff 98J
Adloff 98L
Barate 98E
Barate 98L
Besliu 98
Breitweg 98
Breitweg 98B
Breitweg 98C
Breitweg 98D
Breitweg 98I
Breitweg 98L
Dorigo 98
Grossopilche 98
Kim 98B
Klima 98
Sinclair 98
Sopczak 98
Abachi 97B
Abachi 97C
Abbott 97B
Abbott 97D
Abbott 97F
Abe 97C
Abe 97D
Abe 97E
Abe 97H
Abe 97I
Abe 97K
Abe 97N
Abe 97P
Abe 97Q
Abe 97S
Abe 97V
Abe 97W
Abe 97Z
Abe 97ZC
Abe 97ZD
Abe 97ZJ
Abreu 97F
Abreu 97J
Abreu 97O
Acciarri 97
Acciarri 97C
Acciarri 97M
Acciarri 97S
Acciarri 97T
Acciarri 97U
Acciarri 97Y
Ackerstaff 97
Ackerstaff 97C

jet

Ackerstaff 97J
Ackerstaff 97U
Adloff 97H
Adloff 97J
Adloff 97K
Alam 97
Badalyan 97
Barate 97C
Barate 97F
Barate 97G
Barate 97H
Barate 97J
Barate 97O
Barate 97S
Barate 97Z
Brandt 97
Breitweg 97D
Breitweg 97H
Breitweg 97K
Breitweg 97L
Breitweg 97N
Buergin 97
Buskulic 97
Conway 97
Evans 97
Movillaferna 97
Seligman 97
Seligman 97C
Weber 97
Abachi 96B
Abachi 96D
Abachi 96G
Abachi 96J
Abachi 96K
Abachi 96M
Abachi 96O
Abachi 96P
Abachi 96Q
Abachi 96R
Abachi 96S
Abe 96
Abe 96B
Abe 96F
Abe 96G
Abe 96I
Abe 96S
Abe 96ZD
Abe 96ZG
Abreu 96K
Abreu 96M
Abreu 96R
Abreu 96W
Abreu 96ZB
Abreu 96ZD
Acciarri 96H
Acciarri 96N
Ackerstaff 96
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96N
Adam 96C
Adams 96
Aid 96E
Albrow 96
Alexander 96
Alexander 96H
Alexander 96L
Alexander 96V
Alexander 96X
Alexander 96Y
Alexander 96ZB
Asakawa 96
Azzi 96
Baarmand 96
Badalyan 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Bhattacharje 96
Binkley 96
Blazey 96
Brummer 96
Brummer 96B

jet

Buskulic 96E
Butler 96
Castro 96
Chiarelli 96
Choi 96
Cobalgrassma 96
Conway 96
Cullenvidal 96
Derrick 96B
Dittmann 96
Eisenberg 96
Fatyga 96
Feher 96
Flaugher 96
Gallas 96
Gallas 96B
Gerdes 96
Giokaris 96
Goshaw 96
Goshaw 96B
Goulianos 96
Greenlee 96
Guglielmo 96
Hall 96
Heinson 96
Jaques 96
Joffeminor 96
Jun 96
Karlsson 96
Kobel 96
Krane 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Loomis 96B
Lys 96
Maeshima 96
Melese 96B
Melese 96C
Montgomery 96
Narain 96
Neuberger 96
Nodulman 96
Perkins 96
Phillips 96
Protopopescu 96
Rolli 96
Sinervo 96
Stichelbaut 96
Strovink 96
Tartarelli 96
Valls 96
Varelas 96
Wenzel 96
Ye 96
Yu 96C
Abachi 95F
Abachi 95G
Abachi 95H
Abachi 95L
Abachi 95M
Abachi 95P
Abachi 95Q
Abachi 95R
Abachi 95T
Abachi 95V
Abachi 95W
Abachi 95X
Abachi 95Y
Abachi 95ZC
Abachi 95ZF
Abachi 95ZG
Abachi 95ZH
Abachi 95ZK
Abachi 95ZM
Abachi 95ZP
Abachi 95ZQ
Abe 95
Abe 95B
Abe 95D
Abe 95I
Abe 95J

jet

Abe 95L
Abe 95Q
Abe 95V
Abe 95ZH
Abreu 95
Abreu 95C
Abreu 95U
Abreu 95X
Acciarri 95C
Acciarri 95E
Acciarri 95F
Acciarri 95J
Acciarri 95L
Acciarri 95M
Adams 95F
Ahmed 95C
Aid 95
Aid 95D
Aid 95I
Aid 95J
Akers 95
Akers 95C
Akers 95I
Akers 95K
Akers 95N
Akers 95Q
Alexander 95H
Astur 95
Bantly 95
Bassler 95
Bazizi 95
Behnke 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Bertram 95
Binkley 95
Blazey 95
Buckleygeer 95
Buskulic 95D
Buskulic 95G
Buskulic 95V
Butterworth 95
Conrad 95
Demortier 95
Derrick 95B
Derrick 95E
Derrick 95K
Derrick 95N
Derrick 95O
Derwent 95
Eno 95
Fuess 95
Geer 95B
Gibbons 95
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Harris 95
Harris 95B
Hessling 95
Heuring 95
Hoftun 95
Incandela 95
Incandela 95B
Jung 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Lamoureux 95
Levy 95
Li 95
Lohr 95
Markiewicz 95
Markosky 95
Mccarthy 95
Melese 95
Menzione 95
Nisius 95
Park 95
Peryshkin 95
Roser 95

jet

Sinervo 95
Sivertz 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95
Wimpenny 95B
Womersley 95
Yu 95
Yu 95B
Abachi 94
Abachi 94B
Abachi 94D
Abe 94B
Abe 94E
Abe 94G
Abe 94K
Abe 94T
Abe 94V
Abe 94Y
Abe 94Z
Abe 94ZB
Abe 94ZD
Abe 94ZE
Abreu 94D
Abreu 94K
Abreu 94L
Abreu 94P
Abreu 94S
Adams 94
Ahmed 94
Ahmed 94B
Ahmed 94E
Akers 94B
Akers 94D
Akers 94E
Akers 94F
Akers 94J
Akers 94N
Akers 94Q
Akers 94R
Antos 94
Barreiro 94
Bartalini 94
Bauer 94
Benlloch 94
Bhatti 94
Bocquet 94
Brisson 94B
Buckleygeer 94
Burow 94
Buskulic 94C
Buskulic 94D
Buskulic 94H
Buskulic 94I
Buskulic 94K
Byrum 94
Cdfcollabora 94C
Cdfcollabora 94D
Chakraborty 94
Claes 94
Colombo 94
Dainton 94
Demin 94
Deroeck 94
Derrick 94C
Derrick 94E
Derrick 94F
Derrick 94G
Derwent 94
Errede 94B
Fahley 94
Feltesse 94
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Genser 94
Gerdes 94
Giannetti 94
Graf 94
Grannis 94
Greenshaw 94
Haas 94

jet

Hagopian 94
Harnew 94
Harris 94
Harris 94B
Hauger 94B
Hawk 94
Hedin 94
Huehn 94
Jakobs 94
Janot 94
Jensen 94
Kiesling 94
Konigsberg 94
Kovacs 94
Kovacs 94B
Kramer 94
Kuhlen 94
Labarga 94
Leone 94
Lidemarteau 94
Martirena 94
Morgan 94
Nakano 94
Naples 94
Nodulman 94
Norman 94
Park 94B
Plunkett 94
Raja 94
Shirai 94
Shochet 94
Strohmer 94
Tauchi 94
Watts 94
Weerts 94
White 94
Williams 94
Abachi 93B
Abreu 93L
Adams 93C
Akers 93F
Akers 93H
Alverson 93B
Derrick 93C
Krasny 93B
Liu 93
Piekarz 93B
Sakuda 93

$\ell^{\pm}$ X
Akers 94G

$\mu^{\pm}$ X
Abachi 96F

charged X
Acciarri 97G
Barate 97
Moutoussi 96
Snihur 96
Varelas 96
Alexander 95D
Buskulic 95Q
Buskulic 95R
Abe 94L

charged$^+$ X
Bordner 96

charged$^-$ X
Bordner 96

charged (chargeds)
Baird 95
Abe 94W

hadron X
Alton 96
Abachi 95ZI
Derrick 95J
Streets 95

hadron (hadrons)
Acciarri 97H
Heuring 96
Mccarthy 96
Abachi 95S
Syed 95

charged-hadron X
Abreu 96B
Moutoussi 96
Akers 95M

jet

Akers 95V
Marti 95
Ward 95

charged-hadron (hadrons)
Abreu 96Q

π^+ X
Abreu 97C

π^- X
Abreu 97C

K^+ X
Abreu 96ZC

K^- X
Abreu 96ZC

K_S X
Acciarri 97G
Abreu 96ZC

$D^*(2010)^{\pm}$ X
Breitweg 98E

bottom X
Beretvas 95
Kopp 95
Strovink 95
Sphicas 94
Tollestrup 94

$\overline{\text{bottom}}$ X
Beretvas 95
Kopp 95
Strovink 95
Sphicas 94
Tollestrup 94

B X
Alexander 95I

$\overline{B}$ X
Alexander 95I

p X
Abreu 96ZC

$\overline{p}$ X
Abreu 96ZC

Λ X
Acciarri 97G
Abreu 96ZC

$\overline{\Lambda}$ X
Acciarri 97G
Abreu 96ZC

charged (chargeds) X
Yu 94

charged (chargeds) (neutrals)
Buskulic 96K

charged neutral (neutrals)
Alexander 96G

hadron (hadrons) X
Acciarri 95N

2hadron (hadrons)
Hasegawa 95B

charged-hadron (charged-hadrons)(neutrals)
Buskulic 96H

2charged-hadron X
Abreu 96B
Moutoussi 96
Marti 95

2charged-hadron (hadrons)
Abe 95ZP

$2\pi^+$ X
Abreu 97C

$\pi^+ \pi^-$ X
Abreu 97C

$2\pi^-$ X
Abreu 97C

$D^*(2010)^- \pi^+$ X
Akers 94H

$D_s^- \pi^+$ X
Akers 94H

$K^+ 2\pi^-$ X
Akers 94G

$K^- 2\pi^+$ X
Akers 94G

$\overline{D}^0 \pi^+ \pi^-$ X
Akers 94H

$K^+ K^- J/\psi(1S)$ X
Akers 94H

$K^+ K^- e^- e^+$ X
Akers 94H

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

jet

3charged neutral (neutrals)
Alexander 96G
$K^+ \pi^+ 2\pi^- X$
Akers 94H
$K^*(892)^0 K^- \pi^+$
Akers 94H
$K^+ K^- \mu^- \mu^+$
Akers 94H
$K^+ K^- \pi^+ \pi^-$
Akers 94H

jet+

Abreu 94S
Stuart 94

jet−

Buskulic 95U
Abreu 94S
Stuart 94

heavy

Maeshima 96
Wenzel 96
Akers 95H
Elnadi 95E

2jet

Acciarri 97H

2γ

Abreu 96K

$q\,\bar{q}$

Ackerstaff 97R
Alexander 96Y

$\bar{b}\,b$

Abe 97R
Abachi 96K

longlived

Abbiendi 98J
Acciarri 98W
Altegoer 98
Acciarri 97P
Ackerstaff 97ZD
Amsler 96
Gallas 95
Akers 94M
Amsler 94B
Amsler 94G
Balest 94B

Z^0 X

Abe 98J

star

Bondarenko 98C

γ^*

Adachi 99
Adloff 97D
Adloff 97G
Dominick 94

$q\,\bar{q}$

Abbiendi 98C

$W^\pm$

Abbott 98C
Abe 98S
Breitweg 97N
Abachi 96K
Abe 95J
Aihara 95
Abe 94G
Abe 94ZD
Harris 94
Spadafora 94

W^+

Abbott 99
Abbiendi 98G
Abe 98X
Acciarri 98M
Barate 98C
Abachi 97D
Abbott 97C
Abe 97K
Abe 97R

W^+

Abe 97Z
Abreu 97
Acciarri 97
Ackerstaff 97
Ackerstaff 97P
Breitweg 97N
Conway 97
Swain 97
Buskulic 96Z
Kamon 96
Loomis 96
Stichelbaut 96
Wenzel 96
Abe 95J
Melese 95
Ahmed 94B
Cdfcollabora 94C
Deroeck 94

e^+ X

Abbott 98D
Abbott 98G

μ^+ X

Abbott 98D
Abbott 98G

charged X

Abreu 97N

π^+ X

Abreu 97C

π^- X

Abreu 97C

2hadron (hadrons)

Abreu 98K
Acciarri 98Q

$\ell^+ \nu$

Abbiendi 98M
Abreu 97C
Buskulic 96G
Konigsberg 94

e^+ invisible

Barate 99C

$e^+ \nu_e$

Abreu 99J
Acciarri 99
Barate 99C
Abbiendi 98L
Abbott 98
Abbott 98C
Abe 98I
Abe 98ZE
Abreu 98N
Acciarri 98Q
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abbott 97H
Abbott 97K
Abbott 97L
Abe 97C
Abe 97O
Abe 97ZC
Abe 97ZJ
Abreu 97Q
Abreu 97R
Acciarri 97C
Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZD
Barate 97ZE
Abachi 96D
Abachi 96G
Abachi 96J
Abachi 96K
Abachi 96V
Abachi 96W
Abe 96
Abe 96R
Abreu 96W
Acciarri 96F
Ackerstaff 96C

W^+

Ackerstaff 96E
Ackerstaff 96F
Aid 96F
Alexander 96O
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Bodek 96
Brummer 96B
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Flattum 96
Gerdes 96
Giokaris 96
Goshaw 96
Goulianos 96
Guglielmo 96
Hall 96
Heinson 96
Jaques 96
Joffeminor 96
Kelly 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Melese 96B
Montgomery 96
Narain 96
Neuberger 96
Neuberger 96B
Nodulman 96B
Phillips 96
Protopopescu 96
Rijssenbeek 96
Rolli 96
Sinervo 96
Strovink 96
Tarazi 96
Tartarelli 96
Thurmankeup 96
Valls 96
Yasuda 96
Abachi 95C
Abachi 95E
Abachi 95G
Abachi 95I
Abachi 95U
Abachi 95V
Abachi 95X
Abachi 95Y
Abachi 95ZD
Abachi 95ZE
Abachi 95ZF
Abachi 95ZH
Abachi 95ZM
Abe 95
Abe 95C
Abe 95G
Abe 95H
Abe 95I
Abe 95L
Abe 95ZE
Aihara 95
Astur 95
Bantly 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Blazey 95
Debarbaro 95
Demortier 95
Diehl 95

W^+

Frisch 95
Fuess 95
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Lamoureux 95
Mccarthy 95
Menzione 95
Park 95
Peryshkin 95
Roser 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95
Wimpenny 95B
Yu 95
Yu 95B
Abachi 94B
Abachi 94D
Abe 94
Abe 94B
Abe 94G
Abe 94M
Abe 94N
Abe 94P
Abe 94S
Abe 94T
Abe 94Z
Abe 94ZD
Abe 94ZE
Abe 94ZG
Antos 94
Badgett 94
Benlloch 94
Brisson 94B
Budd 94
Chakraborty 94
Debarbaro 94
Derrick 94G
Ducros 94
Ellison 94
Errede 94
Errede 94B
Fahley 94
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Genser 94
Graf 94
Grannis 94
Hara 94
Jakobs 94
Jensen 94
Jung 94
Keup 94
Kim 94
Leone 94
Lidemarteau 94
Melese 94
Nodulman 94
Oshima 94
Plunkett 94
Quintas 94
Raja 94
Sakyumoto 94
Shochet 94
Spadafora 94
Sphicas 94
Taketani 94
Tollestrup 94

W^+

Watts 94
Williams 94

$\mu^+ \nu_\mu$

Abreu 99J
Acciarri 99
Barate 99C
Abbiendi 98L
Abbott 98
Abe 98ZE
Abreu 98N
Acciarri 98Q
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abe 97O
Abe 97ZC
Abe 97ZJ
Abreu 97Q
Abreu 97R
Acciarri 97C
Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZD
Barate 97ZE
Abachi 96J
Abachi 96K
Abachi 96V
Abe 96
Abe 96R
Abreu 96W
Acciarri 96F
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96F
Aid 96F
Alexander 96O
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Bodek 96
Brummer 96B
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Goulianos 96
Hall 96
Heinson 96
Kelly 96
Kotwal 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Melese 96B
Montgomery 96
Narain 96
Narayanan 96
Neuberger 96
Neuberger 96B
Nodulman 96B
Protopopescu 96
Rajagopalan 96
Rijssenbeek 96
Rolli 96
Sinervo 96
Strovink 96
Tarazi 96
Tartarelli 96
Thurmankeup 96
Valls 96

W^+

Yasuda 96
Abachi 95C
Abachi 95E
Abachi 95G
Abachi 95I
Abachi 95U
Abachi 95V
Abachi 95X
Abachi 95ZE
Abe 95
Abe 95C
Abe 95H
Abe 95I
Abe 95L
Aihara 95
Bantly 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Blazey 95
Debarbaro 95
Demortier 95
Diehl 95
Frisch 95
Fuess 95
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Lamoureux 95
Mccarthy 95
Menzione 95
Peryshkin 95
Roser 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95
Wimpenny 95B
Yu 95
Yu 95B
Abachi 94B
Abachi 94D
Abe 94
Abe 94B
Abe 94M
Abe 94N
Abe 94P
Abe 94T
Abe 94Z
Abe 94ZD
Abe 94ZE
Antos 94
Badgett 94
Benlloch 94
Budd 94
Chakraborty 94
Debarbaro 94
Ducros 94
Ellison 94
Errede 94
Errede 94B
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Genser 94
Graf 94
Grannis 94
Hara 94

W^+

Jakobs 94
Jensen 94
Jung 94
Keup 94
Kim 94
Leone 94
Lidemarteau 94
Melese 94
Nodulman 94
Oshima 94
Quintas 94
Sakyumoto 94
Shochet 94
Spadafora 94
Sphicas 94
Taketani 94
Tollestrup 94
Watts 94
Williams 94

$\tau^+ \nu_\tau$

Abreu 99J
Acciarri 99
Barate 99C
Acciarri 98Q
Abe 97O
Abreu 97Q
Abreu 97R
Acciarri 97C
Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZE
Acciarri 96F
Ackerstaff 96E
Ackerstaff 96F
Alexander 96O
Azzi 96
Barnett 96
Castro 96
Leone 96B
Montgomery 96
Sinervo 96
Tartarelli 96
Valls 96
Jakobs 94
Leone 94

$\nu_e e^{*+}$

Jakobs 94

2jet

Abbott 98G
Abe 98ZE
Abreu 98N
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abe 97ZC
Abe 97ZJ
Abreu 97C
Acciarri 97C
Acciarri 97T
Barate 97J
Barate 97S
Abreu 96W
Ackerstaff 96C
Ackerstaff 96E
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96

W^+

Kruse 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Neuberger 96
Protopopescu 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G
Abachi 95V
Abachi 95X
Abachi 95ZF
Abe 95
Abe 95I
Acciarri 95L
Bantly 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Fuess 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Menzione 95
Peryshkin 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95B
Abachi 94B
Abachi 94D
Abe 94B
Abe 94ZE
Brisson 94B
Chakraborty 94
Derrick 94G
Errede 94B
Grannis 94
Jakobs 94
Konigsberg 94
Leone 94
Lidemarteau 94
Nodulman 94
Raja 94
Shochet 94
Sphicas 94
Tollestrup 94

$q \bar{q}$

Abreu 99J
Acciarri 99
Barate 99C
Abbiendi 98L
Abbiendi 98M
Abbott 98
Abreu 97Q
Abreu 97R
Acciarri 97L
Acciarri 97N
Ackerstaff 97T
Barate 97ZD
Barate 97ZE
Acciarri 96F
Ackerstaff 96F
Aid 96F
Alexander 96O
Brummer 96B

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

W^+

Buskulic 96G

$c\,\bar{s}$

Abreu 98K

$\pi^+\,\gamma$

Abe 98D
Abe 95ZK

$D_s^+\,\gamma$

Abe 98G

W^-

Abbott 99
Abbiendi 98G
Abe 98X
Acciarri 98M
Barate 98C
Abachi 97D
Abbott 97C
Abe 97K
Abe 97R
Abe 97Z
Abreu 97
Acciarri 97
Ackerstaff 97
Ackerstaff 97P
Breitweg 97N
Conway 97
Buskulic 96Z
Kamon 96
Loomis 96
Stichelbaut 96
Wenzel 96
Abe 95J
Melese 95
Aglietta 94
Ahmed 94B
Cdfcollabora 94C
Deroeck 94

e^- X

Abbott 98D
Abbott 98G

μ^- X

Abbott 98D
Abbott 98G

charged X

Abreu 97N

π^+ X

Abreu 97C

π^- X

Abreu 97C

2hadron (hadrons)

Abreu 98K
Acciarri 98Q

$\ell^-\,\bar{\nu}$

Abbiendi 98M
Abreu 97C
Buskulic 96G
Konigsberg 94

e^- invisible

Barate 99C

$e^-\,\bar{\nu}_e$

Abreu 99J
Acciarri 99
Barate 99C
Abbiendi 98L
Abbott 98
Abbott 98C
Abe 98I
Abe 98ZE
Abreu 98N
Acciarri 98Q
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abbott 97H
Abbott 97K
Abbott 97L
Abe 97C
Abe 97O
Abe 97ZC
Abe 97ZJ
Abreu 97Q
Abreu 97R
Acciarri 97C

W^-

Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZD
Barate 97ZE
Abachi 96D
Abachi 96G
Abachi 96J
Abachi 96K
Abachi 96V
Abachi 96W
Abe 96
Abe 96R
Abreu 96W
Acciarri 96F
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96F
Alexander 96O
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Bodek 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Flattum 96
Gerdes 96
Giokaris 96
Goshaw 96
Goulianos 96
Guglielmo 96
Hall 96
Heinson 96
Jaques 96
Joffeminor 96
Kelly 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Melese 96B
Montgomery 96
Narain 96
Neuberger 96
Neuberger 96B
Nodulman 96B
Phillips 96
Protopopescu 96
Rijssenbeek 96
Rolli 96
Sinervo 96
Strovink 96
Tarazi 96
Tartarelli 96
Thurmankeup 96
Valls 96
Yasuda 96
Abachi 95C
Abachi 95E
Abachi 95G
Abachi 95I
Abachi 95U
Abachi 95V
Abachi 95X
Abachi 95Y
Abachi 95ZD
Abachi 95ZE
Abachi 95ZF
Abachi 95ZH
Abachi 95ZM
Abe 95
Abe 95C
Abe 95G

W^-

Abe 95H
Abe 95I
Abe 95L
Abe 95ZE
Aihara 95
Astur 95
Bantly 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Blazey 95
Debarbaro 95
Demortier 95
Diehl 95
Frisch 95
Fuess 95
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Lamoureux 95
Mccarthy 95
Menzione 95
Park 95
Peryshkin 95
Roser 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95
Wimpenny 95B
Yu 95
Yu 95B
Abachi 94B
Abachi 94D
Abe 94
Abe 94B
Abe 94G
Abe 94M
Abe 94N
Abe 94P
Abe 94S
Abe 94T
Abe 94Z
Abe 94ZD
Abe 94ZE
Abe 94ZG
Antos 94
Badgett 94
Benlloch 94
Brisson 94B
Budd 94
Chakraborty 94
Debarbaro 94
Derrick 94G
Ducros 94
Ellison 94
Errede 94
Errede 94B
Fahley 94
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Genser 94
Graf 94
Grannis 94
Hara 94
Harnew 94
Jakobs 94

W^-

Jensen 94
Jung 94
Keup 94
Kim 94
Leone 94
Lidemarteau 94
Melese 94
Nodulman 94
Oshima 94
Plunkett 94
Quintas 94
Raja 94
Sakyumoto 94
Shochet 94
Spadafora 94
Sphicas 94
Taketani 94
Tollestrup 94
Watts 94
Williams 94

$\mu^-\,\bar{\nu}_\mu$

Abreu 99J
Acciarri 99
Barate 99C
Abbiendi 98L
Abbott 98
Abe 98ZE
Abreu 98N
Acciarri 98Q
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abe 97O
Abe 97ZC
Abe 97ZJ
Abreu 97Q
Abreu 97R
Acciarri 97C
Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZD
Barate 97ZE
Abachi 96J
Abachi 96K
Abachi 96V
Abe 96
Abe 96R
Abreu 96W
Acciarri 96F
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96F
Alexander 96O
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Bodek 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Goulianos 96
Hall 96
Heinson 96
Kelly 96
Kotwal 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Melese 96B

W^-

Montgomery 96
Narain 96
Narayanan 96
Neuberger 96
Neuberger 96B
Nodulman 96B
Protopopescu 96
Rajagopalan 96
Rijssenbeek 96
Rolli 96
Sinervo 96
Strovink 96
Tarazi 96
Tartarelli 96
Thurmankeup 96
Valls 96
Yasuda 96
Abachi 95C
Abachi 95E
Abachi 95G
Abachi 95I
Abachi 95U
Abachi 95V
Abachi 95X
Abachi 95ZE
Abe 95
Abe 95C
Abe 95H
Abe 95I
Abe 95L
Aihara 95
Bantly 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Blazey 95
Debarbaro 95
Demortier 95
Diehl 95
Frisch 95
Fuess 95
Grassmann 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Lamoureux 95
Mccarthy 95
Menzione 95
Peryshkin 95
Roser 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95
Wimpenny 95B
Yu 95
Yu 95B
Abachi 94B
Abachi 94D
Abe 94
Abe 94B
Abe 94M
Abe 94N
Abe 94P
Abe 94T
Abe 94Z
Abe 94ZD
Abe 94ZE
Antos 94
Badgett 94

W^-

Benlloch 94
Budd 94
Chakraborty 94
Debarbaro 94
Ducros 94
Ellison 94
Errede 94
Errede 94B
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Genser 94
Graf 94
Grannis 94
Hara 94
Jakobs 94
Jensen 94
Jung 94
Keup 94
Kim 94
Leone 94
Lidemarteau 94
Melese 94
Nodulman 94
Oshima 94
Quintas 94
Sakyumoto 94
Shochet 94
Spadafora 94
Sphicas 94
Taketani 94
Tollestrup 94
Watts 94
Williams 94

$\tau^- \bar{\nu}_\tau$

Abreu 99J
Acciarri 99
Barate 99C
Acciarri 98Q
Abe 97O
Abreu 97Q
Abreu 97R
Acciarri 97C
Acciarri 97L
Acciarri 97N
Acciarri 97T
Ackerstaff 97T
Barate 97J
Barate 97S
Barate 97ZE
Acciarri 96F
Ackerstaff 96E
Ackerstaff 96F
Alexander 96O
Azzi 96
Barnett 96
Castro 96
Leone 96B
Montgomery 96
Sinervo 96
Tartarelli 96
Valls 96
Jakobs 94
Leone 94

$\bar{\nu}_e e^{*-}$

Jakobs 94

2jet

Abbott 98G
Abe 98ZE
Abreu 98N
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abe 97ZC
Abe 97ZJ
Abreu 97C
Acciarri 97C
Acciarri 97T
Barate 97J
Barate 97S
Abreu 96W
Ackerstaff 96C

W^-

Ackerstaff 96E
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96
Kruse 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Neuberger 96
Protopopescu 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G
Abachi 95V
Abachi 95X
Abachi 95ZF
Abe 95
Abe 95I
Acciarri 95L
Bantly 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Fuess 95
Grassmann 95B
Greenlee 95
Hadley 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95B
Kim 95C
Klima 95
Klima 95B
Kopp 95
Menzione 95
Peryshkin 95
Sinervo 95
Strovink 95
Synder 95
Thompson 95
Unal 95
Wimpenny 95B
Abachi 94B
Abachi 94D
Abe 94B
Abe 94ZE
Brisson 94B
Chakraborty 94
Derrick 94G
Errede 94B
Grannis 94
Jakobs 94
Konigsberg 94
Leone 94
Lidemarteau 94
Nodulman 94
Raja 94
Shochet 94
Sphicas 94
Tollestrup 94

$q\,\bar{q}$

Abreu 99J
Acciarri 99

W^-

Barate 99C
Abbiendi 98L
Abbiendi 98M
Abbott 98
Abreu 97Q
Abreu 97R
Acciarri 97L
Acciarri 97N
Ackerstaff 97T
Barate 97ZD
Barate 97ZE
Acciarri 96F
Ackerstaff 96F
Alexander 96O
Buskulic 96G

$\bar{c}\,s$

Abreu 98K

$\pi^-\,\gamma$

Abe 98D
Abe 95ZK

$D_s^-\,\gamma$

Abe 98G

Z^0

Abe 98J
Abe 98S
Abe 98Z
Acciarri 98K
Ackerstaff 98G
Bock 98
Abachi 97D
Abbott 97C
Abbott 97I
Abbott 97K
Abbott 97L
Abe 97B
Abe 97T
Abe 97U
Abe 97Y
Abreu 97G
Abreu 97I
Abreu 97L
Acciarri 97M
Acciarri 97Q
Ackerstaff 97R
Ackerstaff 97V
Barate 97C
Barate 97L
Breitweg 97N
Abe 96O
Abe 96ZE
Abe 96ZF
Abreu 96E
Abreu 96H
Acciarri 96G
Ackerstaff 96P
Ackerstaff 96R
Alexander 96K
Alexander 96M
Alexander 96N
Alexander 96R
Alexander 96U
Barbarogalti 96
Barnett 96
Buskulic 96F
Conway 96
Kamon 96
Lecompte 96
Sciolla 96
Stichelbaut 96
Wenzel 96
Wilson 96
Abe 95ZN
Abe 95ZQ
Abreu 95E
Abreu 95H
Akers 95K
Akers 95L
Akers 95M
Akers 95V
Alexander 95B
Alexander 95C
Alexander 95D
Baird 95

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

Z^0

Hoftun 95
Musolino 95
Abe 94U
Abe 94V
Abe 94W
Acciarri 94E
Ahmed 94B
Deroeck 94
Fero 94
Nodulman 94
Shochet 94

$e^{\pm}$ X
Behnke 95

e^- X
Carr 94

e^+ X
Carr 94

$\mu^{\pm}$ X
Behnke 95

μ^- X
Carr 94

μ^+ X
Carr 94

b X
Goy 96
Buskulic 95V

$\bar{b}$ X
Goy 96
Buskulic 95V

$\pi^{\pm}$ X
Barate 97ZC

π^0 X
Acciarri 96N
Malinin 96

η X
Acciarri 96N
Malinin 96

ρ^0 X
Buskulic 96X
Chapkin 96

ω X
Buskulic 96X
Malinin 96

η' X
Malinin 96

$f_0(980)$ X
Chapkin 96

$f_2(1270)$ X
Chapkin 96

$K^{\pm}$ X
Barate 97ZC
Abreu 95D

K_S X
Malinin 96
Baird 94

$K^*(892)^+$ X
Chapkin 96

$K^*(892)^0$ X
Abreu 96J
Buskulic 96X
Akers 95G

$\overline{K}^*(892)^0$ X
Abreu 96J
Buskulic 96X
Akers 95G

$K^*(892)^-$ X
Chapkin 96

$K_2^*(1430)^0$ X
Abreu 96J
Akers 95G

$\overline{K}_2^*(1430)^0$ X
Abreu 96J
Akers 95G

$\phi(1020)$ X
Abreu 96J
Buskulic 96X
Akers 95G

$D^{\pm}$ X
Behnke 95
Buskulic 93P

D^+ X
Alexander 96Q
Behnke 95
Colas 94

Z^0

Buskulic 93P

D^+ X + D^- X
Behnke 95
Abreu 93G

D^0 X
Alexander 96Q
Behnke 95
Colas 94
Buskulic 93P

D^0 X + $\overline{D}^0$ X
Behnke 95
Abreu 93G

$\overline{D}^0$ X
Alexander 96Q
Behnke 95
Buskulic 93P

D^- X
Alexander 96Q
Behnke 95
Buskulic 93P

$D^*(2010)^{\pm}$ X
Behnke 95
Akers 94S
Buskulic 93P

$D^*(2010)^+$ X
Kobel 96
Behnke 95
Buskulic 95J
Colas 94
Buskulic 93P

$D^*(2010)^+$ X + $D^*(2010)^-$ X
Behnke 95
Abreu 93G

$D^*(2010)^-$ X
Kobel 96
Behnke 95
Buskulic 95J
Buskulic 93P

$D^*(2007)^0$ X
Behnke 95
Buskulic 93P

$\overline{D}^*(2007)^0$ X
Behnke 95
Buskulic 93P

D_s^+ X
Alexander 96Q

D_s^- X
Alexander 96Q

D_s^{*+} X
Acciarri 96L

D_s^{*-} X
Acciarri 96L

$D_1(2420)^0$ X
Furtjes 96
Colas 94

$\overline{D}_1(2420)^0$ X
Furtjes 96

$D_2^*(2460)^0$ X
Furtjes 96
Colas 94

$\overline{D}_2^*(2460)^0$ X
Furtjes 96

$J/\psi(1S)$ X
Acciarri 98ZB
Acciarri 97F
Alexander 96E
Keranen 96
Abreu 95O
Alexander 95E
Behnke 95
Abreu 94M

$\chi_{c1}(1P)$ X
Acciarri 97F

$\chi_{c2}(1P)$ X + $\chi_{c1}(1P)$ X
Abreu 94M

$\chi_{c2}(1P)$ X
Acciarri 97F

$\psi(2S)$ X
Keranen 96
Abreu 95O

Z^0

Alexander 95E
Abreu 94M

bottom X
Ackerstaff 96D

$\overline{\text{bottom}}$ X
Ackerstaff 96D

B X
Acciarri 96N
Ackerstaff 96O
Behnke 95
Wormser 94

B^+ X
Acciarri 96L
Jackson 96
Dejongh 94
Wormser 94

B^0 X + B_s X
Abreu 94J

B^0 X
Abreu 96V
Acciarri 96I
Acciarri 96J
Ackerstaff 96J
Jackson 96
Acciarri 95P
Dejongh 94
Wormser 94

$\overline{B}$ X
Acciarri 96N
Ackerstaff 96O
Behnke 95
Wormser 94

$\overline{B}^0$ X + $\overline{B}_s$ X
Abreu 94J

$\overline{B}^0$ X
Abreu 96V
Acciarri 96I
Acciarri 96J
Ackerstaff 96J
Jackson 96
Dejongh 94
Wormser 94

B^- X
Acciarri 96L
Jackson 96
Dejongh 94
Wormser 94

B^* X
Furtjes 96

B^{*+} X
Furtjes 96

B^{*0} X
Furtjes 96

$\overline{B}^*$ X
Furtjes 96

$\overline{B}^{*0}$ X
Furtjes 96

B^{*-} X
Furtjes 96

B^* (unspec) X
Podobrin 95

$\overline{B}^*$(unspec) X
Podobrin 95

B_s X
Acciarri 96I
Acciarri 96J
Acciarri 95P
Podobrin 95
Abreu 94I
Wormser 94

$\overline{B}_s$ X
Acciarri 96I
Acciarri 96J
Podobrin 95
Abreu 94I
Wormser 94

B_c^+ X
Ackerstaff 97ZB
Alexander 95E

B_c^- X
Ackerstaff 97ZB
Alexander 95E

$\Upsilon(1S)$ X
Acciarri 98ZB

Z^0

Acciarri 97I
Alexander 96Z
Keranen 96

$\Upsilon(2S)$ X
Acciarri 97I
Alexander 96Z
Keranen 96

$\Upsilon(3S)$ X
Acciarri 97I
Alexander 96Z
Keranen 96

Υ(unspec) X
Abreu 95O

p X + $\bar{p}$ X
Abreu 95D

p X
Barate 97ZC

$\bar{p}$ X
Barate 97ZC

$\Delta(1232\,P_{33})^{++}$ X
Schenk 96

$\overline{\Delta}(1232\,P_{33})^{--}$ X
Schenk 96

Λ X
Abbiendi 98H
Ackerstaff 96M
Alexander 96C
Buskulic 96
Malinin 96
Baird 94

$\overline{\Lambda}$ X
Abbiendi 98H
Ackerstaff 96M
Alexander 96C
Buskulic 96
Malinin 96
Baird 94

$\Lambda(1520\,D_{03})$ X
Alexander 96C

$\overline{\Lambda}(1520\,D_{03})$ X
Alexander 96C

Σ^+ X
Alexander 96D

Σ^0 X
Alexander 96D

Σ^- X
Alexander 96D

$\overline{\Sigma}^+$ X
Alexander 96D

$\overline{\Sigma}^0$ X
Alexander 96D

$\overline{\Sigma}^-$ X
Alexander 96D

$\Sigma(1385\,P_{13})^+$ X
Alexander 96C
Allport 96
Schenk 96

$\Sigma(1385\,P_{13})^-$ X
Alexander 96C
Allport 96
Schenk 96

$\overline{\Sigma}(1385\,P_{13})^+$ X
Alexander 96C
Allport 96
Schenk 96

$\overline{\Sigma}(1385\,P_{13})^-$ X
Alexander 96C
Allport 96
Schenk 96

Ξ^- X
Alexander 96C
Allport 96

$\overline{\Xi}^+$ X
Alexander 96C
Allport 96

$\Xi(1530\,P_{13})^0$ X
Alexander 96C
Allport 96
Schenk 96

$\overline{\Xi}(1530\,P_{13})^0$ X
Alexander 96C
Allport 96
Schenk 96

Z^0

Ω^- X
Alexander 96C
Schenk 96

$\overline{\Omega}^+$ X
Alexander 96C
Schenk 96

Λ_c^+ X
Alexander 96Q

$\overline{\Lambda}_c^-$ X
Alexander 96Q

Λ_b X
Abreu 96F
Buskulic 96B
Podobrin 95
Wormser 94

$\overline{\Lambda}_b$ X
Abreu 96F
Buskulic 96B
Podobrin 95
Jones 94B
Wormser 94

$2e^\pm$ X
Behnke 95

$\mu^\pm e^\pm$ X
Behnke 95

$2\mu^\pm$ X
Behnke 95

hadron (hadrons) neutral
Demin 94

2hadron (hadrons)
Abbiendi 98O
Abreu 98L
Barate 98D
Abreu 96P
Acciarri 96M
Etzion 96
Abreu 94E
Abreu 94G
Abreu 94R
Acciarri 94
Buskulic 94E
Janot 94
Akers 93D
Akers 93F

2charged-hadron X
Lorstad 97

γ neutral (neutrals)
Demin 94

γ jet X
Demin 94
Kramer 94

$q\,\overline{q}$ X
Abe 96ZG

$\overline{b}\,b$ X
Acciarri 94C

$2\pi^+$ X
Akers 95G

$\pi^+\,\pi^-$ X
Akers 95G

$2\pi^-$ X
Akers 95G

$K^+\,\pi^-$ X
Abreu 96J
Akers 95G

$K^-\,\pi^+$ X
Abreu 96J
Akers 95G

$2K^+$ X
Pukhaeva 96

$K^+\,K^-$ X
Abreu 96J
Akers 95G

$2K^-$ X
Pukhaeva 96

$2K_S$ X
Pukhaeva 96

$D^*(2010)^+\,\pi^-$ X
Colas 94

$J/\psi(1S)$ jet X
Acciarri 98ZB

bottom bottom X
Manly 94

$B\,\overline{B}$ X
Su 96

Z^0

Abe 95ZG
Carr 94

$B^0\,\overline{B}$ X
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Abreu 96U

$\overline{B}^0\,B$ X
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Abreu 96U

$B^0\,\overline{B}^0$ X
Checchia 96
Akers 94B
Carr 94

$B_s\,\overline{B}$ X
Ackerstaff 97L
Ackerstaff 97M

$\overline{B}_s\,B$ X
Ackerstaff 97L
Ackerstaff 97M

$B_s\,\overline{B}_s$ X
Carr 94

$\Lambda\,K_S$ X
Maur 94

2Λ X
Maur 94

$\Lambda\,\overline{\Lambda}$ X
Maur 94

(jets) 2jet X
Abe 96ZG

γ 2jet X
Demin 94

2γ hadron (hadrons)
Demin 94

$q\,\overline{q}$ (hadrons) X
Abe 96ZG

gluon $<\overline{c}\,c>$ X
Akers 94S

$J/\psi(1S)$ charged (chargeds) (neutrals)
Alexander 96E

$J/\psi(1S)$ hadron (hadrons) X
Acciarri 98ZB

$\nu\,\overline{\nu}$ 2hadron (hadrons)
Abreu 94P

$e^-\,e^+$ 2hadron (hadrons)
Abreu 94P

$\mu^-\,\mu^+$ 2hadron (hadrons)
Abreu 94P

$\tau^-\,\tau^+$ 2hadron (hadrons)
Abreu 94P

$K^+\,e^-$ 2charged X
Abreu 96U

$K^+\,e^+$ 2charged X
Abreu 96U

$K^-\,e^+$ 2charged X
Abreu 96U

$K^+\,\mu^-$ 2charged X
Abreu 96U

$K^+\,\mu^+$ 2charged X
Abreu 96U

$K^-\,\mu^-$ 2charged X
Abreu 96U

$K^-\,\mu^+$ 2charged X
Abreu 96U

charged$^+$ charged$^-$ 2neutral (neutrals)
Buskulic 94J

γ 3jet X
Demin 94

η (jets) 2jet X
Ye 96

$2e^-$ 3charged X
Abreu 96U

$e^-\,e^+$ 3charged X
Abreu 96U

$2e^+$ 3charged X
Abreu 96U

$2\mu^-$ 3charged X
Abreu 96U

Z^0

$\mu^-\,\mu^+$ 3charged X
Abreu 96U

$2\mu^+$ 3charged X
Abreu 96U

η (jets) 3jet X
Ye 96

$B^0\,\overline{B}^0$ < 2jet < jet mult[jet] >>
Abbiendi 98K

$B^+\,B^-$ < 2jet < jet mult[jet] >>
Abbiendi 98K

$\psi(2S)$
Acciarri 97F

$\ell^+\,\ell^-$
Abreu 94G
Acciarri 94
Buskulic 94E

$\nu\,\overline{\nu}$
Abreu 99E
Abbiendi 98R
Acciarri 98F
Acciarri 98ZD
Ackerstaff 98R
Barate 98S
Sopczak 98
Abachi 97
Acciarri 97U
Ackerstaff 96N
Abreu 94E
Abreu 94G
Brisson 94B
Buskulic 94E
Derrick 94G

$e^-\,e^+$
Abreu 99E
Barate 99B
Abbiendi 98R
Abreu 98N
Acciarri 98F
Acciarri 98ZD
Barate 98S
Sopczak 98
Abbott 97H
Casey 97
Roney 97
Abachi 96E
Abachi 96W
Abe 96F
Abreu 96W
Ackerstaff 96N
Casey 96
Dittmann 96
Goshaw 96
Landsberg 96
Neuberger 96
Neuberger 96B
Nodulman 96B
Phillips 96
Rajagopalan 96
Tarazi 96
Thurmankeup 96
Yasuda 96
Abachi 95B
Abachi 95I
Abachi 95O
Abachi 95ZE
Abachi 95ZH
Abe 95G
Abe 95L
Abe 95ZE
Aihara 95
Benjmain 95
Diehl 95
Fuess 95
Kopp 95
Landsberg 95
Wagner 95
Yu 95
Yu 95B
Abe 94O
Abe 94P
Abe 94ZG
Abreu 94E

Z^0

Abreu 94G
Badgett 94
Brisson 94B
Buskulic 94E
Cdfcollabora 94D
Derrick 94G
Ducros 94
Ellison 94
Errede 94
Errede 94B
Fahley 94
Frisch 94
Fuess 94B
Geer 94
Graf 94
Hara 94
Harnew 94
Hauger 94B
Jakobs 94
Quintas 94
Taketani 94
Yamartino 94
Akers 93D
Vilain 93B

$\mu^-\,e^+$
Abreu 96S
Akers 95T
Tesch 95
Vorobiev 95B

$\mu^+\,e^-$
Abreu 96S
Vorobiev 95B

$\mu^-\,\mu^+$
Abreu 99E
Barate 99B
Abbiendi 98R
Abreu 98N
Acciarri 98F
Acciarri 98ZD
Ackerstaff 98R
Barate 98S
Sopczak 98
Roney 97
Abreu 96I
Abreu 96W
Ackerstaff 96N
Neuberger 96
Neuberger 96B
Nodulman 96B
Tarazi 96
Thurmankeup 96
Yasuda 96
Abachi 95B
Abachi 95I
Abachi 95O
Abachi 95ZE
Abe 95L
Aihara 95
Benjmain 95
Diehl 95
Fuess 95
Kopp 95
Landsberg 95
Wagner 95
Yu 95
Yu 95B
Abe 94O
Abe 94P
Abreu 94E
Abreu 94G
Badgett 94
Buskulic 94E
Cdfcollabora 94D
Ducros 94
Ellison 94
Errede 94
Errede 94B
Fuess 94B
Geer 94
Graf 94
Hara 94
Hauger 94B
Jakobs 94
Kim 94

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

Z^0

Quintas 94
Akers 93D

$\tau^- e^+$
Abreu 96S
Akers 95T
Tesch 95
Vorobiev 95B
Golutvin 94
Shevchenko 94

$\tau^+ e^-$
Abreu 96S
Akers 95T
Tesch 95
Vorobiev 95B
Golutvin 94
Shevchenko 94

$\tau^- \mu^+$
Abreu 96S
Akers 95T
Tesch 95
Vorobiev 95B
Golutvin 94
Shevchenko 94

$\tau^+ \mu^-$
Abreu 96S
Akers 95T
Tesch 95
Vorobiev 95B
Golutvin 94
Shevchenko 94

$\tau^- \tau^+$
Abreu 99E
Abbiendi 98R
Acciarri 98J
Acciarri 98ZD
Ackerstaff 98R
Barate 98S
Sopczak 98
Roney 97
Weber 97
Acciarri 96K
Ackerstaff 96N
Alexander 96I
Buskulic 96C
Akers 95O
Duflot 95
Harton 95
Kounine 95
Abreu 94E
Abreu 94G
Abreu 94O
Akers 94
Alemany 94
Bonivento 94
Brient 94
Buskulic 94E
Buskulic 94J
Golutvin 94
Gomezycadena 94
Jakobs 94
Posthaus 94
Wermes 94
Akers 93D
Grunewald 93

$\overline{\nu}$ heavy-lepton^0
Abreu 96ZB

ν $\overline{\text{heavy-lepton}}^0$
Abreu 96ZB

$\overline{\nu}$ ν^*
Abreu 96ZB

ν $\overline{\nu}^*$
Abreu 96ZB

$e^\pm$ $e^{*\pm}$
Jakobs 94

invisible jet
Janot 94

2jet
Abbott 98G
Abreu 98N
Abachi 96D
Abreu 96W
Acciarri 96H
Ackerstaff 96N
Neuberger 96

Z^0

Abachi 95ZF
Fuess 95
Kopp 95
Park 95
Akers 94H
Brisson 94B
Derrick 94G
Jakobs 94

γ neutral
Alexander 95I

γ invisible
Akers 94M

γ higgs
Alexander 95I
Demin 94
Richard 94

γ jet
Kramer 94

γ longlived
Akers 94M

2γ
Abreu 94H
Shevchenko 94

γ S^0
Acciarri 95B

q $\overline{q}$
Barate 99B
Abbiendi 98C
Abbiendi 98R
Acciarri 98F
Acciarri 98J
Acciarri 98ZD
Ackerstaff 98R
Barate 98S
Sopczak 98
Acciarri 97U
Roney 97

$\overline{u}$ u
Ackerstaff 97K
Strohmer 94

$\overline{d}$ d
Strohmer 94

$\overline{s}$ s
Strohmer 94

$\overline{s}$ s + $\overline{d}$ d + $\overline{u}$ u
Abe 96Y
Karlsson 96

$\overline{s}$ s + $\overline{d}$ d
Ackerstaff 97K

$\overline{c}$ c
Barate 98D
Ackerstaff 97O
Abe 96Y
Alexander 96Q
Karlsson 96
Kobel 96
Behnke 95
Akers 94S
Buskulic 94D
Strohmer 94
Abreu 93G

$\overline{b}$ b
Abbiendi 98H
Abbiendi 98K
Abbiendi 98O
Abreu 98L
Acciarri 98J
Dorigo 98
Abe 97J
Acciarri 97F
Ackerstaff 97O
Barate 97F
Barate 97G
Swain 97
Abe 96Y
Abreu 96P
Abreu 96U
Acciarri 96H
Acciarri 96N
Ackerstaff 96M
Ackerstaff 96O
Alexander 96Q
Etzion 96
Karlsson 96
Kobel 96

Z^0

Abreu 95B
Akers 95F
Behnke 95
Abreu 94
Abreu 94R
Akers 94H
Akers 94N
Akers 94S
Buskulic 94D
Carr 94
Jones 94B
Manly 94
Strohmer 94
Abreu 93G
Akers 93F

2neutralino
Barate 99B

wino$^-$ wino$^+$
Jakobs 94

H^0 A^0
Alexander 96W

$2H_2^0$
Janot 94

$\tilde{e}^-$ $\tilde{e}^+$
Jakobs 94

ℓ ℓ^*
Demin 94

q^* $\overline{q}$
Demin 94

$\overline{q}^*$ q
Demin 94

π^0 γ
Abreu 94H
Shevchenko 94

η γ
Abreu 94H
Shevchenko 94

ω γ
Abreu 94H
Shevchenko 94

η' γ
Shevchenko 94

$J/\psi(1S)$ γ
Shevchenko 94

B^0 $\overline{B}^0$
Akers 94K

B_s $\overline{B}_s$
Akers 94K

γ exotic
Barate 98C

ν $\overline{\nu}$ higgs
Acciarri 96B
Alexander 96W
Abreu 94P
Janot 94
Richard 94

ν $\overline{\nu}$ H^0
Alexander 96W
Abreu 94P

e^- e^+ neutral
Demin 94

e^- e^+ invisible
Janot 94

e^- e^+ higgs
Acciarri 96B
Alexander 96W
Abreu 94P
Janot 94
Richard 94

e^- e^+ H^0
Abreu 94P

μ^- μ^+ neutral
Demin 94

μ^- μ^+ higgs
Acciarri 96B
Alexander 96W
Abreu 94P
Janot 94
Richard 94

μ^- μ^+ γ
Acciarri 98L

μ^- μ^+ H^0
Abreu 94P

Z^0

neutral 2jet
Alexander 95I

3jet
Abreu 96ZC

γ 2jet
Alexander 95I
Kramer 94

3γ
Barate 98C
Acciarri 95B
Abreu 94H
Shevchenko 94

γ 2gluon
Barate 98C

3gluon
Abreu 96Q

q $\overline{q}$ higgs
Acciarri 96B

γ q $\overline{q}$
Demin 94

q $\overline{q}$ gluon
Abreu 96ZC
Behnke 95

$\overline{b}$ b gluon
Buskulic 96E

ν $\overline{\nu}$ 2jet
Abreu 94P
Janot 94

e^- e^+ 2jet
Abreu 94P
Janot 94

e^- e^+ 2γ
Demin 94

μ^- μ^+ 2jet
Abreu 94P
Janot 94

μ^- μ^+ 2γ
Demin 94

τ^- τ^+ 2jet
Abreu 94P
Janot 94

ℓ^+ ℓ^- q $\overline{q}$
Abreu 94P

γ 3jet
Kramer 94

2γ 2jet
Alexander 95I

q $\overline{q}$ 2gluon
Abe 96ZG

$2q$ $2\overline{q}$
Abe 96ZG

q $\overline{q}$ gluon $< \overline{c}\ c >$
Kobel 96

gluon

Abbiendi 99D
Abe 99C
Abe 98K
Alam 98
Barate 98C
Abe 96ZG
Kobel 96
Nemati 96
Abe 95V
Acciarri 95E
Akers 95
Akers 95C
Behnke 95
Harris 95B
Hoftun 95
Markiewicz 95
Ahmed 94
Akers 94S
Albrecht 94U
Brisson 94B
Derrick 94G
Greenshaw 94
Harnew 94
Kiesling 94

charged X
Abbiendi 99C
Abreu 98E
Ackerstaff 98J

gluon

Alam 97
Moutoussi 96
Buskulic 95Q
Buskulic 95X

mult[charged-hadron] (neutrals)
Alexander 96X

hadron X
Abreu 99C
Barate 98E

charged-hadron X
Abreu 97K
Wilson 96
Akers 95L

K^+ X
Abreu 96ZC

K^- X
Abreu 96ZC

K_S X
Ackerstaff 98J
Abreu 96ZC

$J/\psi(1S)$ X
Behnke 95

p X
Abreu 96ZC

$\overline{p}$ X
Abreu 96ZC

Λ X
Ackerstaff 98J
Abreu 96ZC

$\overline{\Lambda}$ X
Abreu 96ZC

jet < charged X >
Acciarri 97G

jet < hadron (hadrons) >
Akers 94D

$f_0(980)$ (hadrons) X
Ackerstaff 98B

$f_2(1270)$ (hadrons) X
Ackerstaff 98B

jet < K_S X >
Acciarri 97G

$\phi(1020)$ (hadrons) X
Ackerstaff 98B

jet < Λ X >
Acciarri 97G

jet < $\overline{\Lambda}$ X >
Acciarri 97G

jet
Abreu 97J
Abreu 97O
Abachi 96F
Abachi 96Q
Abreu 96B
Abreu 96Q
Abreu 96ZC
Alexander 96X
Buskulic 96E
Buskulic 96K
Gallas 96
Greenlee 96
Akers 95M
Alexander 95D
Buskulic 95R
Marti 95
Syed 95
Ward 95
Abe 94L
Abe 94ZB

$\overline{c}\ c$
Akers 95K

$\overline{b}\ b$
Barate 98L
Abreu 97F

H^0

2hadron (hadrons)
Abreu 94P

$\tau^-\ \tau^+$
Abbiendi 98R
Ackerstaff 96N

2jet
Ackerstaff 96N
Abreu 94P

H^0

$q\ \overline{q}$
Alexander 96Y
Abreu 94P

$\overline{b}\ b$
Abbiendi 98R
Ackerstaff 96N

2neutralino
Alexander 96W

$2A^0$
Abbiendi 98R

axion
Albrecht 95B
Maeno 95
Balest 94B

$e^-\ e^+$
Altmann 95
Bassompierre 95
Tsunoda 95

3γ
Vo 94

W_R

$e^\pm$ heavy-ν
Gallas 96
Abachi 95ZN

W_R^+

e^+ heavy-ν
Gallas 96
Abachi 95ZN

$q\ \overline{q}$
Brummer 96

W_R^-

e^- heavy-$\overline{\nu}$
Gallas 96
Abachi 95ZN

$q\ \overline{q}$
Brummer 96

$W'^\pm$
Kopp 94

$q\ \overline{q}$
Harris 95B

W'^+
Nodulman 94
Shochet 94

$e^+\ \nu_e$
Gallas 96
Wenzel 96
Abachi 95K
Abachi 95ZD
Abachi 95ZN
Eno 95
Kopp 95
Abe 94R
Eppley 94
Hara 94
Jakobs 94
Kopp 94
Maeshima 94
Taketani 94

$\mu^+\ \nu_\mu$
Wenzel 96
Kopp 95
Hara 94

e^+ heavy-ν
Abachi 95K
Eno 95

2jet
Abe 97D
Harris 95
Abe 94Y
Harris 94B
Jakobs 94

W^+ higgs
Kopp 95

$Z^0\ W^+$
Barnett 96
Conway 96
Kamon 96

W'^+
Wenzel 96
Kopp 95
Park 95

W'^-
Nodulman 94
Shochet 94

$e^-\ \overline{\nu}_e$
Gallas 96
Wenzel 96
Abachi 95K
Abachi 95ZD
Abachi 95ZN
Eno 95
Kopp 95
Abe 94R
Eppley 94
Hara 94
Jakobs 94
Kopp 94
Maeshima 94
Taketani 94

$\mu^-\ \overline{\nu}_\mu$
Wenzel 96
Kopp 95
Hara 94

e^- heavy-$\overline{\nu}$
Abachi 95K
Eno 95

2jet
Abe 97D
Harris 95
Abe 94Y
Harris 94B
Jakobs 94

W^- higgs
Kopp 95

$Z^0\ W^-$
Barnett 96
Conway 96
Kamon 96
Wenzel 96
Kopp 95
Park 95

Z'
Nodulman 94
Shochet 94

$e^-\ e^+$
Abe 97L
Abachi 96E
Barnett 96
Bodek 96
Conway 96
Kamon 96
Maeshima 96
Pillai 96
Wenzel 96
Abachi 95K
Eno 95
Harris 95
Park 95
Abe 94J
Eppley 94
Hara 94
Jakobs 94
Maeshima 94
Taketani 94

$\mu^-\ \mu^+$
Abe 97L
Barnett 96
Bodek 96
Conway 96
Kamon 96
Maeshima 96
Pillai 96
Wenzel 96
Hara 94

2jet
Abe 97D
Harris 95
Abe 94Y
Harris 94B
Jakobs 94

Z'

$\gamma\ S^0$
Acciarri 95B

$q\ \overline{q}$
Harris 95B

$\overline{t}\ t$
Beretvas 95B
Beretvas 95D

3γ
Acciarri 95B

lepto-quark
Abe 98V
Abreu 98J
Shochet 94

ℓ^- jet
Wenzel 96

ν jet
Abachi 95ZG

μ^- jet
Wenzel 96
Abachi 95ZG
Park 95

τ^- jet
Conway 97
Wenzel 96

$\nu\ q$
Abbott 97J
Barnett 96
Brummer 96B
Conway 96
Kamon 96
Abachi 95Z
Aid 95J
Ahmed 94
Barreiro 94
Greenshaw 94
Kiesling 94
White 94
Abachi 93B
Krasny 93B

$\nu_e\ q$
Hagopian 94
Harnew 94
Jakobs 94

$e^-\ q$
Grossopilche 98
Abbott 97D
Abbott 97J
Abe 97X
Barnett 96
Brummer 96B
Conway 96
Kamon 96
Aid 95J
Ahmed 94
Barreiro 94
Brisson 94B
Greenshaw 94
Hagopian 94
Harnew 94
Jakobs 94
Kiesling 94
Norman 94
White 94
Abachi 93B
Krasny 93B

$e^+\ q$
Brummer 96B
Aid 95J

$\nu_\mu\ q$
Hagopian 94

$\mu^\pm\ q$
Brummer 96B
Barreiro 94

$\mu^-\ q$
Abe 98Q
Barnett 96
Brummer 96B
Conway 96
Derrick 96H
Kamon 96
Abachi 95Z
Abe 95B

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

lepto-quark

	Aid 95J, Harris 95, Hoftun 95, Hagopian 94, Norman 94, Park 94B
$\mu^+ q$	Brummer 96B, Aid 95J
$\tau^- q$	Brummer 96B, Derrick 96H, Aid 95J
$\tau^+ q$	Brummer 96B, Aid 95J
νs	Abbott 99C
$\mu^- s$	Abbott 99C
νc	Abbott 99C
$\mu^- c$	Abbott 99C
$\nu_\tau b$	Abbott 98F
$\tau^- b$	Abe 96ZD
$\tau^- \bar{b}$	Abe 96ZD
$\bar{\nu}_\tau \bar{b}$	Abbott 98F

$\overline{\text{lepto-quark}}$

	Abbott 98F, Abe 98V, Abreu 98J, Abe 95B, Harris 95, Hoftun 95, Park 94B, White 94, Abachi 93B
ℓ^+ jet	Wenzel 96
ν jet	Abachi 95ZG
μ^+ jet	Wenzel 96, Abachi 95ZG, Park 95
τ^+ jet	Conway 97, Wenzel 96
$\bar{\nu} \bar{q}$	Abbott 97J, Barnett 96, Conway 96, Kamon 96, Abachi 95Z
$\bar{\nu}_e \bar{q}$	Hagopian 94, Jakobs 94
$e^+ \bar{q}$	Grossopilche 98, Abbott 97D, Abbott 97J, Abe 97X, Barnett 96, Conway 96, Kamon 96, Hagopian 94, Jakobs 94
$\mu^+ q$	Derrick 96H
$\bar{\nu}_\mu \bar{q}$	Hagopian 94
$\mu^+ \bar{q}$	Abe 98Q, Barnett 96, Conway 96, Kamon 96, Abachi 95Z

$\overline{\text{lepto-quark}}$

$\tau^+ q$	Hagopian 94
$\bar{\nu} \bar{s}$	Derrick 96H
$\mu^+ \bar{s}$	Abbott 99C
$\bar{\nu} \bar{c}$	Abbott 99C
$\mu^+ \bar{c}$	Abbott 99C
$\tau^+ b$	Abbott 99C
$\tau^+ \bar{b}$	Abe 96ZD, Abe 96ZD

goldstone

	Golutvin 94

majoron

	Ashitkov 98, Barabash 98, Dassie 98, Kudomi 98, Desilva 97, Arnold 96, Ejiri 96, Albrecht 95B, Burachas 95, Tretyak 95, Dassie 94, Kobayashi 94

arion

	Albrecht 95B

axigluon

2jet	Abe 97D, Harris 95, Abe 94Y, Harris 94B
$q \bar{q}$	Harris 95B

S^0

	Skalsey 95, Balest 94B
2γ	Acciarri 95B

ℓ

	Karlsson 96, Semenov 96B, Stichelbaut 96, Abreu 95B, Akers 95K, Behnke 95, Demin 94, Akers 93F

ν

$\nu \gamma$	Babu 94
$\nu_e \gamma$	Birnbaum 97

$\bar{\nu}$

$\bar{\nu}_e$	Vidyakin 94

ν_e

ν	Naples 99, Fukuda 98G, Borisov 96
ν_μ	Armbruster 98, Oyama 97, Anselmann 95, Bahcall 95, Vignaud 95, Baldoceolin 94B, Beier 94, Berezin 94, Fukuda 94

ν_e

ν_τ	Pantaleone 94, Naples 99, Armbruster 98, Gninenko 98, Anselmann 95, Bahcall 95, Berezin 94

$\bar{\nu}_e$

$\bar{\nu}$	Naples 99, Vyrodov 98, Apollonio 97, Greenwood 96, Achkar 95, Declais 94, Vidyakin 94
$\bar{\nu}_\mu$	Oyama 97, Vyrodov 95, Beier 94
$\bar{\nu}_\tau$	Naples 99, Gninenko 98

ν_μ

ν_e	Armbruster 98D, Athanassopou 97B, Athanassopou 97C, Clark 97, Oyama 97, Loverre 96, Mcfarland 96, Romosan 96, Vignaud 95, Baldoceolin 94B, Beier 94, Fukuda 94, Pantaleone 94, Vilain 94B
ν_τ	Altegoer 98B, Ambrosio 98, Eskut 98, Eskut 98B, Fukuda 98C, Clark 97, Gregoire 97, Loverre 96, Mcfarland 96, Mcfarland 95, Beier 94, Pantaleone 94

$\bar{\nu}_\mu$

$\bar{\nu}_e$	Armbruster 98D, Gninenko 98, Clark 97, Oyama 97, Athanassopou 96, Athanassopou 96B, Romosan 96, Athanassopou 95, Hill 95, Beier 94, Vilain 94B
$\bar{\nu}_\tau$	Ambrosio 98, Fukuda 98C, Gninenko 98, Clark 97, Mcfarland 95, Beier 94

ν_τ

γ X	Abreu 96
ν	Swain 97B
ν_μ	Ambrosio 98, Fukuda 98C, Beier 94

ν_τ

	Pantaleone 94
$\nu \gamma$	Babu 94
$e^- e^+ \nu_e$	Babu 94

$\bar{\nu}_\tau$

γ X	Abreu 96
$\bar{\nu}$	Swain 97B
$\bar{\nu}_\mu$	Ambrosio 98, Fukuda 98C, Beier 94

$\ell^\pm$

	Abbiendi 98M, Abreu 97C, Abe 96T, Behnke 95, Akers 94G

ℓ^-

	Abbiendi 98F, Abbiendi 98M, Acciarri 98D, Barate 98C, Sopczak 98, Abreu 97C, Artuso 97B, Barate 97ZB, Abachi 96O, Abe 96V, Abreu 96G, Abreu 96M, Abreu 96P, Aid 96C, Alexander 96N, Alexander 96T, Alexander 96V, Buskulic 96G, Buskulic 96L, Buskulic 96M, Buskulic 96N, Buskulic 96R, Buskulic 96U, Checchia 96, Jackson 96, Karlsson 96, Kobel 96, Lucchesi 96, Maeshima 96, Schmitt 96B, Stichelbaut 96, Wenzel 96, Acciarri 95C, Acciarri 95F, Acciarri 95G, Akers 95E, Behnke 95, Buskulic 95E, Buskulic 95W, Gibbons 95B, Abreu 94G, Abreu 94J, Abreu 94P, Acciarri 94, Acciarri 94C, Akers 94B, Akers 94G, Akers 94N, Akers 94Q, Athanas 94, Barish 94, Buskulic 94C, Buskulic 94D, Buskulic 94E, Dejongh 94, Konigsberg 94, Buskulic 93D, Shelkov 93

ℓ^+

	Abbiendi 98F

ℓ^+

Abbiendi 98M
Acciarri 98D
Barate 98C
Hoffmann 98
Sopczak 98
Abreu 97C
Artuso 97B
Barate 97ZB
Abachi 96O
Abe 96V
Abreu 96G
Abreu 96M
Abreu 96P
Aid 96C
Alexander 96N
Alexander 96T
Alexander 96V
Buskulic 96G
Buskulic 96L
Buskulic 96M
Buskulic 96N
Buskulic 96R
Buskulic 96U
Checchia 96
Jackson 96
Karlsson 96
Kobel 96
Lucchesi 96
Maeshima 96
Schmitt 96B
Semenov 96
Stichelbaut 96
Wenzel 96
Acciarri 95C
Acciarri 95F
Acciarri 95G
Akers 95E
Behnke 95
Buskulic 95E
Buskulic 95U
Buskulic 95W
Gibbons 95B
Abreu 94G
Abreu 94J
Abreu 94P
Acciarri 94
Akers 94B
Akers 94G
Akers 94N
Akers 94Q
Albrecht 94R
Athanas 94
Buskulic 94B
Buskulic 94C
Buskulic 94D
Buskulic 94E
Dejongh 94
Konigsberg 94
Mueller 94
Buskulic 93D
Shelkov 93

$\tau^\pm$

Abe 98R
Ackerstaff 97T
Kuno 94
charged neutral (neutrals)
Vorobiev 95B
3charged neutral (neutrals)
Vorobiev 95B
$e^\pm \nu \bar{\nu}$
Danilov 94

τ^-

Abbott 99
Abreu 99
Abreu 99E
Abreu 99H
Abreu 99J
Acciarri 99
Barate 99
Barate 99C
Barate 99D
Abbiendi 98

τ^-

Abbiendi 98R
Abreu 98N
Abreu 98T
Acciarri 98B
Acciarri 98F
Acciarri 98H
Acciarri 98J
Acciarri 98Q
Acciarri 98U
Acciarri 98ZD
Ackerstaff 98F
Ackerstaff 98G
Ackerstaff 98R
Altegoer 98B
Barate 98C
Barate 98Q
Barate 98R
Barate 98S
Klima 98
Sopczak 98
Abe 97K
Abe 97O
Abe 97T
Abreu 97D
Abreu 97L
Abreu 97P
Abreu 97Q
Abreu 97R
Acciarri 97
Acciarri 97B
Acciarri 97C
Acciarri 97D
Acciarri 97L
Acciarri 97N
Acciarri 97S
Acciarri 97T
Acciarri 97Z
Ackerstaff 97
Ackerstaff 97Q
Ackerstaff 97R
Ackerstaff 97T
Ackerstaff 97U
Ackerstaff 97V
Ackerstaff 97ZG
Barate 97J
Barate 97N
Barate 97O
Barate 97S
Barate 97T
Barate 97U
Barate 97ZE
Gregoire 97
Panvini 97
Roney 97
Sanchez 97
Taylor 97
Abe 96X
Abe 96ZD
Abreu 96K
Abreu 96S
Abreu 96W
Acciarri 96F
Acciarri 96H
Acciarri 96L
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96F
Ackerstaff 96I
Ackerstaff 96P
Ackerstaff 96Q
Alexander 96B
Alexander 96O
Alexander 96T
Alexander 96U
Alexander 96W
Alexander 96Y
Alexander 96ZB
Azzi 96
Barnett 96
Brummer 96B
Buskulic 96D
Buskulic 96G
Buskulic 96L
Buskulic 96N

τ^-

Buskulic 96Y
Buskulic 96Z
Castro 96
Conway 96
Derrick 96H
Leone 96B
Loomis 96B
Maeshima 96
Montgomery 96
Sinervo 96
Stichelbaut 96
Tartarelli 96
Valls 96
Vorobiev 96
Wenzel 96
Abachi 95X
Acciarri 95L
Aid 95J
Buskulic 95W
Kounine 95
Schumm 95
Tesch 95
Vorobiev 95B
Abe 94C
Abe 94E
Abe 94T
Abreu 94E
Abreu 94G
Abreu 94P
Acciarri 94
Akers 94Q
Albrecht 94U
Buskulic 94
Buskulic 94E
Buskulic 94K
Danilov 94
Jakobs 94
Janot 94
Leone 94
Shevchenko 94
Velissaris 94
Adam 93
Akers 93D
Ammar 93B
Grunewald 93
Sakuda 93
e^- X
Duflot 95
Gomezycadena 94
μ^- X
Duflot 95
Gomezycadena 94
ν_τ X
Buskulic 95
Babu 94
charged (neutrals)
Evans 97
Weber 97
Abreu 95P
Buskulic 95H
K^- (neutrals)
Battle 94
e^- neutral (neutrals)
Cinabro 94
ν_τ charged$^-$ (neutrals)
Evans 97
Wermes 97
ν_τ hadron (hadrons)
Evans 96
Acciarri 95K
Bai 95
Davier 95
Korolko 95
Fero 94
$\bar{\nu}_\tau$ hadron (hadrons)
Conway 97
Evans 97
Loomis 96
ν_τ charged-hadron (neutrals)
Barate 97D
Evans 96
Coan 95

τ^-

$K^- \nu_\tau$ X
Danilov 94
$K_S \nu_\tau$ X
Barate 97ZF
Evans 95
Ruckstuhl 95
Akers 94I
$K^- \nu_\tau$ (neutrals)
Abreu 94O
Alemany 94
Buskulic 94G
$K^- \nu_\tau$ (hadron^0's)
Evans 95
K^- (π^0's) ν_τ
Camoana 97
Evans 97
Park 95B
$K^*(892)^- \nu_\tau$ (neutrals)
Albrecht 95C
Alemany 94
$K^*(892)^- \nu_\tau$ (neutrals) 0K_S
Akers 94I
$K^*(892)^- \nu_\tau$ (hadron^0's)
Evans 95
charged (chargeds) X
Abe 96
charged (chargeds) (neutrals)
Akers 95T
charged neutral (neutrals)
Evans 97
Weber 97
Acciarri 96K
Balest 96
Andreazza 95
Biasini 95
Davier 95
Duflot 95
Ferrante 95
White 95
Akers 94L
charged$^-$ neutral (neutrals)
Evans 97
Wermes 97
Buskulic 94J
Gomezycadena 94
$K_S \pi^- \nu_\tau$ (hadron^0's)
Evans 95
$K^- \pi^0$ (π^0's) ν_τ + $\pi^0 \pi^-$ (π^0's) ν_τ
Akers 94
$K^- \pi^0$ (π^0's) ν_τ
Evans 95
$K_S K^- \nu_\tau$ (hadron^0's)
Evans 95
3charged (neutrals)
Weber 97
Abe 96Z
Abe 95ZF
Abreu 95P
Alexander 95F
Buskulic 95H
Akers 94L
charged (chargeds) neutral (neutrals)
Abreu 96D
(π^0's) ν_τ hadron$^+$ 2hadron$^-$
Artuso 94
ν_τ 3charged-hadron (neutrals)
Ackerstaff 98H
Barate 97D
Alexander 96I
Evans 96
Coan 95
$2\pi^0 \pi^-$ (π^0's) ν_τ
Ackerstaff 97ZE
Evans 97
Ruiz 97
$K^- \pi^+ \pi^- \nu_\tau$ (neutrals)
Cavallo 97

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

τ^-

Evans 97
$\overline{K}^0\ \pi^0\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Evans 97
Towers 97
$K^-\ 2\pi^0\ (\pi^0\text{'s})\ \nu_\tau\ +$
$2\pi^0\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Akers 94
$K^-\ 2\pi^0\ (\pi^0\text{'s})\ \nu_\tau$
Ackerstaff 97ZE
Evans 97
Ruiz 97
$K^-\ \pi^+\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Alemany 94
$K^+\ K^-\ \pi^-\ \nu_\tau$ (neutrals)
Cavallo 97
Evans 97
$K^+\ K^-\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Alemany 94
$K^0\ K^-\ \pi^0\ (\pi^0\text{'s})\ \nu_\tau$
Evans 97
Towers 97
3charged neutral (neutrals)
Weber 97
Acciarri 96K
Balest 96
Charlesworth 95
Davier 95
Duflot 95
White 95
charged$^+$ 2charged$^-$ neutral (neutrals)
Gomezycadena 94
$\nu_\tau\ \gamma\ (\gamma\text{'s})$ 3charged-hadron
Evans 97
Weber 97
$\nu_\tau\ 3\gamma\ (\gamma\text{'s})$ hadron$^-$
Evans 97
Weber 97
$\pi^0\ (\pi^0\text{'s})\ \nu_\tau$ 3hadron
Evans 97
Weber 97
$3\pi^0\ (\pi^0\text{'s})\ \nu_\tau$ hadron$^-$
Evans 97
Weber 97
Girone 95
$3\pi^0\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Evans 97
Ruiz 97
Weber 97
$\pi^+\ \pi^0\ 2\pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Evans 97
Weber 97
Wermes 97
Akers 94P
$K^-\ 3\pi^0\ (\pi^0\text{'s})\ \nu_\tau$
Evans 97
Ruiz 97
$K^-\ \pi^+\ \pi^0\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Cavallo 97
Evans 97
$K^+\ K^-\ \pi^0\ \pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Cavallo 97
Evans 97
$(\pi^0\text{'s})\ \nu_\tau$ 2hadron$^+$ 3hadron$^-$
Duflot 94
$\nu_\tau\ (\gamma\text{'s})$ 5charged-hadron
Evans 97
Weber 97
$2\pi^+\ 3\pi^-\ \nu_\tau$ (neutrals)
Danilov 94
Gibaut 94
$2\pi^+\ 3\pi^-\ (\pi^0\text{'s})\ \nu_\tau$
Barate 97W
Evans 97
Nikolic 97
Passalacqua 97
Weber 97
5charged neutral (neutrals)
Evans 97
Weber 97

τ^-

Duflot 95
$3\pi^0\ (\pi^0\text{'s})\ \nu_\tau$ hadron$^+$ 2hadron$^-$
Girone 95
Heltsley 95
Duflot 94
$3\pi^+\ 4\pi^-\ \nu_\tau\ (\gamma\text{'s})$
Ackerstaff 97I
7charged neutral (neutrals)
Ackerstaff 97I
jet
Alexander 96G
$e^-\ \gamma$
Edwards 97
Abreu 95K
Stugu 95
e^- axion
Albrecht 95B
e^- goldstone
Golutvin 94
e^- majoron
Albrecht 95B
e^- arion
Albrecht 95B
$\mu^-\ \gamma$
Edwards 97
Abreu 95K
Stugu 95
Eigen 94
μ^- axion
Albrecht 95B
μ^- goldstone
Golutvin 94
μ^- majoron
Albrecht 95B
μ^- arion
Albrecht 95B
ν_τ jet
Weber 97
ν_τ hadron
Evans 97
Weber 97
ν_τ hadron$^-$ $-$ $K^*(892)^-\ \nu_\tau$
Evans 97
Weber 97
ν_τ hadron$^-$
Evans 97
Weber 97
Girone 95
Heltsley 95
Danilov 94
Duflot 94
meson$^-\ \nu_\tau$
Abreu 98B
$\pi^0\ e^-$
Bonvicini 97
$\pi^0\ \mu^-$
Bonvicini 97
$\pi^-\ \nu_\tau$
Acciarri 98C
Acciarri 98D
Acciarri 98ZE
Barate 98H
Abe 97G
Ackerstaff 97ZE
Alvaro 97
Anastassov 97B
Brient 97
Coan 97
Evans 97
Hanai 97
Heltsley 97
Moore 97
Quigley 97
Ruiz 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Alexander 96K
Abreu 95T
Akers 95B
Albrecht 95

τ^-

Bella 95
Buskulic 95K
Buskulic 95O
Buskulic 95P
Davier 95
Gentile 95
Girone 95
Hanai 95
Heltsley 95
Matorras 95
Raab 95
Stahl 95
Akers 94P
Alemany 94
Bonivento 94
Brient 94
Buskulic 94J
Fan 94B
Golutvin 94
Gomezycadena 94
Hocker 94
Jones 94
$\eta\ e^-$
Bonvicini 97
$\eta\ \mu^-$
Bonvicini 97
$\rho^0\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94
$\rho^0\ \mu^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94
$\rho^-\ \nu_\tau$
Acciarri 98C
Acciarri 98D
Acciarri 98ZE
Abe 97G
Albrecht 97B
Alvaro 97
Anastassov 97B
Brient 97
Evans 97
Hanai 97
Heltsley 97
Moore 97
Quigley 97
Ruiz 97
Weber 97
Wermes 97
Acciarri 96C
Alexander 96K
Abreu 95T
Akers 95B
Bella 95
Buskulic 95K
Buskulic 95P
Davier 95
Hanai 95
Harton 95
Matorras 95
Raab 95
Stahl 95
Acciarri 94F
Akers 94P
Albrecht 94Q
Bonivento 94
Brient 94
Buskulic 94J
Golutvin 94
Gomezycadena 94
$a_1(1260)^-\ \nu_\tau$
Asner 99
Abreu 98B
Acciarri 98D
Evans 97
Ruiz 97
Wermes 97
Alexander 96K

τ^-

Evans 96
Abreu 95T
Bella 95
Buskulic 95K
Buskulic 95P
Davier 95
Harton 95
Matorras 95
Qi 95
Raab 95
Stahl 95
Acciarri 94F
Akers 94P
Buskulic 94J
Gomezycadena 94
$K^-\ \nu_\tau\ +\ \pi^-\ \nu_\tau$
Acciarri 95
Bella 95
Matorras 95
Acciarri 94F
$K^-\ \nu_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Anastassov 97B
Brient 97
Coan 97
Evans 97
Hanai 97
Heltsley 97
Quigley 97
Ruiz 97
Swain 97B
Alexander 96K
Abreu 95T
Akers 95B
Bella 95
Buskulic 95O
Evans 95
Gentile 95
Heltsley 95
Matorras 95
Park 95B
Ruckstuhl 95
Abreu 94O
Alemany 94
Battle 94
Bonivento 94
Brient 94
Buskulic 94G
Danilov 94
Golutvin 94
Gomezycadena 94
Urheim 94
$K^*(892)^0\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94
$\overline{K}^*(892)^0\ e^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94
$K^*(892)^0\ \mu^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94
$\overline{K}^*(892)^0\ \mu^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94
$K^*(892)^-\ \nu_\tau$
Barate 99E
Evans 97
Wermes 97
Buskulic 95O
Heltsley 95
Qi 95

τ^-

Ruckstuhl 95
Abreu 94O
Akers 94P
Alemany 94
Battle 94
Bonivento 94
Buskulic 94F
Golutvin 94
Gomezycadena 94
Smith 94

$K_1(1270)^- \nu_\tau$
Barate 99E
Bauer 93B

$K_1(1400)^- \nu_\tau$
Bauer 93B

$K^*(1410)^- \nu_\tau$
Barate 99E

$\phi(1020)\ e^-$
Bliss 97

$\phi(1020)\ \mu^-$
Bliss 97

$\overline{p}\ \gamma$
Bartelt 98B

$\overline{p}\ \pi^0$
Bartelt 98B

$\overline{p}\ \eta$
Bartelt 98B

$\ell^-\ \nu_\tau\ \overline{\nu}$
Acciarri 94C

$2e^-\ e^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$e^-\ \nu_\tau\ \overline{\nu}_e$
Abbiendi 98I
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98S
Abe 97G
Albrecht 97B
Alexander 97
Anastassov 97B
Brient 97
Chadha 97B
Edsall 97
Evans 97
Hanai 97
Heltsley 97
Kounine 97
Lohmann 97
Moore 97
Quigley 97
Sobie 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Ackerstaff 96N
Alexander 96K
Evans 96
Waldi 96
Abreu 95F
Abreu 95T
Akers 95B
Akers 95D
Albrecht 95
Alcaraz 95
Alexander 95G
Artuso 95
Bai 95
Bella 95
Buskulic 95K
Buskulic 95N
Buskulic 95P
Coan 95
Dam 95
Davier 95
Duflot 95
Hanai 95
Heltsley 95
Matorras 95
Raab 95
Schmidtler 95
Stahl 95
Watkins 95
Weinstein 95
Acciarri 94F
Akers 94P
Albrecht 94K
Artuso 94
Bai 94
Buskulic 94J
Danilov 94
Fan 94B
Golutvin 94
Gomezycadena 94
Hocker 94
Jones 94

$\mu^-\ e^-\ e^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$\mu^+\ 2e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$2\mu^-\ e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\mu^-\ \mu^+\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$2\mu^-\ \mu^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$\mu^-\ \nu_\tau\ \overline{\nu}_\mu$
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98S
Abe 97G
Alexander 97
Anastassov 97B
Brient 97
Chadha 97B
Edsall 97
Evans 97
Hanai 97
Heltsley 97
Kounine 97
Lohmann 97
Moore 97
Quigley 97
Sobie 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Ackerstaff 96N
Alexander 96K
Waldi 96
Abreu 95F
Abreu 95T
Akers 95B
Akers 95D
Albrecht 95
Alcaraz 95
Artuso 95
Bai 95
Bella 95
Buskulic 95K
Buskulic 95N
Buskulic 95P
Dam 95
Davier 95
Duflot 95
Hanai 95
Heltsley 95
Korolko 95
Matorras 95
Raab 95
Schmidtler 95
Stahl 95
Watkins 95
Weinstein 95
Acciarri 94F
Akers 94P
Albrecht 94K
Artuso 94
Bai 94
Buskulic 94J
Danilov 94
Fan 94B
Golutvin 94
Gomezycadena 94
Jones 94

$\pi^0\ \nu_\tau$ charged$^-$
Urheim 94

$\pi^0\ \nu_\tau$ hadron$^-$
Evans 97
Weber 97
Girone 95
Heltsley 95
Weinstein 95
Artuso 94
Danilov 94
Duflot 94
Golutvin 94
Gomezycadena 94

$2\pi^0\ e^-$
Bonvicini 97

$\pi^+\ \pi^-\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$2\pi^-\ e^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$2\pi^0\ \mu^-$
Bonvicini 97

$\pi^+\ \pi^-\ \mu^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$2\pi^-\ \mu^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$\pi^0\ \pi^-\ \nu_\tau$
Ackerstaff 98T
Barate 98H
Ackerstaff 97ZE
Alemany 97
Alexander 97
Barate 97E
Chadha 97B
Evans 97
Ruiz 97
Urheim 97
Buskulic 95O
Gentile 95
Girone 95
Heltsley 95
Weinstein 95
Albrecht 94Q
Danilov 94
Hocker 94
Urheim 94

$\pi^0\ \pi^-\ \nu_\tau$ –
$K^- < \pi^0\ \pi^- > \nu_\tau$
Evans 97
Weber 97

$\eta\ \pi^0\ e^-$
Bonvicini 97

$\eta\ \pi^0\ \mu^-$
Bonvicini 97

$\eta\ \pi^-\ \nu_\tau$
Evans 97
Rouge 97
Buskulic 96C
Eigen 94

$2\eta\ e^-$
Bonvicini 97

$2\eta\ \mu^-$
Bonvicini 97

$\omega\ \nu_\tau$ hadron$^-$
Heltsley 95
Danilov 94

$\omega\ \pi^-\ \nu_\tau$
Barate 98H
Evans 97
Rouge 97
Buskulic 96C
Balest 95
Bourdon 95
Buskulic 95O

$\eta'\ \pi^-\ \nu_\tau$
Evans 97
Shelkov 97

$f_1(1285)\ \pi^-\ \nu_\tau$
Bergfeld 97
Evans 97
Shelkov 97

$K^0\ \nu_\tau$ charged$^-$
Urheim 94

$\overline{K}^0\ \nu_\tau$ hadron$^-$ +
$\pi^0\ \nu_\tau$ hadron$^-$
Danilov 94

$K_S\ \nu_\tau$ hadron$^-$
Cavallo 97
Evans 97
Heltsley 95
Smith 94

$K^+\ \pi^-\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^-\ \pi^+\ e^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^-\ \pi^-\ e^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^+\ \pi^-\ \mu^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^-\ \pi^+\ \mu^-$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^-\ \pi^-\ \mu^+$
Bliss 97
Bartelt 94
Danilov 94
Eigen 94
Golutvin 94

$K^0\ \pi^-\ \nu_\tau$
Buskulic 94F

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

τ^-

$\overline{K}^0 \pi^- \nu_\tau$
Barate 99E
Barate 99F
Anderson 98
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Towers 97
Acciarri 95I

$K^- \pi^0 \nu_\tau + \pi^0 \pi^- \nu_\tau$
Acciarri 95
Akers 94

$K^- \pi^0 \nu_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Camoana 97
Evans 97
Ruiz 97
Gentile 95
Park 95B
Weinstein 95
Alemany 94
Battle 94
Buskulic 94G
Danilov 94
Golutvin 94
Gomezycadena 94
Urheim 94

$K_S \pi^- \nu_\tau$
Evans 97
Urheim 97
Coan 96
Park 95B
Qi 95
Smith 94

$K_L \pi^- \nu_\tau$
Buskulic 94F

$K^- \eta \nu_\tau$
Barate 99E
Evans 97
Rouge 97
Bartelt 96
Buskulic 96C
Eigen 94

$K^+ K^- e^-$
Bliss 97

$2K^- e^+$
Bliss 97

$K^+ K^- \mu^-$
Bliss 97

$2K^- \mu^+$
Bliss 97

$K^0 K^- \nu_\tau$
Barate 99E
Barate 99F
Barate 98H
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Towers 97
Buskulic 95O
Heltsley 95
Alemany 94
Buskulic 94F
Urheim 94

$\overline{K}^0 K^- \nu_\tau$
Alemany 94

$K_S K^- \nu_\tau$
Coan 96
Park 95B
Smith 94

$K_L K^- \nu_\tau$
Buskulic 94F

$\overline{K}^*(892)^0 \pi^- \nu_\tau$
Barate 97K
Albrecht 95C
Alemany 94

τ^-

$K^*(892)^- \pi^0 \nu_\tau$
Smith 94

$K^*(892)^- \eta \nu_\tau$
Bishai 98

$K^*(892)^0 K^- \nu_\tau$
Barate 97K
Albrecht 95C

$\phi(1020) \pi^- \nu_\tau$
Avery 97
Evans 97
Kass 97

$K^- \phi(1020) \nu_\tau$
Avery 97
Evans 97
Kass 97

$\overline{p} 2\pi^0$
Bartelt 98B

$\overline{p} \eta \pi^0$
Bartelt 98B

$\mu^- \nu_\tau \overline{\nu}_\mu \gamma$
Evans 97
Sobie 97
Alexander 96R

ν_τ charged$^+$ 2charged$^-$
Urheim 94

ν_τ 3hadron
Evans 97
Weber 97
Duflot 95
Wermes 94

ν_τ hadron$^+$ 2hadron$^-$
Richichi 98
Girone 95
Heltsley 95
Weinstein 95
Duflot 94
Ford 94
Golutvin 94
Gomezycadena 94

$\overline{\nu}_\tau$ hadron$^+$ 2hadron$^-$
Akers 95O

ν_τ 3charged-hadron
Evans 97
Weber 97
Albrecht 95C
Albrecht 94K

ν_τ 2γ hadron$^-$
Evans 97
Weber 97

$2\pi^0 \nu_\tau$ hadron$^-$
Evans 97
Weber 97
Duflot 95
Girone 95
Heltsley 95
Danilov 94
Duflot 94
Golutvin 94
Gomezycadena 94

$2\pi^0 \nu_\tau$ hadron$^-$ $-$
$K^*(892)^- \nu_\tau - \omega \pi^- \nu_\tau$
Weber 97

$3\pi \nu_\tau - K < 2\pi > \pi \nu_\tau$
Weber 97

$2\pi^0 \pi^- \nu_\tau -$
$K^- < \pi^0 \pi^- > \pi^0 \nu_\tau$
Weber 97

$2\pi^0 \pi^- \nu_\tau$
Asner 99
Abreu 98B
Ackerstaff 98T
Barate 98H
Evans 97
Weber 97
Buskulic 95O
Gentile 95
Girone 95
Heltsley 95
Ford 94
Hocker 94

$\pi^+ 2\pi^- \nu_\tau$
Abreu 98B

τ^-

Ackerstaff 98T
Barate 98H
Ackerstaff 97D
Barate 97W
Brient 97
Evans 97
Muller 97
Nikolic 97
Passalacqua 97
Weber 97
Evans 96
Akers 95S
Albrecht 95
Balest 95
Buskulic 95O
Heltsley 95
Qi 95
Rouge 95
Bonivento 94
Ford 94
Hocker 94
Wermes 94
Bauer 93B

$\eta \pi^0 \nu_\tau$ hadron$^-$
Heltsley 95
Danilov 94

$\eta \pi^0 \pi^- \nu_\tau$
Barate 98H
Ackerstaff 97ZE
Evans 97
Rouge 97
Shelkov 97
Buskulic 96C
Eigen 94

$\rho^+ 2\pi^- \nu_\tau$
Bourdon 95

$\rho^0 \pi^0 \pi^- \nu_\tau$
Bourdon 95

$\rho^- \pi^+ \pi^- \nu_\tau$
Bourdon 95

$\omega \pi^0 \nu_\tau$ hadron$^-$
Heltsley 95

$\omega \pi^0 \pi^- \nu_\tau$
Barate 98H
Evans 97
Rouge 97
Buskulic 96C
Buskulic 95O

$\eta' \pi^0 \pi^- \nu_\tau$
Evans 97
Shelkov 97

$f_1(1285) \pi^0 \pi^- \nu_\tau$
Bergfeld 97

$K^0 \pi^0 \nu_\tau$ charged$^-$
Urheim 94

$K^- \pi^- \nu_\tau$ hadron$^+$
Richichi 98

$K_S \pi^0 \nu_\tau$ hadron$^-$
Cavallo 97
Evans 97
Heltsley 95

$K^+ 2\pi^- \nu_\tau$
Bauer 93B

$K^0 \pi^0 \pi^- \nu_\tau$
Buskulic 94F

$\overline{K}^0 \pi^0 \pi^- \nu_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Acciarri 95I
Buskulic 95O
Heltsley 95

$K^- 2\pi^0 \nu_\tau + 2\pi^0 \pi^- \nu_\tau$
Acciarri 95

$K^- 2\pi^0 \nu_\tau$
Barate 99E
Barate 99F
Camoana 97

τ^-

Evans 97
Buskulic 95O
Gentile 95
Heltsley 95
Park 95B
Battle 94
Buskulic 94G
Danilov 94

$K^- \pi^+ \pi^- \nu_\tau$
Barate 99E
Barate 97K
Camoana 97
Cavallo 97
Evans 97
Kass 97
Albrecht 95
Heltsley 95
Bauer 93B

$K_S \pi^0 \pi^- \nu_\tau$
Coan 96
Park 95B
Smith 94

$K_L \pi^0 \pi^- \nu_\tau$
Buskulic 94F

$K^- \eta \pi^0 \nu_\tau$
Buskulic 96C

$K_S \eta \pi^- \nu_\tau$
Bishai 98

$2K_S \nu_\tau$ hadron$^-$
Heltsley 95
Smith 94

$K_S K_L \nu_\tau$ hadron$^-$
Cavallo 97
Evans 97

$K^0 \overline{K}^0 \pi^- \nu_\tau$
Barate 98H
Ackerstaff 97ZE
Biasini 97
Evans 97
Acciarri 95I
Urheim 94

$K^+ K^- \pi^- \nu_\tau$
Barate 99E
Barate 98H
Richichi 98
Avery 97
Barate 97K
Camoana 97
Cavallo 97
Evans 97
Kass 97
Balest 95
Heltsley 95
Bauer 93B

$K^0 K^- \pi^0 \nu_\tau$
Barate 99E
Barate 99F
Barate 98H
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Buskulic 95O
Heltsley 95
Buskulic 94F
Urheim 94

$2K^- \pi^+ \nu_\tau$
Bauer 93B

$K_S K^- \pi^0 \nu_\tau$
Coan 96
Park 95B
Smith 94

$2K_S \pi^- \nu_\tau$
Barate 99E
Barate 97ZF
Evans 97
Towers 97
Coan 96

$K_L K^- \pi^0 \nu_\tau$
Buskulic 94F

$K_S K_L \pi^- \nu_\tau$
Barate 99E
Barate 97ZF

τ^-

$K^+ 2K^- \nu_\tau$
Barate 99E
Avery 97
Barate 97K
Camoana 97
Evans 97

$2K_S K^- \nu_\tau$
Coan 96

$2e^- e^+ \nu_\tau \overline{\nu}_e$
Alam 95

$\mu^- e^- e^+ \nu_\tau \overline{\nu}_\mu$
Alam 95

$\pi^0 \nu_\tau$ charged$^+$ 2charged$^-$
Urheim 94

$\pi^0 \nu_\tau$ 3hadron
Wermes 94

$\pi^0 \nu_\tau$ hadron$^+$ 2hadron$^-$
Richichi 98
Buskulic 95O
Girone 95
Heltsley 95
Weinstein 95
Duflot 94
Ford 94
Golutvin 94
Gomezycadena 94

$\pi^0 \overline{\nu}_\tau$ hadron$^+$ 2hadron$^-$
Akers 95O

$\pi^0 \nu_\tau$ 3charged-hadron
Albrecht 94K

$3\pi^0 \nu_\tau$ hadron$^-$
Buskulic 95O
Heltsley 95
Danilov 94
Duflot 94
Gomezycadena 94

$3\pi^0 \pi^- \nu_\tau$
Ackerstaff 98T
Barate 98H
Alemany 97
Barate 97E
Evans 97
Gentile 95

$\pi^+ \pi^0 2\pi^- \nu_\tau$
Ackerstaff 98T
Barate 98H
Alemany 97
Barate 97E
Evans 97
Achasov 96
Albrecht 95
Balest 95
Bourdon 95
Hocker 94

$\eta 2\pi^0 \pi^- \nu_\tau$
Barate 98H
Anderson 97B
Bergfeld 97

$\eta \pi^+ 2\pi^- \nu_\tau$
Barate 98H
Anderson 97B
Bergfeld 97

$\omega 2\pi^0 \pi^- \nu_\tau$
Anderson 97B

$K^0 \nu_\tau$ hadron$^+$ 2hadron$^-$
Barate 97ZF

$K^- \pi^0 \pi^- \nu_\tau$ hadron$^+$
Richichi 98

$\overline{K}^0 2\pi^0 \pi^- \nu_\tau$
Barate 99E
Barate 99F
Barate 97ZF

$K^- 3\pi^0 \nu_\tau$
Barate 99E
Barate 99F
Gentile 95

$K^- 3\pi^0 \nu_\tau + 3\pi^0 \pi^- \nu_\tau$
Acciarri 95

$K^- \pi^+ \pi^0 \pi^- \nu_\tau$
Barate 99E
Barate 97K
Camoana 97
Evans 97

τ^-

$K^+ K^- \pi^0 \pi^- \nu_\tau$
Barate 99E
Richichi 98
Barate 97K
Camoana 97
Evans 97
Balest 95

$K^0 K^- 2\pi^0 \nu_\tau$
Barate 99E
Barate 99F
Barate 97ZF

$2K_S \pi^0 \pi^- \nu_\tau$
Barate 99E
Barate 97ZF

$K_S K_L \pi^0 \pi^- \nu_\tau$
Barate 97ZF

$2K_L \pi^0 \pi^- \nu_\tau$
Barate 99E

ν_τ 2hadron$^+$ 3hadron$^-$
Ackerstaff 98Q
Buskulic 95O
Girone 95
Heltsley 95
Ford 94

$2\pi^0 \nu_\tau$ 3hadron
Wermes 94

$2\pi^0 \nu_\tau$ hadron$^+$ 2hadron$^-$
Girone 95
Heltsley 95
Duflot 94
Golutvin 94
Gomezycadena 94

$4\pi^0 \nu_\tau$ hadron$^-$
Buskulic 95O
Heltsley 95
Danilov 94
Duflot 94
Gomezycadena 94

$4\pi^0 \pi^- \nu_\tau$
Barate 98H

$\pi^+ 2\pi^0 2\pi^- \nu_\tau$
Ackerstaff 98T
Ammar 98
Barate 98H
Rouge 95

$2\pi^+ 3\pi^- \nu_\tau$
Ackerstaff 98H
Ammar 98
Barate 98H
Buskulic 95B
Cerutti 95
Rouge 95
Akers 94O
Danilov 94
Ford 94
Gibaut 94
Posthaus 94
Urheim 94

$\eta \pi^+ \pi^0 2\pi^- \nu_\tau$
Evans 97
Shelkov 97

$\pi^0 \nu_\tau$ 2hadron$^+$ 3hadron$^-$
Ackerstaff 98Q
Buskulic 95O
Girone 95
Heltsley 95
Ford 94

$3\pi^0 \nu_\tau$ hadron$^+$ 2hadron$^-$
Buskulic 95O

$2\pi^+ 3\pi^- \nu_\tau$ neutral
Urheim 94

$5\pi^0 \pi^- \nu_\tau$
Barate 98H

$\pi^+ 3\pi^0 2\pi^- \nu_\tau$
Barate 98H
Alemany 97
Anderson 97B
Barate 97E
Evans 97

$2\pi^+ \pi^0 3\pi^- \nu_\tau$
Barate 98H
Alemany 97
Barate 97E

τ^-

Evans 97
Buskulic 95B
Cerutti 95
Rouge 95
Danilov 94
Ford 94
Gibaut 94
Posthaus 94
Urheim 94

$2\pi^+ 2\pi^0 3\pi^- \nu_\tau$
Danilov 94
Ford 94
Gibaut 94

$3\pi^+ 4\pi^- \nu_\tau$
Edwards 97B

$3\pi^+ \pi^0 4\pi^- \nu_\tau$
Edwards 97B

τ^+

Abbott 99
Abreu 99
Abreu 99E
Abreu 99H
Abreu 99J
Acciarri 99
Barate 99
Barate 99C
Barate 99D
Abbiendi 98
Abbiendi 98R
Abreu 98N
Abreu 98T
Acciarri 98B
Acciarri 98F
Acciarri 98H
Acciarri 98J
Acciarri 98Q
Acciarri 98U
Acciarri 98ZD
Ackerstaff 98F
Ackerstaff 98G
Ackerstaff 98R
Barate 98C
Barate 98Q
Barate 98R
Barate 98S
Bartelt 98B
Klima 98
Sopczak 98
Abe 97K
Abe 97O
Abe 97T
Abreu 97D
Abreu 97L
Abreu 97P
Abreu 97Q
Abreu 97R
Acciarri 97
Acciarri 97B
Acciarri 97C
Acciarri 97D
Acciarri 97L
Acciarri 97N
Acciarri 97S
Acciarri 97T
Acciarri 97Z
Ackerstaff 97
Ackerstaff 97Q
Ackerstaff 97R
Ackerstaff 97T
Ackerstaff 97U
Ackerstaff 97V
Ackerstaff 97ZG
Barate 97J
Barate 97N
Barate 97O
Barate 97S
Barate 97T
Barate 97U
Barate 97ZE
Panvini 97
Roney 97
Sanchez 97
Taylor 97

τ^+

Abe 96X
Abe 96ZD
Abreu 96K
Abreu 96S
Abreu 96W
Acciarri 96F
Acciarri 96H
Acciarri 96L
Ackerstaff 96C
Ackerstaff 96E
Ackerstaff 96F
Ackerstaff 96I
Ackerstaff 96P
Ackerstaff 96Q
Alexander 96B
Alexander 96O
Alexander 96T
Alexander 96U
Alexander 96W
Alexander 96Y
Alexander 96ZB
Azzi 96
Barnett 96
Brummer 96B
Buskulic 96D
Buskulic 96G
Buskulic 96L
Buskulic 96N
Buskulic 96Y
Buskulic 96Z
Castro 96
Conway 96
Derrick 96H
Leone 96B
Loomis 96B
Maeshima 96
Montgomery 96
Sinervo 96
Stichelbaut 96
Tartarelli 96
Valls 96
Vorobiev 96
Wenzel 96
Abachi 95X
Acciarri 95L
Aid 95J
Buskulic 95W
Kounine 95
Schumm 95
Tesch 95
Vorobiev 95B
Abe 94C
Abe 94E
Abe 94T
Abreu 94E
Abreu 94G
Abreu 94P
Acciarri 94
Acciarri 94F
Akers 94
Akers 94I
Akers 94L
Akers 94Q
Babu 94
Battle 94
Buskulic 94
Buskulic 94E
Buskulic 94F
Buskulic 94K
Garbincius 94
Gibaut 94
Jakobs 94
Janot 94
Leone 94
Shevchenko 94
Velissaris 94
Adam 93
Akers 93D
Ammar 93B
Bauer 93B
Grunewald 93
Sakuda 93

e^+ X
Duflot 95
Gomezycadena 94

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

τ^+

μ^+ X
Duflot 95
Gomezycadena 94
$\overline{\nu}_\tau$ X
Buskulic 95
charged (neutrals)
Evans 97
Weber 97
Abreu 95P
Buskulic 95H
e^+ neutral (neutrals)
Cinabro 94
$\overline{\nu}_\tau$ charged$^+$ (neutrals)
Evans 97
Wermes 97
$\overline{\nu}_\tau$ hadron (hadrons)
Conway 97
Evans 97
Evans 96
Loomis 96
Acciarri 95K
Bai 95
Davier 95
Korolko 95
Fero 94
$\overline{\nu}_\tau$ charged-hadron (neutrals)
Barate 97D
Evans 96
Coan 95
K_S $\overline{\nu}_\tau$ X
Barate 97ZF
Evans 95
Ruckstuhl 95
K^+ $\overline{\nu}_\tau$ (neutrals)
Abreu 94O
Alemany 94
Buskulic 94G
K^+ $\overline{\nu}_\tau$ (hadron^0's)
Evans 95
K^+ (π^0's) $\overline{\nu}_\tau$
Camoana 97
Evans 97
Park 95B
$K^*(892)^+$ $\overline{\nu}_\tau$ (neutrals)
Albrecht 95C
Alemany 94
$K^*(892)^+$ $\overline{\nu}_\tau$ (hadron^0's)
Evans 95
charged (chargeds) X
Abe 96
charged (chargeds) (neutrals)
Akers 95T
charged neutral (neutrals)
Evans 97
Weber 97
Acciarri 96K
Balest 96
Andreazza 95
Biasini 95
Davier 95
Duflot 95
Ferrante 95
White 95
charged$^+$ neutral (neutrals)
Evans 97
Wermes 97
Buskulic 94J
Gomezycadena 94
K_S π^+ $\overline{\nu}_\tau$ (hadron^0's)
Evans 95
K^+ π^0 (π^0's) $\overline{\nu}_\tau$
Evans 95
K^+ K_S $\overline{\nu}_\tau$ (hadron^0's)
Evans 95
3charged (neutrals)
Evans 97
Weber 97
Abe 96Z
Abe 95ZF

τ^+

Abreu 95P
Alexander 95F
Buskulic 95H
charged (chargeds) neutral (neutrals)
Abreu 96D
(π^0's) $\overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Artuso 94
$\overline{\nu}_\tau$ 3charged-hadron (neutrals)
Ackerstaff 98H
Barate 97D
Alexander 96I
Evans 96
Coan 95
π^+ $2\pi^0$ (π^0's) $\overline{\nu}_\tau$
Ackerstaff 97ZE
Evans 97
Ruiz 97
K^+ π^+ π^- $\overline{\nu}_\tau$ (neutrals)
Cavallo 97
Evans 97
K^+ $2\pi^0$ (π^0's) $\overline{\nu}_\tau$
Ackerstaff 97ZE
Evans 97
Ruiz 97
K^+ π^+ π^- (π^0's) $\overline{\nu}_\tau$
Alemany 94
K^0 π^+ π^0 (π^0's) $\overline{\nu}_\tau$
Evans 97
Towers 97
K^+ K^- π^+ $\overline{\nu}_\tau$ (neutrals)
Cavallo 97
Evans 97
K^+ $\overline{K}^0$ π^0 (π^0's) $\overline{\nu}_\tau$
Evans 97
Towers 97
K^+ K^- π^+ (π^0's) $\overline{\nu}_\tau$
Alemany 94
3charged neutral (neutrals)
Evans 97
Weber 97
Acciarri 96K
Balest 96
Charlesworth 95
Davier 95
Duflot 95
White 95
2charged$^+$ charged$^-$ neutral (neutrals)
Gomezycadena 94
$\overline{\nu}_\tau$ γ (γ's) 3charged-hadron
Evans 97
Weber 97
$\overline{\nu}_\tau$ 3γ (γ's) hadron$^+$
Evans 97
Weber 97
$3\pi^0$ (π^0's) $\overline{\nu}_\tau$ hadron$^+$
Girone 95
π^+ $3\pi^0$ (π^0's) $\overline{\nu}_\tau$
Evans 97
Ruiz 97
Weber 97
$2\pi^+$ π^0 π^- (π^0's) $\overline{\nu}_\tau$
Evans 97
Weber 97
Wermes 97
Akers 94P
K^+ $3\pi^0$ (π^0's) $\overline{\nu}_\tau$
Evans 97
Ruiz 97
K^+ π^+ π^0 π^- (π^0's) $\overline{\nu}_\tau$
Cavallo 97
Evans 97
K^+ K^- π^+ π^0 (π^0's) $\overline{\nu}_\tau$
Cavallo 97
Evans 97
(π^0's) $\overline{\nu}_\tau$ 3hadron$^+$ 2hadron$^-$
Duflot 94

τ^+

$\overline{\nu}_\tau$ (γ's) 5charged-hadron
Evans 97
Weber 97
$3\pi^+$ $2\pi^-$ (π^0's) $\overline{\nu}_\tau$
Barate 97W
Evans 97
Weber 97
5charged neutral (neutrals)
Duflot 95
$3\pi^0$ (π^0's) $\overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Girone 95
Heltsley 95
Duflot 94
$4\pi^+$ $3\pi^-$ $\overline{\nu}_\tau$ (γ's)
Ackerstaff 97I
7charged neutral (neutrals)
Ackerstaff 97I
jet
Alexander 96G
e^+ γ
Edwards 97
Abreu 95K
Stugu 95
e^+ axion
Albrecht 95B
e^+ goldstone
Golutvin 94
e^+ majoron
Albrecht 95B
e^+ arion
Albrecht 95B
μ^+ γ
Edwards 97
Abreu 95K
Stugu 95
Eigen 94
μ^+ axion
Albrecht 95B
μ^+ goldstone
Golutvin 94
μ^+ majoron
Albrecht 95B
μ^+ arion
Albrecht 95B
$\overline{\nu}_\tau$ jet
Evans 97
Weber 97
$\overline{\nu}_\tau$ hadron$^+$
Evans 97
Weber 97
Girone 95
Heltsley 95
Duflot 94
meson$^+$ $\overline{\nu}_\tau$
Abreu 98B
π^0 e^+
Bonvicini 97
π^0 μ^+
Bonvicini 97
π^+ $\overline{\nu}_\tau$
Acciarri 98C
Acciarri 98D
Acciarri 98ZE
Barate 98H
Abe 97G
Ackerstaff 97ZE
Alvaro 97
Anastassov 97B
Brient 97
Coan 97
Evans 97
Hanai 97
Heltsley 97
Moore 97
Quigley 97
Ruiz 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Alexander 96K
Abreu 95T

τ^+

Akers 95B
Albrecht 95
Bella 95
Buskulic 95K
Buskulic 95O
Buskulic 95P
Davier 95
Gentile 95
Girone 95
Hanai 95
Heltsley 95
Matorras 95
Raab 95
Stahl 95
Akers 94P
Alemany 94
Bonivento 94
Brient 94
Buskulic 94J
Fan 94B
Golutvin 94
Gomezycadena 94
Hocker 94
Jones 94
η e^+
Bonvicini 97
η μ^+
Bonvicini 97
ρ^0 e^+
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94
ρ^0 μ^+
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94
ρ^+ $\overline{\nu}_\tau$
Acciarri 98D
Acciarri 98ZE
Abe 97G
Albrecht 97B
Alvaro 97
Anastassov 97B
Brient 97
Evans 97
Hanai 97
Heltsley 97
Moore 97
Quigley 97
Ruiz 97
Weber 97
Wermes 97
Acciarri 96C
Alexander 96K
Abreu 95T
Akers 95B
Bella 95
Buskulic 95K
Buskulic 95P
Davier 95
Hanai 95
Harton 95
Matorras 95
Raab 95
Stahl 95
Akers 94P
Albrecht 94Q
Bonivento 94
Brient 94
Buskulic 94J
Golutvin 94
Gomezycadena 94
$a_1(1260)^+$ $\overline{\nu}_\tau$
Asner 99
Abreu 98B
Acciarri 98D
Evans 97
Ruiz 97
Wermes 97
Alexander 96K
Evans 96
Abreu 95T

τ^+

Bella 95
Buskulic 95K
Buskulic 95P
Davier 95
Harton 95
Matorras 95
Qi 95
Raab 95
Stahl 95
Akers 94P
Buskulic 94J
Gomezycadena 94

$K^+ \bar{\nu}_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Anastassov 97B
Brient 97
Coan 97
Evans 97
Hanai 97
Heltsley 97
Quigley 97
Ruiz 97
Swain 97B
Weber 97
Alexander 96K
Abreu 95T
Akers 95B
Bella 95
Buskulic 95O
Evans 95
Gentile 95
Heltsley 95
Matorras 95
Park 95B
Ruckstuhl 95
Abreu 94O
Alemany 94
Bonivento 94
Brient 94
Buskulic 94G
Golutvin 94
Gomezycadena 94
Urheim 94

$K^+ \bar{\nu}_\tau + \pi^+ \bar{\nu}_\tau$
Acciarri 95
Bella 95
Matorras 95

$K^*(892)^0 e^-$
Eigen 94
Golutvin 94

$K^*(892)^0 e^+$
Bliss 97
Bartelt 94

$\overline{K}^*(892)^0 e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^*(892)^0 \mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\overline{K}^*(892)^0 \mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^*(892)^+ \bar{\nu}_\tau$
Barate 99E
Evans 97
Wermes 97
Buskulic 95O
Heltsley 95
Qi 95
Ruckstuhl 95
Abreu 94O
Akers 94P
Alemany 94
Bonivento 94
Golutvin 94

τ^+

Gomezycadena 94
Smith 94

$K_1(1270)^+ \bar{\nu}_\tau$
Barate 99E

$K^*(1410)^+ \bar{\nu}_\tau$
Barate 99E

$\phi(1020) e^+$
Bliss 97

$\phi(1020) \mu^+$
Bliss 97

$e^- 2e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$e^+ \bar{\nu}_\tau \nu_e$
Abbiendi 98I
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98S
Abe 97G
Albrecht 97B
Alexander 97
Anastassov 97B
Brient 97
Chadha 97B
Edsall 97
Evans 97
Hanai 97
Heltsley 97
Kounine 97
Lohmann 97
Moore 97
Quigley 97
Sobie 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Ackerstaff 96N
Alexander 96K
Evans 96
Waldi 96
Abreu 95F
Abreu 95T
Akers 95B
Akers 95D
Albrecht 95
Alcaraz 95
Alexander 95G
Artuso 95
Bai 95
Bella 95
Buskulic 95K
Buskulic 95N
Buskulic 95P
Coan 95
Dam 95
Davier 95
Duflot 95
Hanai 95
Heltsley 95
Matorras 95
Raab 95
Schmidtler 95
Stahl 95
Watkins 95
Weinstein 95
Akers 94P
Albrecht 94K
Artuso 94
Bai 94
Buskulic 94J
Fan 94B
Golutvin 94
Gomezycadena 94
Hocker 94
Jones 94

$\mu^- 2e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

τ^+

$\mu^+ e^- e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\mu^- \mu^+ e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$2\mu^+ e^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\mu^- 2\mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\mu^+ \bar{\nu}_\tau \nu_\mu$
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98S
Annis 98
Abe 97G
Alexander 97
Anastassov 97B
Brient 97
Chadha 97B
Edsall 97
Evans 97
Hanai 97
Heltsley 97
Kounine 97
Moore 97
Quigley 97
Sobie 97
Swain 97B
Weber 97
Wermes 97
Acciarri 96C
Ackerstaff 96N
Alexander 96K
Waldi 96
Abreu 95F
Abreu 95T
Akers 95B
Akers 95D
Albrecht 95
Alcaraz 95
Artuso 95
Bai 95
Bella 95
Buskulic 95K
Buskulic 95N
Buskulic 95P
Dam 95
Davier 95
Duflot 95
Hanai 95
Heltsley 95
Korolko 95
Matorras 95
Raab 95
Schmidtler 95
Stahl 95
Watkins 95
Weinstein 95
Akers 94P
Albrecht 94K
Artuso 94
Bai 94
Buskulic 94J
Fan 94B
Golutvin 94
Gomezycadena 94
Jones 94

$\pi^0 \bar{\nu}_\tau$ **charged**$^+$
Urheim 94

$\pi^0 \bar{\nu}_\tau$ **hadron**$^+$
Girone 95
Heltsley 95
Weinstein 95

τ^+

Artuso 94
Duflot 94
Golutvin 94
Gomezycadena 94

$2\pi^+ e^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$2\pi^0 e^+$
Bonvicini 97

$\pi^+ \pi^- e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$2\pi^+ \mu^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$2\pi^0 \mu^+$
Bonvicini 97

$\pi^+ \pi^- \mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$\pi^+ \pi^0 \bar{\nu}_\tau$
Ackerstaff 98T
Barate 98H
Ackerstaff 97ZE
Alemany 97
Alexander 97
Barate 97E
Chadha 97B
Evans 97
Ruiz 97
Urheim 97
Buskulic 95O
Gentile 95
Girone 95
Heltsley 95
Weinstein 95
Albrecht 94Q
Danilov 94
Hocker 94
Urheim 94

$\eta \pi^0 e^+$
Bonvicini 97

$\eta \pi^0 \mu^+$
Bonvicini 97

$\eta \pi^+ \bar{\nu}_\tau$
Evans 97
Rouge 97
Buskulic 96C
Eigen 94

$2\eta e^+$
Bonvicini 97

$2\eta \mu^+$
Bonvicini 97

$\omega \bar{\nu}_\tau$ **hadron**$^+$
Heltsley 95

$\omega \pi^+ \bar{\nu}_\tau$
Barate 98H
Evans 97
Rouge 97
Buskulic 96C
Balest 95
Bourdon 95
Buskulic 95O

$\eta' \pi^+ \bar{\nu}_\tau$
Evans 97
Shelkov 97

$f_1(1285) \pi^+ \bar{\nu}_\tau$
Bergfeld 97
Evans 97
Shelkov 97

$\overline{K}^0 \bar{\nu}_\tau$ **charged**$^+$
Urheim 94

$K_S \nu_\tau$ **hadron**$^+$
Cavallo 97
Evans 97

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

τ^+

$K_S\ \overline{\nu}_\tau$ hadron$^+$
Heltsley 95
Smith 94

$K^+\ \pi^+\ e^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^+\ \pi^-\ e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^-\ \pi^+\ e^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^+\ \pi^+\ \mu^-$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^+\ \pi^-\ \mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^-\ \pi^+\ \mu^+$
Bliss 97
Bartelt 94
Eigen 94
Golutvin 94

$K^+\ \pi^0\ \overline{\nu}_\tau + \pi^+\ \pi^0\ \overline{\nu}_\tau$
Acciarri 95

$K^+\ \pi^0\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Camoana 97
Evans 97
Ruiz 97
Gentile 95
Park 95B
Weinstein 95
Alemany 94
Buskulic 94G
Golutvin 94
Gomezycadena 94
Urheim 94

$K^0\ \pi^+\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Anderson 98
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Towers 97
Acciarri 95I

$K_S\ \pi^+\ \overline{\nu}_\tau$
Evans 97
Urheim 97
Coan 96
Park 95B
Qi 95
Smith 94

$K^+\ \eta\ \overline{\nu}_\tau$
Barate 99E
Evans 97
Rouge 97
Bartelt 96
Buskulic 96C
Eigen 94

$2K^+\ e^-$
Bliss 97

$K^+\ K^-\ e^+$
Bliss 97

$2K^+\ \mu^-$
Bliss 97

$K^+\ K^-\ \mu^+$
Bliss 97

τ^+

$K^+\ K^0\ \overline{\nu}_\tau$
Alemany 94

$K^+\ \overline{K}^0\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Barate 98H
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Towers 97
Buskulic 95O
Heltsley 95
Alemany 94
Urheim 94

$K^+\ K_S\ \overline{\nu}_\tau$
Coan 96
Park 95B
Smith 94

$K^*(892)^+\ \pi^0\ \overline{\nu}_\tau$
Smith 94

$K^*(892)^0\ \pi^+\ \overline{\nu}_\tau$
Barate 97K
Albrecht 95C
Alemany 94

$K^*(892)^+\ \eta\ \overline{\nu}_\tau$
Bishai 98

$\overline{K}^*(892)^0\ K^+\ \overline{\nu}_\tau$
Barate 97K
Albrecht 95C

$\phi(1020)\ \pi^+\ \overline{\nu}_\tau$
Avery 97
Evans 97
Kass 97

$K^+\ \phi(1020)\ \overline{\nu}_\tau$
Avery 97
Evans 97
Kass 97

$\mu^+\ \overline{\nu}_\tau\ \nu_\mu\ \gamma$
Evans 97
Sobie 97
Alexander 96R

$\overline{\nu}_\tau$ 2charged$^+$ charged$^-$
Urheim 94

$\overline{\nu}_\tau$ 3hadron
Duflot 95
Wermes 94

$\overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Richichi 98
Akers 95O
Girone 95
Heltsley 95
Weinstein 95
Duflot 94
Ford 94
Golutvin 94
Gomezycadena 94

$\overline{\nu}_\tau$ 3charged-hadron
Evans 97
Weber 97
Albrecht 95C
Albrecht 94K

$\overline{\nu}_\tau\ 2\gamma$ hadron$^+$
Evans 97
Weber 97

$2\pi^0\ \overline{\nu}_\tau$ hadron$^+$
Duflot 95
Girone 95
Heltsley 95
Duflot 94
Golutvin 94
Gomezycadena 94

$\pi^+\ 2\pi^0\ \overline{\nu}_\tau$
Asner 99
Abreu 98B
Ackerstaff 98T
Barate 98H
Evans 97
Weber 97
Buskulic 95O
Gentile 95

τ^+

Girone 95
Heltsley 95
Ford 94
Hocker 94

$2\pi^+\ \pi^-\ \overline{\nu}_\tau$
Abreu 98B
Ackerstaff 98T
Barate 98H
Ackerstaff 97D
Barate 97W
Brient 97
Evans 97
Muller 97
Passalacqua 97
Weber 97
Akers 95S
Albrecht 95
Balest 95
Buskulic 95O
Heltsley 95
Qi 95
Rouge 95
Bonivento 94
Ford 94
Hocker 94
Wermes 94

$\eta\ \pi^0\ \overline{\nu}_\tau$ hadron$^+$
Heltsley 95

$\eta\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Barate 98H
Ackerstaff 97ZE
Evans 97
Rouge 97
Shelkov 97
Buskulic 96C
Eigen 94

$\rho^+\ \pi^+\ \pi^-\ \overline{\nu}_\tau$
Bourdon 95

$\rho^0\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Bourdon 95

$\rho^-\ 2\pi^+\ \overline{\nu}_\tau$
Bourdon 95

$\omega\ \pi^0\ \overline{\nu}_\tau$ hadron$^+$
Heltsley 95

$\omega\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Barate 98H
Evans 97
Rouge 97
Buskulic 96C
Buskulic 95O

$\eta'\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Evans 97
Shelkov 97

$f_1(1285)\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Bergfeld 97

$\overline{K}^0\ \pi^0\ \overline{\nu}_\tau$ charged$^+$
Urheim 94

$K^+\ \pi^+\ \overline{\nu}_\tau$ hadron$^-$
Richichi 98

$K_S\ \pi^0\ \nu_\tau$ hadron$^+$
Cavallo 97
Evans 97

$K_S\ \pi^0\ \overline{\nu}_\tau$ hadron$^+$
Heltsley 95

$K^+\ 2\pi^0\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Camoana 97
Evans 97
Buskulic 95O
Gentile 95
Heltsley 95
Park 95B
Buskulic 94G

$K^+\ 2\pi^0\ \overline{\nu}_\tau + \pi^+\ 2\pi^0\ \overline{\nu}_\tau$
Acciarri 95

$K^+\ \pi^+\ \pi^-\ \overline{\nu}_\tau$
Barate 99E
Barate 97K
Camoana 97
Cavallo 97
Evans 97

τ^+

Kass 97
Albrecht 95
Heltsley 95

$K^0\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Acciarri 95I
Buskulic 95O
Heltsley 95

$K_S\ \pi^+\ \pi^0\ \overline{\nu}_\tau$
Coan 96
Park 95B
Smith 94

$K^+\ \eta\ \pi^0\ \overline{\nu}_\tau$
Buskulic 96C

$K_S\ \eta\ \pi^+\ \overline{\nu}_\tau$
Bishai 98

$2K_S\ \overline{\nu}_\tau$ hadron$^+$
Heltsley 95
Smith 94

$K_S\ K_L\ \nu_\tau$ hadron$^+$
Cavallo 97
Evans 97

$2K^0\ \pi^+\ \overline{\nu}_\tau$
Acciarri 95I

$K^+\ \overline{K}^0\ \pi^0\ \overline{\nu}_\tau$
Barate 99E
Barate 99F
Barate 98H
Ackerstaff 97ZE
Barate 97ZF
Biasini 97
Camoana 97
Evans 97
Buskulic 95O
Heltsley 95
Urheim 94

$K^0\ \overline{K}^0\ \pi^+\ \overline{\nu}_\tau$
Barate 98H
Ackerstaff 97ZE
Biasini 97
Evans 97
Urheim 94

$K^+\ K^-\ \pi^+\ \overline{\nu}_\tau$
Barate 99E
Barate 98H
Richichi 98
Avery 97
Barate 97K
Camoana 97
Cavallo 97
Evans 97
Kass 97
Balest 95
Heltsley 95

$K^+\ K_S\ \pi^0\ \overline{\nu}_\tau$
Coan 96
Park 95B
Smith 94

$2K_S\ \pi^+\ \overline{\nu}_\tau$
Barate 99E
Barate 97ZF
Evans 97
Towers 97
Coan 96

$K_S\ K_L\ \pi^+\ \overline{\nu}_\tau$
Barate 99E
Barate 97ZF

$K^+\ K\ K^-\ \overline{\nu}_\tau$
Barate 97K

$2K^+\ K^-\ \overline{\nu}_\tau$
Barate 99E
Avery 97
Camoana 97
Evans 97

$K^+\ 2K_S\ \overline{\nu}_\tau$
Coan 96

τ^+

$e^- \; 2e^+ \; \overline{\nu}_\tau \; \nu_e$
Alam 95
$\mu^+ \; e^- \; e^+ \; \overline{\nu}_\tau \; \nu_\mu$
Alam 95
$\pi^0 \; \overline{\nu}_\tau$ 2charged$^+$ charged$^-$
Urheim 94
$\pi^0 \; \overline{\nu}_\tau$ 3hadron
Wermes 94
$\pi^0 \; \overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Richichi 98
Akers 95O
Buskulic 95O
Girone 95
Heltsley 95
Weinstein 95
Duflot 94
Ford 94
Golutvin 94
Gomezycadena 94
$\pi^0 \; \overline{\nu}_\tau$ 3charged-hadron
Albrecht 94K
$3\pi^0 \; \overline{\nu}_\tau$ hadron$^+$
Buskulic 95O
Heltsley 95
Duflot 94
Gomezycadena 94
$\pi^+ \; 3\pi^0 \; \overline{\nu}_\tau$
Ackerstaff 98T
Barate 98H
Alemany 97
Barate 97E
Evans 97
Gentile 95
$2\pi^+ \; \pi^0 \; \pi^- \; \overline{\nu}_\tau$
Ackerstaff 98T
Barate 98H
Alemany 97
Barate 97E
Evans 97
Albrecht 95
Balest 95
Bourdon 95
Hocker 94
$\eta \; \pi^+ \; 2\pi^0 \; \overline{\nu}_\tau$
Barate 98H
Anderson 97B
Bergfeld 97
$\eta \; 2\pi^+ \; \pi^- \; \overline{\nu}_\tau$
Barate 98H
Anderson 97B
Bergfeld 97
$\omega \; \pi^+ \; 2\pi^0 \; \overline{\nu}_\tau$
Anderson 97B
$\overline{K}^0 \; \overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Barate 97ZF
$K^+ \; \pi^+ \; \pi^0 \; \overline{\nu}_\tau$ hadron$^-$
Richichi 98
$K^+ \; 3\pi^0 \; \overline{\nu}_\tau + \pi^+ \; 3\pi^0 \; \overline{\nu}_\tau$
Acciarri 95
$K^+ \; 3\pi^0 \; \overline{\nu}_\tau$
Barate 99E
Barate 99F
Gentile 95
$K^+ \; \pi^+ \; \pi^0 \; \pi^- \; \overline{\nu}_\tau$
Barate 99E
Barate 97K
Camoana 97
Evans 97
$K^0 \; \pi^+ \; 2\pi^0 \; \overline{\nu}_\tau$
Barate 99E
Barate 99F
Barate 97ZF
$K^+ \; \overline{K}^0 \; 2\pi^0 \; \overline{\nu}_\tau$
Barate 99E
Barate 99F
Barate 97ZF
$K^+ \; K^- \; \pi^+ \; \pi^0 \; \overline{\nu}_\tau$
Barate 99E
Richichi 98
Barate 97K
Camoana 97
Evans 97
Balest 95

τ^+

$2K_S \; \pi^+ \; \pi^0 \; \overline{\nu}_\tau$
Barate 99E
Barate 97ZF
$K_S \; K_L \; \pi^+ \; \pi^0 \; \overline{\nu}_\tau$
Barate 97ZF
$2K_L \; \pi^+ \; \pi^0 \; \overline{\nu}_\tau$
Barate 99E
$\overline{\nu}_\tau$ 3hadron$^+$ 2hadron$^-$
Buskulic 95O
Girone 95
Heltsley 95
Ford 94
$2\pi^0 \; \overline{\nu}_\tau$ 3hadron
Wermes 94
$2\pi^0 \; \overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Girone 95
Heltsley 95
Duflot 94
Golutvin 94
Gomezycadena 94
$4\pi^0 \; \overline{\nu}_\tau$ hadron$^+$
Buskulic 95O
Heltsley 95
Duflot 94
Gomezycadena 94
$\pi^+ \; 4\pi^0 \; \overline{\nu}_\tau$
Barate 98H
$2\pi^+ \; 2\pi^0 \; \pi^- \; \overline{\nu}_\tau$
Ackerstaff 98T
Ammar 98
Barate 98H
Rouge 95
$3\pi^+ \; 2\pi^- \; \overline{\nu}_\tau$
Ackerstaff 98H
Ammar 98
Barate 98H
Evans 97
Passalacqua 97
Buskulic 95B
Cerutti 95
Rouge 95
Akers 94O
Ford 94
Posthaus 94
Urheim 94
$\eta \; 2\pi^+ \; \pi^0 \; \pi^- \; \overline{\nu}_\tau$
Evans 97
Shelkov 97
$\pi^0 \; \overline{\nu}_\tau$ 3hadron$^+$ 2hadron$^-$
Ackerstaff 98Q
Buskulic 95O
Girone 95
Heltsley 95
Ford 94
$3\pi^0 \; \overline{\nu}_\tau$ 2hadron$^+$ hadron$^-$
Buskulic 95O
$3\pi^+ \; 2\pi^- \; \overline{\nu}_\tau$ neutral
Urheim 94
$\pi^+ \; 5\pi^0 \; \overline{\nu}_\tau$
Barate 98H
$2\pi^+ \; 3\pi^0 \; \pi^- \; \overline{\nu}_\tau$
Barate 98H
Alemany 97
Anderson 97B
Barate 97E
Evans 97
$3\pi^+ \; \pi^0 \; 2\pi^- \; \overline{\nu}_\tau$
Barate 98H
Alemany 97
Barate 97E
Evans 97
Buskulic 95B
Cerutti 95
Rouge 95
Ford 94
Posthaus 94
Urheim 94
$3\pi^+ \; 2\pi^0 \; 2\pi^- \; \overline{\nu}_\tau$
Ford 94
$4\pi^+ \; 3\pi^- \; \overline{\nu}_\tau$
Edwards 97B
$4\pi^+ \; \pi^0 \; 3\pi^- \; \overline{\nu}_\tau$
Edwards 97B

heavy-ν

Assamagan 98
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
Stichelbaut 96
Gallas 95
$e^- \; W^+$
Abachi 95X
$e^+ \; W^-$
Abachi 95X
$\mu^- \; W^+$
Abachi 95X
$\mu^+ \; W^-$
Abachi 95X
$\tau^- \; W^+$
Abachi 95X
$\tau^+ \; W^-$
Abachi 95X
$e^- \; e^+ \; \nu$
Abachi 95K
Eno 95
Hagner 95
$\mu^- \; \mu^+ \; \nu_\mu$
Vilain 95
$e^- \; q \; \overline{q}$
Gallas 96
Abachi 95ZN

heavy-$\overline{\nu}$

Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$e^- \; e^+ \; \overline{\nu}$
Abachi 95K
Eno 95
$e^+ \; q \; \overline{q}$
Gallas 96
Abachi 95ZN

heavy-ν_e

Daszewski 95
Hindi 94
$e^- \; W_R^+$
Brummer 96

heavy-$\overline{\nu}_e$

Bahran 95
Bowler 95
Bowler 94
$e^+ \; W_R^-$
Brummer 96

heavy-lepton^0

Ackerstaff 97Q
$\ell^- \; W^+$
Stichelbaut 96
$\ell^+ \; W^-$
Stichelbaut 96
$e^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$e^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\mu^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\mu^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E

heavy-lepton^0

Alexander 96O
Buskulic 96Z
$\tau^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\tau^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
ν 2jet
Abreu 96ZB

heavy-lepton^0

Ackerstaff 97Q
$\ell^- \; W^+$
Stichelbaut 96
$\ell^+ \; W^-$
Stichelbaut 96
$e^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$e^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\mu^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\mu^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\tau^- \; W^+$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\tau^+ \; W^-$
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
$\overline{\nu}$ 2jet
Abreu 96ZB

heavy-lepton$^-$

$\nu \; W^-$
Acciarri 97L
Acciarri 96F
Alexander 96O
Buskulic 96Z
$\nu_e \; W^-$
Ackerstaff 96E
$\nu_\mu \; W^-$
Ackerstaff 96E
$\nu_\tau \; W^-$
Ackerstaff 96E
heavy-ν W^-
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z
Stichelbaut 96

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

heavy-lepton$^+$

ν W^+
Stichelbaut 96
$\overline{\nu}$ W^+
Acciarri 97L
Acciarri 96F
Alexander 96O
Buskulic 96Z
$\overline{\nu}_e$ W^+
Ackerstaff 96E
$\overline{\nu}_\mu$ W^+
Ackerstaff 96E
$\overline{\nu}_\tau$ W^+
Ackerstaff 96E
heavy-$\overline{\nu}$ W^+
Acciarri 97L
Acciarri 96F
Ackerstaff 96E
Alexander 96O
Buskulic 96Z

q

Abreu 99
Abreu 99J
Acciarri 99
Barate 99B
Barate 99C
Barate 99D
Abbiendi 98C
Abbiendi 98M
Abbiendi 98R
Abbott 98
Abbott 98R
Abe 98K
Abe 98Q
Abreu 98V
Acciarri 98F
Acciarri 98J
Acciarri 98ZD
Ackerstaff 98G
Ackerstaff 98R
Barate 98C
Barate 98L
Barate 98S
Grossopilche 98
Sopczak 98
Abbott 97J
Abe 97X
Abe 97Y
Abreu 97Q
Abreu 97R
Acciarri 97L
Acciarri 97N
Acciarri 97U
Ackerstaff 97T
Ackerstaff 97W
Ackerstaff 97ZG
Barate 97ZD
Barate 97ZE
Breitweg 97N
Roney 97
Abe 96Q
Abe 96ZG
Abreu 96G
Abreu 96M
Abreu 96X
Acciarri 96B
Acciarri 96F
Acciarri 96G
Ackerstaff 96F
Ackerstaff 96K
Aid 96F
Aid 96G
Alexander 96B
Alexander 96O
Alexander 96W
Barnett 96
Brummer 96B
Buskulic 96D
Buskulic 96G
Buskulic 96I
Buskulic 96L
Buskulic 96M
Buskulic 96N
Buskulic 96T

q

Conway 96
Derrick 96H
Gallas 96
Gerdes 96
Ghosh 96B
Kamon 96
Kobel 96
Stichelbaut 96
Abachi 95Z
Abachi 95ZN
Abe 95B
Abe 95V
Acciarri 95E
Aid 95J
Akers 95
Akers 95H
Akers 95K
Behnke 95
Buskulic 95D
Buskulic 95W
Harris 95
Harris 95B
Hoftun 95
Abe 94I
Abe 94ZD
Abreu 94P
Ahmed 94
Akers 94Q
Barreiro 94
Brisson 94B
Buskulic 94I
Demin 94
Derrick 94G
Feltesse 94
Greenshaw 94
Hagopian 94
Harnew 94
Jakobs 94
Kiesling 94
Norman 94
Park 94B
Stuart 94
White 94
Abachi 93B
Adam 93
Krasny 93B
charged X
Abbiendi 98L
Abreu 98E
Ackerstaff 98J
Abreu 97N
Alam 97
Moutoussi 96
Buskulic 95Q
Buskulic 95X
mult[charged-hadron] (neutrals)
Alexander 96X
(jets) jet
Alexander 96
hadron X
Abreu 99C
Barate 98E
hadron$^+$ X
Adloff 97E
Aid 95E
hadron$^-$ X
Adloff 97E
Aid 95E
hadron (hadrons)
Ackerstaff 97R
charged-hadron X
Abreu 97K
Abreu 96Y
Wilson 96
Padilla 95
$\pi^\pm$ X
Barate 97ZC
π^+ X
Abreu 98O
π^- X
Abreu 98O
$K^\pm$ X
Barate 97ZC

q

K^+ X
Abreu 98O
Abreu 96ZC
K^- X
Abreu 98O
Abreu 96ZC
K_S X
Ackerstaff 98J
Abreu 96ZC
p X
Abreu 98O
Barate 97ZC
Abreu 96ZC
$\overline{p}$ X
Abreu 98O
Barate 97ZC
Abreu 96ZC
Λ X
Ackerstaff 98J
Abreu 96ZC
$\overline{\Lambda}$ X
Abreu 96ZC
jet < charged X >
Acciarri 97G
jet < hadron (hadrons) >
Akers 94D
f_0(980) (hadrons) X
Ackerstaff 98B
f_2(1270) (hadrons) X
Ackerstaff 98B
jet < K_S X >
Acciarri 97G
ϕ(1020) (hadrons) X
Ackerstaff 98B
jet < Λ X >
Acciarri 97G
jet < $\overline{\Lambda}$ X >
Acciarri 97G
jet
Adachi 99
Breitweg 98D
Grossopilche 98
Abbott 97D
Abreu 97O
Acciarri 97S
Abachi 96O
Abachi 96P
Abreu 96K
Abreu 96ZC
Aid 96E
Alexander 96H
Alexander 96V
Alexander 96X
Alexander 96Y
Barbarogalti 96
Brummer 96
Brummer 96B
Buskulic 96K
Chiarelli 96
Leone 96
Maeshima 96
Abe 95ZH
Akers 95M
Alexander 95D
Buskulic 95G
Markiewicz 95
Syed 95
Abe 94L
$\overline{B}$ jet
Abreu 96B
Buskulic 95R
Marti 95
Ward 95

$\overline{q}$

Abreu 99
Abreu 99J
Acciarri 99
Barate 99B
Barate 99C
Barate 99D
Abbiendi 98C
Abbiendi 98M
Abbiendi 98R

$\overline{q}$

Abbott 98
Abbott 98R
Abe 98K
Abe 98Q
Abreu 98V
Acciarri 98F
Acciarri 98J
Acciarri 98ZD
Ackerstaff 98G
Ackerstaff 98R
Barate 98C
Barate 98L
Barate 98S
Grossopilche 98
Sopczak 98
Abbott 97J
Abe 97X
Abe 97Y
Abreu 97Q
Abreu 97R
Acciarri 97L
Acciarri 97N
Acciarri 97U
Ackerstaff 97T
Ackerstaff 97W
Ackerstaff 97ZG
Barate 97ZD
Barate 97ZE
Roney 97
Abe 96Q
Abe 96ZG
Abreu 96G
Abreu 96M
Abreu 96X
Acciarri 96B
Acciarri 96F
Acciarri 96G
Ackerstaff 96F
Ackerstaff 96K
Aid 96F
Aid 96G
Alexander 96B
Alexander 96O
Alexander 96W
Alexander 96X
Barnett 96
Brummer 96B
Buskulic 96D
Buskulic 96G
Buskulic 96I
Buskulic 96L
Buskulic 96M
Buskulic 96N
Buskulic 96T
Conway 96
Gallas 96
Gerdes 96
Kamon 96
Kobel 96
Stichelbaut 96
Abachi 95Z
Abachi 95ZN
Abe 95V
Acciarri 95E
Akers 95
Akers 95H
Akers 95K
Behnke 95
Buskulic 95D
Buskulic 95W
Harris 95B
Padilla 95
Abe 94I
Abreu 94P
Ahmed 94
Akers 94Q
Buskulic 94I
Demin 94
Hagopian 94
Jakobs 94
Stuart 94
Adam 93
charged X
Abbiendi 98L

$\overline{q}$ — s

$\overline{q}$

Abreu 98E
Ackerstaff 98J
Abreu 97N
Alam 97
Moutoussi 96
Buskulic 95Q
Buskulic 95X

(jets) jet
Alexander 96

hadron X
Abreu 99C
Barate 98E

hadron$^+$ X
Adloff 97E
Aid 95E

hadron$^-$ X
Adloff 97E
Aid 95E

hadron (hadrons)
Ackerstaff 97R

charged-hadron X
Abreu 96Y
Wilson 96

$\pi^\pm$ X
Barate 97ZC

π^+ X
Abreu 98O

π^- X
Abreu 98O

$K^\pm$ X
Barate 97ZC

K^+ X
Abreu 98O
Abreu 96ZC

K^- X
Abreu 98O
Abreu 96ZC

K_S X
Ackerstaff 98J
Abreu 96ZC

p X
Abreu 98O
Barate 97ZC
Abreu 96ZC

$\overline{p}$ X
Abreu 98O
Barate 97ZC
Abreu 96ZC

Λ X
Ackerstaff 98J
Abreu 96ZC

$\overline{\Lambda}$ X
Abreu 96ZC

jet < charged X >
Acciarri 97G

jet < K_S X >
Acciarri 97G

jet < Λ X >
Acciarri 97G

jet < $\overline{\Lambda}$ X >
Acciarri 97G

jet
Adachi 99
Grossopilche 98
Abbott 97D
Abreu 97O
Acciarri 97S
Abachi 96O
Abachi 96P
Abreu 96B
Abreu 96K
Abreu 96ZC
Alexander 96H
Alexander 96V
Alexander 96Y
Brummer 96
Buskulic 96K
Chiarelli 96
Leone 96
Maeshima 96
Abe 95ZH
Akers 95M
Buskulic 95G
Buskulic 95R
Markiewicz 95

$\overline{q}$

Marti 95
Syed 95
Ward 95
Abe 94L

u

Abe 98K
Abe 97Y
Ackerstaff 97K
Barate 97ZC
Abe 96K
Karlsson 96
Lecompte 96
Harris 95B

charged X
Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X
Abreu 96Y

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L
Abreu 98O

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

p X
Abe 98L
Abreu 98O

$\overline{p}$ X
Abe 98L
Abreu 98O

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L

jet
Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet
Strohmer 94

μ^+ jet
Strohmer 94

π^+ jet
Strohmer 94

$\overline{u}$

Abe 98K
Abe 97Y
Ackerstaff 97K
Barate 97ZC
Abe 96K
Karlsson 96
Lecompte 96
Harris 95B

charged X
Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X
Abreu 96Y

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L
Abreu 98O

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

p X
Abe 98L
Abreu 98O

$\overline{p}$ X
Abe 98L
Abreu 98O

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L

jet
Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet
Strohmer 94

μ^+ jet
Strohmer 94

π^- jet
Strohmer 94

d

Abe 98K
Ackerstaff 97K
Barate 97ZC
Abe 96K
Karlsson 96
Harris 95B

charged X
Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X
Abreu 96Y

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L
Abreu 98O

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

p X
Abe 98L
Abreu 98O

n X
Abreu 95V

$\overline{p}$ X
Abe 98L
Abreu 98O

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L

d

jet
Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet
Strohmer 94

μ^+ jet
Strohmer 94

π^- jet
Strohmer 94

$\overline{d}$

Abe 98K
Ackerstaff 97K
Barate 97ZC
Abe 96K
Karlsson 96
Abreu 95V
Harris 95B

charged X
Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X
Abreu 96Y

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L
Abreu 98O

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

p X
Abe 98L
Abreu 98O

$\overline{p}$ X
Abe 98L
Abreu 98O

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L

jet
Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet
Strohmer 94

μ^+ jet
Strohmer 94

π^+ jet
Strohmer 94

s

Abbott 99
Abbott 99C
Barate 99
Abbott 98B
Abe 98K
Abreu 98K
Acciarri 98U
Barate 98B
Klima 98
Abreu 97L
Abreu 97P
Ackerstaff 97K
Barate 97U
Barate 97ZC

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

s

Glenn 97
Abachi 96I
Abe 96K
Alexander 96ZB
Karlsson 96
Abreu 94L
Alam 94B
Albrecht 94U
Kuno 94

charged X

Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X

Abreu 96Y

π^+ X

Abe 98L
Abreu 98O

π^- X

Abe 98L
Abreu 98O

$K^\pm$ X

Abreu 95V

K^+ X

Abe 98L
Abreu 98O

K^0 X

Abe 98L

$\overline{K}^0$ X

Abe 98L

K^- X

Abe 98L
Abreu 98O

K_L X

Abreu 95V

$K^*(892)^0$ X

Abe 98L

$\overline{K}^*(892)^0$ X

Abe 98L

$\phi(1020)$ X

Abe 98L

p X

Abe 98L
Abreu 98O

$\overline{p}$ X

Abe 98L
Abreu 98O

Λ X

Abe 98L
Abreu 95V

$\overline{\Lambda}$ X

Abe 98L

jet

Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet

Strohmer 94

μ^+ jet

Strohmer 94

K^- jet

Strohmer 94

$\bar{s}$

Abbott 99
Abbott 99C
Barate 99
Abbott 98B
Abe 98K
Abreu 98K
Acciarri 98U
Barate 98B
Klima 98
Abreu 97L
Abreu 97P
Ackerstaff 97K
Barate 97U
Barate 97ZC
Glenn 97
Abachi 96I
Abe 96K
Alexander 96ZB
Karlsson 96
Abreu 95V

$\bar{s}$

Abreu 94L
Alam 94B

charged X

Abbiendi 99C
Ackerstaff 98P
Abe 96Y

charged-hadron X

Abreu 96Y

π^+ X

Abe 98L
Abreu 98O

π^- X

Abe 98L
Abreu 98O

K^+ X

Abe 98L
Abreu 98O

K^0 X

Abe 98L

$\overline{K}^0$ X

Abe 98L

K^- X

Abe 98L
Abreu 98O

$K^*(892)^0$ X

Abe 98L

$\overline{K}^*(892)^0$ X

Abe 98L

$\phi(1020)$ X

Abe 98L

p X

Abe 98L
Abreu 98O

$\overline{p}$ X

Abe 98L
Abreu 98O

Λ X

Abe 98L

$\overline{\Lambda}$ X

Abe 98L

jet

Abe 95ZP
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet

Strohmer 94

μ^+ jet

Strohmer 94

K^+ jet

Strohmer 94

c

Abbott 99
Abbott 99C
Abreu 99
Abreu 99D
Abreu 99H
Barate 99
Barate 99D
Abe 98K
Abreu 98J
Abreu 98K
Acciarri 98T
Acciarri 98U
Acciarri 98ZF
Ackerstaff 98U
Barate 98D
Barate 98K
Klima 98
Tokushuku 98
Abe 97Y
Abreu 97L
Abreu 97P
Ackerstaff 97ZC
Ardashev 97
Barate 97U
Abachi 96P
Ackerstaff 96B
Aid 96D
Alexander 96Y
Alexander 96ZB
Buskulic 96M
Buskulic 96N
Buskulic 96T

c

Eisenberg 96
Halling 96
Karlsson 96
Lecompte 96
Ludovici 96
Su 96
Abe 95ZQ
Abreu 95B
Akers 95K
Bargende 95
Behnke 95
Buskulic 95J
Derrick 95
Garbincius 95
Abreu 94L
Abreu 94S
Akers 94J
Buskulic 94D
Lourenco 94
Shirai 94
Buskulic 93P
Lourenco 93

ℓ^+ X

Abbiendi 98F

e^+ X

Abbiendi 98F

μ^+ X

Abbiendi 98F
Karlsson 96
Bazarko 95

charged X

Ackerstaff 98P
Abe 96Y
Kobel 96
Akers 95I
Buskulic 95X

hadron X

Liu 93

charged-hadron X

Abreu 96Y

$\pi^\pm$ X

Barate 97ZC

π^+ X

Abe 98L

π^- X

Abe 98L

$K^\pm$ X

Barate 97ZC

K^+ X

Abe 98L

K^0 X

Abe 98L

$\overline{K}^0$ X

Abe 98L

K^- X

Abe 98L

$K^*(892)^0$ X

Abe 98L

$\overline{K}^*(892)^0$ X

Abe 98L

$\phi(1020)$ X

Abe 98L

charm X

Abe 94V
Nakano 94

D^+ X

Alexander 96Q
Alexander 96S
Kobel 96
Behnke 95
King 94
Abreu 93G

D^0 X

Ackerstaff 98D
Alexander 96Q
Alexander 96S
Kobel 96
Behnke 95
Abreu 93G

$D^*(2010)^\pm$ X

Akers 94S

$D^*(2010)^+$ X

Abbiendi 98F
Ackerstaff 97O
Alexander 96S
Nodulman 96

c

Abreu 95S
King 94
Sakuda 93

$D^*(2007)^0$ X

Ackerstaff 98D

D_s^+ X

Alexander 96Q
Kobel 96
Buskulic 95I

$D_1(2420)^0$ X

Ackerstaff 97Y

$D_2^*(2460)^0$ X

Ackerstaff 97Y

$D_{s1}(2536)^+$ X

Ackerstaff 97Y

p X

Abe 98L
Barate 97ZC

$\overline{p}$ X

Abe 98L
Barate 97ZC

Λ X

Abe 98L

$\overline{\Lambda}$ X

Abe 98L

Λ_c^+ X

Alexander 96Q
Kobel 96

$\mu^+ \nu_\mu$ hadron (hadrons)

Liu 93

jet

Abreu 97J
Abachi 95ZP
Abachi 95ZQ
Abe 95ZP
Buskulic 95G
Markiewicz 95
Abe 94ZB
Strohmer 94

e^+ jet

Alexander 95H

μ^+ jet

Alexander 95H
Strohmer 94

$D^*(2010)^+$ jet

Strohmer 94

$\bar{c}$

Abbott 99
Abbott 99C
Abreu 99
Abreu 99D
Abreu 99H
Barate 99
Barate 99D
Abe 98K
Abreu 98J
Abreu 98K
Acciarri 98T
Acciarri 98U
Acciarri 98ZF
Ackerstaff 98U
Barate 98D
Barate 98K
Klima 98
Tokushuku 98
Abe 97Y
Abreu 97L
Abreu 97P
Ackerstaff 97ZC
Ardashev 97
Barate 97U
Abachi 96P
Ackerstaff 96B
Aid 96D
Alexander 96Y
Alexander 96ZB
Buskulic 96M
Buskulic 96N
Buskulic 96T
Eisenberg 96
Halling 96
Karlsson 96

$\bar{c}$

Lecompte 96
Ludovici 96
Su 96
Abe 95ZQ
Akers 95K
Alexander 95H
Bargende 95
Behnke 95
Buskulic 95J
Derrick 95
Garbincius 95
Abreu 94L
Abreu 94S
Akers 94S
Buskulic 94D
Lourenco 94
Abreu 93G
Buskulic 93P
Lourenco 93

ℓ^- X
Abbiendi 98F

e^- X
Abbiendi 98F

μ^- X
Abbiendi 98F
Karlsson 96

charged X
Ackerstaff 98P
Abe 96Y
Kobel 96
Akers 95I
Buskulic 95X

hadron X
Liu 93

charged-hadron X
Abreu 96Y

$\pi^\pm$ X
Barate 97ZC

π^+ X
Abe 98L

π^- X
Abe 98L

$K^\pm$ X
Barate 97ZC

K^+ X
Abe 98L

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

$\overline{\text{charm}}$ X
Abe 94V
Nakano 94

$\overline{D}^0$ X
Ackerstaff 98D
Alexander 96Q
Alexander 96S
Kobel 96

D^- X
Alexander 96Q
Alexander 96S
Kobel 96
King 94

$D^*(2010)^-$ X
Abbiendi 98F
Ackerstaff 97O
Alexander 96S
Nodulman 96
Abreu 95S
King 94
Sakuda 93

$\overline{D}^*(2007)^0$ X
Ackerstaff 98D

D_s^- X
Alexander 96Q
Kobel 96
Buskulic 95I

$\bar{c}$

$\overline{D}_1(2420)^0$ X
Ackerstaff 97Y

$\overline{D}_2^*(2460)^0$ X
Ackerstaff 97Y

$D_{s1}(2536)^-$ X
Ackerstaff 97Y

p X
Abe 98L
Barate 97ZC

$\bar{p}$ X
Abe 98L
Barate 97ZC

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L

$\overline{\Lambda}_c^-$ X
Alexander 96Q
Kobel 96

$\mu^-\ \bar{\nu}_\mu$ hadron (hadrons)
Liu 93

jet
Abreu 97J
Abachi 95ZP
Abachi 95ZQ
Abe 95ZP
Buskulic 95G
Markiewicz 95
Abe 94ZB
Strohmer 94

μ^- jet
Strohmer 94

$D^*(2010)^-$ jet
Strohmer 94

b

Abbiendi 99D
Abbott 99
Abbott 99B
Abe 99C
Abreu 99
Abreu 99D
Abreu 99E
Abreu 99H
Barate 99D
Abbiendi 98
Abbiendi 98K
Abbiendi 98R
Abbott 98
Abbott 98F
Abbott 98N
Abbott 98R
Abe 98H
Abe 98J
Abe 98K
Abe 98S
Abe 98T
Abe 98U
Abe 98ZB
Abreu 98L
Abreu 98M
Acciarri 98J
Acciarri 98Y
Acciarri 98ZF
Ackerstaff 98G
Ackerstaff 98U
Barate 98F
Barate 98L
Barate 98R
Barate 98S
Dorigo 98
Hoffmann 98
Abbott 97
Abe 97
Abe 97K
Abe 97O
Abe 97R
Abe 97ZB
Abe 97ZJ
Abreu 97F
Abreu 97L
Ackerstaff 97U
Ackerstaff 97V

b

Ackerstaff 97ZC
Conway 97
Swain 97
Abachi 96U
Abe 96ZD
Abreu 96U
Ackerstaff 96B
Buskulic 96T
Etzion 96
Gallas 96
Loomis 96
Loomis 96B
Ludovici 96
Protopopescu 96
Slaughter 96
Stichelbaut 96
Su 96
Abe 95J
Abe 95Q
Abreu 95X
Akers 95C
Buskulic 95J
Buskulic 95V
Harris 95B
Abe 94ZC
Abreu 94R
Abreu 94S
Acciarri 94D
Akers 94H
Akers 94Q
Carr 94
Jakobs 94
Jesik 94
Akers 93F
Buskulic 93P

ℓ^- X
Karlsson 96

$\bar{\nu}$ X
Acciarri 96H

e^- X
Bauer 96
Behnke 95
Grassmann 95
Abe 94Z

$\mu^\pm$ X
Karlsson 96

μ^- X
Abachi 96L
Baarmand 96
Ueno 96
Abachi 95G
Abe 95
Behnke 95
Grassmann 95
Abe 94Z
Leone 94

charged X
Ackerstaff 98P
Abe 96Y
Kobel 96
Akers 95I
Behnke 95
Buskulic 95X
Akers 93H

jet X
Derwent 94

hadron X
Behnke 95
Liu 93

hadron (hadrons)
Abbiendi 98O
Abe 97J
Beretvas 95C

charged-hadron X
Abreu 96Y
Padilla 95

ℓ X
Karlsson 96
Abreu 95B
Behnke 95

u X
Abe 96K

d X
Abe 96K

b

s X
Abe 96K

c X
Behnke 95

$\pi^\pm$ X
Barate 97ZC

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L
Abreu 98O

$K^\pm$ X
Barate 97ZC

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

D^+ X
Alexander 96Q
Buskulic 96O
Kobel 96
Behnke 95
Abreu 93G

D^0 X
Alexander 96Q
Buskulic 96O
Kobel 96
Behnke 95
Abreu 93G

$D^*(2010)^\pm$ X
Akers 94S

$D^*(2010)^+$ X
Ackerstaff 97O

D_s^+ X
Alexander 96Q
Buskulic 96O
Kobel 96

D_s^- X
Abe 99D

$D_1(2420)^0$ X
Ackerstaff 97Y

$D_2^*(2460)^0$ X
Ackerstaff 97Y

$J/\psi(1S)$ X
Acciarri 97F
Baarmand 96
Tkaczyk 96
Behnke 95
Abreu 94M

$\chi_{c1}(1P)$ X
Acciarri 97F

$\chi_{c2}(1P)$ X + $\chi_{c1}(1P)$ X
Abreu 94M

$\psi(2S)$ X
Acciarri 97F
Tkaczyk 96
Abreu 94M

bottom X
Abreu 96P
Buskulic 96Q
Abe 95ZR
Abe 94U
Abe 94V
Manly 94
Nakano 94
Williams 94

B X
Barate 97ZC
Ackerstaff 96M
Ackerstaff 96O
Abreu 95S

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

b

Akers 95F
Akers 95X
$\overline{B}$ X
Bauer 96
Buskulic 94L
King 94
$\overline{B}^0$ X
Jones 94B
B^- X
Abe 99D
Jones 94B
$B_J^*(5732)$ X
Ackerstaff 97Y
Goy 96
$\overline{B}_s$ X + D_s^+ X
Abreu 94
$\overline{B}_s$ X
Buskulic 95I
Jones 94B
B_s^* X
Ackerstaff 97Y
p X
Abe 98L
Abreu 98O
Barate 97ZC
$\overline{p}$ X
Abe 98L
Abreu 98O
Barate 97ZC
Λ X
Abe 98L
Ackerstaff 96M
$\overline{\Lambda}$ X
Abe 98L
Λ_c^+ X
Alexander 96Q
Buskulic 96O
Kobel 96
Λ_b X
Barate 97R
Barate 97ZC
Abe 96K
Abreu 95M
Akers 95W
Jones 94B
Λ_b(unspec) X
Abbiendi 98H
Abreu 96N
Ackerstaff 96M
Σ_b^- X
Barate 97R
Ξ_b^0 X
Abreu 95N
Ξ_b^- X
Abreu 95N
$e^- \overline{\nu}_e$ X
Acciarri 96H
Behnke 95
Buskulic 94D
μ^- jet X
Baarmand 96
$\mu^- \overline{\nu}_\mu$ X
Acciarri 96H
Behnke 95
Buskulic 94D
Derwent 94
$\nu_\tau \tau^\pm$ X
Kuno 94
$\tau^- \nu_\tau$ X
Acciarri 94C
$\tau^- \overline{\nu}_\tau$ X
Acciarri 96H
Buskulic 95
$D_J(2440)^+ \ell^-$ X
Kobel 96
$D_J(2440)^0 \ell^-$ X
Kobel 96
$D_2^*(2460)^+ \ell^-$ X
Kobel 96
$D_2^*(2460)^0 \ell^-$ X
Kobel 96

b

hadron (hadrons) X
Ackerstaff 96I
Grassmann 95
Abe 94Z
jet < hadron (hadrons) >
Barate 97F
Karlsson 96
$B \gamma$ X
Goy 96
$B \pi^\pm$ X
Goy 96
$\pi^\pm B^*$ X
Goy 96
$e^- \overline{\nu}$ hadron (hadrons)
Abbiendi 98O
$\mu^- \overline{\nu}$ hadron (hadrons)
Abbiendi 98O
$\mu^- \overline{\nu}_\mu$ hadron (hadrons)
Liu 93
$c < \ell$ X > X
Abreu 95B
D^+ charged (chargeds) X
Alexander 96S
D^0 charged (chargeds) X
Alexander 96S
$D^*(2010)^+$ charged (chargeds)X
Alexander 96S
$c < e^+ \nu_e$ X > X
Buskulic 94D
$c < \mu^+ \nu_\mu$ X > X
Buskulic 94D
jet < ($e^\pm$'s) ($\mu^\pm$'s) hadron (hadrons) >
Barate 97G
jet
Abe 98ZE
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abe 97ZC
Abreu 97J
Abreu 97O
Ackerstaff 97C
Barate 97O
Abachi 96F
Abachi 96K
Abe 96
Abreu 96B
Acciarri 96H
Ackerstaff 96N
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Buskulic 96E
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G

b

Abe 95
Abe 95ZP
Alexander 95D
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Buskulic 95G
Buskulic 95R
Demortier 95
Grassmann 95B
Hadley 95
Kim 95C
Klima 95B
Markiewicz 95
Marti 95
Menzione 95
Peryshkin 95
Sinervo 95
Synder 95
Unal 95
Wimpenny 95B
Abe 94B
Abe 94E
Abe 94ZB
Abe 94ZE
Garbincius 94
Konigsberg 94
Leone 94
Strohmer 94
ℓ^- jet
Karlsson 96
Akers 94N
e^- jet
Alexander 95H
μ^- jet
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abachi 96K
Abachi 96Q
Abachi 96R
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Greenlee 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Alexander 95H
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Demortier 95
Hadley 95
Kim 95C
Klima 95B
Menzione 95
Sinervo 95
Synder 95

b

Wimpenny 95B
Strohmer 94
charged-hadron jet
Kruse 96
ℓ jet
Behnke 95
γs
Barate 98B
Alam 94B
Kuno 94
s gluon
Albrecht 94U
B jet
Acciarri 96N
$e^- e^+ s$
Glenn 97
$\mu^- e^+ s$
Glenn 97
$\mu^+ e^- s$
Glenn 97
$\mu^- \mu^+ s$
Abbott 98B
Glenn 97
Abachi 96I

$\bar{b}$

Abbiendi 99D
Abbott 99
Abbott 99B
Abe 99C
Abreu 99
Abreu 99D
Abreu 99E
Abreu 99H
Barate 99D
Abbiendi 98
Abbiendi 98K
Abbiendi 98R
Abbott 98
Abbott 98F
Abbott 98N
Abbott 98R
Abe 98H
Abe 98J
Abe 98K
Abe 98S
Abe 98T
Abe 98U
Abe 98ZB
Abreu 98L
Abreu 98M
Acciarri 98J
Acciarri 98Y
Acciarri 98ZF
Ackerstaff 98G
Ackerstaff 98U
Barate 98F
Barate 98L
Barate 98R
Barate 98S
Dorigo 98
Abbott 97
Abe 97
Abe 97K
Abe 97O
Abe 97R
Abe 97ZB
Abe 97ZJ
Abreu 97F
Abreu 97L
Ackerstaff 97U
Ackerstaff 97V
Ackerstaff 97ZC
Conway 97
Swain 97
Abachi 96U
Abe 96ZD
Abreu 96U
Ackerstaff 96B
Bauer 96
Buskulic 96T
Etzion 96
Gallas 96
Loomis 96

$\bar{b}$

Ludovici 96
Protopopescu 96
Slaughter 96
Stichelbaut 96
Su 96
Abe 95J
Abreu 95B
Abreu 95X
Akers 95C
Alexander 95H
Behnke 95
Buskulic 95J
Harris 95B
Abe 94ZC
Abreu 94
Abreu 94R
Abreu 94S
Acciarri 94C
Acciarri 94D
Akers 94H
Akers 94N
Akers 94Q
Akers 94S
Buskulic 94D
Carr 94
Jakobs 94
Jesik 94
Abreu 93G
Akers 93F
Buskulic 93P

ℓ^- X
Karlsson 96

ν X
Acciarri 96H

e^+ X
Behnke 95
Grassmann 95
Abe 94Z

$\mu^\pm$ X
Karlsson 96

μ^+ X
Abachi 96L
Baarmand 96
Ueno 96
Abachi 95G
Abe 95
Behnke 95
Grassmann 95
Abe 94Z
Leone 94

charged X
Ackerstaff 98P
Abe 96Y
Kobel 96
Akers 95I
Behnke 95
Buskulic 95X
Akers 93H

jet X
Derwent 94

hadron X
Liu 93

hadron (hadrons)
Abbiendi 98O
Abe 97J
Beretvas 95C

charged-hadron X
Abreu 96Y
Padilla 95

ℓ X
Karlsson 96
Behnke 95

$\bar{u}$ X
Abe 96K

$\bar{d}$ X
Abe 96K

$\bar{s}$ X
Abe 96K

$\pi^\pm$ X
Barate 97ZC

π^+ X
Abe 98L
Abreu 98O

π^- X
Abe 98L

$\bar{b}$

Abreu 98O

$K^\pm$ X
Barate 97ZC

K^+ X
Abe 98L
Abreu 98O

K^0 X
Abe 98L

$\overline{K}^0$ X
Abe 98L

K^- X
Abe 98L
Abreu 98O

$K^*(892)^0$ X
Abe 98L

$\overline{K}^*(892)^0$ X
Abe 98L

$\phi(1020)$ X
Abe 98L

$\overline{D}^0$ X
Alexander 96Q
Buskulic 96O
Kobel 96

D^- X
Alexander 96Q
Buskulic 96O
Kobel 96

$D^*(2010)^-$ X
Ackerstaff 97O

D_s^+ X
Abe 99D

D_s^- X
Alexander 96Q
Buskulic 96O
Kobel 96

$\overline{D}_1(2420)^0$ X
Ackerstaff 97Y

$\overline{D}_2^*(2460)^0$ X
Ackerstaff 97Y

$J/\psi(1S)$ X
Acciarri 97F
Baarmand 96
Tkaczyk 96
Abreu 94M

$\chi_{c1}(1P)$ X
Acciarri 97F

$\chi_{c2}(1P)$ X + $\chi_{c1}(1P)$ X
Abreu 94M

$\psi(2S)$ X
Acciarri 97F
Tkaczyk 96
Abreu 94M

$\overline{\text{bottom}}$ X
Abreu 96P
Buskulic 96Q
Abe 95ZR
Abe 94U
Abe 94V
Manly 94
Nakano 94
Williams 94

B X
Buskulic 94L
King 94

B^+ X
Abe 99D
Akers 94R
Jones 94B

B^0 X
Jones 94B

$\overline{B}$ X
Barate 97ZC
Ackerstaff 96M
Ackerstaff 96O
Abreu 95S
Akers 95F
Akers 95X

$\overline{B}_J^*(5732)$ X
Ackerstaff 97Y
Goy 96

B_s X
Buskulic 95I
Jones 94B

$\bar{b}$

$\overline{B}_s^*$ X
Ackerstaff 97Y

$B_{sJ}^*(5850)$ X
Akers 94R

p X
Abe 98L
Abreu 98O
Barate 97ZC

$\bar{p}$ X
Abe 98L
Abreu 98O
Barate 97ZC

Λ X
Abe 98L

$\overline{\Lambda}$ X
Abe 98L
Ackerstaff 96M

$\overline{\Lambda}_c^-$ X
Alexander 96Q
Buskulic 96O
Kobel 96

$\overline{\Lambda}_b$ X
Barate 97R
Barate 97ZC
Abe 96K
Abreu 95M
Akers 95W
Jones 94B

$\overline{\Lambda}_b$(unspec) X
Abbiendi 98H
Abreu 96N
Ackerstaff 96M

Σ_b^+ X
Barate 97R

$\overline{\Xi}_b^+$ X
Abreu 95N

$\overline{\Xi}_b^0$ X
Abreu 95N

$e^+ \nu_e$ X
Acciarri 96H

μ^+ jet X
Baarmand 96

$\mu^+ \nu_\mu$ X
Acciarri 96H
Derwent 94

$\tau^+ \nu_\tau$ X
Acciarri 96H
Buskulic 95

$\overline{D}_J(2440)^0 \ell^+$ X
Kobel 96

$D_J(2440)^- \ell^+$ X
Kobel 96

$\overline{D}_2^*(2460)^0 \ell^+$ X
Kobel 96

$D_2^*(2460)^- \ell^+$ X
Kobel 96

hadron (hadrons) X
Ackerstaff 96I
Grassmann 95
Abe 94Z

jet < hadron (hadrons) >
Barate 97F
Barate 97G
Karlsson 96

$B\gamma$ X
Buskulic 95V

$\overline{B}\gamma$ X
Goy 96

$B\pi^\pm$ X
Buskulic 95V

$\overline{B}\pi^\pm$ X
Goy 96

$\pi^\pm B^*$ X
Buskulic 95V

$\pi^\pm \overline{B}^*$ X
Goy 96

$e^+ \nu$ hadron (hadrons)
Abbiendi 98O

$\mu^+ \nu$ hadron (hadrons)
Abbiendi 98O

$\bar{b}$

$\mu^+ \nu_\mu$ hadron (hadrons)
Liu 93

$\overline{D}^0$ charged (chargeds) X
Alexander 96S

D^- charged (chargeds) X
Alexander 96S

$D^*(2010)^-$ charged (chargeds)X
Alexander 96S

jet < ($e^\pm$'s) ($\mu^\pm$'s) hadron (hadrons) >
Barate 97G

jet
Abe 98ZE
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abe 97ZC
Abreu 97J
Abreu 97O
Ackerstaff 97C
Barate 97O
Abachi 96F
Abachi 96K
Abe 96
Acciarri 96H
Ackerstaff 96N
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Buskulic 96E
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G
Abe 95
Abe 95ZP
Alexander 95D
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Buskulic 95G
Demortier 95
Grassmann 95B
Hadley 95
Kim 95C
Klima 95B
Markiewicz 95
Menzione 95
Peryshkin 95
Sinervo 95
Synder 95
Unal 95
Wimpenny 95B
Abe 94B
Abe 94E
Abe 94ZB
Abe 94ZE

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\bar{b}$

Garbincius 94
Konigsberg 94
Leone 94
Strohmer 94

ℓ^+ jet
Karlsson 96

μ^+ jet
Klima 98
Abachi 97B
Abachi 97C
Abe 97H
Abachi 96K
Abachi 96Q
Abachi 96R
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Greenlee 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96B
Leone 96C
Lys 96
Montgomery 96
Narain 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Demortier 95
Hadley 95
Kim 95C
Klima 95B
Menzione 95
Sinervo 95
Synder 95
Wimpenny 95B
Strohmer 94

charged-hadron jet
Kruse 96

$\gamma\ \bar{s}$
Barate 98B
Alam 94B

B jet
Abreu 96B
Buskulic 95R
Marti 95

$\overline{B}$ jet
Acciarri 96N

$e^-\ e^+\ \bar{s}$
Glenn 97

$\mu^-\ e^+\ \bar{s}$
Glenn 97

$\mu^+\ e^-\ \bar{s}$
Glenn 97

$\mu^-\ \mu^+\ \bar{s}$
Abbott 98B
Glenn 97
Abachi 96I

t

Abreu 98J
Abe 97ZE
Abe 97ZH
Harris 95B

W^+ jet
Abachi 95V

t

Abe 95I
Beretvas 95
Strovink 95
Abachi 94B
Abachi 94D
Sphicas 94

W^- jet
Beretvas 95
Strovink 95
Sphicas 94

$\gamma\ q$
Abe 97Y
Barbarogalti 96

$W^+\ q$
Barbarogalti 96
Chiarelli 96
Gerdes 96
Leone 96

$Z^0\ q$
Abe 97Y
Barbarogalti 96

$\gamma\ c\ +\ \gamma\ u$
Abe 97Y
Lecompte 96

$Z^0\ c\ +\ Z^0\ u$
Abe 97Y
Lecompte 96

$W^+\ b$
Abbott 98
Abe 98ZE
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abe 97H
Abe 97K
Abe 97O
Abe 97ZC
Abe 97ZJ
Conway 97
Swain 97
Abe 96
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Loomis 96
Lys 96
Montgomery 96
Narain 96
Protopopescu 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G
Abe 95
Abe 95J
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Demortier 95
Grassmann 95
Grassmann 95B
Hadley 95

t

Kim 95C
Klima 95B
Menzione 95
Peryshkin 95
Sinervo 95
Synder 95
Unal 95
Wimpenny 95B
Abe 94B
Abe 94Z
Abe 94ZE
Jakobs 94
Konigsberg 94
Leone 94

$b\ H^+$
Abbott 99
Klima 98
Abe 97K
Conway 97
Abe 96
Conway 96
Loomis 96
Loomis 96B
Tartarelli 96
Abe 94E
Jakobs 94

W^+ bottom
Abachi 94B

$e^+\ \nu_e\ b$
Abbott 98N
Abe 98ZB

$\mu^+\ \nu_\mu\ b$
Abbott 98N
Abe 98ZB

$b\ q\ \bar{q}$
Abbott 98R

$\bar{t}$

Abreu 98J
Abe 97ZE
Abe 97ZH
Beretvas 95
Harris 95B
Strovink 95
Sphicas 94

W^+ jet
Abe 95I

W^- jet
Abachi 95V
Abachi 94B
Abachi 94D

$\gamma\ q$
Barbarogalti 96

$\gamma\ \bar{q}$
Abe 97Y

$W^-\ q$
Barbarogalti 96
Chiarelli 96
Leone 96

$W^-\ \bar{q}$
Gerdes 96

$Z^0\ q$
Barbarogalti 96

$Z^0\ \bar{q}$
Abe 97Y

$\gamma\ \bar{c}\ +\ \gamma\ \bar{u}$
Abe 97Y
Lecompte 96

$Z^0\ \bar{c}\ +\ Z^0\ \bar{u}$
Abe 97Y
Lecompte 96

$W^-\ \bar{b}$
Abbott 98
Abe 98ZE
Klima 98
Abachi 97B
Abachi 97C
Abbott 97
Abe 97H
Abe 97K
Abe 97O
Abe 97ZC
Abe 97ZJ
Conway 97

$\bar{t}$

Abe 96
Azzi 96
Bantly 96
Barbarogalti 96
Barnett 96
Bhat 96
Binkley 96
Butler 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Gerdes 96
Giokaris 96
Hall 96
Heinson 96
Kruse 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Loomis 96
Lys 96
Montgomery 96
Narain 96
Protopopescu 96
Rolli 96
Sinervo 96
Strovink 96
Tartarelli 96
Valls 96
Abachi 95G
Abe 95
Abe 95J
Bantly 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Binkley 95
Demortier 95
Grassmann 95
Grassmann 95B
Hadley 95
Kim 95C
Klima 95B
Menzione 95
Peryshkin 95
Sinervo 95
Synder 95
Unal 95
Wimpenny 95B
Abe 94B
Abe 94Z
Abe 94ZE
Jakobs 94
Konigsberg 94
Leone 94

$b\ H^-$
Loomis 96B

$\bar{b}\ H^-$
Abbott 99
Klima 98
Abe 97K
Conway 97
Abe 96
Conway 96
Loomis 96
Tartarelli 96
Abe 94E
Jakobs 94

W^- $\overline{\text{bottom}}$
Abachi 94B

$e^-\ \bar{\nu}_e\ \bar{b}$
Abbott 98N
Abe 98ZB

$\mu^-\ \bar{\nu}_\mu\ \bar{b}$
Abbott 98N
Abe 98ZB

$\bar{b}\ q\ \bar{q}$
Abbott 98R

diquark

2jet
Abe 97D
Harris 95

diquark

Abe 94Y
Abreu 94L
$d\ u$
Harris 95B
$\bar{d}\ \bar{u}$
Harris 95B

b'

$\gamma\ b$
Abachi 96F
Abachi 96Q
Gallas 96
Greenlee 96
$Z^0\ b$
Abe 98J
b gluon
Abachi 96F
Abachi 96Q
Gallas 96
Greenlee 96

$\bar{b}'$

$\gamma\ \bar{b}$
Abachi 96F
Abachi 96Q
Gallas 96
Greenlee 96
$Z^0\ \bar{b}$
Abe 98J
b gluon
Abachi 96Q
Greenlee 96
$\bar{b}$ gluon
Abachi 96F
Gallas 96

neutralino

Abbott 99B
Abreu 99H
Barate 99B
Abbiendi 98P
Acciarri 98ZF
Ackerstaff 98U
Barate 98Q
Breitweg 98D
Hoffmann 98
Abbott 97E
Abbott 97G
Abreu 97M
Acciarri 97K
Acciarri 97X
Ackerstaff 97U
Ackerstaff 97ZC
Barate 97X
Barate 97Y
Abachi 96N
Abachi 96O
Abachi 96P
Abe 96Q
Abreu 96G
Acciarri 96D
Ackerstaff 96B
Ackerstaff 96Q
Aid 96E
Alexander 96W
Alexander 96Y
Buskulic 96M
Gallas 96
Abachi 95F
Abachi 95L
Abachi 95ZO
Abachi 95ZP
Acciarri 95F
Eno 95
Shirai 94
$e^-\ e^+$ neutral (neutrals)
Kamon 94
$\mu^-\ \mu^+$ neutral (neutrals)
Kamon 94
$\tau^-\ \tilde{\tau}^+$
Abreu 98T
$\tau^+\ \tilde{\tau}^-$
Abreu 98T
γ neutralino
Abbiendi 98J

neutralino

Abe 98
Abe 98R
Acciarri 98W
Barate 98I
Ackerstaff 97W
Ackerstaff 97ZD
Abreu 96M
Ackerstaff 96K
Maeshima 96
Abe 95ZH
Abe 94I
γ gravitino
Abbiendi 98J
Abe 98
Acciarri 98W
Barate 98I
Ackerstaff 97ZD
Barate 97V
$\mu^-\ e^+\ \nu\ +\ \mu^+\ e^-\ \nu$
Buskulic 96L
$\mu^-\ \mu^+\ \nu$
Buskulic 96L
$\tau^-\ e^+\ \nu\ +\ \tau^+\ e^-\ \nu$
Buskulic 96L
$\tau^-\ e^+\ \bar{\nu}_e$
Buskulic 96N
Buskulic 95W
$\tau^+\ e^-\ \nu_\mu$
Buskulic 96N
Buskulic 95W
$\tau^-\ \mu^+\ \bar{\nu}_e$
Buskulic 96N
Buskulic 95W
$\tau^+\ \mu^-\ \nu_e$
Buskulic 96N
Buskulic 95W
$\tau^-\ \tau^+\ \nu$
Buskulic 96L
$e^-\ q\ \bar{q}$
Aid 96F
Brummer 96B
$e^+\ q\ \bar{q}$
Aid 96F
Brummer 96B
$\ell^+\ \ell^-$ neutralino
Abreu 96M
Alexander 96V
Stichelbaut 96
$\nu\ \bar{\nu}$ neutralino
Ackerstaff 97W
Ackerstaff 96K
Stichelbaut 96
$e^-\ e^+$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Barnett 96
Conway 96
Kamon 96
White 94
Wolinski 94
$\mu^-\ \mu^+$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Barnett 96
Conway 96
Kamon 96
White 94
Wolinski 94
$q\ \bar{q}$ neutralino
Ackerstaff 97W
Abreu 96M
Ackerstaff 96K
Alexander 96H
Alexander 96V
Stichelbaut 96

neutralino$_1$

Abachi 96T
γ gravitino
Abreu 99I

neutralino$_1$

Abreu 98V

neutralino$_2$

γ neutralino$_1$
Abreu 99I
Abreu 98V
Abachi 96T
$e^-\ e^+$ neutralino$_1$
Abreu 98V
$\mu^-\ \mu^+$ neutralino$_1$
Abreu 98V
$q\ \bar{q}$ neutralino$_1$
Abreu 98V

chargino

White 94
Wolinski 94
W^+ neutralino
Aid 96F
Brummer 96B

chargino$^+$

Abbiendi 98N
Abbiendi 98P
Abreu 98V
Ackerstaff 98E
Hoffmann 98
Abbott 97E
Abbott 97G
Abreu 97M
Acciarri 97X
Ackerstaff 97U
Ackerstaff 97Z
Barate 97M
Barate 97X
Barate 97Y
Abreu 96X
Acciarri 96D
Aid 96F
Brummer 96B
Stichelbaut 96
e^+ X
Abachi 96U
$e^+\ \nu_e$ neutral (neutrals)
Kamon 94
$\mu^+\ \nu_\mu$ neutral (neutrals)
Kamon 94
$2\ell^+\ \ell^-$
Buskulic 96L
$e^+\ \nu\ \bar{\nu}$
Buskulic 96L
$\mu^+\ \nu\ \bar{\nu}$
Buskulic 96L
$\tau^+\ \nu\ \bar{\nu}$
Buskulic 96L
$\ell^+\ \nu$ neutralino
Abachi 96O
Abreu 96G
Alexander 96V
Buskulic 96M
Buskulic 96N
Maeshima 96
$e^+\ \nu_e$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Alexander 96Y
Barnett 96
Buskulic 96L
Conway 96
Kamon 96
White 94
Wolinski 94
$\mu^+\ \nu_\mu$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Alexander 96Y
Barnett 96
Buskulic 96L
Conway 96
Kamon 96

chargino$^+$

White 94
Wolinski 94
$\tau^+\ \nu_\tau$ neutralino
Buskulic 96L
$e^+\ \nu_e$ photino
Abe 96Q
$\mu^+\ \nu_\mu$ photino
Abe 96Q
$q\ \bar{q}$ neutralino
Ackerstaff 97W
Abreu 96G
Ackerstaff 96K
Alexander 96V
Buskulic 96L
Buskulic 96M
Buskulic 96N

chargino$^-$

Abbiendi 98N
Abbiendi 98P
Abreu 98V
Ackerstaff 98E
Hoffmann 98
Abbott 97E
Abbott 97G
Abreu 97M
Acciarri 97X
Ackerstaff 97U
Ackerstaff 97Z
Barate 97M
Barate 97X
Barate 97Y
Abreu 96X
Acciarri 96D
Stichelbaut 96
e^- X
Abachi 96U
$e^-\ \bar{\nu}_e$ neutral (neutrals)
Kamon 94
$\ell^+\ 2\ell^-$
Buskulic 96L
$e^-\ \nu\ \bar{\nu}$
Buskulic 96L
$\mu^-\ \nu\ \bar{\nu}$
Buskulic 96L
$\tau^-\ \nu\ \bar{\nu}$
Buskulic 96L
$\ell^-\ \bar{\nu}$ neutralino
Abachi 96O
Abreu 96G
Alexander 96V
Buskulic 96M
Buskulic 96N
Maeshima 96
$e^-\ \bar{\nu}_e$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Alexander 96Y
Barnett 96
Buskulic 96L
Conway 96
Kamon 96
$\mu^-\ \bar{\nu}_\mu$ neutralino
Abe 98M
Ackerstaff 97W
Abe 96C
Ackerstaff 96K
Alexander 96Y
Barnett 96
Buskulic 96L
Conway 96
Kamon 96
$\tau^-\ \bar{\nu}_\tau$ neutralino
Buskulic 96L
$e^-\ \bar{\nu}_e$ photino
Abe 96Q
$\mu^-\ \bar{\nu}_\mu$ photino
Abe 96Q
$q\ \bar{q}$ neutralino
Ackerstaff 97W
Abreu 96G

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

chargino$^-$

Ackerstaff 96K
Alexander 96V
Buskulic 96L
Buskulic 96M
Buskulic 96N

photino

Fanti 99
Acciarri 97K
Adams 97D
Farrar 97
Abe 96Q
Hoftun 95
Sugimoto 95
Greenshaw 94
Hosoda 94

γ higgsino

Jakobs 94

wino$^+$

e^+ neutral (neutrals)

Eno 95
Blessing 94

μ^+ neutral (neutrals)

Eno 95
Blessing 94

$e^+ \tilde{\nu}_e$

Jakobs 94

$e^+ \nu$ neutralino

Abachi 96N
Abachi 95ZO

$\mu^+ \nu$ neutralino

Abachi 96N
Abachi 95ZO

wino$^-$

e^- neutral (neutrals)

Eno 95
Blessing 94

μ^- neutral (neutrals)

Eno 95
Blessing 94

$e^- \bar{\tilde{\nu}}_e$

Jakobs 94

$e^- \bar{\nu}$ neutralino

Abachi 96N
Abachi 95ZO

$\mu^- \bar{\nu}$ neutralino

Abachi 96N
Abachi 95ZO

zino

$e^- e^+$ neutral (neutrals)

Eno 95
Blessing 94

$\mu^- \mu^+$ neutral (neutrals)

Eno 95
Blessing 94

invisible

Abachi 95ZQ

$e^- e^+$ neutralino

Abachi 96N
Abachi 95ZO

$\mu^- \mu^+$ neutralino

Abachi 96N
Abachi 95ZO

gluino

Abe 97V
Barate 97C
Shochet 94

jet X

Hagopian 94

(jets) jet X

Abbott 98Q

invisible hadron (hadrons) X

Abbott 98Q

neutralino jet

Gallas 96
Abachi 95F
Abachi 95L

gluino

Eno 95

gluon $\tilde{q}$

Hoftun 95

$q\,\tilde{q}$

Jakobs 94

$\bar{q}\,\tilde{q}$

Abachi 96O
Abachi 96P
Maeshima 96
Abe 95ZH

$q\,\bar{\tilde{q}}$

Abachi 96O
Abachi 96P
Maeshima 96
Abe 95ZH

photino $\tilde{q}$

Jakobs 94

neutralino 2jet

Gallas 96
Abachi 95F
Abachi 95L
Eno 95

$q\,\bar{q}$ neutralino

Abachi 96O
Abachi 96P
Abe 96Q
Maeshima 96
Abe 95ZH
Abe 94I

chargino$^+$ $q\,\bar{q}$

Abachi 96O
Abe 96Q
Maeshima 96

chargino$^-$ $q\,\bar{q}$

Abachi 96O
Abe 96Q
Maeshima 96

$q\,\bar{q}$ photino

Jakobs 94

$q\,\bar{q}\,\tilde{q}$

Abe 94I

gravitino

Abreu 99H
Abreu 99I
Abbiendi 98J
Abe 98
Abreu 98T
Abreu 98V
Barate 98I
Hoffmann 98
Ackerstaff 97ZD
Barate 97V

γ neutralino

Acciarri 98W

higgsino

Acciarri 97K
Akers 94J
Jakobs 94

higgsino$^+$

Barate 97X

higgsino$^-$

Barate 97X

H_1^0

$\ell^+ \ell^-$

Akers 94Q

2jet

Akers 94Q

$q\,\bar{q}$

Akers 94Q

$\bar{b}\,b$

Abreu 95X

$2A^0$

Akers 94Q

A^0

Sopczak 98
Temnikov 96
Bertin 95

A^0

$\ell^+ \ell^-$

Akers 94Q

$e^- e^+$

Akers 94Q

$\mu^- \mu^+$

Akers 94Q

$\tau^- \tau^+$

Abreu 99E
Abbiendi 98R
Acciarri 98J
Ackerstaff 98G
Barate 98R
Abreu 97L
Alexander 96W

2invisible

Acciarri 97U

2jet

Abreu 99E
Adam 96C
Buskulic 96K
Akers 94Q

2γ

Ackerstaff 98R
Akers 94Q

$q\,\bar{q}$

Acciarri 98J
Ackerstaff 98G
Alexander 96W
Alexander 96Y

$\bar{b}\,b$

Abreu 99E
Abbiendi 98R
Acciarri 98J
Ackerstaff 98G
Barate 98R
Abreu 97L
Barate 97O
Abreu 95X
Akers 94Q

$\pi^+ \pi^0 \pi^-$

Akers 94Q

H_2^0

Sopczak 98

$e^- e^+$

Janot 94

$\mu^- \mu^+$

Janot 94

$\tau^- \tau^+$

Ackerstaff 98G
Abreu 97L
Janot 94

2invisible

Acciarri 97U

2jet

Adam 96C
Janot 94

$q\,\bar{q}$

Ackerstaff 98G

$\bar{b}\,b$

Ackerstaff 98G
Abreu 97L

$Z^0 A^0$

Ackerstaff 98R

$2A^0$

Ackerstaff 98G

H^+

Abbiendi 98N
Sopczak 98
Ackerstaff 97Z

$\tau^+ \nu_\tau$

Abbott 99
Barate 99
Abbiendi 98R
Acciarri 98U
Klima 98
Abe 97K
Abreu 97L
Abreu 97P
Ackerstaff 97ZG
Barate 97U
Conway 97
Abe 96

H^+

Alexander 96ZB
Conway 96
Loomis 96
Loomis 96B
Maeshima 96
Tartarelli 96
Abe 94E
Abe 94T
Jakobs 94

2jet

Adam 96C
Alexander 96ZB
Abreu 94L

$q\,\bar{q}$

Abbiendi 98R
Ackerstaff 97ZG

$c\,\bar{s}$

Abbott 99
Barate 99
Acciarri 98U
Klima 98
Abreu 97L
Abreu 97P
Barate 97U
Alexander 96ZB

$W^+ \bar{b}\,b$

Abbott 99

H^-

Abbiendi 98N
Sopczak 98
Ackerstaff 97Z

$\tau^- \bar{\nu}_\tau$

Abbott 99
Barate 99
Abbiendi 98R
Acciarri 98U
Klima 98
Abe 97K
Abreu 97L
Abreu 97P
Ackerstaff 97ZG
Barate 97U
Conway 97
Abe 96
Alexander 96ZB
Conway 96
Loomis 96
Loomis 96B
Maeshima 96
Tartarelli 96
Abe 94E
Abe 94T
Jakobs 94

2jet

Adam 96C
Alexander 96ZB
Abreu 94L

$q\,\bar{q}$

Abbiendi 98R
Ackerstaff 97ZG

$\bar{c}\,s$

Abbott 99
Barate 99
Acciarri 98U
Klima 98
Abreu 97L
Abreu 97P
Barate 97U
Alexander 96ZB

$W^- \bar{b}\,b$

Abbott 99

$\tilde{\ell}^-$

Hoffmann 98
Barate 97Y
Acciarri 96D

ℓ^- neutralino

Abreu 96M
Buskulic 96M
Buskulic 96N
Buskulic 95W

$\tilde{\ell}^+$

Hoffmann 98
Barate 97Y
Acciarri 96D
ℓ^+ neutralino
Abreu 96M
Buskulic 96M
Buskulic 96N
Buskulic 95W

$\tilde{\nu}$

Hoffmann 98
Barate 97Y
ν neutralino
Buskulic 96N
Buskulic 95W
ν neutralino$_2$
Abachi 96T

$\bar{\tilde{\nu}}$

Barate 97Y
$\bar{\nu}$ neutralino
Buskulic 96N
Buskulic 95W
$\bar{\nu}$ neutralino$_2$
Abachi 96T

$\tilde{\nu}_e$

Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B
Jakobs 94

$\bar{\tilde{\nu}}_e$

Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B
Jakobs 94

$\tilde{\nu}_\mu$

Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B

$\bar{\tilde{\nu}}_\mu$

Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B

$\tilde{e}^-$

Abbiendi 98N
Acciarri 97X
Ackerstaff 97Z
Barate 97P
e^- neutralino
Abreu 99H
Barate 98Q
Ackerstaff 96Q
Alexander 96Y
e^- neutralino$_2$
Abachi 96T
e^- photino
Jakobs 94
e^- gravitino
Abreu 99H
e^- γ neutralino
Barate 98Q

$\tilde{e}^+$

Abbiendi 98N
Acciarri 97X
Ackerstaff 97Z
Barate 97P
e^+ neutralino
Abreu 99H
Barate 98Q
Breitweg 98D
Ackerstaff 96Q
Aid 96E
Alexander 96Y
Brummer 96B
e^+ neutralino$_2$
Abachi 96T
e^+ photino
Jakobs 94

$\tilde{e}^+$

e^+ gravitino
Abreu 99H
e^+ γ neutralino
Barate 98Q

$\tilde{\mu}^-$

Abbiendi 98N
Abreu 98W
Ackerstaff 98E
Acciarri 97X
Ackerstaff 97Z
Barate 97M
Barate 97P
Abreu 96X
μ^- neutralino
Abreu 99H
Barate 98Q
Ackerstaff 96Q
Alexander 96Y
μ^- gravitino
Abreu 99H
μ^- γ neutralino
Barate 98Q

$\tilde{\mu}^+$

Abbiendi 98N
Abreu 98W
Ackerstaff 98E
Acciarri 97X
Ackerstaff 97Z
Barate 97M
Barate 97P
Abreu 96X
μ^+ neutralino
Abreu 99H
Barate 98Q
Ackerstaff 96Q
Alexander 96Y
μ^+ gravitino
Abreu 99H
μ^+ γ neutralino
Barate 98Q

$\tilde{\tau}^-$

Abbiendi 98N
Ackerstaff 98E
Acciarri 97X
Ackerstaff 97Z
Barate 97M
Barate 97P
Abreu 96X
τ^- neutralino
Abreu 99H
Barate 98Q
Ackerstaff 96Q
Alexander 96Y
τ^- gravitino
Abreu 99H
Abreu 98T
τ^- γ neutralino
Barate 98Q

$\tilde{\tau}^+$

Abbiendi 98N
Ackerstaff 98E
Acciarri 97X
Ackerstaff 97Z
Barate 97M
Barate 97P
Abreu 96X
τ^+ neutralino
Abreu 99H
Barate 98Q
Ackerstaff 96Q
Alexander 96Y
τ^+ gravitino
Abreu 99H
Abreu 98T
τ^+ γ neutralino
Barate 98Q

$\tilde{q}$

Abreu 98W
Abe 97V
Barate 97Y
Acciarri 96D
Stichelbaut 96
Kiesling 94
jet X
Hagopian 94
(jets) jet X
Abbott 98Q
invisible hadron (hadrons) X
Abbott 98Q
e^+ q
Aid 96F
Brummer 96B
q jet
Feltesse 94
neutralino jet
Alexander 96H
Gallas 96
Abachi 95F
Abachi 95L
Eno 95
q neutralino
Breitweg 98D
Abreu 96M
Aid 96E
Aid 96F
Brummer 96B
Buskulic 96N
Buskulic 95W
chargino$^+$ q
Aid 96F
Brummer 96B
q photino
Hoftun 95
Greenshaw 94
Jakobs 94
q gluino
Abachi 96O
Abachi 96P
Abe 96Q
Maeshima 96
Abe 95ZH
Abe 94I
Jakobs 94
neutralino 2jet
Gallas 96
Abachi 95F
Abachi 95L
Eno 95
$e^\pm$ $2q$ $\bar{q}$
Ahmed 94

$\bar{\tilde{q}}$

Abreu 98W
Abe 97V
Barate 97Y
Acciarri 96D
Stichelbaut 96
jet X
Hagopian 94
ν_e $\bar{q}$
Aid 96F
Brummer 96B
neutralino jet
Alexander 96H
Gallas 96
Abachi 95F
Abachi 95L
Eno 95
$\bar{q}$ neutralino
Abreu 96M
Aid 96F
Brummer 96B
Buskulic 96N
Buskulic 95W
$\bar{q}$ photino
Jakobs 94
$\bar{q}$ gluino
Abachi 96O
Abachi 96P

$\bar{\tilde{q}}$

Abe 96Q
Maeshima 96
Abe 95ZH
Jakobs 94
neutralino 2jet
Gallas 96
Abachi 95F
Abachi 95L
Eno 95

$\tilde{u}$

X
Deroeck 94

$\tilde{d}$

Deroeck 94

$\tilde{b}$

Abreu 98W
Hoffmann 98
Barate 97Q
b neutralino
Abbott 99B
Abreu 99H
Acciarri 98ZF
Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B
b gravitino
Abreu 99H

$\bar{\tilde{b}}$

Abreu 98W
Hoffmann 98
Barate 97Q
$\bar{b}$ neutralino
Abbott 99B
Abreu 99H
Acciarri 98ZF
Ackerstaff 98U
Ackerstaff 97ZC
Ackerstaff 96B
$\bar{b}$ gravitino
Abreu 99H

$\tilde{t}$

Abreu 98W
Barate 97Q
Aid 96F
Brummer 96B
c neutralino
Abreu 99H
Abachi 96P
Buskulic 96M
Buskulic 96N
Abachi 95ZP
Shirai 94
c gravitino
Abreu 99H

$\bar{\tilde{t}}$

Abreu 98W
Barate 97Q
Aid 96F
Brummer 96B
Shirai 94
$\bar{c}$ neutralino
Abreu 99H
Abachi 96P
Buskulic 96M
Buskulic 96N
Abachi 95ZP
$\bar{c}$ gravitino
Abreu 99H

$\tilde{t}_1$

e^+ q
Aid 96F
Brummer 96B
c neutralino
Acciarri 98ZF
Ackerstaff 98U
Ackerstaff 97ZC

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\tilde{t}_1$

chargino$^+$ b	Ackerstaff 96B, Alexander 96Y, Abachi 96U
c zino	Abachi 95ZQ
c higgsino	Akers 94J
$\ell^+ b \tilde{\nu}$	Hoffmann 98
$e^+ b \tilde{\nu}_e$	Ackerstaff 98U, Ackerstaff 97ZC, Ackerstaff 96B
$\mu^+ b \tilde{\nu}_\mu$	Ackerstaff 98U, Ackerstaff 97ZC, Ackerstaff 96B

$\bar{\tilde{t}}_1$

$e^- \bar{q}$	Hoffmann 98, Akers 94J, Aid 96F, Brummer 96B
$\bar{c}$ neutralino	Acciarri 98ZF, Ackerstaff 98U, Ackerstaff 97ZC, Ackerstaff 96B, Alexander 96Y
chargino$^-$ $\bar{b}$	Abachi 96U
$\bar{c}$ zino	Abachi 95ZQ
$e^- \bar{b} \bar{\tilde{\nu}}_e$	Ackerstaff 98U, Ackerstaff 97ZC, Ackerstaff 96B
$\mu^- \bar{b} \bar{\tilde{\nu}}_\mu$	Ackerstaff 98U, Ackerstaff 97ZC, Ackerstaff 96B

ℓ^*

$\ell\ \gamma$	Stichelbaut 96, Demin 94

ν^*

$\nu\ \gamma$	Abreu 96, Barate 98C, Breitweg 97N, Aid 96G, Alexander 96T, Buskulic 96G, Stichelbaut 96, Acciarri 95L, Ahmed 94B, Brisson 94B, Derrick 94G, Kiesling 94
$\ell^- W^+$	Barate 98C
$\nu\ Z^0$	Breitweg 97N, Ahmed 94B, Brisson 94B, Derrick 94G
$e^- W^+$	Breitweg 97N, Stichelbaut 96, Acciarri 95L, Ahmed 94B, Brisson 94B, Derrick 94G
$e^- e^+$	Kiesling 94
ν 2jet	Abreu 96ZB
$e^- e^+ \nu$	Kiesling 94

ν^*

$\mu^- e^+ \nu + \mu^+ e^- \nu$	Kiesling 94

$\bar{\nu}^*$

$\bar{\nu}\ \gamma$	Abreu 96, Barate 98C, Alexander 96T, Buskulic 96G, Stichelbaut 96, Acciarri 95L, Ahmed 94B
$\ell^+ W^-$	Barate 98C
$\bar{\nu}\ Z^0$	Ahmed 94B
$e^+ W^-$	Stichelbaut 96, Acciarri 95L, Ahmed 94B
$\bar{\nu}$ 2jet	Abreu 96ZB

ν_e^*

$\nu_e\ \gamma$	Acciarri 97B, Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C, Buskulic 96G
$e^- W^+$	Abreu 98N, Abreu 96W, Ackerstaff 96C, Buskulic 96G
$\nu_e\ Z^0$	Abreu 98N, Abreu 96W
$e^- \ell^+ \nu$	Alexander 96T

$\bar{\nu}_e^*$

$\bar{\nu}_e\ \gamma$	Acciarri 97B, Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C, Buskulic 96G
$e^+ W^-$	Abreu 98N, Abreu 96W, Ackerstaff 96C, Buskulic 96G
$\bar{\nu}_e\ Z^0$	Abreu 98N, Abreu 96W
$e^+ \ell^- \bar{\nu}$	Alexander 96T

$e^{*\pm}$

	Greenshaw 94, Jakobs 94, Kiesling 94

e^{*-}

νW^-	Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96, Ahmed 94B, Brisson 94B, Derrick 94G
$e^- \gamma$	Abreu 98N, Acciarri 98O, Barate 98C, Abreu 96D, Abreu 96W, Ackerstaff 96C, Alexander 96T, Buskulic 96G, Acciarri 95L, Ahmed 94B, Deroeck 94, Derrick 94G, Feltesse 94, Greenshaw 94, Harnew 94, Jakobs 94, Kiesling 94
$\nu_e W^-$	Abreu 98N, Abreu 96W, Ackerstaff 96C, Deroeck 94, Harnew 94
$e^- Z^0$	Abreu 98N, Abreu 96W, Ahmed 94B, Brisson 94B, Deroeck 94, Derrick 94G, Harnew 94
$e^- 2\nu$	Kiesling 94
$2e^- e^+$	Kiesling 94
$\mu^- \mu^+ e^-$	Kiesling 94

e^{*+}

νW^+	Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96
$\bar{\nu} W^+$	Breitweg 97N
$e^+ \gamma$	Ahmed 94B, Abreu 98N, Acciarri 98O, Barate 98C, Breitweg 97N, Abreu 96D, Abreu 96W, Ackerstaff 96C, Aid 96G, Alexander 96T, Buskulic 96G, Acciarri 95L, Ahmed 94B, Deroeck 94, Jakobs 94
$\bar{\nu}_e W^+$	Abreu 98N, Abreu 96W, Ackerstaff 96C, Deroeck 94
$e^+ Z^0$	Abreu 98N, Breitweg 97N, Abreu 96W, Ahmed 94B, Deroeck 94
$e^+ \nu \bar{\nu}$	Aid 96G
$e^+ \nu_e \bar{\nu}_e$	Aid 96G
$e^- 2e^+$	Aid 96G
$\mu^+ \nu_\mu \bar{\nu}_e$	Aid 96G
$\mu^- \mu^+ e^+$	Aid 96G
$\bar{\nu}_e\ q\ \bar{q}$	Aid 96G

ν_μ^*

$\nu_\mu\ \gamma$	Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C
$\mu^- W^+$	Abreu 98N, Abreu 96W, Ackerstaff 96C
$\nu_\mu\ Z^0$	Abreu 98N, Abreu 96W
$\mu^- \ell^+ \nu$	Alexander 96T

$\bar{\nu}_\mu^*$

$\bar{\nu}_\mu\ \gamma$	Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C
$\mu^+ W^-$	Abreu 98N, Abreu 96W, Ackerstaff 96C
$\bar{\nu}_\mu\ Z^0$	Abreu 98N, Abreu 96W
$\mu^+ \ell^- \bar{\nu}$	Alexander 96T

$\mu^{*\pm}$

	Ackerstaff 97Q

μ^{*-}

$\mu^- \gamma$	Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96, Abreu 98N, Barate 98C, Abreu 96D, Abreu 96W, Ackerstaff 96C, Alexander 96T, Buskulic 96G, Acciarri 95L
$\nu_\mu W^-$	Abreu 98N, Abreu 96W, Ackerstaff 96C
$\mu^- Z^0$	Abreu 98N, Abreu 96W

μ^{*+}

$\mu^+ \gamma$	Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96, Abreu 98N, Barate 98C, Abreu 96D, Abreu 96W, Ackerstaff 96C, Alexander 96T, Buskulic 96G, Acciarri 95L
$\bar{\nu}_\mu W^+$	Abreu 98N, Abreu 96W, Ackerstaff 96C
$\mu^+ Z^0$	Abreu 98N, Abreu 96W

ν_τ^*

$\nu_\tau\ \gamma$	Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C
$\tau^- W^+$	Abreu 98N, Abreu 96W, Ackerstaff 96C

ν_τ^*

$\nu_\tau\ Z^0$ — Abreu 98N, Abreu 96W
$\tau^-\ \ell^+\ \nu$ — Alexander 96T

$\overline{\nu}_\tau^*$

$\overline{\nu}_\tau\ \gamma$ — Ackerstaff 97Q, Abreu 98N, Abreu 96W, Ackerstaff 96C
$\tau^+\ W^-$ — Abreu 98N, Abreu 96W, Ackerstaff 96C
$\overline{\nu}_\tau\ Z^0$ — Abreu 98N, Abreu 96W
$\tau^+\ \ell^-\ \overline{\nu}$ — Alexander 96T

τ^{*-}

$\tau^-\ \gamma$ — Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96, Abreu 98N, Barate 98C, Abreu 96D, Abreu 96W, Ackerstaff 96C, Alexander 96T, Buskulic 96G, Acciarri 95L
$\nu_\tau\ W^-$ — Abreu 98N, Abreu 96W, Ackerstaff 96C
$\tau^-\ Z^0$ — Abreu 98N, Abreu 96W

τ^{*+}

$\tau^+\ \gamma$ — Acciarri 97B, Ackerstaff 97Q, Stichelbaut 96, Abreu 98N, Barate 98C, Abreu 96D, Abreu 96W, Ackerstaff 96C, Alexander 96T, Buskulic 96G, Acciarri 95L
$\overline{\nu}_\tau\ W^+$ — Abreu 98N, Abreu 96W, Ackerstaff 96C
$\tau^+\ Z^0$ — Abreu 98N, Abreu 96W

q^*

2jet — Kiesling 94, Shochet 94, Abe 97D, Harris 95, Abe 94Y, Harris 94B, Jakobs 94
γ jet — Geer 94, Greenshaw 94, Harris 94
$W^\pm$ jet — Harris 94
W^+ jet — Geer 94
$\gamma\ q$ — Barate 98C, Breitweg 97N
$W^\pm\ q$ — Aid 96G, Abe 94ZD, Brisson 94B, Demin 94, Derrick 94G
$W^+\ q$ — Abe 94ZD, Breitweg 97N, Brisson 94B, Derrick 94G
$W^-\ q$ — Breitweg 97N, Brisson 94B, Derrick 94G
$Z^0\ q$ — Breitweg 97N, Brisson 94B, Derrick 94G
q gluon — Barate 98C, Harris 95B, Brisson 94B, Derrick 94G

$\overline{q}^*$

2jet — Abe 97D, Harris 95, Abe 94Y, Jakobs 94
γ jet — Geer 94, Harris 94
$W^\pm$ jet — Harris 94
W^+ jet — Geer 94
$\gamma\ q$ — Demin 94
$\gamma\ \overline{q}$ — Barate 98C
$\overline{q}$ gluon — Barate 98C, Harris 95B

cosmion

Bernabei 98, Bottino 98

dark

Bernabei 98, Beck 94
γ X — Strausz 97

millicharged

Prinz 98, Jaros 95

monopole

He 97B, Jakobs 94

technipion

$\overline{b}\ b$ — Abe 98V, Abe 98T

technirho

2jet — Abe 97D, Harris 95, Abe 94Y, Harris 94B
2gluon — Harris 95B

lepto-quark

lepto-quark — Abe 98V
$q\ \overline{q}$ — Harris 95B
$\overline{b}\ b$ — Abe 98U
2technipion — Abe 98V

techniomega

γ technipion — Abe 98T

lepton-colored

e^- gluon — Ahmed 94, Greenshaw 94, Harnew 94, Kiesling 94

meson

$J/\psi(1S)\ 2\pi^+$ — Antoniazzi 94B
$J/\psi(1S)\ 2\pi^-$ — Antoniazzi 94B

meson$^+$

$f_1(1285)\ \pi^+$ — Abreu 98B
$J/\psi(1S)\ \pi^+$ — Amsler 94E
$J/\psi(1S)\ \pi^+\ \pi^0$ — Antoniazzi 94B

meson^0

Alde 98, Barkov 98, Bertin 98, Batalova 97, Bertin 97B, Bertin 96, Svec 96, Temnikov 96, Stroot 95
2neutral (neutrals) — Landsberg 94C
2γ — Abreu 96K, Morgan 94
$2\pi^0$ — Ambrogiani 96, Hasan 96, Ishida 95, Amsler 94B, Amsler 94J, Armstrong 94, Brose 94, Hasan 94, Zenoni 94
$\pi^+\ \pi^-$ — Filippi 96, Iazzi 96, Ableev 94, Aston 94, Hasan 94, Zenoni 94
$\eta\ \pi^0$ — Abele 96C, Hasan 96, Spanier 96, Donskov 95, Montanet 95, Amsler 94B, Ravndal 94, Spanier 94
2η — Ambrogiani 96, Hasan 96, Ryabchikov 96, Montanet 95, Amsler 94E, Armstrong 94, Ravndal 94, Zenoni 94
$2\rho^0$ — Zenoni 94
$\rho^+\ \rho^-$ — Montanet 95, Zenoni 94
$\omega\ \eta$ — Donskov 95, Amsler 94E, Ravndal 94
2ω — Amsler 94E, Ravndal 94
$a_0(980)^+\ \pi^-$ — Bertin 95
$a_0(980)^-\ \pi^+$ — Bertin 95
$K^+\ K^-$ — Bai 96B, Zenoni 94
$2K_S$ — Grigoriev 96
$K^*(892)^+\ K^-$ — Bertin 95
$K^*(892)^0\ \overline{K}^0$ — Felix 94
$\overline{K}^*(892)^0\ K^0$ — Felix 94
$K^*(892)^-\ K^+$ — Bertin 95
$2\phi(1020)$ — Bertolotto 94
$p\ \overline{p}$ — Vavilov 94B
$2(\pi\pi)_{L=0}$ — Montanet 95, Zenoni 94
$K^+\ \overline{K}^0\ \pi^-$ — Bertin 95
$K^0\ K^-\ \pi^+$ — Bertin 95
$\pi^+\ 2\pi^0\ \pi^-$ — Montanet 95
$2\pi^+\ 2\pi^-$ — Filippi 96, Iazzi 96, Feliciello 94

meson$^-$

$\omega\ \pi^-$ — Abreu 98B, Lee 94
$f_1(1285)\ \pi^-$ — Amelin 98B
$J/\psi(1S)\ \pi^-$ — Amsler 94E
$\pi^+\ 2\pi^-$ — Antoniazzi 94B
$J/\psi(1S)\ \pi^0\ \pi^-$ — Vasilevsky 95, Ivanshin 94, Antoniazzi 94B

η

Abele 99, Barate 99E, Fanti 99, Gu 99, Abele 98D, Abele 98E, Achasov 98B, Ackerstaff 98I, Agakishiev 98, Ajaka 98, Akhmetshin 98, Alberico 98, Alexander 98, Armstrong 98B, Aulchenko 98B, Bai 98D, Barate 98H, Barberis 98, Barberis 98E, Bartelt 98B, Bergfeld 98, Bishai 98, Bock 98B, Calen 98, Calen 98B, Calen 98C, Chiavassa 98, Ernst 98, Grzonka 98, Hibou 98

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

η

Hu 98
Johansson 98B
Kirk 98
Smith 98
Troyan 98B
Wolf 98
Wurzinger 98
Abe 97F
Abele 97C
Abele 97D
Abele 97E
Ackerstaff 97ZE
Adams 97E
Akhmetshin 97C
Anderson 97B
Armstrong 97C
Armstrong 97D
Averbeck 97
Balest 97
Bartelt 97
Behrens 97
Bergfeld 97
Bertin 97D
Bilger 97
Bonvicini 97
Calen 97
Chiba 97B
Evans 97
Golovkin 97B
Hoffmannroth 97
Holzmann 97
Jessop 97B
Krusche 97
Nemati 97
Rouge 97
Shelkov 97
Thompson 97
Willis 97
Abele 96C
Acciarri 96N
Achasov 96
Adomeit 96
Ambrogiani 96
Amsler 96B
Amsler 96D
Badala 96B
Barberis 96B
Barmin 96
Baru 96
Bezzubov 96
Calen 96
Cason 96
Degener 96
Deoliveirama 96
Hasan 96
Pinder 96
Prokoshkin 96E
Ryabchikov 96
Semenov 96
Spanier 96B
Tikhomirov 96
Zachariadou 96
Acciarri 95M
Adler 95F
Albrecht 95I
Amsler 95E
Breuer 95
Donskov 95
Heltsley 95
Price 95
Ross 95
Savinov 95
Abreu 94H
Acciarri 94B
Alam 94C
Albrecht 94C
Albrecht 94D
Amelin 94
Armstrong 94
Armstrong 94B
Bachler 94
Chiavassa 94
Chiavassa 94B
Danilov 94
Eigen 94

η

Frascaria 94
Ravndal 94
Spanier 94
Zenoni 94
Alde 93
Geer 93
Muheim 93B
Landsberg 89

neutral (neutrals)

Fuchs 94

longlived

Amsler 94G

$e^- e^+$

Achasov 97
Browder 97
White 96

$\mu^- e^+$

White 96

$\mu^+ e^-$

White 96

$\mu^- \mu^+$

Browder 97
Abegg 94

γ longlived

Amsler 96

2γ

Barberis 98B
Browder 97
Gronberg 97
Acciarri 96J
Acciarri 96M
Alde 96
Amsler 96C
Balatz 96
Bartelt 96
Benayoun 96
Buskulic 96C
Chiba 96
Dowd 96
Freyberger 96
Golovkin 96
Jin 96
Kubota 96
Malinin 96
Notheisen 96
Prokoshkin 96
Prokoshkin 96B
Prokoshkin 96C
Prokoshkin 96D
Spanier 96
Ye 96
Zaitsev 96
Acciarri 95P
Albrecht 95F
Alde 95
Alde 95B
Amelin 95C
Ammar 95
Amsler 95B
Amsler 95D
Amsler 95F
Amsler 95G
Amsler 95H
Anisovich 95
Becattini 95
Brandenburg 95
Donskov 95
Dytman 95
Gibaut 95
Golovkin 95
Krusche 95C
Montanet 95
Stroot 95
Vavilov 95C
Achasov 94
Albrecht 94J
Alde 94
Amsler 94C
Amsler 94D
Amsler 94E
Amsler 94F
Amsler 94G
Amsler 94H
Amsler 94I

η

Amsler 94J
Anisovich 94
Aoyagi 94
Berg 94
Castro 94
Chiavassa 94C
Donskov 94
Faessler 94
Fan 94
Fan 94B
Fuchs 94
Kampert 94
Kulik 94
Landsberg 94B
Piccinini 94
Prokoshkin 94
Sadovsky 94
Singovsky 94
Wiedner 94
Zaitsev 94

$2\pi^0$

Achasov 98
Achasov 97

$\pi^+ \pi^-$

Akhmetshin 97B

$e^- e^+ \gamma$

Notheisen 96

$\pi^+ \pi^- \gamma$

Amelin 98
Gibaut 94B

$3\pi^0$

Abele 98
Achasov 98C
Gronberg 97
Golovkin 96
Amsler 95B
Krusche 95
Krusche 95B
Krusche 95C
Montanet 95
Stroot 95
Amsler 94
Amsler 94B
Amsler 94D
Amsler 94F
Wiedner 94

$\pi^+ \pi^0 \pi^-$

Abele 98B
Gronberg 97
Buskulic 96C
Zaitsev 96
Ableev 95C
Akhmetshin 95
Akhmetshin 95B
Amelin 95C
Amsler 95B
Golovkin 95
Montanet 95
Achasov 94
Amsler 94
Amsler 94B
Amsler 94D
Gibaut 94B
Landsberg 94B
Shevchenko 94
Wiedner 94
Zaitsev 94

$f_0(400-1200)$

Svec 96

$\pi^+ \pi^-$

Troyan 98

$K^- \pi^+$

Ishida 97

$f_0(700)$

Alekseev 97

ρ

Baglin 98B
Bai 98L
Geiger 98
Thompson 98
Angelis 97
Gronberg 97

ρ

Seyboth 97
Wiss 96
Gerschel 95
Masera 95
Mazzoni 94

$\rho^\pm$

Bishai 95B

ρ^+

Acciarri 98C
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98I
Barberis 98
Bergfeld 98
Bulekov 98
Smith 98
Abe 97G
Albrecht 97B
Alvaro 97
Anastassov 97B
Behrens 97
Brient 97
Chiba 97B
Evans 97
Hanai 97
Heltsley 97
Jessop 97B
Moore 97
Quigley 97
Ruiz 97
Weber 97
Wermes 97
Achasov 96
Adams 96B
Albrecht 96B
Artuso 96
Wiss 96
Akers 95B
Asner 95
Bella 95
Buskulic 95K
Buskulic 95P
Davier 95
Gibbons 95B
Hanai 95
Harton 95
Kodama 95
Matorras 95
Raab 95
Ross 95
Ableev 94
Akers 94P
Amsler 94B
Buskulic 94
Buskulic 94J
Golutvin 94
Payne 94
White 94B
Zenoni 94
Muheim 93B
Landsberg 89

$\pi^+ \pi^0$

Acciarri 96C
Alexander 96F
Alexander 96K
Buskulic 96V
Abreu 95T
Bella 95
Bourdon 95
Gibaut 95
Matorras 95
Montanet 95
Stahl 95
Albrecht 94Q
Amsler 94
Bonivento 94
Brient 94
Castro 94
Frabetti 94D
Girone 94
Gomezycadena 94
Kriznic 94

ρ^0

Abele 99B
Abreu 98H
Abreu 98S
Ackerstaff 98W
Agakishiev 98
Akhmetshin 98
Barberis 98
Barberis 98E
Bergfeld 98
Bertin 98
Breitweg 98K
Kirk 98
Smith 98
Thompson 98
Adams 97C
Adams 97D
Adloff 97D
Aitala 97
Aitala 97F
Akhmetshin 97B
Barberis 97
Behrens 97
Bertin 97B
Bertin 97E
Bliss 97
Bogolyubsky 97
Breitweg 97M
Chiba 97B
Frabetti 97B
Frabetti 97C
Nemati 97
Abreu 96F
Abreu 96ZD
Abreu 96ZE
Abreu 96ZF
Achasov 96
Adam 96D
Artuso 96
Chapkin 96
Gulamov 96B
Svec 96
Wiss 96
Zachariadou 96
Zaitsev 96
Abreu 95E
Adams 95G
Adler 95F
Aid 95F
Amelin 95B
Anisovich 95
Asner 95
Conrad 95
Derrick 95L
Frabetti 95D
Levy 95
Lohr 95
Sapozhnikov 95
Victorov 95B
Ableev 94
Alam 94C
Albrecht 94J
Danilov 94
Derrick 94
Eigen 94
Freyberger 94
Gaspero 94
Golutvin 94
Haas 94
Semenov 94
Zaitsev 94
Zenoni 94
Alde 93
Antipov 93B
Landsberg 89

charged$^+$ charged$^-$
Schellman 94

hadron$^+$ hadron$^-$
Salgado 96

$\pi^0\ \gamma$
Benayoun 96

$\pi^+\ \pi^-$
Asner 98
Kagarlis 98
Lolos 98

ρ^0

Abreu 97G
Acciarri 96M
Aid 96
Aid 96C
Aitala 96D
Alexander 96F
Barberis 96
Buskulic 96X
Derrick 96E
Filippi 96
Frabetti 96B
Freyberger 96
Kostin 96
Norman 96
Antinori 95
Arneodo 95D
Bella 95
Belogianni 95
Bishai 95B
Bourdon 95
Derrick 95R
Frabetti 95B
Lamberti 95
Matorras 95
Ressing 95
Stahl 95
Zaetz 95
Abatzis 94D
Abreu 94Q
Albrecht 94B
Albrecht 94G
Amelin 94
Arneodo 94B
Aston 94
Barreiro 94
Bartelt 94
Burow 94
Castro 94
Condo 94
Fang 94
Feltesse 94
Frabetti 94D
Gibaut 94B
Girone 94
Kotwal 94B
Kriznic 94
Landsberg 94C
Minaenko 94

$\eta\ \gamma$
Benayoun 96

ρ^-

Acciarri 98C
Acciarri 98D
Acciarri 98ZE
Ackerstaff 98I
Amelin 98B
Barberis 98
Bergfeld 98
Thompson 98
Abe 97G
Abele 97
Albrecht 97B
Alvaro 97
Anastassov 97B
Behrens 97
Brient 97
Chiba 97B
Evans 97
Hanai 97
Heltsley 97
Jessop 97B
Moore 97
Quigley 97
Ruiz 97
Weber 97
Wermes 97
Achasov 96
Adams 96B
Albrecht 96B
Artuso 96
Semenov 96
Akers 95B
Asner 95

ρ^-

Bella 95
Bishai 95B
Buskulic 95K
Buskulic 95P
Davier 95
Gibbons 95B
Hanai 95
Harton 95
Kodama 95
Matorras 95
Raab 95
Ross 95
Ableev 94
Akers 94P
Alam 94C
Amsler 94B
Athanas 94
Buskulic 94
Buskulic 94J
Golutvin 94
Payne 94
White 94B
Zenoni 94
Landsberg 89

$\pi^0\ \pi^-$
Acciarri 96C
Alexander 96F
Alexander 96K
Buskulic 96V
Abreu 95T
Bella 95
Bourdon 95
Gibaut 95
Matorras 95
Montanet 95
Stahl 95
Ableev 94E
Acciarri 94F
Albrecht 94Q
Amsler 94
Bonivento 94
Brient 94
Castro 94
Girone 94
Gomezycadena 94
Kriznic 94
Strassburger 94

ω

Achasov 99
Hibou 99
Ackerstaff 98I
Agakishiev 98
Amelin 98B
Baglin 98B
Bai 98L
Balestra 98
Barate 98H
Barberis 98
Barberis 98D
Bergfeld 98
Kirk 98
Smith 98
Troyan 98B
Abele 97B
Achasov 97
Anderson 97B
Angelis 97
Balest 97
Blackett 97
Chiba 97B
Evans 97
Golovkin 97
Golovkin 97B
Nemati 97
Rouge 97
Seyboth 97
Weber 97
Abreu 96ZD
Abreu 96ZE
Abreu 96ZF
Achasov 96
Amsler 96D
Artuso 96

ω

Barmin 96
Bertin 96G
Degener 96
Huang 96
Prokoshkin 96E
Ryabchikov 96
Wurzinger 96
Ableev 95
Adler 95F
Aid 95F
Buskulic 95O
Donskov 95
Gerschel 95
Heltsley 95
Levy 95
Lohr 95
Masera 95
Ross 95
Sapozhnikov 95
Vavilov 95B
Wurzinger 95
Abreu 94H
Alam 94C
Armstrong 94B
Derrick 94
Mazzoni 94
Wurzinger 94
Landsberg 89

$\pi^0\ \gamma$
Amsler 96C
Balatz 96
Benayoun 96
Golovkin 96
Notheisen 96
Amsler 95G
Becattini 95
Vavilov 95C
Alde 94C
Amsler 94B
Amsler 94C
Amsler 94E
Amsler 94F
Amsler 94J
Danilov 94
Donskov 94
Landsberg 94B
Ravndal 94
Sadovsky 94

$\pi^+\ \pi^-$
Aston 94
Sapozhnikov 94

$\eta\ \gamma$
Abele 97E
Benayoun 96
Donskov 94
Sadovsky 94
Alde 93

$\eta\ \pi^0$
Prokoshkin 96B
Alde 94

$\pi^0\ e^-\ e^+$
Notheisen 96

3γ
Abele 97E
Prokoshkin 96B
Alde 94

$2\pi^0\ \gamma$
Prokoshkin 96
Prokoshkin 96B
Alde 94

$\pi^+\ \pi^0\ \pi$
Malinin 96

$3\pi^0$
Prokoshkin 96B
Alde 94

$\pi^+\ \pi^0\ \pi^-$
Asner 98
Acciarri 96M
Alexander 96F
Buskulic 96C
Buskulic 96X
Derrick 96D
Ferrer 96
Freyberger 96
Iazzi 96

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

ω

Albrecht 95G
Balest 95
Becattini 95
Bishai 95B
Bourdon 95
Montanet 95
Ressing 95
Ableev 94D
Ableev 94G
Albrecht 94B
Albrecht 94G
Albrecht 94J
Amsler 94
Burow 94
Castro 94
Fan 94B
Gaspero 94
Girone 94
Kriznic 94
Landsberg 94B
Landsberg 94C
Lucherini 94
Shevchenko 94

η'

Aulchenko 99
Ackerstaff 98I
Agakishiev 98
Aulchenko 98B
Bai 98D
Bergfeld 98
Browder 98
Ernst 98
Grzonka 98
Hibou 98
Kirk 98
Moskal 98
Plotzke 98
Smith 98
Abele 97C
Achasov 97
Akhmetshin 97C
Behrens 97
Chiba 97B
Evans 97
Jessop 97B
Nemati 97
Shelkov 97
Abele 96C
Baru 96
Huang 96
Ryabchikov 96
Semenov 96
Wurzinger 96
Wurzinger 96B
Amelin 95C
Savinov 95
Alam 94C
Amsler 94B
Amsler 94J
Armstrong 94B
Muheim 93B
Landsberg 89

γ longlived

Amsler 96

2γ

Barberis 98B
Acciarri 97R
Amsler 96C
Spanier 96
Amsler 95G
Stroot 95
Amsler 94C
Amsler 94I

$\rho\,\gamma$

Gronberg 97

$\rho^0\,\gamma$

Acciarri 96M

$\pi^+\,\pi^-\,\gamma$

Abele 97B

$\pi^+\,\pi^0\,\pi^-$

Akhmetshin 95B

$\eta\,2\pi^0$

Gronberg 97

η'

$\eta\,\pi^+\,\pi^-$

Barberis 98B
Gronberg 97
Acciarri 96M
Dowd 96
Malinin 96
Zaitsev 96
Becattini 95
Brandenburg 95
Golovkin 95
Achasov 94
Gibaut 94B
Landsberg 94B
Shevchenko 94
Zaitsev 94

$\pi^+\,3\pi^0\,\pi^-$

Gronberg 97

$f_0(980)$

Abreu 98S
Ackerstaff 98B
Alde 98
Aulchenko 98
Bai 98
Kirk 98
Achasov 97
Ahn 97
Akhmetshin 97B
Alde 97
Bertin 97B
Frabetti 97C
Abreu 96ZD
Chapkin 96
Wiss 96
Amelin 95B
Zaitsev 94
Muheim 93B

$2\pi^0$

Ambrogiani 96
Spanier 96
Amsler 95
Anisovich 95
Ishida 95
Stroot 95
Alde 94B
Amsler 94J
Armstrong 94
Ravndal 94
Singovsky 94
Spanier 94
Strassburger 94

$\pi^+\,\pi^-$

Albrecht 96B
Zaitsev 96
Akhmetshin 95B
Belogianni 95
Frabetti 95
Gardner 95
Abreu 94Q
Berdnikov 94
Berdnikov 94B
Fan 94B
Frabetti 94D
Kirk 94

$K^+\,K^-$

Frabetti 95
Gardner 95

$a_0(980)^+$

Ackerstaff 98I
Barberis 98E
Bertin 98B
Barberis 97B
Bertin 97C

$\eta\,\pi^+$

Amsler 95F

$K^+\,A^0$

Temnikov 96
Bertin 95

$K^+\,\overline{K}^0$

Bertin 96

$K^+\,K_L$

Abele 98C

$a_0(980)^0$

Abele 98D
Kirk 98
Achasov 97
Ahn 97
Barberis 97B

$\eta\,\pi^0$

Abele 96C
Ambrogiani 96
Degener 96
Pinder 96
Spanier 96
Alde 95B
Amsler 95F
Anisovich 95
Donskov 95
Montanet 95
Amsler 94B
Amsler 94E
Amsler 94F
Amsler 94H
Amsler 94J
Armstrong 94
Ravndal 94
Spanier 94

$a_0(980)^-$

Ackerstaff 98I
Barberis 98E
Bertin 98B
Barberis 97B
Bertin 97C
Zaitsev 96
Amelin 95C

$\eta\,\pi^-$

Amsler 95F

$K^0\,K^-$

Bertin 96
Temnikov 96
Bertin 95

$K_L\,K^-$

Abele 98C

$b_1(1235)^+$

Bai 98H
Huang 96

$b_1(1235)^0$

Golovkin 97

$\omega\,\pi^0$

Degener 96
Amsler 94B
Amsler 94E
Amsler 94F
Amsler 94J

$\phi(1020)\,\pi^0$

Victorov 95

$b_1(1235)^-$

Bai 98H
Blackett 97
Huang 96

$f_0(1240)$

$2\pi^0$

Ambrogiani 96
Armstrong 94

$a_1(1260)^+$

Asner 99
Abreu 98B
Acciarri 98D
Ackerstaff 97ZB
Evans 97
Ruiz 97
Wermes 97
Adam 96D
Evans 96
Zachariadou 96
Buskulic 95K
Buskulic 95P
Davier 95
Harton 95

$a_1(1260)^+$

Qi 95
Raab 95
Wormser 94

$\rho^0\,\pi^+$

Abreu 96F
Bella 95
Bishai 95B
Matorras 95
Stahl 95

$\pi^+\,2\pi^0$

Akers 94P
Buskulic 94J

$2\pi^+\,\pi^-$

Alexander 96K
Buskulic 96V
Abreu 95T
Bella 95
Matorras 95
Stahl 95
Abreu 94I
Akers 94P
Buskulic 94J
Gomezycadena 94

$a_1(1260)^0$

Kirk 98

$\rho^+\,\pi^-$

Barberis 98

$\rho^0\,\pi^0$

Barberis 98

$\rho^-\,\pi^+$

Barberis 98

$a_1(1260)^-$

Asner 99
Abreu 98B
Acciarri 98D
Thompson 98
Ackerstaff 97ZB
Evans 97
Ruiz 97
Wermes 97
Adam 96D
Evans 96
Zachariadou 96
Abreu 95E
Buskulic 95K
Buskulic 95P
Davier 95
Harton 95
Qi 95
Raab 95
Athanas 94
Wormser 94

$\rho^0\,\pi^-$

Abreu 96F
Bella 95
Bishai 95B
Matorras 95
Stahl 95

$K^*(892)^-\,K^0$

Bolonkin 95

$2\pi^0\,\pi^-$

Akers 94P
Buskulic 94J

$\pi^+\,2\pi^-$

Alexander 96K
Buskulic 96V
Abreu 95T
Bella 95
Matorras 95
Stahl 95
Abreu 94I
Acciarri 94F
Akers 94P
Buskulic 94J
Gomezycadena 94

$f_2(1270)$

Abreu 98S
Ackerstaff 98B
Alberico 98B
Alde 98

$f_2(1270)$

	Bai 98G
	Bai 98L
	Barberis 98
	Bertin 98
	Kirk 98
	Thompson 98
	Alde 97
	Barberis 97
	Bertin 97B
	Bogolyubsky 97
	Frabetti 97C
	Abreu 96ZD
	Adomeit 96
	Baru 96
	Chapkin 96
	Gulamov 96B
	Huang 96
	Wiss 96
	Adler 95F
	Anisovich 95
	Yabuki 94
$2\pi^0$	
	Abele 96C
	Ambrogiani 96
	Pinder 96
	Anisovich 95
	Ishida 95
	Kondashov 95
	Montanet 95
	Stroot 95
	Amsler 94B
	Amsler 94E
	Amsler 94J
	Anisovich 94
	Armstrong 94
	Kondashov 94
	Ravndal 94
	Sadovsky 94
	Singovsky 94
	Strassburger 94
$\pi^+ \pi^-$	
	Anastassov 98
	Albrecht 96B
	Barberis 96
	Filippi 96
	Kostin 96
	Norman 96
	Weygand 96
	Zaitsev 96
	Antinori 95
	Belogianni 95
	Montanet 95
	Abatzis 94D
	Ableev 94
	Abreu 94Q
	Aston 94
	Belogianni 94
	Berdnikov 94B
	Frabetti 94D
	Landsberg 94C
	Belogianni 93B
2η	
	Anisovich 95
	Montanet 95
	Stroot 95
	Anisovich 94
$\rho^+ \rho^-$	
	Amsler 94
$K^+ K^-$	
	Montanet 95
	Zaitsev 94
$2K_S$	
	Grigoriev 96
	Baloshin 95
$2K_L$	
	Abele 96B

$f_1(1285)$

	Abele 98D
	Kirk 98
	Bergfeld 97
	Evans 97
	Shelkov 97
	Lee 94

$f_1(1285)$

$\rho^0 \gamma$	
	Barberis 98E
	Amelin 94
	Zaitsev 94
$a_0(980)^+ \pi^-$	
	Barberis 97B
$a_0(980)^0 \pi^0$	
	Barberis 97B
	Pinder 96
	Donskov 95
	Amsler 94E
$a_0(980)^- \pi^+$	
	Barberis 97B
$\phi(1020) \gamma$	
	Barberis 98E
	Amelin 94
$\eta 2\pi^0$	
	Alde 96
$\eta \pi^+ \pi^-$	
	Barberis 98E
	Dowd 96
	Amelin 94
	Zaitsev 94
$\rho^0 \pi^+ \pi^-$	
	Barberis 97
	Abatzis 94D
$K \overline{K} \pi$	
	Barberis 98E
$K^+ K^- \pi^0$	
	Amelin 94
$K^+ K_S \pi^-$	
	Barberis 97B
$K_S K^- \pi^+$	
	Barberis 97B
$2K_S \pi^0$	
	Barberis 97B
$2\pi^+ 2\pi^-$	
	Barberis 98E
	Barberis 96
	Abatzis 94D
	Kirk 94

$\eta(1295)$

$a_0(980)^0 \pi^0$	
	Donskov 95
$\eta 2\pi^0$	
	Alde 96

$\pi(1300)^0$

2γ	
	Acciarri 97O
$\rho^+ \pi^- + \rho^- \pi^+$	
	Albrecht 96B
$\rho^+ \pi^-$	
	Kriznic 94
$\rho^- \pi^+$	
	Kriznic 94

$a_0(1320)^0$

$\eta \pi^0$	
	Spanier 96
	Anisovich 95
	Montanet 95
	Amsler 94H

$a_2(1320)$

	Bai 98L

$a_2(1320)^+$

	Barberis 97
$\pi^+ \pi^0$	
	Adams 96B
$\rho^+ \pi^0$	
	Adams 96B
$\rho^0 \pi^+$	
	Antinori 95
	Abatzis 94D
$K^+ K_S$	
	Bertin 98B

$a_2(1320)^0$

	Abele 98D

$a_2(1320)^0$

	Kirk 98
	Adomeit 96
	Baru 96
2γ	
	Acciarri 97O
$\pi^+ \pi^-$	
	Weygand 96
$\eta \pi^0$	
	Abele 96C
	Ambrogiani 96
	Degener 96
	Alde 95B
	Donskov 95
	Stroot 95
	Amsler 94B
	Amsler 94E
	Amsler 94F
	Armstrong 94
	Prokoshkin 94
	Ravndal 94
$\rho^+ \pi^-$	
	Barberis 98
	Adams 96B
	Kriznic 94
$\rho^+ \pi^- + \rho^- \pi^+$	
	Albrecht 96B
$\rho^0 \pi^0$	
	Barberis 98
$\rho^- \pi^+$	
	Barberis 98
	Adams 96B
	Kriznic 94
$\pi^+ \pi^0 \pi^-$	
	Amelin 95

$a_2(1320)^-$

	Thompson 98
	Barberis 97
$\pi^0 \pi^-$	
	Adams 96B
$\eta \pi^-$	
	Thompson 97
	Zaitsev 96
	Achasov 94
	Aoyagi 94
	Zaitsev 94
$\rho^0 \pi^-$	
	Antinori 95
	Abatzis 94D
$\rho^- \pi^0$	
	Adams 96B
$\eta' \pi^-$	
	Zaitsev 96
	Achasov 94
	Zaitsev 94
$K_S K^-$	
	Bertin 98B
$\pi^+ 2\pi^-$	
	Zaitsev 94

$f_0(1370)$

	Alde 98
	Bertin 98
	Kirk 98
	Bertin 97B
	Wiss 96
	Zaitsev 94
$2\pi^0$	
	Abele 96C
	Spanier 96
	Amsler 95
	Anisovich 95
	Montanet 95
	Anisovich 94
	Strassburger 94
$\pi^+ \pi^-$	
	Berdnikov 94
	Frabetti 94D
2η	
	Abele 96C
	Spanier 96
	Amsler 95E
	Amsler 95H

$f_0(1370)$

	Anisovich 95
	Montanet 95
	Stroot 95
	Anisovich 94
$\rho^+ \rho^-$	
	Amsler 94
	Amsler 94B
$2(\pi\pi)_{L=0}$	
	Amsler 94
	Amsler 94B
	Gaspero 94
$\rho^0 \pi^+ \pi^-$	
	Barberis 97
$\pi^+ 2\pi^0 \pi^-$	
	Amsler 94
$2\pi^+ 2\pi^-$	
	Gaspero 94

$h_1(1380)$

$\omega \eta$	
	Amsler 94F
$K^*(892)^0 K_L$	
	Abele 97G
$\overline{K}^*(892)^0 K_L$	
	Abele 97G

$\hat{\rho}(1405)$

$\eta \pi^0$	
	Abele 98E

$\hat{\rho}(1405)^0$

	Abele 99
	Stroot 95

$f_1(1420)$

	Bai 98K
	Kirk 98
$2\pi^0$	
	Amsler 96B
$\pi^+ \pi^-$	
	Amsler 96B
$a_0(980)^+ \pi^-$	
	Barberis 98E
$a_0(980)^- \pi^+$	
	Barberis 98E
$K^*(892)^0 \overline{K}^0$	
	Barberis 98E
	Barberis 97B
$K^*(892)^0 K_S$	
	Gutierrez 96
$\overline{K}^*(892)^0 K^0$	
	Barberis 98E
	Barberis 97B
$\overline{K}^*(892)^0 K_S$	
	Gutierrez 96
$\phi(1020) \gamma$	
	Barberis 98E
$K^+ K_S \pi^- + K^+ K^- \pi^0 + K_S K^- \pi^+$	
	Bai 95C

$\omega(1420)$

$\rho^+ \pi^-$	
	Castro 94
$\rho^0 \pi^0$	
	Castro 94
$\rho^- \pi^+$	
	Castro 94
$\omega \eta$	
	Amsler 94B
	Amsler 94F

$\eta(1440)$

	Abele 98D
	Bai 98K
	Bertin 96H
	Huang 96
$a_0(980)^+ \pi^-$	
	Bertin 97C
	Bertin 96
	Temnikov 96
	Amsler 95F

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\eta(1440)$

$a_0(980)^0\ \pi^0$	Bertin 95
	Pinder 96
	Amsler 95F
	Donskov 95
$a_0(980)^-\ \pi^+$	Bertin 97C
	Bertin 96
	Temnikov 96
	Amsler 95F
	Bertin 95
$K^*(892)^+\ K^-$	Bertin 97C
	Bertin 96
	Temnikov 96
	Bertin 95
$K^*(892)^-\ K^+$	Bertin 97C
	Bertin 96
	Temnikov 96
	Bertin 95
$\eta\ 2\pi^0$	Alde 96
	Spanier 96B
	Amsler 95F
$\eta\ \pi^+\ \pi^-$	Spanier 96B
	Amsler 95F
$K^+\ \overline{K}^0\ \pi^-$	Bertin 97C
	Bertin 96
	Temnikov 96
	Bertin 95
$K^0\ K^-\ \pi^+$	Bertin 97C
	Bertin 96
	Temnikov 96
	Bertin 95
$K^+\ K_S\ \pi^- + K^+\ K^-\ \pi^0 + K_S\ K^-\ \pi^+$	Bai 95C

$a_0(1450)^+$

$K^+\ K_L$	Abele 98C

$a_0(1450)^0$

$\eta\ \pi^0$	Abele 96C
	Abele 97C
	Anisovich 95
	Amsler 94H
2η	Amsler 95E
$\eta'\ \pi^0$	Abele 97C

$a_0(1450)^-$

$K_L\ K^-$	Abele 98C

$\rho(1450)^0$

hadron$^+$ hadron$^-$	Abele 99B
	Bertin 98
	Bertin 97B
	Bertin 97E
$\pi^+\ \pi^-$	Salgado 96
$\rho^+\ \rho^-$	Achasov 96
	Castro 94
$\omega\ \pi^0$	Achasov 96
$\eta\ \pi^+\ \pi^-$	Achasov 96
	Amsler 94B
	Sadovsky 94
$\rho^0\ \pi^+\ \pi^-$	Castro 94
	Achasov 96
	Antinori 95

$\rho(1450)^0$

$2\pi^+\ 2\pi^-$	Kirk 94

$\rho(1450)^-$

$\pi^0\ \pi^-$	Abele 97
	Strassburger 94

$f_0(1500)$

$2\pi^0$	Alde 98
	Bertin 98
	Kirk 98
	Bertin 97B
	Frabetti 97C
	Abele 96C
	Amsler 95
	Amsler 95E
	Anisovich 95
	Montanet 95
	Anisovich 94
	Strassburger 94
$\pi^+\ \pi^-$	Antinori 95
2η	Abele 96C
	Degener 96
	Ryabchikov 96
	Spanier 96
	Zaitsev 96
	Amelin 95C
	Amsler 95E
	Amsler 95H
	Anisovich 95
	Montanet 95
	Stroot 95
	Anisovich 94
	Sadovsky 94
	Singovsky 94
$\eta'\ \eta$	Abele 96C
	Ryabchikov 96
	Spanier 96
	Zaitsev 96
	Amelin 95C
	Stroot 95
	Amsler 94I
$a_2(1320)^+\ \pi^-$	Abatzis 94D
$a_2(1320)^-\ \pi^+$	Abatzis 94D
$2K_L$	Abele 98C
	Abele 96B
$2(\pi\pi)_{L=0}$	Resag 96
$\rho^0\ \pi^+\ \pi^-$	Barberis 97
	Abatzis 94D
$f_2(1270)\ \pi^+\ \pi^-$	Abatzis 94D
$4\pi^0$	Abele 96
$2\pi^+\ 2\pi^-$	Abatzis 94D

$f_1(1510)^0$

$a_0(980)^0\ \pi^0$	Pinder 96
$K^*(892)^0\ \overline{K}^0$	Barberis 97B
$\overline{K}^*(892)^0\ K^0$	Barberis 97B
$\eta\ 2\pi^0$	Pinder 96
$K^+\ K_S\ \pi^- + K^+\ K^-\ \pi^0 + K_S\ K^-\ \pi^+$	Bai 95C

$f_2'(1525)$

	Abreu 98S
	Bai 98L

$f_2'(1525)$

2η	Anisovich 95
	Montanet 95
	Stroot 95
	Anisovich 94
	Sadovsky 94
	Singovsky 94
$K\ \overline{K}$	Montanet 95
$K^+\ K^-$	Abreu 96E
	Bai 96B
	Barberis 96
	Montanet 95
$2K_S$	Acciarri 95O
	Baloshin 95
$2K_L$	Abele 96B

$f_2(1565)$

$2\pi^0$	Abele 98D
	Alberico 98B
	Bertin 98
	Kirk 98
	Bertin 97B
	Abele 96C
	Ambrogiani 96
	Amsler 95
	Armstrong 94
	Strassburger 94
2η	Amsler 95E
$K^+\ K^-$	Norman 96

$\omega(1600)$

$\omega\ \eta$	Amsler 94B
	Amsler 94F
$\omega\ \pi^+\ \pi^-$	Castro 94

$f_2(1640)$

2ω	Amsler 94E

$\eta_2(1645)$

$a_2(1320)^+\ \pi^-$	Kirk 98
$a_2(1320)^0\ \pi^0$	Barberis 97
$a_2(1320)^-\ \pi^+$	Adomeit 96
$K^+\ K_S\ \pi^-$	Barberis 97
$K_S\ K^-\ \pi^+$	Barberis 97B
$2K_S\ \pi^0$	Barberis 97B
	Barberis 97B

$X(1650)^0$

$\eta\ \pi^0$	Prokoshkin 96
$\omega\ \eta$	Prokoshkin 96
	Prokoshkin 96E

$\omega_3(1670)$

$\pi^+\ \pi^0\ \pi^-$	Amelin 95

$\pi_2(1670)^0$

2γ	Kirk 98
	Acciarri 97O
$\pi^+\ \pi^-$	Weygand 96
$\rho^+\ \pi^-$	Barberis 98
	Kriznic 94

$\pi_2(1670)^0$

$\rho^0\ \pi^0$	Barberis 98
$\rho^-\ \pi^+$	Barberis 98
	Kriznic 94
$f_2(1270)\ \pi^0$	Barberis 98
	Albrecht 96B
	Pinder 96

$\pi_2(1670)^-$

$\omega\ \rho^-$	Thompson 98
$f_2(1270)\ \pi^-$	Amelin 98B
	Zaitsev 94

$\rho_3(1690)^0$

hadron$^+$ hadron$^-$	Anisovich 95
	Stroot 95
$\pi^+\ \pi^-$	Salgado 96
$\omega\ \pi^0$	Aston 94
	Alde 94C
	Sadovsky 94

$\rho(1700)^+$

	Bertin 98B

$\rho(1700)^0$

$\pi^+\ \pi^-$	Abele 99B
	Bertin 97B
	Achasov 96
	Castro 94
$\rho^+\ \rho^-$	Achasov 96
$\omega\ \pi^0$	Achasov 96
	Sadovsky 94
$\eta\ \pi^+\ \pi^-$	Castro 94
$\rho^0\ \pi^+\ \pi^-$	Achasov 96

$\rho(1700)^-$

	Bertin 98B
	Abele 97

$f_J(1710)$

2η	Abele 98D
	Bai 98G
	Kirk 98
	Wiss 96
	Ambrogiani 96
	Armstrong 94
	Kulik 94
	Sadovsky 94
$K\ \overline{K}$	Montanet 95
$K^+\ K^-$	Bai 96B
	Barberis 96
	Frabetti 95
	Gardner 95
$2K_S$	Baloshin 95
	Kulik 94
	Sadovsky 94

$X(1750)^-$

$f_0(980)\ \pi^-$	Zaitsev 94
$f_0(1370)\ \pi^-$	Zaitsev 94
$K^+\ K^-\ \pi^-$	Zaitsev 94

$\eta(1760)$

Abele 98D
Bai 98K

$\pi(1800)^0$

$\pi^+ \pi^-$ Weygand 96

$\pi(1800)^-$

π^- meson^0 Ryabchikov 96
$\rho^0 \pi^-$ Zaitsev 96, Amelin 95B
$f_0(980) \pi^-$ Zaitsev 96, Amelin 95B, Berdnikov 94, Berdnikov 94B
$a_0(980)^- \eta$ Zaitsev 96, Amelin 95C
$f_0(1370) \pi^-$ Berdnikov 94
$f_0(1500) \pi^-$ Ryabchikov 96, Zaitsev 96, Amelin 95C
$K^*(892)^0 K^-$ Zaitsev 96, Berdnikov 94B
$\pi^+ 2\pi^-$ Ryabchikov 96, Zaitsev 96, Amelin 95B, Amelin 95C
$2\eta \pi^-$ Ryabchikov 96, Zaitsev 96, Amelin 95C
$\eta' \eta \pi^-$ Zaitsev 96
$K^+ K^- \pi^-$ Zaitsev 96, Berdnikov 94, Berdnikov 94B

$f_2(1810)$

$2\pi^0$ Kondashov 95, Sadovsky 94

$X(1814)^-$

$f_0(1500) \pi^-$ Zaitsev 96

$\eta_2(1870)$

$f_2(1270) \eta$ Kirk 98, Adomeit 96, Pinder 96
$a_2(1320)^+ \pi^-$ Barberis 97
$a_2(1320)^- \pi^+$ Barberis 97

$X(1910)$

$2\pi^0$ Sadovsky 94
2η Stroot 95
2ω Stroot 95
$\eta' \eta$ Amsler 94E
$2K_S$ Stroot 95

$f_2(1950)$

$a_2(1320)^+ \pi^-$ Kirk 98, Barberis 97

$f_2(1950)$

$a_2(1320)^- \pi^+$ Antinori 95, Barberis 97
$f_2(1270) \pi^+ \pi^-$ Antinori 95, Barberis 97

$X(2000)$

$2\pi^+ 2\pi^-$ Kirk 94

$f_0(2020)$

$2\rho^0$ Barberis 97

$a_4(2040)^0$

$\eta \pi^0$ Ambrogiani 96, Prokoshkin 96C, Prokoshkin 96D, Alde 95, Armstrong 94

$a_4(2040)^-$

$\omega \rho^-$ Amelin 98B

$f_4(2050)$

$2\pi^0$ Alde 98, Ambrogiani 96, Kondashov 95, Armstrong 94, Hasan 94, Sadovsky 94
$\pi^+ \pi^-$ Hasan 94
2η Stroot 95

$\pi_2(2100)^-$

Ryabchikov 96

$\rho(2110)^0$

$\omega \pi^0$ Sadovsky 94

$f_2(2150)$

2η Evangelista 97, Stroot 95, Sadovsky 94, Singovsky 94
$f_2(1270) \eta$ Pinder 96

$\rho(2150)^0$

$\omega \pi^0$ Alde 94C

$f_0(2200)$

2η Kirk 98, Fan 94, Fan 94B
$K \overline{K}$ Montanet 95
$K^+ K^-$ Fan 94, Fan 94B
$2K_S$ Fan 94, Fan 94B

$f_J(2220)$

2γ Alam 98, Godang 97
2gluon Alam 98
$\pi^+ \pi^-$ Alam 98

$f_J(2220)$

2η Bai 96D, Hasan 96B, Jin 96, Stroot 95
$K \overline{K}$ Montanet 95
$K^+ K^-$ Bai 96D, Jin 96
$2K_S$ Evangelista 97, Godang 97, Bai 96D, Jin 96
$2\phi(1020)$ Evangelista 98
$p \overline{p}$ Evangelista 98, Evangelista 97, Bai 96D, Burnett 96

$\rho_5(2350)^0$

$\omega \pi^0$ Alde 94C, Sadovsky 94

$f_6(2510)$

$2\pi^0$ Alde 98, Sadovsky 94

strange

Barmin 94B

K^+

$\mu^+ \nu_\mu$ Koptev 95, Aoki 94
π^+ unspec Adler 95B
π^+ neutral Kitching 97
$\mu^+ \nu_\mu \gamma$ Akkus 98, Kuno 94
$\pi^+ \nu \overline{\nu}$ Adler 97C, Adler 95B
$\pi^0 e^+ \nu_e$ Kuno 94
$\pi^+ \mu^- \mu^+$ Adler 97B
$\pi^0 \mu^+ \nu_\mu$ Kuno 94
$\pi^+ 2\gamma$ Kitching 97
$\pi^+ 2\pi^0$ Anikeyev 98, Batusov 96
$2\pi^+ \pi^-$ Abatzis 95B, Bocquet 95, Bocquet 95B
$\mu^- \mu^+ e^+ \nu_e$ Adler 98

K^0

$\overline{K}^0$ Angelopoulos 98D
K_S Adler 97, Adler 96B, Adler 96D, Gibaut 95
K_L Adler 97, Adler 96D
2π Kuno 94
$2\pi^0$ Angelopoulos 97C

K^0

$\pi^+ \pi^-$ Adler 95C, Angelopoulos 97E, Adler 96D, Adler 96F, Abreu 95V, Adler 95D, Adler 95E, Aleshin 95B, Adams 94D, Adler 94B, Asratyan 94
$\pi^+ e^- \overline{\nu}_e$ Angelopoulos 98C, Angelopoulos 98D, Angelopoulos 98E, Angelopoulos 97E, Adler 96D, Adler 94B
$\pi^- e^+ \nu_e$ Angelopoulos 98C, Angelopoulos 98D, Angelopoulos 98E, Angelopoulos 97E, Adler 96D, Adler 96F, Adler 95, Adler 95E, Adler 95G, Adler 94B
$3\pi^0$ Angelopoulos 98
$\pi^+ \pi^0 \pi^-$ Adler 97, Adler 96, Adler 96D, Adler 94B

$\overline{K}^0$

K^0 Angelopoulos 98D
K_S Adler 97, Adler 96B, Adler 96D, Gibaut 95
K_L Adler 97, Adler 96D
$K_L + 2\pi^0$ Danilov 94
$2\pi^0$ Angelopoulos 97C, Adler 95C
$\pi^+ \pi^-$ Angelopoulos 97E, Adler 96D, Adler 96F, Adler 95D, Adler 95E, Adams 94D, Adler 94B, Asratyan 94
$\pi^+ e^- \overline{\nu}_e$ Angelopoulos 98C, Angelopoulos 98D, Angelopoulos 98E, Angelopoulos 97E, Adler 96D, Adler 96F, Adler 95, Adler 95E, Adler 95G, Adler 94B
$\pi^- e^+ \nu_e$ Angelopoulos 98C, Angelopoulos 98D, Angelopoulos 98E, Angelopoulos 97E, Adler 96D, Adler 94B
$3\pi^0$ Angelopoulos 98

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\overline{K}^0$

$\pi^+ \pi^0 \pi^-$
Adler 97
Adler 96
Adler 96D
Adler 94B

K^-

$\mu^- \overline{\nu}_\mu \gamma$
Akkus 98

$\pi^0 e^- \overline{\nu}_e$
Artemov 96

$\pi^0 \mu^- \overline{\nu}_\mu$
Artemov 96
Artemov 95

$2\pi^0 \pi^-$
Anikeyev 98

$\pi^+ 2\pi^-$
Abatzis 95B
Bocquet 95
Bocquet 95B

K_S

$e^- e^+$
Angelopoulos 97D
Blick 94

2charged
Bocquet 95
Bocquet 95B

2γ
Barr 95B

$\pi^+ \pi$
Asner 96
Derrick 95H
Castro 94
Ehrlich 94

$2\pi^0$
Bertanza 97
Amsler 95C
Barr 95B
Gibbons 95C
Amsler 94J
Blick 94
Faessler 94
Felix 94
Kulik 94
Sadovsky 94

$\pi^+ \pi^-$
Bertanza 97
Abatzis 96
Abe 96P
Abreu 96H
Abreu 96O
Aid 96H
Ammar 96
Bertin 96F
Buskulic 96U
Freyberger 96
Fu 96
Gutierrez 96
Jin 96
Malinin 96
Wang 96
Zou 96
Abe 95N
Abreu 95Q
Acciarri 95O
Akers 95J
Akhmetshin 95
Akhmetshin 95B
Albrecht 95C
Ammar 95
Baloshin 95
Bartelt 95
Becattini 95
Fujino 95
Gibaut 95
Gibbons 95C
Papadimitrio 95
Skarha 95
Stocker 95
Abreu 94C
Abreu 94Q
Adler 94B
Akers 94I
Akers 94P
Alam 94B
Albrecht 94M
Albrecht 94S
Asratyan 94
Bai 94
Bai 94B
Baird 94
Blick 94
Buskulic 94M
Deprospo 94
Edwards 94
Enomoto 94B
Fan 94
Fan 94B
Frabetti 94J
Garbincius 94
Gutierrez 94
Hartouni 94
Hsiung 94
Maur 94
Moroni 94
Smith 94
Spengler 94
Thomson 94
Longacre 93
Procario 93
Kinson 91

$\pi^+ \pi^- \gamma$
Akhmetshin 95B
Matthews 95B

$3\pi^0$
Angelopoulos 98

$\pi^+ \pi^0 \pi^-$
Angelopoulos 98B
Adler 97
Adler 96B
Zou 96
Adler 94B
Thomson 94
Zou 94

K_L

Barate 99E
Abele 98C
Hu 98
Abele 97F
Abele 97G
Achasov 97
Adams 97D
Adler 97D
Akhmetshin 97
Barate 97ZF
Cavallo 97
Evans 97
Abele 96B
Adler 96D
Bertin 96B
Bertin 96D
Bertin 96F
Bertin 96H
Villa 96
Abreu 95V
Akhmetshin 95
Amsler 95C
Bolonkin 95
Ableev 94B
Amsler 94B
Amsler 94J
Bertolotto 94
Buskulic 94F
Buskulic 94M
Danilov 94
Felix 94
Geer 93

2neutral (neutrals)
Faessler 94

$e^- e^+$
Ambrose 98
Akagi 94

$\mu^- e^+$
Ambrose 98B
Akagi 94

K_L

$\mu^+ e^-$
Ambrose 98B
Akagi 94

$\mu^- \mu^+$
Akagi 94
Heinson 94

2γ
Barr 95B

$2\pi^0$
Gibbons 95C
Schwingenheu 95
Hsiung 94

$\pi^+ \pi^-$
Gibbons 95C
Schwingenheu 95
Adler 94B
Akagi 94
Heinson 94
Hsiung 94

$e^- e^+ \gamma$
Nakaya 94

$\mu^- \mu^+ \gamma$
Fanti 97
Spencer 95

$\pi^0 \nu \overline{\nu}$
Adams 98B
Weaver 94

$\pi^+ e^- \overline{\nu}_e$
Kreutz 95

$\pi^0 e^- e^+$
Hsiung 94

$\pi^- e^+ \nu_e$
Kreutz 95

$\pi^0 \mu^- e^+$
Arisaka 98

$\pi^0 \mu^+ e^-$
Arisaka 98

$\pi^+ \mu^- \overline{\nu}_\mu$
Bender 97

$\pi^0 \mu^- \mu^+$
Hsiung 94

$\pi^- \mu^+ \nu_\mu$
Bender 97

3γ
Barr 95C

$\pi^0 2\gamma$
Alaviharati 99

$2\pi^0 \gamma$
Conrad 95
Barr 94
Roberts 94

$\pi^+ \pi^- \gamma$
Matthews 95B

$3\pi^0$
Kreutz 95
Krolak 94

$\pi^+ \pi^0 \pi^-$
Angelopoulos 98B
Adler 97
Zou 96
Akhmetshin 95B
Kreutz 95
Adler 94B
Hsiung 94
Thomson 94

$e^- e^+ 2\gamma$
Setzu 98
Nakaya 94

$2e^- 2e^+$
Barr 95
Akagi 94
Gu 94
Hsiung 94

$\mu^- \mu^+ e^- e^+$
Gu 96

$\pi^+ e^- \overline{\nu}_e \gamma$
Leber 96

$\pi^- e^+ \nu_e \gamma$
Leber 96

$\pi^+ \mu^- \overline{\nu}_\mu \gamma$
Bender 97

K_L

$\pi^- \mu^+ \nu_\mu \gamma$
Bender 97

$\pi^+ \pi^0 e^- \overline{\nu}_e$
Makoff 93

$\pi^0 \pi^\pm e^+ \nu_e$
Makoff 93

$\pi^+ \pi^- e^- e^+$
Adams 98
Takeuchi 98
Nomura 97

5γ
Conrad 95
Roberts 94

$K^*(892)$

Barberis 98D
Avery 95
Athanas 94

$K^*(892)^+$

Abe 99D
Barate 99E
Bergfeld 98
Bertin 98B
Smith 98
Abe 97ZI
Abele 97F
Behrens 97
Bertin 97C
Evans 97
Jessop 97
Wermes 97
Abe 96K
Abreu 96ZD
Chapkin 96
Huang 96
Lucchesi 96
Wang 96
Wiss 96
Yu 96B
Abe 95N
Buskulic 95O
Evans 95
Heltsley 95
Papadimitrio 95
Qi 95
Ruckstuhl 95
Skarha 95
Abreu 94I
Albrecht 94P
Alemany 94
Dejongh 94
Garbincius 94
Golutvin 94
Gomezycadena 94
Lewis 94
Mueller 94
Payne 94
Skarha 94
White 94B
Aleev 93C
Muheim 93B
Landsberg 89

$K^+ \pi^0$
Bishai 98
Bulekov 98
Abreu 94O
Bonivento 94

$K^0 \pi^+$
Bulekov 98
Bertin 96
Miao 96
Temnikov 96
Abe 95ZI
Bertin 95
Albrecht 94G
Smith 94

$K_S \pi^+$
Bishai 98
Bauer 96
Buskulic 96V
Albrecht 95C
Asner 95
Abe 94D

$K^*(892)^+$

Abreu 94Q
Akers 94P
Castro 94
Ehrlich 94
Frabetti 94J
Moroni 94
Spengler 94

$K^*(892)^0$

Abe 99D
Abe 98E
Abe 98L
Abreu 98H
Adamovich 98C
Bai 98
Bai 98L
Barberis 98E
Bergfeld 98
Bertin 98B
Smith 98
Abe 97E
Abe 97ZI
Abele 97F
Abele 97G
Aitala 97
Aitala 97D
Aitala 97F
Barate 97K
Barberis 97B
Behrens 97
Bliss 97
Frabetti 97B
Jessop 97
Abe 96D
Abe 96K
Abreu 96ZD
Adam 96D
Aitala 96F
Alexander 96Q
Barnett 96
Bauer 96
Freyberger 96
Huffman 96
Laasanen 96
Lewis 96
Lucchesi 96
Meschi 96
Paulini 96
Perasso 96
Semenov 96
Wiss 96
Yu 96B
Zachariadou 96
Abe 95E
Akers 95P
Anwaywiese 95
Frabetti 95B
Garbincius 95
Gardner 95
Gibaut 95
Karchin 95
Ragan 95
Abreu 94I
Akers 94H
Alam 94C
Albrecht 94P
Alemany 94
Bailey 94
Cdfcollabora 94B
Cdfcollabora 94E
Danilov 94
Dejongh 94
Eigen 94
Frabetti 94C
Golutvin 94
Lewis 94
Mueller 94
Payne 94
Purohit 94B
Shochet 94
Skarha 94
Wallace 94
Landsberg 89

$K^*(892)^0$

$K^+ \pi^-$

Asner 98
Abreu 97G
Ackerstaff 97X
Abreu 96J
Abreu 96O
Aitala 96D
Alves 96
Bergfeld 96B
Buskulic 96U
Buskulic 96V
Buskulic 96X
Gutierrez 96
Miao 96
Wang 96
Zaitsev 96
Abe 95N
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Abe 95ZI
Akers 95G
Albrecht 95C
Alexander 95E
Asner 95
Belogianni 95
Bishai 95B
Buskulic 95T
Derwent 95
Frabetti 95
Frabetti 95D
Gardner 95
Papadimitrio 95
Skarha 95
Abe 94D
Abe 94ZF
Albrecht 94G
Albrecht 94J
Bai 94
Bai 94B
Bartelt 94
Berdnikov 94B
Buskulic 94B
Byrum 94
Ehrlich 94
Garbincius 94
Hara 94
Jesik 94
Karen 94
Moroni 94
Plunkett 94
Purohit 94
Apsimon 93
Belogianni 93B

$K^0 \pi^0$

Amsler 94J
Faessler 94
Felix 94

$\overline{K}^*(892)$

Barberis 98D

$\overline{K}^*(892)^0$

Abe 99D
Abe 98E
Abe 98L
Abreu 98H
Adamovich 98C
Aitala 98C
Bai 98
Bai 98L
Barberis 98E
Bergfeld 98
Abe 97E
Abe 97ZI
Abele 97F
Abele 97G
Aitala 97
Aitala 97D
Aitala 97F
Barate 97K
Barberis 97B
Behrens 97
Bliss 97
Frabetti 97B
Jessop 97
Abe 96D
Abe 96K
Abreu 96ZD
Adam 96D
Aitala 96F
Alexander 96Q
Barnett 96
Freyberger 96
Huffman 96
Laasanen 96
Lewis 96
Lucchesi 96
Meschi 96
Paulini 96
Perasso 96
Semenov 96
Wiss 96
Yu 96B
Zachariadou 96
Abe 95E
Abreu 95E
Akers 95P
Anwaywiese 95
Frabetti 95B
Garbincius 95
Gardner 95
Gibaut 95
Karchin 95
Ragan 95
Ross 95
Abreu 94I
Albrecht 94P
Alemany 94
Cdfcollabora 94B
Danilov 94
Dejongh 94
Eigen 94
Freyberger 94
Golutvin 94
Lewis 94
Payne 94
Shochet 94
Skarha 94
Wallace 94
Muheim 93B
Landsberg 89

$\overline{K}^0 \pi^0$

Amsler 94J
Faessler 94
Felix 94

$K^- \pi^+$

Abreu 97G
Ackerstaff 97X
Abreu 96J
Abreu 96O
Aitala 96D
Alves 96
Bauer 96
Bergfeld 96B
Buskulic 96U
Buskulic 96V
Buskulic 96X
Frabetti 96B
Gutierrez 96
Miao 96
Wang 96
Abe 95N
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Abe 95ZI
Akers 95G
Albrecht 95C
Alexander 95E
Asner 95
Belogianni 95
Bishai 95B
Derwent 95
Frabetti 95
Frabetti 95D
Gardner 95
Papadimitrio 95
Skarha 95
Abe 94ZF
Albrecht 94J
Bai 94
Bai 94B
Bartelt 94
Byrum 94
Ehrlich 94
Fan 94B
Frabetti 94C
Frabetti 94D
Freyberger 94
Garbincius 94
Gibaut 94B
Hara 94
Karen 94
Moroni 94
Plunkett 94
Apsimon 93
Belogianni 93B

$K^*(892)^-$

Abe 99D
Barate 99E
Bergfeld 98
Bertin 98B
Abe 97ZI
Abele 97F
Behrens 97
Bertin 97C
Evans 97
Jessop 97
Weber 97
Wermes 97
Abe 96K
Abreu 96ZD
Chapkin 96
Huang 96
Lucchesi 96
Wang 96
Wiss 96
Yu 96B
Abe 95N
Buskulic 95O
Evans 95
Heltsley 95
Papadimitrio 95
Qi 95
Ross 95
Ruckstuhl 95
Skarha 95
Abreu 94I
Alam 94C
Albrecht 94P
Alemany 94
Dejongh 94
Freyberger 94
Garbincius 94
Gibaut 94B
Golutvin 94
Gomezycadena 94
Lewis 94
Payne 94
Skarha 94
White 94B
Aleev 93C
Landsberg 89

$\overline{K}^0 \pi^-$

Bertin 96
Miao 96
Temnikov 96
Abe 95ZI
Bertin 95
Bolonkin 95
Frabetti 95H
Smith 94

$K^- \pi^0$

Bishai 98
Abreu 94O
Battle 94
Bonivento 94

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$K^*(892)^-$

$K_S\ \pi^-$: Buskulic 94F, Frabetti 94D, Bishai 98, Bauer 96, Buskulic 96V, Albrecht 95C, Asner 95, Buskulic 95T, Abreu 94Q, Akers 94I, Akers 94P, Asratyan 94, Castro 94, Ehrlich 94, Frabetti 94D, Frabetti 94J, Freyberger 94, Moroni 94, Semenov 94, Spengler 94

$K_L\ \pi^-$: Buskulic 94F

$K_1(1270)$

Abe 99D

$K_1(1270)^+$

Barate 99E, Bai 98H, Abele 97F

$K_1(1270)^0$

Abele 97F, Abele 97G

$\overline{K}_1(1270)$

Abe 99D

$\overline{K}_1(1270)^0$

Abele 97F, Abele 97G

$K_1(1270)^-$

$K^-\ \pi^+\ \pi^-$: Barate 99E, Bai 98H, Abele 97F, Bauer 93B

$K_1(1400)^+$

Bai 98H, Abele 97F

$K_1(1400)^0$

Abele 97F, Abele 97G

$\overline{K}_1(1400)^0$

Abele 97F, Abele 97G

$K_1(1400)^-$

$K^-\ \pi^+\ \pi^-$: Bai 98H, Abele 97F, Bauer 93B

$K^*(1410)$

Abe 99D

$K^*(1410)^+$

Barate 99E

$\overline{K}^*(1370)$

Abe 99D

$K^*(1410)^-$

Barate 99E

$K_0^*(1430)$

$K^+\ \pi^-$: Frabetti 95, Gardner 95

$K_0^*(1430)^0$

$K^+\ \pi^-$: Gardner 95, Belogianni 93B

$\overline{K}_0^*(1430)$

$K^-\ \pi^+$: Frabetti 95, Gardner 95

$\overline{K}_0^*(1430)^0$

$K^-\ \pi^+$: Wiss 96, Frabetti 95, Gardner 95, Frabetti 94D, Belogianni 93B

$K_0^*(1430)^-$

$K_S\ \pi^-$: Wiss 96, Frabetti 94D

$K_2^*(1430)$

Abe 99D

$K_2^*(1430)^+$

$K^0\ \pi^+$: Bulekov 98

$K_2^*(1430)^0$

$K^+\ \pi^-$: Abreu 98S, Bai 98L, Ishida 97, Abreu 96J, Zaitsev 96, Akers 95G, Berdnikov 94B

$\overline{K}_2^*(1430)$

Abe 99D

$\overline{K}_2^*(1430)^0$

$K^-\ \pi^+$: Abreu 98S, Bai 98L, Wiss 96, Ishida 97, Abreu 96J, Akers 95G

$\overline{K}^*(1680)^0$

$K^-\ \pi^+$: Wiss 96, Frabetti 94D

$K^*(\text{unspec})^+$

$K^+\ \pi^+\ \pi^-$: Karnaukhov 95

$K^*(\text{unspec})^0$

$K^0\ \pi^+\ \pi^-$: Karnaukhov 96C, Karnaukhov 98B, Karnaukhov 95, Karnaukhov 95B

$K_S\ \pi^+\ \pi^-$: Karnaukhov 98

$K^+\ \pi^+\ 2\pi^-$: Karnaukhov 95

$K^-\ 2\pi^+\ \pi^-$: Karnaukhov 95

$K^0\ 2\pi^+\ 2\pi^-$: Karnaukhov 95

$\phi(1020)$

Abe 99D, Hibou 99, Abe 98L, Ackerstaff 98B, Agakishiev 98, Aitala 98, Alberico 98, Alberico 98B, Baglin 98B, Bai 98, Bai 98F, Bai 98L, Balestra 98, Barberis 98, Barberis 98C, Barberis 98D, Barberis 98E, Bergfeld 98, Chalyshev 98, Evangelista 98, Kirk 98, Panafiotou 98, Panafiotou 98B, Smith 98, Abe 97ZI, Adloff 97D, Ahn 97, Aitala 97C, Aitala 97F, Akhmetshin 97, Angelis 97, Avery 97, Baillie 97, Bliss 97, Chadha 97, Chiba 97B, Evans 97, Frabetti 97B, Friese 97, Golovkin 97, Jessop 97B, Kass 97, Ogilvie 97, Seyboth 97, Abreu 96ZD, Abreu 96ZE, Abreu 96ZF, Adam 96D, Aitala 96F, Akiba 96, Aleev 96B, Barnett 96, Bertin 96G, Freyberger 96, Landberg 96, Perasso 96, Semenov 96, Wiss 96, Wurzinger 96, Wurzinger 96B, Yang 96B, Zachariadou 96, Ableev 95, Abreu 95E, Aid 95F, Akers 95P, Alexander 95, Arneodo 95D, Artuso 95B, Asner 95, Frabetti 95, Garbincius 95, Gardner 95, Gerschel 95, Karchin 95, Kaufman 95, Levy 95, Lohr 95, Masera 95, Ross 95, Sapozhnikov 95, Stocker 95, Vavilov 95B, Victorov 95B

$\phi(1020)$

Adamovich 94D, Akers 94H, Amsler 94B, Bertolotto 94, Danilov 94, Derrick 94, Freyberger 94, Kaufman 94, Lecompte 94, Mazzoni 94, Mueller 94, Plunkett 94, Purohit 94B, Sapozhnikov 94B, Semenov 94, Shochet 94, Vavilov 94C, Wallace 94, Acosta 93, Muheim 93B, Landsberg 89

$\mu^-\ \mu^+$: Achasov 97

charged$^+$ charged$^-$: Schellman 94

$\pi^0\ \gamma$: Achasov 97, Benayoun 96

$2\pi^0$: Achasov 97

$\pi^+\ \pi^-$: Bauer 96, Abe 94X

$\eta\ \gamma$: Achasov 98C, Achasov 97, Akhmetshin 97B, Benayoun 96, Akhmetshin 95, Akhmetshin 95B

$\eta\ \pi^0$: Achasov 97

$\rho^0\ \gamma$: Akhmetshin 97B

$\omega\ \pi^0$: Achasov 99, Achasov 97

$\eta'\ \gamma$: Aulchenko 99, Aulchenko 98B, Achasov 97, Akhmetshin 97C, Akhmetshin 95B

$f_0(980)\ \gamma$: Aulchenko 98, Achasov 97, Akhmetshin 97B, Akhmetshin 95B

$a_0(980)^0\ \gamma$: Achasov 97

$K^+\ K^-$: Aitala 98B, Asner 98, Abreu 97G, Abe 96H, Abe 96K, Abreu 96E, Abreu 96J, Abreu 96O, Ackerstaff 96R, Adamovich 96B, Alexander 96Q, Alves 96, Alves 96B, Bertin 96C, Bertin 96D, Bertolotto 96, Buskulic 96O, Buskulic 96U, Buskulic 96X, Derrick 96F, Ferrer 96, Iazzi 96, Kodama 96

$\phi(1020)$

Meschi 96
Miao 96
Palano 96
Yu 96B
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Ableev 95C
Akers 95G
Akhmetshin 95
Akhmetshin 95B
Alexander 95E
Alexopoulos 95C
Amsler 95C
Bartelt 95
Belogianni 95
Bertolotto 95
Brandenburg 95
Buskulic 95I
Buskulic 95T
Derrick 95Q
Derwent 95
Frabetti 95B
Frabetti 95D
Frabetti 95E
Garbincius 95
Gibaut 95
Gronberg 95
Lamberti 95
Ressing 95
Skarha 95
Victorov 95
Abe 94ZH
Ableev 94D
Ableev 94G
Abreu 94
Abreu 94I
Albrecht 94B
Albrecht 94J
Albrecht 94M
Amelin 94
Appel 94
Arneodo 94B
Avery 94B
Bai 94
Bai 94B
Balatz 94B
Balest 94C
Barreiro 94
Belogianni 94
Bertolotto 94
Brown 94
Burow 94
Buskulic 94B
Butler 94
Fan 94B
Fang 94
Frabetti 94
Frabetti 94C
Freyberger 94
Gibaut 94B
Girone 94
Gutierrez 94
Hara 94
Johns 94
Jones 94B
Kriznic 94
Landsberg 94B
Landsberg 94C
Lewis 94
Lewis 94B
Lucherini 94
Moroni 94
Purohit 94
Sapozhnikov 94
Skarha 94
Steinkamp 94
Wang 94
Wormser 94
Apsimon 93

$K_S\ K_L$
Achasov 97
Akhmetshin 95

$\phi(1020)$

Akhmetshin 95B
Amsler 95C
Amsler 94J
Bertolotto 94
Faessler 94
Felix 94

$\mu^-\ \mu^+\ \gamma$
Akhmetshin 97B

$2\pi^0\ \gamma$
Aulchenko 98
Achasov 97

$\pi^+\ \pi^-\ \gamma$
Akhmetshin 97B

$3\pi^0$
Achasov 97

$\pi^+\ \pi^0\ \pi^-$
Akhmetshin 98
Akhmetshin 95
Akhmetshin 95B

$\eta\ \pi^0\ \gamma$
Achasov 98B
Achasov 97

$\eta\ \pi^+\ \pi^-$
Akhmetshin 98

$\rho^0\ 2\gamma$
Akhmetshin 98

$K_S\ K_L\ \gamma$
Achasov 97

$\pi^+\ \pi^0\ \pi^-\ \gamma$
Akhmetshin 95B

$2\pi^+\ 2\pi^-$
Akhmetshin 95B

$\eta\ 2\pi^0\ \gamma$
Aulchenko 98B

$\phi(1680)$

$\omega\ \eta$
Amsler 94B
Amsler 94F

$K^+\ K^-$
Castro 94

$K^*(892)^+\ K^-$
Castro 94

$K^*(892)^-\ K^+$
Castro 94

charm

Abreu 98
Breitweg 98E
Gibbons 97
Zatsepin 97
Asner 96
Slaughter 96
Su 96
Abe 95ZN
Behnke 95
Bunyatov 95
Rybicki 95
Albrecht 94R
Zatsepin 94B
Sakuda 93

ν X
Barabash 93

e^+ X
Akesson 96
Aso 95B
Abe 94V
Brisson 94B
Iwasaki 94
Sakuda 93
Uehara 93

μ^+ X
Akesson 96
Aso 95B
Belikov 95
Blair 95
Abe 94V
Hamilton 94
Kuhlmann 94B

K^0 X
Aleshin 95B

Λ X
Aleshin 95B

charm

e^+ jet
Nakano 94

$\overline{\text{charm}}$

Abreu 98
Gibbons 97
Asner 96
Slaughter 96
Su 96
Abe 95ZN
Bunyatov 95
Rybicki 95
Sakuda 93

e^- X
Akesson 96
Aso 95B
Abe 94V
Brisson 94B
Iwasaki 94
Sakuda 93

μ^- X
Akesson 96
Aso 95B
Belikov 95
Blair 95
Abe 94V
Kuhlmann 94B

e^- jet
Nakano 94

charmed-meson

Ardashev 97
Abe 96T

$\overline{\text{charmed-meson}}$

Ardashev 97
Abe 96T

D_c

Slaughter 96
Garbincius 95

$D^\pm$

Halling 96
Behnke 95
Wallace 94
Alves 93B
Buskulic 93P

D

Halling 96
Slaughter 96
Athanas 94
Moroni 94

$\overline{K}\ \pi$
Garbincius 95

$K_1(1270)\ \mu^\pm\ \nu$
Abe 99D

$K^*(1410)\ \mu^\pm\ \nu$
Abe 99D

$K_2^*(1430)\ \mu^\pm\ \nu$
Abe 99D

$\overline{K}\ 2\pi$
Garbincius 95

$\overline{K}\ 3\pi$
Garbincius 95

D^+

Adamovich 98B
Barate 98G
Barate 98K
Bartelt 98
Apanasevich 97
Asner 97
Athanas 97
Bartelt 97B
Coan 97B
Gibbons 97
Artuso 96
Bartelt 96B
Buskulic 96V
Buskulic 96W
Halling 96
Schmitt 96B
Semenov 96

D^+

Slaughter 96
Karchin 95
Ressing 95
Ross 95
Albrecht 94N
Colas 94
Dejongh 94
Jones 94B
Payne 94
Shochet 94

e^+ X
Freyberger 94
Luke 93

$\rho^0\ \mu^+\ \nu_\mu$ (γ's)
Frabetti 96B

$\mu^+\ \nu_\mu$
Bai 98J
Bai 96

$\pi^+\ \pi^0$
Wiss 96

$\eta\ \pi^+$
Jessop 97B

$\rho\ \pi^+$
Wiss 96

$\rho^0\ \pi^+$
Frabetti 97C

$\rho^+\ \eta$
Jessop 97B

$\eta'\ \pi^+$
Jessop 97B

$\eta'\ \rho^+$
Jessop 97B

$f_0(980)\ \pi^+$
Frabetti 97C

$f_2(1270)\ \pi^+$
Frabetti 97C

$\overline{K}^0\ \pi^+$
Bishai 97
Frabetti 94J

$K_S\ \pi^+$
Bishai 97
Bai 96
Asratyan 94
Athanas 94
Dejongh 94

$K^+\ \rho^0$
Aitala 97
Frabetti 95D

$\overline{K}^0\ \rho^+$
Wiss 96

$K^+\ \overline{K}^0$
Bishai 97
Frabetti 94J

$K^+\ K_S$
Bishai 97

$K^*(892)^0\ \pi^+$
Aitala 97
Frabetti 95D
Purohit 94
Purohit 94B

$\overline{K}^*(892)^0\ \pi^+$
Wiss 96
Gardner 95
Frabetti 94D

$K^*(892)^+\ \overline{K}^0$
Frabetti 94J

$\overline{K}^*(892)^0\ K^+$
Aitala 96F
Wiss 96
Frabetti 95
Gardner 95
Frabetti 94C

$\overline{K}_0^*(1430)^0\ \pi^+$
Wiss 96
Frabetti 94D

$\overline{K}_2^*(1430)^0\ \pi^+$
Wiss 96

$\overline{K}^*(1680)^0\ \pi^+$
Wiss 96
Frabetti 94D

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

D^+

$\phi(1020)\ \pi^+$
Aitala 96F
Wiss 96
Frabetti 95
Frabetti 95E
Gardner 95
Adamovich 94D
Brown 94
Frabetti 94C
Purohit 94B

$K^+\ \phi(1020)$
Frabetti 95E
Gardner 95
Purohit 94
Purohit 94B

$\pi^+\ e^-\ e^+$
Frabetti 97
James 96
Aitala 95

$\pi^0\ e^+\ \nu_e$
Bartelt 97
Freyberger 94

$\pi^-\ 2e^+$
Frabetti 97

$\pi^+\ \mu^-\ e^+$
Frabetti 97

$\pi^+\ \mu^+\ e^-$
Frabetti 97

$\pi^-\ \mu^+\ e^+$
Frabetti 97

$\pi^+\ \mu^-\ \mu^+$
Frabetti 97
James 96
Aitala 95
Kodama 95
Nguyen 94

$\pi^0\ \mu^+\ \nu_\mu$
Bartelt 97
Freyberger 94

$\pi^-\ 2\mu^+$
Frabetti 97
Kodama 95

$\eta\ e^+\ \nu_e$
Bartelt 97

$\eta\ \mu^+\ \nu_\mu$
Bartelt 97

$\rho^0\ e^+\ \nu_e$
Aitala 96D
Freyberger 94

$\rho^+\ \mu^-\ \mu^+$
Kodama 95

$\rho^0\ \mu^+\ \nu_\mu$
Aitala 96D
Frabetti 96B
Gibaut 94B

$K^+\ e^-\ e^+$
Frabetti 97

$\overline{K}^0\ e^+\ \nu_e$
Bartelt 97
Freyberger 94

$K^-\ 2e^+$
Frabetti 97

$K_S\ e^+\ \nu_e$
Freyberger 94

$K^+\ \mu^-\ e^+$
Frabetti 97

$K^+\ \mu^+\ e^-$
Frabetti 97

$K^-\ \mu^+\ e^+$
Frabetti 97

$K^+\ \mu^-\ \mu^+$
Frabetti 97

$\overline{K}^0\ \mu^+\ \nu_\mu$
Bartelt 97
Freyberger 94

$K^-\ 2\mu^+$
Frabetti 97

$\overline{K}^*(892)^0\ e^+\ \nu$
Semenov 96

$\overline{K}^*(892)^0\ e^+\ \nu_e$
Aitala 98C

D^+

Aitala 97D
Aitala 96D
Perasso 96
Freyberger 94

$\overline{K}^*(892)^0\ \mu^+\ \nu_\mu$
Adamovich 98C
Aitala 98C
Aitala 96D
Frabetti 96B
Perasso 96
Freyberger 94
Gibaut 94B
Moroni 94

$\phi(1020)\ e^+\ \nu_e$
Freyberger 94

$\phi(1020)\ \mu^+\ \nu_\mu$
Freyberger 94

$2\pi^+\ \pi^-$
Frabetti 97C
Aitala 96F
James 96
Wiss 96
Aitala 95
Adamovich 94D
Moroni 94

$K^+\ \pi^+\ \pi^-$
Aitala 97
James 96
Frabetti 95D
Gardner 95
Adamovich 94D
Purohit 94
Purohit 94B

$\overline{K}^0\ \pi^+\ \pi^0$
Wiss 96

nonres $< K^-\ 2\pi^+ >$
Wiss 96
Frabetti 94D

$K^-\ 2\pi^+$
Aitala 98E
Aitala 97
Bishai 97
Frabetti 97C
Adamovich 96
Adamovich 96B
Aitala 96
Aitala 96C
Alexander 96Q
Alexander 96S
Alves 96
Alves 96B
Bai 96
Buskulic 96O
Buskulic 96Q
James 96
Kobel 96
Wiss 96
Abe 95ZQ
Abreu 95L
Adamovich 95
Aitala 95
Akers 95F
Akers 95R
Alexander 95C
Behnke 95
Buskulic 95L
Frabetti 95D
Frabetti 95I
Garbincius 95
Gardner 95
Gibaut 95
Adamovich 94D
Alam 94C
Appel 94
Asratyan 94
Athanas 94
Avery 94
Balest 94
Carter 94
Carter 94B
Chudakov 94
Dejongh 94
Frabetti 94D
Frabetti 94E

D^+

Frabetti 94G
Johns 94
King 94
Moroni 94
Purohit 94
Purohit 94B
Wormser 94
Abreu 93G
Alves 93B
Buskulic 93P

$K^+\ K^-\ \pi^+$
Aitala 96F
Wiss 96
Frabetti 95
Gardner 95
Frabetti 94C
Moroni 94
Purohit 94B

$2K^+\ K^-$
Frabetti 95E
Gardner 95
Adamovich 94D
Purohit 94
Purohit 94B

$K^+\ 2\overline{K}^0$
Wiss 96

$K^+\ 2K_S$
Albrecht 94J

$\overline{K}^*(892)^0\ \rho^0\ \pi^+$
Frabetti 97B

$K^-\ \pi^+\ e^+\ \nu_e$
Freyberger 94

$\overline{K}^*(892)^0\ \pi^0\ \mu^+\ \nu_\mu$
Gibaut 94B

$K^-\ \rho^0\ 2\pi^+$
Frabetti 97B

$\overline{K}^*(892)^0\ 2\pi^+\ \pi^-$
Frabetti 97B

$3\pi^+\ 2\pi^-$
Frabetti 97B
Wiss 96
Moroni 94

$K^-\ 3\pi^+\ \pi^-$
Frabetti 97B

D^0

Abe 98O
Ackerstaff 98D
Adamovich 98
Athanas 98
Barate 98G
Barate 98K
Bartelt 98
Brandenburg 98
Athanas 97
Gibbons 97
Nemati 97
Ackerstaff 96R
Artuso 96
Bartelt 96B
Furtjes 96
Halling 96
Schmitt 96B
Semenov 96
Slaughter 96
Karchin 95
Ukegawa 95
Albrecht 94I
Albrecht 94N
Byrum 94
Jones 94B
Lecompte 94
Payne 94
Shochet 94

e^+ X
Freyberger 94

μ^+ X
Kodama 94

$\ell\ \nu$ X
Semenov 96B

$e^+\ \nu$ X
Kubota 95

$e^+\ \nu_e$ X
Semenov 96

D^0

Semenov 96B

$e^+\ \overline{\nu}_e$ X
Albrecht 95E

$\mu^+\ \nu_\mu$ X
Semenov 96B

$\mu^+\ \overline{\nu}_\mu$ X
Albrecht 95E

2charged (neutrals)
Aso 95

2hadron (hadrons)
Takashimizu 96

$K^-\ \pi^+$ X
Enomoto 94
Enomoto 93

$\overline{D}^0$
Aitala 98D
Barate 98P
Aitala 96E
Purohit 94

$e^-\ e^+$
Freyberger 96

$\mu^-\ e^+$
Freyberger 96

$\mu^+\ e^-$
Freyberger 96

$\mu^-\ \mu^+$
Adamovich 97B
Freyberger 96
Adamovich 95B
Alexopoulos 95B
Mishra 94

$2\pi^0$
Wiss 96

$\pi^+\ \pi^-$
Aitala 97E
Wiss 96
Ross 95
Adamovich 94D
Frabetti 94F
Moroni 94

$\rho^0\ \gamma$
Asner 98

$\omega\ \gamma$
Asner 98

$K^+\ \pi^-$
Barate 98P
Semenov 96
Wiss 96
Bartelt 95
Danilov 94
Purohit 94
Cinabro 93B

$\overline{K}\ \pi$
Akers 94S

$\overline{K}^0\ \pi^0$
Ross 95

$K^-\ \pi^+$
Aitala 98D
Aitala 98E
Barate 98P
Breitweg 98E
Aitala 97E
Artuso 97B
Barate 97H
Coan 97B
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Adamovich 96
Adamovich 96B
Adloff 96B
Aid 96D
Aitala 96C
Alexander 96N
Alexander 96Q
Alexander 96S
Alves 96
Alves 96B
Bai 96
Barish 96
Bauer 96
Buskulic 96O

D^0

Buskulic 96Q
Buskulic 96R
Buskulic 96T
Buskulic 96V
Buskulic 96W
Kaplan 96
Kobel 96
Lucchesi 96
Nodulman 96
Semenov 96
Semenov 96B
Spaan 96
Wang 96
Wang 96B
Wiss 96
Abe 95ZQ
Abreu 95L
Abreu 95S
Adamovich 95
Akers 95F
Akers 95R
Albrecht 95D
Albrecht 95H
Alexander 95C
Artuso 95B
Asratyan 95
Bargende 95
Bartelt 95
Behnke 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Buskulic 95S
Derrick 95
Duboscq 95
Frabetti 95H
Frabetti 95I
Garbincius 95
Gardner 95
Gibaut 95
Kubota 95
Papadimitrio 95
Ressing 95
Ross 95
Skarha 95
Adamovich 94D
Akers 94B
Alam 94C
Albrecht 94L
Asratyan 94
Athanas 94
Balest 94
Barish 94
Barreiro 94
Bergfeld 94B
Brisson 94B
Brown 94
Buskulic 94L
Colas 94
Danilov 94
Dejongh 94
Frabetti 94C
Frabetti 94E
Frabetti 94F
Frabetti 94G
Frabetti 94I
Johns 94
Kubota 94
Kuhlmann 94B
Leitch 94
Lewis 94B
Litvintsev 94
Moroni 94
Purohit 94
Skarha 94
Wormser 94
Abreu 93G
Albrecht 93D
Alves 93
Alves 93B
Buskulic 93D
Buskulic 93P
Cinabro 93B
Sakuda 93

D^0

$K_S\ \pi^0$
Bartelt 95
Athanas 94
Dejongh 94

$\overline{K}^0\ \rho^0$
Wiss 96
Frabetti 94D

$K^-\ \rho^+$
Wiss 96
Frabetti 94D

$K_S\ \rho^0$
Wiss 96

$\overline{K}^0\ \omega$
Ross 95

$\overline{K}^0\ f_0(980)$
Wiss 96
Frabetti 94D

$\overline{K}^0\ f_2(1270)$
Wiss 96
Frabetti 94D

$\overline{K}^0\ f_0(1370)$
Wiss 96
Frabetti 94D

$K^0\ \overline{K}^0$
Asner 96
Wiss 96
Frabetti 94I

$K^+\ K^-$
Aitala 97E
Asner 96
Bartelt 95
Ross 95
Adamovich 94D
Frabetti 94C
Frabetti 94F
Moroni 94

$K^*(892)^0\ \gamma$
Asner 98

$\overline{K}^*(892)^0\ \pi^0$
Wiss 96
Frabetti 94D

$K^*(892)^-\ \pi^+$
Wiss 96
Frabetti 95H
Asratyan 94
Frabetti 94D
Semenov 94

$\overline{K}^*(892)^0\ \eta$
Ross 95

$K^*(892)^+\ K^-$
Wiss 96

$K^*(892)^0\ \overline{K}^0$
Wiss 96

$\overline{K}^*(892)^0\ K^0$
Wiss 96

$K^*(892)^-\ K^+$
Wiss 96

$K^*(892)^0\ \overline{K}^*(892)^0$
Aitala 97F
Wiss 96
Frabetti 95B

$K_0^*(1430)^-\ \pi^+$
Wiss 96
Frabetti 94D

$\phi(1020)\ \gamma$
Asner 98

$\phi(1020)\ \pi^0$
Albrecht 94J

$\phi(1020)\ \eta$
Albrecht 94J

$\phi(1020)\ \rho^0$
Aitala 97F
Wiss 96
Frabetti 95B
Albrecht 94J
Danilov 94
Semenov 94

$\phi(1020)\ \omega$
Albrecht 94J

$\overline{K}^0\ \phi(1020)$
Wiss 96

D^0

$K_S\ \phi(1020)$
Bartelt 95

$\pi^0\ e^-\ e^+$
Freyberger 96

$\pi^-\ e^+\ \nu_e$
Frabetti 96
Semenov 96
Spaan 96
Butler 95
Freyberger 94

$\pi^0\ \mu^-\ e^+$
Freyberger 96

$\pi^0\ \mu^+\ e^-$
Freyberger 96

$\pi^0\ \mu^-\ \mu^+$
Freyberger 96
Kodama 95

$\pi^-\ \mu^+\ \nu_\mu$
Frabetti 96

$\eta\ e^-\ e^+$
Freyberger 96

$\eta\ \mu^-\ e^+$
Freyberger 96

$\eta\ \mu^+\ e^-$
Freyberger 96

$\eta\ \mu^-\ \mu^+$
Freyberger 96

$\rho^0\ e^-\ e^+$
Freyberger 96

$\rho^0\ \mu^-\ e^+$
Freyberger 96

$\rho^0\ \mu^+\ e^-$
Freyberger 96

$\rho^0\ \mu^-\ \mu^+$
Freyberger 96

$\omega\ e^-\ e^+$
Freyberger 96

$\omega\ \mu^-\ e^+$
Freyberger 96

$\omega\ \mu^+\ e^-$
Freyberger 96

$\omega\ \mu^-\ \mu^+$
Freyberger 96

$K^-\ e^+\ \nu$
Kubota 95

$\overline{K}^0\ e^-\ e^+$
Freyberger 96

$K^-\ e^+\ \nu_e$
Aitala 96E
Alexander 96S
Frabetti 96
Perasso 96
Semenov 96
Spaan 96
Butler 95
Freyberger 94

$\overline{K}^0\ \mu^-\ e^+$
Freyberger 96

$\overline{K}^0\ \mu^+\ e^-$
Freyberger 96

$\overline{K}^0\ \mu^-\ \mu^+$
Freyberger 96

$K^-\ \mu^+\ \nu_\mu$
Aitala 96E
Alexander 96S
Frabetti 96
Perasso 96
Frabetti 95H
Freyberger 94
Gibaut 94B
Johns 94
Kodama 94

$\overline{K}^*(892)^0\ e^-\ e^+$
Freyberger 96

$K^*(892)^-\ e^+\ \nu_e$
Freyberger 94
Semenov 94

D^0

$\overline{K}^*(892)^0\ \mu^-\ e^+$
Freyberger 96

$\overline{K}^*(892)^0\ \mu^+\ e^-$
Freyberger 96

$\overline{K}^*(892)^0\ \mu^-\ \mu^+$
Freyberger 96

$K^*(892)^-\ \mu^+\ \nu_\mu$
Moroni 94

$\phi(1020)\ e^-\ e^+$
Freyberger 96

$\phi(1020)\ \mu^-\ e^+$
Freyberger 96

$\phi(1020)\ \mu^+\ e^-$
Freyberger 96

$\phi(1020)\ \mu^-\ \mu^+$
Freyberger 96

$\overline{K}^0\ \pi^+\ \pi^-$
Wiss 96
Ross 95

$K^-\ \pi^+\ \pi^0$
Abe 96E
Abreu 96C
Alexander 96S
Barish 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96V
Lucchesi 96
Spaan 96
Wiss 96
Abe 95ZQ
Abreu 95S
Artuso 95B
Behnke 95
Buskulic 95C
Buskulic 95J
Duboscq 95
Gardner 95
Gibaut 95
Ross 95
Akers 94B
Alam 94C
Albrecht 94U
Athanas 94
Colas 94
Dejongh 94
Frabetti 94D
King 94
Kubota 94
Skarha 94
Alves 93
Alves 93B
Buskulic 93P
Sakuda 93

nonres $< K^-\ \pi^+\ \pi^0 >$
Wiss 96
Frabetti 94D

$K_S\ \pi^+\ \pi^-$
Bai 96
Buskulic 96Q
Buskulic 96W
Wiss 96
Asratyan 95
Buskulic 95S
Ressing 95
Albrecht 94L
Athanas 94
Dejongh 94
Frabetti 94D
Frabetti 94I
Litvintsev 94
Moroni 94

$K^+\ \overline{K}^0\ \pi^-$
Wiss 96

$K^+\ K^-\ \pi^0$
Asner 96

$K^0\ K^-\ \pi^+$
Wiss 96

$2K_S\ \pi^0$
Asner 96

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

D^0

$K^+ \overline{K}^0 K^-$
Wiss 96

$3K_S$
Asner 96
Wiss 96
Frabetti 94I

$K^*(892)^0 K^- \pi^+$
Aitala 97F
Frabetti 95B
Albrecht 94J
Danilov 94

$\overline{K}^*(892)^0 K^+ \pi^-$
Aitala 97F
Albrecht 94J
Danilov 94

$\phi(1020)\ 2\pi$
Danilov 94

$\phi(1020)\ \pi^+ \pi^-$
Aitala 97F
Frabetti 95B
Ross 95
Albrecht 94J
Semenov 94

$\overline{K}^0 \pi^- e^+ \nu_e$
Freyberger 94

$K^- \pi^0 e^+ \nu_e$
Freyberger 94

$K^*(892)^- \pi^0 e^+ \nu_e$
Semenov 94

$\overline{K}^*(892)^0 \pi^- \mu^+ \nu_\mu$
Gibaut 94B

$K^*(892)^- \pi^0 \mu^+ \nu_\mu$
Gibaut 94B

$2\pi^+ 2\pi^-$
Wiss 96
Frabetti 95B
Adamovich 94D

$K^+ \pi^+ 2\pi^-$
Wiss 96

$K^- 2\pi^+ \pi^-$
Aitala 98D
Aitala 98E
Aitala 97F
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Adamovich 96
Adamovich 96B
Alexander 96S
Bai 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96V
Buskulic 96W
Lucchesi 96
Nodulman 96
Semenov 96B
Wang 96
Wiss 96
Abreu 95L
Abreu 95S
Adamovich 95
Akers 95F
Akers 95R
Albrecht 95D
Albrecht 95H
Alexander 95C
Asratyan 95
Behnke 95
Blair 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Buskulic 95S
Frabetti 95I
Garbincius 95
Gardner 95
Gibaut 95
Papadimitrio 95
Ressing 95

D^0

Ross 95
Skarha 95
Adamovich 94D
Alam 94C
Albrecht 94L
Asratyan 94
Athanas 94
Colas 94
Dejongh 94
Frabetti 94E
Frabetti 94G
Johns 94
Litvintsev 94
Moroni 94
Semenov 94
Albrecht 93D
Alves 93
Alves 93B
Buskulic 93D
Buskulic 93P
Sakuda 93

$K^+ K^- \pi^+ \pi^-$
Aitala 97F
Wiss 96
Frabetti 95B
Albrecht 94J
Danilov 94
Litvintsev 94
Semenov 94

$2K_S \pi^+ \pi^-$
Albrecht 94J
Danilov 94
Litvintsev 94
Semenov 94

$K^+ 2K^- \pi^+$
Frabetti 95B
Johns 94

$\mu^- \mu^+$ hadron$^+$ hadron$^-$ neutral
Kodama 95

$K^- \pi^+ \pi^- \mu^+ \nu_\mu$
Gibaut 94B

$\overline{K}^0 2\pi^+ 2\pi^-$
Wiss 96

$K^- 2\pi^+ \pi^0 \pi^-$
Ross 95

$\overline{D}$

Halling 96
Slaughter 96
Garbincius 95
Moroni 94

$\overline{K}_1(1270)\ \mu^\pm \nu$
Abe 99D

$\overline{K}^*(1370)\ \mu^\pm \nu$
Abe 99D

$\overline{K}_2^*(1430)\ \mu^\pm \nu$
Abe 99D

$\overline{D}^0$

Abe 98O
Ackerstaff 98D
Adamovich 98
Athanas 98
Barate 98G
Barate 98K
Bartelt 98
Brandenburg 98
Athanas 97
Gibbons 97
Nemati 97
Ackerstaff 96R
Artuso 96
Bartelt 96B
Furtjes 96
Halling 96
Schmitt 96B
Slaughter 96
Wiss 96
Behnke 95
Karchin 95
Ross 95
Ukegawa 95
Albrecht 94N

$\overline{D}^0$

Byrum 94
Freyberger 94
Jones 94B
Payne 94
Purohit 94
Shochet 94
Skarha 94
Buskulic 93D
Buskulic 93P

$e^- \overline{\nu}$ X
Kubota 95

$e^- \nu_e$ X
Albrecht 95E

$\mu^- \nu_\mu$ X
Albrecht 95E

2charged (neutrals)
Aso 95

2hadron (hadrons)
Takashimizu 96

$K^+ \pi^-$ X
Enomoto 94
Enomoto 93

D^0
Aitala 98D
Aitala 96E

$e^- e^+$
Freyberger 96

$\mu^- e^+$
Freyberger 96

$\mu^+ e^-$
Freyberger 96

$\mu^- \mu^+$
Adamovich 97B
Freyberger 96
Adamovich 95B
Alexopoulos 95B
Mishra 94

$\pi^+ \pi^-$
Aitala 97E
Adamovich 94D
Moroni 94

$K^+ \pi$
Aitala 97E
Wormser 94

$K^+ \pi^-$
Aitala 98D
Aitala 98E
Barate 98P
Artuso 97B
Barate 97H
Coan 97B
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Adamovich 96
Adamovich 96B
Adloff 96B
Aid 96D
Aitala 96C
Alexander 96N
Alexander 96Q
Alexander 96S
Alves 96
Alves 96B
Bai 96
Barish 96
Bauer 96
Buskulic 96O
Buskulic 96Q
Buskulic 96R
Buskulic 96T
Buskulic 96V
Buskulic 96W
Kaplan 96
Kobel 96
Lucchesi 96
Nodulman 96
Spaan 96
Wang 96
Abreu 95L
Abreu 95S
Adamovich 95

$\overline{D}^0$

Akers 95F
Akers 95R
Albrecht 95D
Albrecht 95H
Alexander 95C
Artuso 95B
Asratyan 95
Bargende 95
Bartelt 95
Behnke 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Derrick 95
Duboscq 95
Frabetti 95I
Garbincius 95
Gibaut 95
Kubota 95
Papadimitrio 95
Ressing 95
Skarha 95
Adamovich 94D
Akers 94H
Albrecht 94L
Barreiro 94
Brisson 94B
Buskulic 94L
Dejongh 94
Frabetti 94C
Frabetti 94G
Frabetti 94I
Johns 94
Kuhlmann 94B
Leitch 94
Lewis 94B
Moroni 94
Abreu 93G
Sakuda 93

$K^- \pi^+$
Barate 98P
Bartelt 95
Bergfeld 94B

$K_S \pi^0$
Bartelt 95
Dejongh 94

$K^0 \overline{K}^0$
Asner 96
Wiss 96
Frabetti 94I

$K^+ K^-$
Aitala 97E
Asner 96
Bartelt 95
Adamovich 94D
Frabetti 94C
Moroni 94

$K^*(892)^0 \overline{K}^*(892)^0$
Aitala 97F
Frabetti 95B

$\phi(1020)\ \rho^0$
Aitala 97F
Frabetti 95B

$K_S \phi(1020)$
Bartelt 95

$\pi^+ e^- \overline{\nu}_e$
Spaan 96
Butler 95

$\pi^0 e^- e^+$
Freyberger 96

$\pi^0 \mu^- e^+$
Freyberger 96

$\pi^0 \mu^+ e^-$
Freyberger 96

$\pi^0 \mu^- \mu^+$
Freyberger 96
Kodama 95

$\eta e^- e^+$
Freyberger 96

$\eta \mu^- e^+$
Freyberger 96

$\overline{D}^0$

$\eta\ \mu^+\ e^-$
Freyberger 96
$\eta\ \mu^-\ \mu^+$
Freyberger 96
$\rho^0\ e^-\ e^+$
Freyberger 96
$\rho^0\ \mu^-\ e^+$
Freyberger 96
$\rho^0\ \mu^+\ e^-$
Freyberger 96
$\rho^0\ \mu^-\ \mu^+$
Freyberger 96
$\omega\ e^-\ e^+$
Freyberger 96
$\omega\ \mu^-\ e^+$
Freyberger 96
$\omega\ \mu^+\ e^-$
Freyberger 96
$\omega\ \mu^-\ \mu^+$
Freyberger 96
$K^+\ e^-\ \overline{\nu}$
Kubota 95
$K^+\ e^-\ \overline{\nu}_e$
Aitala 96E
Alexander 96S
Perasso 96
Spaan 96
Butler 95
$K^0\ e^-\ e^+$
Freyberger 96
$K^0\ \mu^-\ e^+$
Freyberger 96
$K^0\ \mu^+\ e^-$
Freyberger 96
$K^+\ \mu^-\ \overline{\nu}_\mu$
Aitala 96E
Alexander 96S
Perasso 96
Johns 94
$K^0\ \mu^-\ \mu^+$
Freyberger 96
$K^*(892)^0\ e^-\ e^+$
Freyberger 96
$K^*(892)^0\ \mu^-\ e^+$
Freyberger 96
$K^*(892)^0\ \mu^+\ e^-$
Freyberger 96
$K^*(892)^+\ \mu^-\ \overline{\nu}_\mu$
Moroni 94
$K^*(892)^0\ \mu^-\ \mu^+$
Freyberger 96
$\phi(1020)\ e^-\ e^+$
Freyberger 96
$\phi(1020)\ \mu^-\ e^+$
Freyberger 96
$\phi(1020)\ \mu^+\ e^-$
Freyberger 96
$\phi(1020)\ \mu^-\ \mu^+$
Freyberger 96
$K^+\ \pi^0\ \pi^-$
Abe 96E
Abreu 96C
Alexander 96S
Barish 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96V
Lucchesi 96
Spaan 96
Abreu 95S
Artuso 95B
Buskulic 95C
Buskulic 95J
Duboscq 95
Gibaut 95
Dejongh 94

$\overline{D}^0$

King 94
Sakuda 93
$K_S\ \pi^+\ \pi^-$
Bai 96
Buskulic 96Q
Buskulic 96W
Asratyan 95
Ressing 95
Albrecht 94L
Dejongh 94
Frabetti 94I
Moroni 94
$K^+\ K^-\ \pi^0$
Asner 96
$2K_S\ \pi^0$
Asner 96
$3K_S$
Asner 96
Frabetti 94I
$K^*(892)^0\ K^-\ \pi^+$
Aitala 97F
$\overline{K}^*(892)^0\ K^+\ \pi^-$
Aitala 97F
Frabetti 95B
$\phi(1020)\ \pi^+\ \pi^-$
Aitala 97F
Frabetti 95B
$2\pi^+\ 2\pi^-$
Frabetti 95B
Adamovich 94D
$K^+\ \pi^+\ 2\pi^-$
Aitala 98D
Aitala 98E
Aitala 97F
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Adamovich 96
Adamovich 96B
Alexander 96S
Bai 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96V
Buskulic 96W
Lucchesi 96
Nodulman 96
Wang 96
Abreu 95L
Abreu 95S
Adamovich 95
Akers 95F
Akers 95R
Albrecht 95D
Albrecht 95H
Alexander 95C
Asratyan 95
Blair 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Frabetti 95I
Garbincius 95
Gibaut 95
Papadimitrio 95
Ressing 95
Skarha 95
Adamovich 94D
Albrecht 94L
Albrecht 94U
Dejongh 94
Frabetti 94G
Moroni 94
Sakuda 93
$K^+\ K^-\ \pi^+\ \pi^-$
Aitala 97F
Frabetti 95B
$2K^+\ K^-\ \pi^-$
Frabetti 95B
$\mu^-\ \mu^+$ hadron$^+$ hadron$^-$ neutral
Kodama 95

D^-

Adamovich 98B
Barate 98G
Barate 98K
Bartelt 98
Apanasevich 97
Asner 97
Athanas 97
Bartelt 97B
Coan 97B
Gibbons 97
Artuso 96
Bartelt 96B
Buskulic 96V
Buskulic 96W
Halling 96
Schmitt 96B
Slaughter 96
Wiss 96
Behnke 95
Karchin 95
Ressing 95
Ross 95
Albrecht 94N
Dejongh 94
Freyberger 94
Johns 94
Jones 94B
Payne 94
Shochet 94
Buskulic 93P
$e^-\ X$
Luke 93
$\mu^-\ \overline{\nu}_\mu$
Bai 98J
Bai 96
$\eta\ \pi^-$
Jessop 97B
$\rho\ \pi^-$
Wiss 96
$\rho^0\ \pi^-$
Frabetti 97C
$\rho^-\ \eta$
Jessop 97B
$\eta'\ \pi^-$
Jessop 97B
$\eta'\ \rho^-$
Jessop 97B
$f_0(980)\ \pi^-$
Frabetti 97C
$f_2(1270)\ \pi^-$
Frabetti 97C
$K^0\ \pi^-$
Bishai 97
Frabetti 94J
$K_S\ \pi^-$
Bishai 97
Bai 96
Dejongh 94
$K^-\ \rho^0$
Aitala 97
Frabetti 95D
$K^0\ K^-$
Bishai 97
Frabetti 94J
$K_S\ K^-$
Bishai 97
$\overline{K}^*(892)^0\ \pi^-$
Aitala 97
Frabetti 95D
$K^*(892)^0\ K^-$
Aitala 96F
Wiss 96
Frabetti 95
Gardner 95
Frabetti 94C
$K^*(892)^-\ K^0$
Frabetti 94J
$\phi(1020)\ \pi^-$
Aitala 96F
Wiss 96
Frabetti 95
Frabetti 95E

D^-

Gardner 95
Adamovich 94D
Frabetti 94C
$K^-\ \phi(1020)$
Frabetti 95E
$\pi^+\ 2e^-$
Frabetti 97
$\pi^0\ e^-\ \overline{\nu}_e$
Bartelt 97
$\pi^-\ e^-\ e^+$
Frabetti 97
James 96
Aitala 95
$\pi^+\ \mu^-\ e^-$
Frabetti 97
$\pi^-\ \mu^-\ e^+$
Frabetti 97
$\pi^-\ \mu^+\ e^-$
Frabetti 97
$\pi^+\ 2\mu^-$
Frabetti 97
Kodama 95
$\pi^0\ \mu^-\ \overline{\nu}_\mu$
Bartelt 97
$\pi^-\ \mu^-\ \mu^+$
Frabetti 97
James 96
Aitala 95
Kodama 95
$\eta\ e^-\ \overline{\nu}_e$
Bartelt 97
$\eta\ \mu^-\ \overline{\nu}_\mu$
Bartelt 97
$\rho^0\ e^-\ \overline{\nu}_e$
Aitala 96D
$\rho^0\ \mu^-\ \overline{\nu}_\mu$
Aitala 96D
$\rho^-\ \mu^-\ \mu^+$
Kodama 95
$K^+\ 2e^-$
Frabetti 97
$K^0\ e^-\ \overline{\nu}_e$
Bartelt 97
$K^-\ e^-\ e^+$
Frabetti 97
$K^+\ \mu^-\ e^-$
Frabetti 97
$K^-\ \mu^-\ e^+$
Frabetti 97
$K^-\ \mu^+\ e^-$
Frabetti 97
$K^+\ 2\mu^-$
Frabetti 97
$K^0\ \mu^-\ \overline{\nu}_\mu$
Bartelt 97
$K^-\ \mu^-\ \mu^+$
Frabetti 97
$K^*(892)^0\ e^-\ \overline{\nu}_e$
Aitala 97D
Aitala 96D
Perasso 96
$K^*(892)^0\ \mu^-\ \overline{\nu}_\mu$
Adamovich 98C
Aitala 96D
Perasso 96
Moroni 94
$\pi^+\ 2\pi^-$
Frabetti 97C
Aitala 96F
James 96
Wiss 96
Aitala 95
Adamovich 94D
Moroni 94
$K^+\ 2\pi^-$
Aitala 98E
Aitala 97
Bishai 97
Frabetti 97C
Adamovich 96
Adamovich 96B
Aitala 96
Aitala 96C

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

D^-

Alexander 96Q
Alexander 96S
Alves 96
Alves 96B
Bai 96
Buskulic 96O
Buskulic 96Q
James 96
Kobel 96
Wiss 96
Abreu 95L
Adamovich 95
Aitala 95
Akers 95F
Akers 95R
Alexander 95C
Behnke 95
Buskulic 95L
Frabetti 95D
Frabetti 95I
Garbincius 95
Gibaut 95
Adamovich 94D
Appel 94
Asratyan 94
Carter 94
Carter 94B
Chudakov 94
Dejongh 94
Frabetti 94G
King 94
Moroni 94
Wormser 94
Abreu 93G

$K^- \pi^+ \pi^-$
Aitala 97
James 96
Frabetti 95D
Adamovich 94D

$K^+ K^- \pi^-$
Aitala 96F
Wiss 96
Frabetti 95
Gardner 95
Frabetti 94C
Moroni 94

$K^+ 2K^-$
Frabetti 95E
Adamovich 94D

$K^*(892)^+ 2\pi^-$
Aleev 93C

$K^*(892)^0 \rho^0 \pi^-$
Frabetti 97B

$K_S \pi^+ 2\pi^-$
Aleev 93C

$K^+ \rho^0 2\pi^-$
Frabetti 97B

$K^*(892)^0 \pi^+ 2\pi^-$
Frabetti 97B

$2\pi^+ 3\pi^-$
Frabetti 97B
Wiss 96
Moroni 94

$K^+ \pi^+ 3\pi^-$
Frabetti 97B

D^*

Athanas 94

$D^*(2010)^\pm$

Breitweg 98E
Halling 96
Behnke 95
Gardner 95
Enomoto 94
Frabetti 94C
Alves 93
Alves 93B
Buskulic 93P
Enomoto 93

$D^0 \pi^\pm$
Akers 94S

$D^*(2010)^+$

Adinolfi 99
Abbiendi 98F
Abe 98O
Abreu 98D
Adloff 98H
Artuso 98
Bai 98J
Barate 98G
Barate 98K
Brandenburg 98
Ackerstaff 97O
Aitala 97E
Artuso 97
Asner 97
Asratyan 97
Brandenburg 97
Breitweg 97F
Breitweg 97G
Artuso 96
Bartelt 96B
Checchia 96
Eisenberg 96
Furtjes 96
Halling 96
Ohyama 96
Schmitt 96B
Slaughter 96
Akers 95F
Behnke 95
Ross 95
Ukegawa 95
Abreu 94K
Akers 94G
Avery 94
Byrum 94
Jones 94B
Payne 94
Shochet 94
Strohmer 94

π^+ charm
Abe 95ZN

$D^+ \gamma$
Bartelt 97B
Ressing 95
Albrecht 94N

$D^+ \pi^0$
Bartelt 97B
Bai 96
Albrecht 94N
Asratyan 94
Athanas 94
Balest 94
Dejongh 94
Freyberger 94
Moroni 94

$D^0 \pi^+$
Aitala 98D
Barate 98P
Breitweg 98E
Artuso 97B
Barate 97H
Gibbons 97
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Ackerstaff 96R
Adloff 96B
Aid 96D
Aitala 96C
Aitala 96E
Alexander 96N
Alexander 96S
Alves 96B
Bai 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96T
Buskulic 96V
Buskulic 96W
Frabetti 96
Freyberger 96

$D^*(2010)^+$

Kobel 96
Lucchesi 96
Nodulman 96
Semenov 96B
Spaan 96
Takashimizu 96
Wang 96
Wang 96B
Abe 95ZQ
Abreu 95L
Abreu 95S
Akers 95R
Albrecht 95H
Alexander 95C
Artuso 95B
Aso 95
Asratyan 95
Bargende 95
Bartelt 95
Behnke 95
Blair 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Buskulic 95S
Butler 95
Derrick 95
Duboscq 95
Frabetti 95I
Garbincius 95
Gardner 95
Gibaut 95
Kubota 95
Papadimitrio 95
Ressing 95
Skarha 95
Akers 94B
Alam 94C
Albrecht 94I
Albrecht 94L
Albrecht 94N
Albrecht 94U
Asratyan 94
Athanas 94
Balest 94
Barish 94
Barreiro 94
Brisson 94B
Buskulic 94L
Colas 94
Danilov 94
Dejongh 94
Enomoto 94
Frabetti 94C
Frabetti 94D
Frabetti 94E
Frabetti 94I
Freyberger 94
King 94
Kodama 94
Kuhlmann 94B
Lewis 94B
Litvintsev 94
Moroni 94
Purohit 94
Semenov 94
Skarha 94
Abreu 93G
Albrecht 93D
Alves 93
Alves 93B
Buskulic 93D
Buskulic 93P
Cinabro 93B
Enomoto 93
Sakuda 93

$K^+ \pi^+ \pi^-$
Purohit 94

$K^- 2\pi^+$
Purohit 94

$D^*(2007)^0$

Ackerstaff 98D
Barate 98G

$D^*(2007)^0$

Brandenburg 97
Nemati 97
Bartelt 96B
Furtjes 96
Schmitt 96B
Slaughter 96
Behnke 95
Ross 95
Danilov 94
Jones 94B
Payne 94

$K^- \pi^+$
Alam 94C

$K^*(892)^- \pi^+$
Asratyan 94

π^+ charm
Abe 95ZN

$D^0 \gamma$
Albrecht 94N
Asratyan 94
Brown 94
Lecompte 94

$D^+ \pi^-$
Buskulic 93P

$D^0 \pi^0$
Gibbons 97
Buskulic 96Q
Semenov 96B
Gibaut 95
Alam 94C
Albrecht 94N
Asratyan 94
Athanas 94
Barish 94
Bergfeld 94B
Dejongh 94
Frabetti 94E
Kubota 94
Lecompte 94

$K^- \pi^+ \pi^0$
Alam 94C

$K^- 2\pi^+ \pi^-$
Alam 94C

$\overline{D}^*(2007)^0$

Ackerstaff 98D
Barate 98G
Brandenburg 97
Nemati 97
Bartelt 96B
Furtjes 96
Schmitt 96B
Slaughter 96
Behnke 95
Jones 94B
Payne 94
Buskulic 93P

$\pi^- \overline{\text{charm}}$
Abe 95ZN

$\overline{D}^0 \gamma$
Albrecht 94N

$\overline{D}^0 \pi^0$
Gibbons 97
Buskulic 96Q
Gibaut 95
Albrecht 94N
Albrecht 94U
Bergfeld 94B
Dejongh 94

$D^*(2010)^-$

Adinolfi 99
Abbiendi 98F
Abe 98O
Abreu 98D
Adloff 98H
Artuso 98
Bai 98J
Barate 98G
Barate 98K
Brandenburg 98
Ackerstaff 97O
Aitala 97E

$D^*(2010)^-$

Artuso 97
Asner 97
Brandenburg 97
Breitweg 97F
Breitweg 97G
Artuso 96
Bartelt 96B
Checchia 96
Eisenberg 96
Furtjes 96
Halling 96
Ohyama 96
Schmitt 96B
Slaughter 96
Akers 95F
Behnke 95
Ross 95
Ukegawa 95
Abreu 94K
Akers 94B
Akers 94G
Byrum 94
Jones 94B
Payne 94
Shochet 94
Skarha 94
Strohmer 94
Buskulic 93D
Buskulic 93P

$\pi^- \overline{\text{charm}}$

Abe 95ZN

$D^- \gamma$

Bartelt 97B
Ressing 95
Albrecht 94N

$\overline{D}^0 \pi^-$

Aitala 98D
Barate 98P
Artuso 97B
Barate 97H
Gibbons 97
Abe 96E
Abe 96M
Abreu 96C
Abreu 96V
Ackerstaff 96J
Ackerstaff 96R
Adloff 96B
Aid 96D
Aitala 96C
Aitala 96E
Alexander 96N
Alexander 96S
Alves 96B
Bai 96
Bauer 96
Buskulic 96Q
Buskulic 96R
Buskulic 96T
Buskulic 96V
Buskulic 96W
Freyberger 96
Kobel 96
Lucchesi 96
Nodulman 96
Spaan 96
Takashimizu 96
Wang 96
Abreu 95L
Abreu 95S
Akers 95R
Albrecht 95H
Alexander 95C
Artuso 95B
Aso 95
Asratyan 95
Bargende 95
Bartelt 95
Behnke 95
Blair 95
Buskulic 95C
Buskulic 95J
Buskulic 95L
Butler 95

$D^*(2010)^-$

Derrick 95
Duboscq 95
Frabetti 95I
Garbincius 95
Gibaut 95
Kubota 95
Papadimitrio 95
Ressing 95
Skarha 95
Akers 94H
Albrecht 94L
Albrecht 94N
Barreiro 94
Brisson 94B
Buskulic 94L
Dejongh 94
Enomoto 94
Frabetti 94I
King 94
Kuhlmann 94B
Lewis 94B
Moroni 94
Abreu 93G
Enomoto 93
Sakuda 93

$D^- \pi^0$

Bartelt 97B
Bai 96
Albrecht 94N
Asratyan 94
Dejongh 94
Moroni 94

D^* (unspec)

Tokushuku 98

$D_s^\pm$

Semenov 96
Wallace 94

D_s^+

Abe 99D
Abe 99E
Abe 98G
Adamovich 98B
Ackerstaff 97N
Ackerstaff 97ZF
Aitala 97B
Aitala 97C
Barate 97ZB
Bishai 97B
Bartelt 96B
Halling 96
Semenov 96
Slaughter 96
Karchin 95
Shochet 94

e^+ X

Bai 97

$\phi(1020)$ X

Bai 98

$\mu^+ \nu_\mu$

Chadha 97
Kodama 96
Bai 94
Fan 94B
Freyberger 94
Garbincius 94
Acosta 93

$\tau^+ \nu_\tau$

Annis 98
Acciarri 96L
Bai 94
Garbincius 94

$\eta \pi^+$

Balest 97
Jessop 97B
Gibaut 95
Muheim 93B

$\rho^0 \pi^+$

Frabetti 97C

$\rho^+ \eta$

Jessop 97B

D_s^+

Gibaut 95
Muheim 93B

$\omega \pi^+$

Balest 97

$\eta' \pi^+$

Jessop 97B
Muheim 93B

$\eta' \rho^+$

Jessop 97B

$f_0(980) \pi^+$

Bai 98
Frabetti 97C
Wiss 96
Frabetti 95
Gardner 95
Muheim 93B

$f_2(1270) \pi^+$

Frabetti 97C

$f_0(1500) \pi^+$

Frabetti 97C

$f_J(1710) \pi^+$

Wiss 96
Frabetti 95
Gardner 95

$K^0 \pi^+$

Frabetti 94J

$K^+ \rho^0$

Frabetti 95D

$K^+ \overline{K}^0$

Bai 98
Gibaut 95
Frabetti 94J
Muheim 93B

$K^+ K_S$

Abreu 96O
Buskulic 96U
Bai 94
Bai 94B

$K^*(892)^0 \pi^+$

Frabetti 95D

$K^*(892)^+ \overline{K}^0$

Abreu 94I
Frabetti 94J
Muheim 93B

$\overline{K}^*(892)^0 K^+$

Bai 98
Abreu 96O
Alexander 96Q
Alves 96
Buskulic 96U
Wiss 96
Akers 95P
Frabetti 95
Garbincius 95
Gardner 95
Gibaut 95
Abreu 94I
Bai 94
Bai 94B
Fan 94B

$K^*(892)^+ \overline{K}^*(892)^0$

Muheim 93B

$\overline{K}_0^*(1430)^0 K^+$

Wiss 96
Frabetti 95
Gardner 95

$\phi(1020) \pi^+$

Aitala 98
Bai 98
Chadha 97
Jessop 97B
Abreu 96O
Adamovich 96B
Alexander 96Q
Alves 96
Alves 96B
Bauer 96
Buskulic 96O
Buskulic 96U
Semenov 96
Wiss 96
Akers 95P
Artuso 95B

D_s^+

Buskulic 95I
Derwent 95
Frabetti 95
Frabetti 95D
Frabetti 95E
Garbincius 95
Gardner 95
Gibaut 95
Gronberg 95
Skarha 95
Abe 94X
Abe 94ZH
Abreu 94
Abreu 94I
Adamovich 94D
Appel 94
Bai 94
Bai 94B
Brown 94
Butler 94
Fan 94B
Freyberger 94
Johns 94
Jones 94B
Lecompte 94
Lewis 94B
Skarha 94
Wormser 94
Acosta 93
Muheim 93B

$\phi(1020) \rho^+$

Gibaut 95
Muheim 93B

$K^+ \phi(1020)$

Frabetti 95E

$\eta e^+ \nu$

Semenov 96

$\eta e^+ \nu_e$

Brandenburg 95

$\eta \mu^+ \nu_\mu$

Brandenburg 95
Gibaut 94B

$\eta' e^+ \nu$

Semenov 96

$\eta' e^+ \nu_e$

Brandenburg 95

$\eta' \mu^+ \nu_\mu$

Brandenburg 95
Gibaut 94B

$\phi(1020) \ell^+ \nu$

Buskulic 96U

$\phi(1020) e^+ \nu$

Semenov 96

$\phi(1020) e^+ \nu_e$

Aitala 98B
Perasso 96
Brandenburg 95
Avery 94B
Butler 94

$\phi(1020) \mu^+ \nu_\mu$

Aitala 98B
Kodama 96
Perasso 96
Brandenburg 95
Butler 94
Frabetti 94
Gibaut 94B
Moroni 94

$2\pi^+ \pi^-$

Frabetti 97C
James 96
Wiss 96
Aitala 95
Adamovich 94D
Moroni 94
Muheim 93B

$K^+ \pi^+ \pi^-$

James 96
Frabetti 95D
Frabetti 95E

$K^+ K^- \pi^+$

Frabetti 97C

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

D_s^+

Kobel 96
Wiss 96
Frabetti 95
Frabetti 95D
Frabetti 95I
Gardner 95
Johns 94
Moroni 94
Muheim 93B

$K^0\ K^-\ 2\pi^+$
Bai 98

$\phi(1020)\ 2\pi^+\ \pi^-$
Frabetti 97B
Buskulic 96U
Muheim 93B

$3\pi^+\ 2\pi^-$
Frabetti 97B
Wiss 96

$K^+\ K^-\ 2\pi^+\ \pi^-$
Frabetti 97B

D_s^-

Abe 99D
Abe 99E
Abe 98G
Adamovich 98B
Barate 98G
Ackerstaff 97N
Ackerstaff 97ZF
Aitala 97B
Aitala 97C
Barate 97ZB
Bishai 97B
Bartelt 96B
Halling 96
Slaughter 96
Karchin 95
Ross 95
Shochet 94

e^- X
Bai 97

$\phi(1020)$ X
Bai 98

$\mu^-\ \overline{\nu}_\mu$
Chadha 97
Kodama 96
Bai 94
Fan 94B

$\tau^-\ \overline{\nu}_\tau$
Acciarri 96L
Bai 94

$\eta\ \pi^-$
Balest 97
Jessop 97B
Gibaut 95

$\rho^0\ \pi^-$
Frabetti 97C

$\rho^-\ \eta$
Jessop 97B
Gibaut 95

$\omega\ \pi^-$
Balest 97

$\eta'\ \pi^-$
Jessop 97B

$\eta'\ \rho^-$
Jessop 97B

$f_0(980)\ \pi^-$
Bai 98
Frabetti 97C
Wiss 96
Frabetti 95
Gardner 95

$f_2(1270)\ \pi^-$
Frabetti 97C

$f_0(1500)\ \pi^-$
Frabetti 97C

$f_J(1710)\ \pi^-$
Wiss 96
Frabetti 95
Gardner 95

$\overline{K}^0\ \pi^-$
Frabetti 94J

D_s^-

$K^-\ \rho^0$
Frabetti 95D

$K^0\ K^-$
Bai 98
Gibaut 95
Frabetti 94J

$K_S\ K^-$
Abreu 96O
Buskulic 96U
Buskulic 95T
Bai 94
Bai 94B

$\overline{K}^*(892)^0\ \pi^-$
Frabetti 95D

$K^*(892)^0\ K^-$
Bai 98
Abreu 96O
Alexander 96Q
Alves 96
Buskulic 96U
Akers 95P
Buskulic 95T
Garbincius 95
Gardner 95
Gibaut 95
Abreu 94I
Akers 94H
Bai 94
Bai 94B
Buskulic 94B

$K^*(892)^-\ K^0$
Abreu 94I
Frabetti 94J

$\overline{K}^*(892)^0\ K^-$
Wiss 96
Frabetti 95

$K^*(892)^0\ K^*(892)^-$
Buskulic 95T

$K_0^*(1430)^0\ K^-$
Gardner 95

$\overline{K}_0^*(1430)^0\ K^-$
Wiss 96
Frabetti 95

$\phi(1020)\ \pi^-$
Aitala 98
Bai 98
Chadha 97
Jessop 97B
Abreu 96O
Adamovich 96B
Alexander 96Q
Alves 96
Alves 96B
Bauer 96
Buskulic 96O
Buskulic 96U
Wiss 96
Akers 95P
Artuso 95B
Buskulic 95I
Buskulic 95T
Derwent 95
Frabetti 95
Frabetti 95D
Frabetti 95E
Garbincius 95
Gardner 95
Gibaut 95
Gronberg 95
Skarha 95
Abe 94X
Abe 94ZH
Abreu 94I
Adamovich 94D
Akers 94H
Appel 94
Bai 94
Bai 94B
Buskulic 94B
Fan 94B
Jones 94B
Lewis 94B
Mueller 94

D_s^-

Skarha 94
Wormser 94
Muheim 93B

$\phi(1020)\ \rho^-$
Gibaut 95

$K^-\ \phi(1020)$
Frabetti 95E

$\eta\ e^-\ \overline{\nu}_e$
Brandenburg 95

$\eta\ \mu^-\ \overline{\nu}_\mu$
Brandenburg 95

$\eta'\ e^-\ \overline{\nu}_e$
Brandenburg 95

$\eta'\ \mu^-\ \overline{\nu}_\mu$
Brandenburg 95

$\phi(1020)\ \ell^-\ \overline{\nu}$
Buskulic 96U

$\phi(1020)\ e^-\ \overline{\nu}_e$
Perasso 96
Brandenburg 95
Buskulic 95T
Avery 94B

$\phi(1020)\ \mu^-\ \overline{\nu}_\mu$
Kodama 96
Perasso 96
Brandenburg 95
Buskulic 95T
Moroni 94

$\pi^+\ 2\pi^-$
Frabetti 97C
James 96
Wiss 96
Aitala 95
Adamovich 94D
Moroni 94

$K^-\ \pi^+\ \pi^-$
James 96
Frabetti 95D
Frabetti 95E

$K^+\ K^-\ \pi^-$
Frabetti 97C
Kobel 96
Wiss 96
Frabetti 95
Frabetti 95D
Frabetti 95I
Gardner 95
Moroni 94

$K^+\ \overline{K}^0\ 2\pi^-$
Bai 98

$\phi(1020)\ \pi^+\ 2\pi^-$
Frabetti 97B
Buskulic 96U
Buskulic 95T

$2\pi^+\ 3\pi^-$
Frabetti 97B
Wiss 96

$K^+\ K^-\ \pi^+\ 2\pi^-$
Frabetti 97B

D_s^*

$D_s^+\ \pi^+\ \gamma$
Acosta 93

D_s^{*+}

Ackerstaff 98D

$D_s^+\ \gamma$
Annis 98
Acciarri 96L
Bartelt 96B
Buskulic 96U
Artuso 95B
Gibaut 95
Gronberg 95
Brown 94
Muheim 93B

$D_s^+\ \pi^0$
Bartelt 96B
Buskulic 96U
Gronberg 95

D_s^{*-}

Ackerstaff 98D

$D_s^-\ \gamma$
Acciarri 96L
Bartelt 96B
Buskulic 96U
Artuso 95B
Gibaut 95
Gronberg 95
Muheim 93B

$D_s^-\ \pi^0$
Bartelt 96B
Buskulic 96U
Gronberg 95

$D_1(2420)^+$

$D^0\ \pi^+$
Bartelt 96B

$D^*(2007)^0\ \pi^+$
Bartelt 96B
Buskulic 96Q
Furtjes 96
Semenov 96B
Bergfeld 94B

$D_1(2420)^0$

Ackerstaff 97Y
Anastassov 97
Alam 94C

$D^+\ \pi^-$
Bartelt 96B
Ross 95

$D^*(2010)^+\ \pi^-$
Abreu 98D
Buskulic 96Q
Furtjes 96
Asratyan 95
Behnke 95
Albrecht 94I
Avery 94
Buskulic 94L
Colas 94
Moroni 94
Buskulic 93P

$\overline{D}_1(2420)^0$

Ackerstaff 97Y
Anastassov 97
Behnke 95
Buskulic 93P

$D^-\ \pi^+$
Bartelt 96B

$D^*(2010)^-\ \pi^+$
Abreu 98D
Buskulic 96Q
Furtjes 96
Asratyan 95
Moroni 94

$D_1(2420)^-$

$\overline{D}^0\ \pi^-$
Bartelt 96B

$\overline{D}^*(2007)^0\ \pi^-$
Bartelt 96B
Buskulic 96Q
Furtjes 96
Bergfeld 94B

$D_J(2440)^+$

$D^0\ \pi^+$
Kobel 96
Akers 95F

$D_J(2440)^0$

$D^+\ \pi^-$
Ross 95

$D^*(2010)^+\ \pi^-$
Kobel 96
Akers 95F

$\overline{D}_J(2440)^0$

$D^*(2010)^- \pi^+$
Kobel 96
Akers 95F

$D_J(2440)^-$

$\overline{D}^0 \pi^-$
Kobel 96
Akers 95F
Ross 95

$D_2^*(2460)$

$D^*(2007)^0 \pi^+$
Semenov 96B

$D_2^*(2460)^+$

$D^0 \pi^+$
Bartelt 96B
Buskulic 96Q
Furtjes 96
Kobel 96
Akers 95F
Bergfeld 94B
Frabetti 94E
Moroni 94

$D^*(2007)^0 \pi^+$
Bartelt 96B
Furtjes 96
Bergfeld 94B

$D_2^*(2460)^0$

Ackerstaff 97Y
Anastassov 97
Alam 94C

$D^+ \pi^-$
Bartelt 96B
Buskulic 96Q
Kobel 96
Akers 95F
Avery 94
Frabetti 94E
Moroni 94

$D^*(2010)^+ \pi^-$
Abreu 98D
Bartelt 96B
Buskulic 96Q
Furtjes 96
Asratyan 95
Behnke 95
Albrecht 94I
Avery 94
Buskulic 94L
Colas 94
Frabetti 94E
Buskulic 93P

$\overline{D}_2^*(2460)^0$

Ackerstaff 97Y
Anastassov 97
Behnke 95
Buskulic 93P

$D^- \pi^+$
Bartelt 96B
Buskulic 96Q
Kobel 96
Akers 95F
Moroni 94

$D^*(2010)^- \pi^+$
Abreu 98D
Bartelt 96B
Buskulic 96Q
Furtjes 96
Asratyan 95

$D_2^*(2460)^-$

$\overline{D}^0 \pi^-$
Bartelt 96B
Buskulic 96Q
Furtjes 96
Kobel 96
Akers 95F
Bergfeld 94B
Moroni 94

$D_2^*(2460)^-$

$\overline{D}^*(2007)^0 \pi^-$
Bartelt 96B
Furtjes 96
Bergfeld 94B

$D_{s1}(2536)^+$

Ackerstaff 97Y
Bishai 97B

$D^0 K^+$
Bartelt 96B
Danilov 94

$D^*(2010)^+ K^0$
Asratyan 94
Frabetti 94E

$D^*(2007)^0 K^+$
Bartelt 96B
Asratyan 94
Frabetti 94E

$D_{s1}(2536)^-$

Ackerstaff 97Y
Bishai 97B

$\overline{D}^0 K^-$
Bartelt 96B

$D^*(2010)^- \overline{K}^0$
Asratyan 94

$\overline{D}^*(2007)^0 K^-$
Bartelt 96B

$D_{sJ}(2564)^+$

$D^0 K^+$
Danilov 94

$D^*(2007)^0 K^+$
Danilov 94

$D_{sJ}(2573)$

Semenov 96B

$D_{sJ}(2573)^+$

$D^0 K^+$
Bartelt 96B
Albrecht 95D
Kubota 94

$\overline{D}^0 K^-$
Bartelt 96B

$D^*(2007)^0 K^+$
Bartelt 96B
Kubota 94

$\overline{D}^*(2007)^0 K^-$
Bartelt 96B

$D_{sJ}(2573)^-$

Bartelt 96B

$\overline{D}^0 K^-$
Albrecht 95D

$D^*(2600)^+$

$D^*(2010)^+ \pi^+ \pi^-$
Abreu 98D

$D^*(2600)^-$

$D^*(2010)^- \pi^+ \pi^-$
Abreu 98D

$\eta_c(1S)$

Bai 98F
Semenov 96

2γ
Pordes 96
Armstrong 95
Albrecht 94M
Cester 94
Gollwitzer 94
Menichetti 94

$2\phi(1020)$
Albrecht 94M
Balest 94C

$p \overline{p}$
Burnett 96

$\eta_c(1S)$

$K^+ K_S \pi^-$
Albrecht 94M

$K_S K^- \pi^+$
Albrecht 94M

$K^+ K^- \phi(1020)$
Albrecht 94M

$2\pi^+ 2\pi^-$
Albrecht 94M

$K^+ \pi^+ 2\pi^-$
Albrecht 94M

$K^- 2\pi^+ \pi^-$
Albrecht 94M

$K^+ K^- \pi^+ \pi^-$
Albrecht 94M

$2K^+ 2K^-$
Albrecht 94M

$J/\psi(1S)$

Abreu 99F
Gu 99
Abbott 98K
Abe 98E
Abe 98F
Abe 98N
Abe 98P
Abreu 98G
Abreu 98I
Abreu 98P
Abreu 98R
Acciarri 98S
Acciarri 98ZB
Ackerstaff 98
Ackerstaff 98V
Baglin 98
Bai 98B
Bai 98H
Baldini 98
Breitweg 98K
Singh 98
Tokushuku 98
Abe 97
Abe 97F
Abe 97ZI
Abreu 97S
Abreu 97T
Acciarri 97F
Ackerstaff 97ZB
Alexopoulos 97
Angelis 97
Armstrong 97C
Breitweg 97E
Jessop 97
Baarmand 96
Baglin 96C
Buskulic 96V
Gerhards 96
Huffman 96
Keranen 96
Lewis 96
Lucchesi 96
Semenov 96
Slaughter 96
Abe 95T
Albajar 95
Anwaywiese 95
Arneodo 95D
Baglin 95
Conrad 95
Gerschel 95
Gribushin 95
Lourenco 95
Ross 95
Akers 94H
Alam 94C
Albrecht 94P
Anwaywiese 94
Bailey 94
Barker 94
Bazizi 94
Brisson 94B
Cdfcollabora 94B
Cdfcollabora 94E
Garbincius 94
Payne 94

$J/\psi(1S)$

Shevchenko 94
Wormser 94

X
Bai 96C
Bai 95B

hadron (hadrons)
Bai 95B

$\ell^+ \ell^-$
Aid 96C
Shelkov 93

$e^- e^+$
Bai 98C
Adloff 97L
Barate 97I
Breitweg 97C
Abreu 96Z
Acciarri 96J
Alexander 96E
Bai 96C
Grab 96
Pordes 96
Abreu 95O
Alexander 95E
Bai 95B
Bishai 95B
Derrick 95F
Jung 95
Lamberti 95
Mass 95
Abreu 94M
Ahmed 94D
Alexander 94B
Athanas 94
Balest 94C
Barreiro 94
Cester 94
Gollwitzer 94
Haas 94
Menichetti 94
Shochet 94

$\mu^- \mu^+ + e^- e^+$
Behnke 95

$\mu^- \mu^+$
Bai 98C
Adloff 97L
Barate 97I
Breitweg 97C
Abachi 96
Abachi 96H
Abe 96H
Abe 96K
Abe 96N
Abe 96P
Abreu 96F
Abreu 96Z
Acciarri 96J
Aid 96K
Alexander 96E
Bai 96C
Barnett 96
Bauer 96
Demina 96
Grab 96
Kaplan 96
Koreshev 96
Laasanen 96
Meschi 96
Miao 96
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Speer 96
Tkaczyk 96
Wang 96
Wenzel 96B
Yu 96B
Abachi 95ZB
Abachi 95ZL
Abe 95E
Abe 95N
Abe 95O
Abe 95P
Abe 95R

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$J/\psi(1S)$

Abe 95X
Abe 95ZB
Abe 95ZC
Abe 95ZI
Abreu 95O
Alexander 95E
Alexopoulos 95B
Alexopoulos 95D
Baglin 95B
Bai 95B
Bauer 95
Bazizi 95
Bishai 95B
Derrick 95F
Derwent 95
Garbincius 95
Jung 95
Lamberti 95
Leitch 95
Markosky 95
Mass 95
Papadimitrio 95
Sansoni 95
Schub 95
Skarha 95
Tserruya 95
Abe 94D
Abe 94X
Abe 94ZF
Abe 94ZH
Abreu 94I
Abreu 94M
Ahmed 94D
Alexopoulos 94B
Antoniazzi 94
Antoniazzi 94B
Anwaywiese 94
Arneodo 94
Athanas 94
Baglin 94
Balest 94C
Barreiro 94
Byrum 94
Cdfcollabora 94F
Daniels 94
Dejongh 94
Garbincius 94
Haas 94
Hara 94
Hedin 94
Jansen 94
Jesik 94
Karen 94
Kim 94
Kowitt 94
Lewis 94
Lourenco 94
Mishra 94
Mueller 94
Plunkett 94
Shochet 94
Skarha 94
Abe 93N
Lourenco 93
Arneodo 92

$\text{meson}^0\ \gamma$
Bai 96B
Bertolotto 94

$f_0(980)\ \omega$
Fan 94B

$f_2(1270)\ \gamma$
Montanet 95

$f_1(1420)\ \gamma$
Bai 98K
Bai 95C

$\eta(1440)\ \gamma$
Bai 98K
Huang 96
Bai 95C

$f_1(1510)^0\ \gamma$
Bai 95C

$f_2'(1525)\ \gamma$
Bai 96B

$J/\psi(1S)$

$f_J(1710)\ \gamma$
Montanet 95
Bai 96B

$\eta(1760)\ \gamma$
Montanet 95
Bai 98K

$f_0(2200)\ \gamma$
Montanet 95
Fan 94
Fan 94B

$f_J(2220)\ \gamma$
Bai 96D
Burnett 96
Jin 96
Montanet 95

$\phi(1020)\ f_0(980)$
Fan 94B

$\eta_c(1S)\ \gamma$
Burnett 96

γ glueball
Bai 96D
Jin 96

$n\ \overline{n}$
Antonelli 98

$p\ \overline{p}$
Antonelli 98

$\Lambda\ \overline{\Lambda}$
Bai 98I

$e^-\ e^+\ \gamma$
Armstrong 96B

$2\pi^0\ \gamma$
Bai 98G

$\pi^+\ \pi^-\ \gamma$
Montanet 95

$\pi^+\ \pi^0\ \pi^-$
Achasov 96

$2\eta\ \gamma$
Jin 96
Fan 94
Fan 94B

$K^+\ K^-\ \gamma$
Bai 96B
Jin 96
Montanet 95
Fan 94
Fan 94B

$2K_S\ \gamma$
Jin 96
Fan 94
Fan 94B

$2\phi(1020)\ \gamma$
Bertolotto 94

$p\ \overline{p}\ \gamma$
Burnett 96

$\Lambda\ \overline{\Lambda}\ \gamma$
Bai 98I

$\Lambda\ \overline{\Lambda}\ \pi^0$
Bai 98I

$f_2(1270) < 2\pi^0 > \gamma$
Bai 98G

$f_J(1710) < 2\pi^0 > \gamma$
Bai 98G

$K^+\ K^-\ \pi^0\ \gamma$
Bai 98K
Huang 96
Bai 95C

$K^+\ K_S\ \pi^-\ \gamma$
Huang 96

$K^+\ K_S\ \pi^-\ \gamma + K_S\ K^-\ \pi^+\ \gamma$
Bai 95C

$K_S\ K^-\ \pi^+\ \gamma$
Huang 96

γ glueball $< 2\pi^0 >$
Bai 98G

5γ
Jin 96
Fan 94
Fan 94B

$K^+\ K_S\ K_L\ K^-\ \gamma$
Bertolotto 94

$\chi_{c0}(1P)$

$\pi^+\ \pi^-$
Bai 98E

$K^+\ K^-$
Bai 98E

$2\phi(1020)$
Bai 98F

$p\ \overline{p}$
Bai 98E

$K^+\ K_S\ \pi^- + K_S\ K^-\ \pi^+$
Bai 98F

$2\pi^+\ 2\pi^-$
Bai 98F

$K^+\ K^-\ \pi^+\ \pi^-$
Bai 98F

$2K_S\ \pi^+\ \pi^-$
Bai 98F

$2K^+\ 2K^-$
Bai 98F

$p\ \overline{p}\ \pi^+\ \pi^-$
Bai 98F

$3\pi^+\ 3\pi^-$
Bai 98F

$\chi_{c1}(1P)$

Acciarri 97F
Semenov 96
Abe 95T
Alam 94C

$J/\psi(1S)\ \mathrm{X}$
Pordes 96
Menichetti 94

$e^-\ e^+\ \mathrm{X}$
Gollwitzer 94

$2\phi(1020)$
Bai 98F

$J/\psi(1S)\ \gamma$
Barnett 96
Demina 96
Koreshev 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Wang 96
Bauer 95
Derwent 95
Papadimitrio 95
Sansoni 95
Abreu 94M
Antoniazzi 94
Balest 94C
Cester 94
Garbincius 94

$K^+\ K_S\ \pi^- + K_S\ K^-\ \pi^+$
Bai 98F

$2\pi^+\ 2\pi^-$
Bai 98F

$K^+\ K^-\ \pi^+\ \pi^-$
Bai 98F

$2K_S\ \pi^+\ \pi^-$
Bai 98F

$2K^+\ 2K^-$
Bai 98F

$p\ \overline{p}\ \pi^+\ \pi^-$
Bai 98F

$3\pi^+\ 3\pi^-$
Bai 98F

$h_c(1P)$

Pordes 96
Menichetti 94

$\eta_c(1S)\ \gamma$
Gollwitzer 94

$J/\psi(1S)\ \pi^0$
Antoniazzi 94B
Garbincius 94
Gollwitzer 94

$\psi(2S)\ \pi^0$
Garbincius 94

$J/\psi(1S)\ 2\pi^0$
Gollwitzer 94

$J/\psi(1S)\ \pi^+\ \pi^-$
Gollwitzer 94

$\chi_{c2}(1P)$

Acciarri 97F
Semenov 96
Abe 95T

$J/\psi(1S)\ \mathrm{X}$
Pordes 96
Menichetti 94

$e^-\ e^+\ \mathrm{X}$
Gollwitzer 94

2γ
Acciarri 98S
Ackerstaff 98V
Pordes 96
Sivertz 95
Cester 94
Gollwitzer 94
Menichetti 94

$\pi^+\ \pi^-$
Bai 98E

$K^+\ K^-$
Bai 98E

$2\phi(1020)$
Bai 98F

$J/\psi(1S)\ \gamma$
Acciarri 98S
Ackerstaff 98V
Barnett 96
Demina 96
Koreshev 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Wang 96
Bauer 95
Derwent 95
Papadimitrio 95
Sansoni 95
Abreu 94M
Antoniazzi 94
Balest 94C
Cester 94
Garbincius 94
Shelkov 93

$p\ \overline{p}$
Bai 98E

$K^+\ K_S\ \pi^- + K_S\ K^-\ \pi^+$
Bai 98F

$2\pi^+\ 2\pi^-$
Bai 98F

$K^+\ K^-\ \pi^+\ \pi^-$
Bai 98F

$2K_S\ \pi^+\ \pi^-$
Bai 98F

$2K^+\ 2K^-$
Bai 98F

$p\ \overline{p}\ \pi^+\ \pi^-$
Bai 98F

$3\pi^+\ 3\pi^-$
Bai 98F

$\eta_c(2S)$

2γ
Abreu 98H
Armstrong 95
Cester 94
Gollwitzer 94

$2\rho^0$
Abreu 98H

$K^+\ K_S\ \pi^-$
Abreu 98H

$K_S\ K^-\ \pi^+$
Abreu 98H

$K^*(892)^0\ K^-\ \pi^+$
Abreu 98H

$\overline{K}^*(892)^0\ K^+\ \pi^-$
Abreu 98H

$2K_S\ \pi^+\ \pi^-$
Abreu 98H

$2K^+\ 2K^-$
Abreu 98H

$\psi(2S)$

Abe 98E
Abreu 98G
Abreu 98I

$\psi(2S)$

Abreu 98P
Abreu 98R
Abe 97
Abe 97ZI
Acciarri 97F
Alexopoulos 97
Baglin 96C
Huffman 96
Keranen 96
Lewis 96
Wang 96
Baglin 95
Gerschel 95
Gribushin 95
Lourenco 95
Papadimitrio 95
Ross 95
Alam 94C
Byrum 94
Lewis 94
Skarha 94
Wormser 94

$J/\psi(1S)$ X
Sansoni 95

$e^- e^+$ X
Gollwitzer 94

$\pi^+ \pi^-$ X
Bai 96C

$e^- e^+$
Bai 98B
Adloff 97L
Armstrong 97C
Pordes 96
Abreu 95O
Balest 94C
Cester 94
Menichetti 94
Shochet 94

$\mu^- \mu^+$
Gu 99
Adloff 97L
Barnett 96
Demina 96
Kaplan 96
Koreshev 96
Meschi 96
Miao 96
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Tkaczyk 96
Abreu 95O
Alexopoulos 95D
Baglin 95B
Bauer 95
Derwent 95
Sansoni 95
Schub 95
Tserruya 95
Alexopoulos 94B
Baglin 94
Balest 94C
Cdfcollabora 94F
Daniels 94
Dejongh 94
Garbincius 94
Lourenco 94
Mueller 94
Shochet 94
Lourenco 93

$\tau^- \tau^+$
Qi 95

$\eta \gamma$
Bai 98D

$\eta' \gamma$
Bai 98D
Huang 96

$b_1(1235)^+ \pi^-$
Bai 98H
Huang 96

$b_1(1235)^- \pi^+$
Bai 98H
Huang 96

$\psi(2S)$

$f_2(1270) \gamma$
Huang 96

$f_2(1270) \omega$
Bai 98L
Huang 96

$a_2(1320) \rho$
Bai 98L

$K_1(1270)^+ K^-$
Bai 98H

$K_1(1270)^- K^+$
Bai 98H

$K_1(1400)^+ K^-$
Bai 98H

$K_1(1400)^- K^+$
Bai 98H

$K_2^*(1430)^0 \overline{K}^*(892)^0 +$
$\overline{K}_2^*(1430)^0 K^*(892)^0$
Bai 98L

$f_2'(1525) \phi(1020)$
Bai 98L

$\eta_c(1S) \gamma$
Bai 98F

$J/\psi(1S) \eta + J/\psi(1S) \pi^+ \pi^- +$
$J/\psi(1S) \pi^0$
Abe 97F

$J/\psi(1S) \eta$
Gu 99
Armstrong 97C

$\chi_{c0}(1P) \gamma$
Bai 98E
Bai 98F

$\chi_{c1}(1P) \gamma$
Bai 98F

$\chi_{c2}(1P) \gamma$
Bai 98E
Bai 98F

$\Lambda \overline{\Lambda}$
Huang 96

$\Sigma^0 \overline{\Sigma}^0$
Huang 96

$J/\psi(1S) 2\pi^0$
Gu 99
Armstrong 97C

$J/\psi(1S) \pi^+ \pi^-$
Gu 99
Bai 98C
Adloff 97L
Armstrong 97C
Bauer 96
Miao 96
Abe 95N
Alexander 95E
Skarha 95
Abe 94D
Abreu 94M
Antoniazzi 94B
Balest 94C
Garbincius 94
Mueller 94

$\pi^+ \pi^- e^- e^+$
Bai 96C

$\pi^+ \pi^- \mu^- \mu^+$
Bai 96C

$K^*(892)^+ K^*(892)^- K^+ K^-$
Huang 96

$J/\psi(1S) < K_1(1270)^+ K^- >$
$\pi^+\pi^-$
Bai 98H

$J/\psi(1S) < K_1(1270)^- K^+ >$
$\pi^+\pi^-$
Bai 98H

$J/\psi(1S) < K_1(1400)^+ K^- >$
$\pi^+\pi^-$
Bai 98H

$J/\psi(1S) < K_1(1400)^- K^+ >$
$\pi^+\pi^-$
Bai 98H

$\psi(3770)$

$\mu^- \mu^+$
Abe 94ZH
Lewis 94
Skarha 94

$D^0 \overline{D}^0$
Freyberger 94

$D^+ D^-$
Freyberger 94

χ_c(unspec)

Mueller 94

$J/\psi(1S)$ X
Cester 94

$\eta_c(1S) \gamma$
Cester 94

$J/\psi(1S) \gamma$
Abe 97F
Abachi 96
Abachi 95ZB
Bazizi 95
Derwent 95
Markosky 95
Hedin 94

$J/\psi(1S) \pi^0$
Cester 94

$\psi(2S) \gamma$
Bai 98B

$J/\psi(1S) \pi^+ \pi^-$
Cester 94

ψ(unspec)

Semenov 96

$\psi(2S) \pi^+ \pi^-$
Bai 98B

bottom

Slaughter 96
Su 96
Albajar 95
Shochet 94
Skarha 94
Albajar 93B

X
Butler 93

ℓ^- X
Abreu 96P
Buskulic 95E

e^- X
Abreu 96O
Beretvas 95
Kopp 95
Strovink 95
Abe 94Q
Abe 94V
Bazizi 94
Cdfcollabora 94D
Frisch 94
Hara 94
Sphicas 94
Tollestrup 94
Williams 94
Sakuda 93

e^+ X
Behnke 95

μ^- X
Abreu 96O
Beretvas 95
Kopp 95
Strovink 95
Abachi 94C
Abe 94Q
Abe 94V
Bazizi 94
Byrum 94
Cdfcollabora 94D
Frisch 94
Gerdes 94
Hara 94
Hedin 94
Huehn 94
Sphicas 94
Tollestrup 94
Williams 94

bottom

Yu 94B

μ^+ X
Behnke 95

charged X
Acciarri 97W

mult[charged] (neutrals)
Abreu 94F

charged (neutrals)
Abreu 96P

hadron$^-$ X
Abreu 96O

hadron (hadrons)
Abe 95ZR
Abe 94U
Abe 94V
Geer 94
Manly 94

ℓ X
Karlsson 96

$J/\psi(1S)$ X
Behnke 95
Bazizi 94
Daniels 94
Hedin 94
Abe 93N

$\psi(2S)$ X
Daniels 94

$e^- \overline{\nu}_e$ X
Acciarri 95C

μ^- hadron (hadrons)
Abe 96S

$\mu^- \overline{\nu}_\mu$ X
Acciarri 95C

$D^0 \mu^-$ X
Byrum 94

$D^*(2010)^+ \mu^-$ X
Byrum 94

charged (chargeds) X
Cdfcollabora 94D

charged (chargeds) (neutrals)
Ackerstaff 96D

hadron (hadrons) X
Kopp 95
Tollestrup 94
Williams 94

2hadron (hadrons)
Gerdes 94

charged-hadron (charged-hadrons)(neutrals)
Abreu 96L

charm $< e^-$ X $>$ X
Behnke 95

charm $< \mu^-$ X $>$ X
Behnke 95

$\overline{D}_1(2420)^0 e^+ \nu_e$ X
Buskulic 96Q

$D_1(2420)^- e^+ \nu_e$ X
Buskulic 96Q

$\overline{D}_1(2420)^0 \mu^+ \nu_\mu$ X
Buskulic 96Q

$D_1(2420)^- \mu^+ \nu_\mu$ X
Buskulic 96Q

$\overline{D}_2^*(2460)^0 e^+ \nu_e$ X
Buskulic 96Q

$D_2^*(2460)^- e^+ \nu_e$ X
Buskulic 96Q

$\overline{D}_2^*(2460)^0 \mu^+ \nu_\mu$ X
Buskulic 96Q

$D_2^*(2460)^- \mu^+ \nu_\mu$ X
Buskulic 96Q

2charged (chargeds) X
Cdfcollabora 94C

nonres $< D^- \pi^+ > e^+ \nu_e$ X
Buskulic 96Q

nonres $< D^- \pi^+ > \mu^+ \nu_\mu$ X
Buskulic 96Q

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

bottom

nonres < $D^*(2010)^-$ π^+ > $e^+\nu_e$X
Buskulic 96Q
nonres < $D^*(2010)^-$ π^+ > $\mu^+\nu_\mu$X
Buskulic 96Q
jet
Abe 98Y
Abachi 94B
Antos 94
Buskulic 94H
Gerdes 94
Grannis 94
Jensen 94
Lidemarteau 94
Raja 94

$\overline{\text{bottom}}$

Hara 94
e^- jet
Antos 94
Jensen 94
Nakano 94
$\mu^\pm$ jet
Raja 94
μ^- jet
Abe 98Y
Abachi 94B
Antos 94
Grannis 94
Jensen 94
Lidemarteau 94
ℓ jet
Behnke 95
nonres < $\overline{D}^*(2007)^0$ π^- + $\overline{D}^0$ π^- > e^+ ν_e X
Buskulic 96Q
nonres < $\overline{D}^*(2007)^0$ π^- + $\overline{D}^0$ π^- > μ^+ ν_μ X
Buskulic 96Q

$\overline{\text{bottom}}$

Slaughter 96
Su 96
Albajar 95
Behnke 95
Albajar 93B
ℓ^+ X
Abreu 96P
Buskulic 95E
e^+ X
Abreu 96O
Beretvas 95
Kopp 95
Strovink 95
Abe 94Q
Abe 94V
Bazizi 94
Cdfcollabora 94D
Frisch 94
Hara 94
Sphicas 94
Tollestrup 94
Williams 94
Sakuda 93
μ^+ X
Abreu 96O
Beretvas 95
Kopp 95
Strovink 95
Abachi 94C
Abe 94Q
Abe 94V
Bazizi 94
Byrum 94
Cdfcollabora 94D
Frisch 94
Gerdes 94
Hara 94
Hedin 94
Huehn 94
Sphicas 94

$\overline{\text{bottom}}$

Tollestrup 94
Williams 94
Yu 94B
charged X
Acciarri 97W
charged (neutrals)
Abreu 96P
hadron$^+$ X
Abreu 96O
hadron (hadrons)
Abe 95ZR
Abe 94U
Abe 94V
Geer 94
Manly 94
ℓ X
Karlsson 96
$J/\psi(1S)$ X
Bazizi 94
Daniels 94
Hedin 94
$\psi(2S)$ X
Daniels 94
e^+ ν_e X
Acciarri 95C
μ^+ hadron (hadrons)
Abe 96S
μ^+ ν_μ X
Acciarri 95C
$\overline{D}^0$ μ^+ X
Byrum 94
$D^*(2010)^-$ μ^+ X
Byrum 94
charged (chargeds) X
Cdfcollabora 94D
charged (chargeds) (neutrals)
Ackerstaff 96D
hadron (hadrons) X
Kopp 95
Tollestrup 94
Williams 94
2hadron (hadrons)
Gerdes 94
charged-hadron (charged-hadrons)(neutrals)
Abreu 96L
$D_1(2420)^+$ e^- $\overline{\nu}_e$ X
Buskulic 96Q
$D_1(2420)^0$ e^- $\overline{\nu}_e$ X
Buskulic 96Q
$D_1(2420)^+$ μ^- $\overline{\nu}_\mu$ X
Buskulic 96Q
$D_1(2420)^0$ μ^- $\overline{\nu}_\mu$ X
Buskulic 96Q
$D_2^*(2460)^+$ e^- $\overline{\nu}_e$ X
Buskulic 96Q
$D_2^*(2460)^0$ e^- $\overline{\nu}_e$ X
Buskulic 96Q
$D_2^*(2460)^+$ μ^- $\overline{\nu}_\mu$ X
Buskulic 96Q
$D_2^*(2460)^0$ μ^- $\overline{\nu}_\mu$ X
Buskulic 96Q
2charged (chargeds) X
Cdfcollabora 94C
nonres < D^+ π^- > e^- $\overline{\nu}_e$ X
Buskulic 96Q
nonres < D^+ π^- > μ^- $\overline{\nu}_\mu$ X
Buskulic 96Q
nonres < $D^*(2010)^+$ π^- > $e^-\overline{\nu}_e$X
Buskulic 96Q
nonres < $D^*(2010)^+$ π^- > $\mu^-\overline{\nu}_\mu$X
Buskulic 96Q
jet
Abe 98Y
Abachi 94B

$\overline{\text{bottom}}$

Antos 94
Buskulic 94H
Gerdes 94
Grannis 94
Jensen 94
Lidemarteau 94
Raja 94
bottom
Hara 94
e^+ jet
Antos 94
Jensen 94
Nakano 94
$\mu^\pm$ jet
Raja 94
μ^+ jet
Abe 98Y
Abachi 94B
Antos 94
Grannis 94
Jensen 94
Lidemarteau 94
nonres < $D^*(2007)^0$ π^+ + D^0 π^+ > $\mu^-\overline{\nu}_\mu$X
Buskulic 96Q
nonres < $D^*(2007)^0$ π^+ + D^0 π^+ > $e^-\overline{\nu}_e$X
Buskulic 96Q

B

Abe 99B
Abe 98H
Abe 98R
Acciarri 98E
Alexandrov 98
Barate 98B
Barate 98M
Abe 97U
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Adam 97
Alexopoulos 97B
Barate 97ZB
Abreu 96U
Acciarri 96O
Artuso 96
Busetto 96
Furtjes 96
Goy 96
Sciolla 96
Slaughter 96
Su 96
Wang 96
Abe 95I
Abreu 95R
Acciarri 95D
Alexander 95I
Behnke 95
Buskulic 95V
Papadimitrio 95
Podobrin 95
Skarha 95
Buskulic 94L
Garbincius 94
Luke 93
X
Bagan 95
X 0charm
Abreu 98
Albrecht 94R
ℓ^+ X
Buskulic 96R
$e^\pm$ X
Luke 93
e^- X
Abreu 96B
Acciarri 96N
Ackerstaff 96O
Ammar 96
Buskulic 95R
Derwent 95
Marti 95

B

Carr 94
μ^- X
Adamovich 98
Abreu 96B
Acciarri 96N
Ackerstaff 96O
Ammar 96
Yu 96B
Abachi 95P
Buskulic 95R
Derwent 95
Incandela 95
Incandela 95B
Markosky 95
Marti 95
Roser 95
Barker 94
Carr 94
μ^+ X
Abe 95U
charged X
Abreu 98C
Abreu 95Q
hadron (hadrons)
Abe 95ZD
Abe 95ZG
charged-hadron X
Acciarri 96N
Ackerstaff 96O
$\pi^\pm$ X
Barate 97ZC
π^0 X
Acciarri 96N
Adam 95
η X
Acciarri 96N
$K^\pm$ X
Barate 97ZC
K_S X
Abreu 95Q
charm X
Abreu 98
Gibbons 97
Albrecht 94R
D X
Abe 99D
D^+ X
Coan 97B
Gibbons 97
Semenov 96
D^0 X
Adamovich 98
Coan 97B
Gibbons 97
Semenov 96
$\overline{D}^0$ X
Coan 97B
D^- X
Coan 97B
King 94
$D^*(2010)^+$ X
Gibbons 97
Abreu 95S
$D^*(2010)^-$ X
Albrecht 95H
King 94
$D^*(2007)^0$ X
Gibbons 97
$D_s^\pm$ X
Semenov 96
D_s^+ X
Bishai 97B
Gibaut 95
D_s^{*+} X
Gibaut 95
$D_{s1}(2536)^+$ X
Bishai 97B
$\eta_c(1S)$ X
Semenov 96
Balest 94C
$J/\psi(1S)$ X
Acciarri 98ZB
Abe 97F

B

Abe 97ZI
Abachi 96
Demina 96
Kaplan 96
Ohl 96
Papadimitrio 96B
Wenzel 96B
Abachi 95ZB
Alexander 95E
Bauer 95
Derwent 95
Balest 94C
Barker 94
Cdfcollabora 94F
Jansen 94

$\chi_{c1}(1P)$ X
Demina 96
Papadimitrio 96B
Semenov 96
Bauer 95
Balest 94C

$\chi_{c2}(1P)$ X
Demina 96
Papadimitrio 96B
Semenov 96
Bauer 95
Balest 94C

$\psi(2S)$ X
Ohl 96
Alexander 95E
Bauer 95
Derwent 95
Balest 94C

ψ(unspec) X
Semenov 96

p X
Barate 97ZC

$\overline{p}$ X
Barate 97ZC

Λ X
Ackerstaff 96M
Abreu 95Q

Λ_c X
Semenov 96

Λ_c^+ X
Ammar 96
Fujino 95

$\overline{\Lambda}_c^-$ X
Bonvicini 97B
Ammar 96

$\Sigma_c(2455)^{++}$ X
Procario 93

$\Sigma_c(2455)^+$ X
Procario 93

$\Sigma_c(2455)^0$ X
Procario 93

Ξ_c^+ X
Semenov 96
Fujino 95

Ξ_c^0 X
Semenov 96
Fujino 95

$\overline{\Xi}_c{}^0$ X
Barish 97

$\overline{\Xi}_c{}^-$ X
Barish 97

$e^- \overline{\nu}$ X
Barish 95

$e^+ \nu_e$ X
Wang 96B
Bagan 95

$e^- e^+$ X
Balest 94C

μ^- jet X
Markosky 95

$\mu^+ \nu_\mu$ X
Wang 96B

$\mu^- \mu^+$ X
Abbott 98B
Abachi 96I
Balest 94C

B

$D^+ e^-$ X
Akers 95F

$D^0 e^-$ X
Akers 95F

$D^+ \mu^-$ X
Akers 95F

$D^0 \mu^-$ X
Akers 95F

$D^*(2010)^+ e^-$ X
Akers 95F

$D^*(2010)^+ \mu^-$ X
Akers 95F

$D_J(2440)^+ e^-$ X
Akers 95F

$D_J(2440)^0 e^-$ X
Akers 95F

$D_J(2440)^+ \mu^-$ X
Akers 95F

$D_J(2440)^0 \mu^-$ X
Akers 95F

$D_2^*(2460)^+ e^-$ X
Akers 95F

$D_2^*(2460)^0 e^-$ X
Akers 95F

$D_2^*(2460)^+ \mu^-$ X
Akers 95F

$D_2^*(2460)^0 \mu^-$ X
Akers 95F

$\overline{\Lambda}_c^- e^+$ X
Bonvicini 97B

charged (chargeds) X
Buskulic 95R
Wormser 94

charged (chargeds) (neutrals)
Buskulic 96R
Akers 95X

hadron (hadrons) X
Abreu 95Q

$2\phi(1020)$ X
Balest 94C

charm $\overline{\text{charm}}$ X
Abreu 98

$D^0 \overline{D}^0$ X
Barate 98G

$D^+ D^-$ X
Barate 98G

$D^0 D^-$ X
Barate 98G

$D^*(2010)^+ D^-$ X
Barate 98G

$D^*(2010)^- D^+$ X
Barate 98G

$D^*(2010)^- D^0$ X
Barate 98G

$D^*(2010)^+ D^*(2010)^-$ X
Barate 98G

$D_s^- D^+$ X
Barate 98G

$D_s^- D^0$ X
Barate 98G

$D_s^- D^*(2010)^+$ X
Barate 98G

$J/\psi(1S)\ \gamma$ X
Balest 94C

$\overline{\Lambda}_c^- p$ X
Bonvicini 97B

$e^- \overline{\nu}$ hadron (hadrons) 0charm
Acciarri 98P
Barate 98J

$\mu^- \overline{\nu}$ hadron (hadrons) 0charm
Acciarri 98P
Barate 98J

kaon (π's) $e^- e^+$
Glenn 97

kaon (π's) $\mu^- e^+$
Glenn 97

kaon (π's) $\mu^+ e^-$
Glenn 97

B

kaon (π's) $\mu^- \mu^+$
Glenn 97

$\overline{D}^0 e^+ \nu_e$ X
Coan 97B

$D^- e^+ \nu_e$ X
Coan 97B

$\overline{D}^0 \mu^+ \nu_\mu$ X
Coan 97B

$D^- \mu^+ \nu_\mu$ X
Coan 97B

$D^+ \pi^- e^-$ X
Akers 95F

$D^0 \pi^+ e^-$ X
Akers 95F

$D^+ \pi^- \mu^-$ X
Akers 95F

$D^0 \pi^+ \mu^-$ X
Akers 95F

$D^*(2010)^- \ell^+ \nu$ X
Artuso 97B

$D^*(2010)^+ e^- \overline{\nu}_e$ X
Abreu 96C

$D^*(2010)^+ \mu^- \overline{\nu}_\mu$ X
Abreu 96C

$D^*(2010)^+ \pi^- e^-$ X
Akers 95F

$D^*(2010)^+ \pi^- \mu^-$ X
Akers 95F

3charged-hadron X
Adamovich 98

$J/\psi(1S)\ \pi^+ \pi^-$ X
Balest 94C

$\pi^+ \pi^- e^- e^+$ X
Balest 94C

$\pi^+ \pi^- \mu^- \mu^+$ X
Balest 94C

$2K^+ 2K^-$ X
Balest 94C

jet
Incandela 95
Incandela 95B
Roser 95

μ^- jet
Abachi 95M
Abachi 95P
Bazizi 95
Derwent 95

μ^+ jet
Abachi 95R

$\Sigma_c(2455)^0$ nucleon
Procario 93

kaon $\pi\ \gamma$
Alam 94B

$K_S\ \pi\ \gamma$
Alam 94B

kaon $2\pi\ \gamma$
Alam 94B

kaon $\pi^0\ \pi\ \gamma$
Alam 94B

$K_S\ 2\pi\ \gamma$
Alam 94B

$K_S\ \pi^0\ \pi\ \gamma$
Alam 94B

kaon $3\pi\ \gamma$
Alam 94B

kaon $\pi^0\ 2\pi\ \gamma$
Alam 94B

$K_S\ 3\pi\ \gamma$
Alam 94B

$K_S\ \pi^0\ 2\pi\ \gamma$
Alam 94B

kaon $4\pi\ \gamma$
Alam 94B

kaon $\pi^0\ 3\pi\ \gamma$
Alam 94B

$K_S\ 4\pi\ \gamma$
Alam 94B

$K_S\ \pi^0\ 3\pi\ \gamma$
Alam 94B

$B^\pm$

Akers 94R

$B^\pm$

$K^\pm\ J/\psi(1S)$
Jesik 94

B^+

Abbiendi 98K
Abe 98ZC
Acciarri 98X
Barate 98
Abe 97ZB
Ackerstaff 97ZH
Coan 97B
Ackerstaff 96R
Furtjes 96
Slaughter 96
Abreu 95H
Albrecht 95H
Ross 95
Akers 94R
Albrecht 94I
Barish 94
Garbincius 94
Buskulic 93D

ℓ^+ X
Jackson 96

e^+ X
Abe 97B
Artuso 97

μ^+ X
Abe 97B
Artuso 97

hadron (hadrons)
Jackson 96
Dejongh 94

η' X
Browder 98

K^+ X
Albrecht 94R

K^- X
Albrecht 94R

K_S X
Albrecht 94R

$J/\psi(1S)$ X
Garbincius 94

$\ell^+ \nu$ X
Schmitt 96B

charmed-meson $\ell^\pm$ X
Abe 96T

$\overline{D}^0 \ell^+$ X
Behnke 95

$D^0 e^+$ X
Jones 94B

$\overline{D}^0 e^+$ X
Lewis 94B
Shochet 94
Wormser 94

$\overline{D}^0 \mu^-$ X
Lewis 94B

$\overline{D}^0 \mu^+$ X
Dejongh 94
Wormser 94

$D^*(2010)^- e^+$ X
Buskulic 96V
Lewis 94B

$D^*(2010)^- \mu^+$ X
Buskulic 96V
Lewis 94B

$D^*(2007)^0 e^+$ X
Jones 94B

charged (chargeds) (neutrals)
Abe 96U
Abe 96ZE
Abe 96ZF
Adam 95B

$K^+ \ell^+ \nu$ X
Albrecht 94R

$K^- \ell^+ \nu$ X
Albrecht 94R

$K_S\ \ell^+ \nu$ X
Albrecht 94R

$K^+ e^+ \nu_e$ X
Albrecht 94R

$K^- e^+ \nu_e$ X
Albrecht 94R

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

B^+

$K_S\ e^+\ \nu_e$ X
Albrecht 94R
$K^+\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$K^-\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$K_S\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$\overline{K}^*(892)^0\ \mu^-\ \mu^+$ X
Abe 99D
$K^*(892)^-\ \mu^-\ \mu^+$ X
Abe 99D
$\overline{D}^0\ \ell^+\ \nu$ X
Lucchesi 96
$\overline{D}^0\ e^+\ \nu_e$ X
Abe 98O
Abe 96E
Bauer 96
Skarha 95
Skarha 94
$\overline{D}^0\ \mu^+\ \nu_\mu$ X
Abe 98O
Abe 96E
Bauer 96
Wang 96
Papadimitrio 95
Skarha 95
$e^\pm$ 2charged (chargeds) (neutrals)
Abe 96ZF
$\mu^\pm$ 2charged (chargeds) (neutrals)
Abe 96ZF
nonres $< D^*(2010)^-\ \pi^+ >\ \mu^+\ \nu_\mu$X
Buskulic 94L
$e^+\ \nu_e$
Artuso 95
$\mu^+\ \nu_\mu$
Artuso 95
$\tau^+\ \nu_\tau$
Acciarri 96L
Artuso 95
Buskulic 95
$\pi^+\ \pi^0$
Asner 95
$\eta\ \pi^+$
Smith 98
Behrens 97
$\rho^+\ \pi^0$
Asner 95
$\rho^0\ \pi^+$
Adam 96D
Zachariadou 96
Asner 95
$\rho^+\ \eta$
Smith 98
Behrens 97
ω hadron$^+$
Bergfeld 98
$\omega\ \pi^+$
Bergfeld 98
Smith 98
$\omega\ \rho^+$
Bergfeld 98
Smith 98
$\eta'\ \pi^+$
Smith 98
Behrens 97
$\eta'\ \rho^+$
Smith 98
Behrens 97
$K^+\ \pi^0$
Asner 95
$K^+\ \pi^0\ +\ \pi^+\ \pi^0$
Godang 97B
$K^0\ \pi^+$
Godang 97B
Asner 95
$K^+\ \eta$
Smith 98
Behrens 97

B^+

$K^+\ \rho^0$
Zachariadou 96
Asner 95
$K^0\ \rho^+$
Asner 95
$K^+\ \omega$
Bergfeld 98
Smith 98
$K^+\ \eta'$
Browder 98
Smith 98
Behrens 97
$K^*(892)^+\ \gamma$
Ehrlich 94
Payne 94
$K^*(892)^+\ \pi^0$
Asner 95
$\overline{K}^*(892)^0\ \pi^+$
Adam 96D
Zachariadou 96
Asner 95
$K^*(892)^+\ \eta$
Smith 98
Behrens 97
$K^*(892)^+\ \omega$
Bergfeld 98
Smith 98
$K^*(892)^+\ \eta'$
Smith 98
Behrens 97
$\phi(1020)$ hadron$^+$
Bergfeld 98
$\phi(1020)\ \pi^+$
Bergfeld 98
Smith 98
$\phi(1020)\ \rho^+$
Bergfeld 98
Smith 98
$K^+\ \phi(1020)$
Bergfeld 98
Smith 98
Adam 96D
Zachariadou 96
Asner 95
$K^*(892)^+\ \phi(1020)$
Bergfeld 98
Smith 98
Asner 95
$\overline{D}^0\ \pi^+$
Athanas 98
Buskulic 96V
Payne 94
$\overline{D}^0\ \rho^+$
Payne 94
$\overline{D}^0\ a_1(1260)^+$
Buskulic 96V
$\overline{D}^0\ K^+$
Athanas 98
$\overline{D}^*(2007)^0\ \pi^+$
Brandenburg 97
Albrecht 94U
Payne 94
$\overline{D}^*(2007)^0\ \rho^+$
Payne 94
$D_s^+\ \overline{D}^0$
Gibaut 95
$D_s^+\ \overline{D}^*(2007)^0$
Gibaut 95
$D_s^{*+}\ \overline{D}^0$
Gibaut 95
$D_s^{*+}\ \overline{D}^*(2007)^0$
Gibaut 95
$J/\psi(1S)\ \pi^+$
Abe 96N
Lewis 96
Meschi 96
Miao 96
Abe 95O
Bishai 95B
Skarha 95

B^+

Alexander 94B
Payne 94
$J/\psi(1S)\ \rho^\pm$
Bishai 95B
$J/\psi(1S)\ a_1(1260)^+$
Bishai 95B
$K^+\ J/\psi(1S)$
Abe 97ZI
Abe 96K
Abe 96N
Barnett 96
Bauer 96
Buskulic 96V
Huffman 96
Laasanen 96
Lewis 96
Lucchesi 96
Meschi 96
Miao 96
Wang 96
Yu 96B
Abe 95E
Abe 95N
Abe 95O
Abe 95P
Abe 95X
Abe 95ZI
Alexander 95E
Anwaywiese 95
Bishai 95B
Derwent 95
Papadimitrio 95
Skarha 95
Abe 94D
Alexander 94B
Anwaywiese 94
Bailey 94
Byrum 94
Cdfcollabora 94E
Dejongh 94
Garbincius 94
Hara 94
Lewis 94
Mueller 94
Payne 94
Plunkett 94
Shochet 94
Skarha 94
$K^*(892)^+\ J/\psi(1S)$
Abe 97ZI
Jessop 97
Abe 96K
Bauer 96
Buskulic 96V
Lucchesi 96
Miao 96
Wang 96
Yu 96B
Abe 95N
Abe 95ZI
Papadimitrio 95
Skarha 95
Abe 94D
Albrecht 94P
Dejongh 94
Garbincius 94
Lewis 94
Mueller 94
Skarha 94
$K^+\ \psi(2S)$
Abe 98E
Abe 97ZI
Bauer 96
Huffman 96
Lewis 96
Meschi 96
Miao 96
Abe 95N
Skarha 95
Abe 94D
Dejongh 94
Garbincius 94
Lewis 94

B^+

Mueller 94
Skarha 94
$K^*(892)^+\ \psi(2S)$
Abe 97ZI
Bauer 96
Abe 95N
Skarha 95
Abe 94D
Dejongh 94
Garbincius 94
Lewis 94
Mueller 94
Skarha 94
$p\ \overline{\Lambda}$
Coan 98
$e^+\ \nu_e\ \gamma$
Browder 97B
$\mu^+\ \nu_\mu\ \gamma$
Browder 97B
$\pi^0\ e^+\ \nu_e$
Alexander 96F
Artuso 96
$\pi^0\ \mu^+\ \nu_\mu$
Alexander 96F
Artuso 96
$\rho^0\ e^+\ \nu_e$
Alexander 96F
Artuso 96
$\rho^0\ \mu^+\ \nu_\mu$
Alexander 96F
Artuso 96
$\omega\ e^+\ \nu_e$
Alexander 96F
Artuso 96
$\omega\ \mu^+\ \nu_\mu$
Alexander 96F
Artuso 96
$K^+\ \mu^-\ \mu^+$
Abe 96D
Barnett 96
Paulini 96
Anwaywiese 95
Ragan 95
Skarha 95
Anwaywiese 94
$\overline{D}^0\ \ell^+\ \nu$
Schmitt 96B
Dejongh 94
$\overline{D}^0\ e^+\ \nu$
Abreu 95L
$\overline{D}^0\ e^+\ \nu_e$
Bartelt 98
Athanas 97
Artuso 96
Akers 95R
Alexander 95C
Buskulic 95L
Ukegawa 95
Jones 94B
$\overline{D}^0\ \mu^+\ \nu$
Abreu 95L
$\overline{D}^0\ \mu^+\ \nu_\mu$
Bartelt 98
Athanas 97
Artuso 96
Akers 95R
Alexander 95C
Buskulic 95L
Ukegawa 95
$\overline{D}^*(2007)^0\ \ell^+\ \nu$
Schmitt 96B
Dejongh 94
$\overline{D}^*(2007)^0\ e^+\ \nu_e$
Abe 95ZN
Jones 94B
$\overline{D}^*(2007)^0\ \mu^+\ \nu_\mu$
Abe 95ZN
$\overline{D}_1(2420)^0\ e^+\ \nu_e$
Anastassov 97
$\overline{D}_1(2420)^0\ \mu^+\ \nu_\mu$
Anastassov 97

B^+

$\overline{D}_2^*(2460)^0\ e^+\ \nu_e$
Anastassov 97
$\overline{D}_2^*(2460)^0\ \mu^+\ \nu_\mu$
Anastassov 97
$2\pi^+\ \pi^-$
Adam 96D
Bergfeld 96
Zachariadou 96
$K^+\ \pi^+\ \pi^-$
Adam 96D
Bergfeld 96
Zachariadou 96
$K^-\ 2\pi^+$
Bergfeld 96
$K^+\ \eta'\ \pi^0$
Browder 98
$K^+\ K^-\ \pi^+$
Bergfeld 96
$2K^+\ K^-$
Adam 96D
Bergfeld 96
Zachariadou 96
$K^+\ J/\psi(1S)\ \pi^0$
Albrecht 94P
$K^0\ J/\psi(1S)\ \pi^+$
Albrecht 94P
$p\ \overline{p}\ \pi^+$
Bergfeld 96
Zachariadou 96
$p\ \overline{p}\ K^+$
Bergfeld 96
$\overline{\Lambda}_c^-\ p\ \pi^+$
Fu 96
Payne 94
$\overline{\Lambda}_c^-\ p\ e^+\ \nu_e$
Bonvicini 97B
$K^+\ \eta'\ \pi^+\ \pi^-$
Browder 98
$\overline{\Lambda}_c^-\ p\ \pi^+\ \pi^0$
Fu 96
$K^+\ \eta'\ \pi^+\ \pi^0\ \pi^-$
Browder 98
$\overline{\Lambda}_c^-\ p\ 2\pi^+\ \pi^-$
Fu 96
Payne 94
$\overline{\Lambda}_c^-\ p\ 2\pi^+\ \pi^0\ \pi^-$
Fu 96

B^0

Abbiendi 98K
Acciarri 98X
Barate 98
Ackerstaff 97ZH
Coan 97B
Ackerstaff 96R
Furtjes 96
Slaughter 96
Abreu 95H
Akers 94R
Barish 94
Garbincius 94
Buskulic 93D
ℓ^+ X
Alexander 96N
Buskulic 96R
Buskulic 96U
Jackson 96
Akers 95E
Akers 94G
e^+ X
Abe 97B
μ^+ X
Abe 97B
Abachi 95R
Abe 95U
Abe 95Y
Ragan 95
Albajar 93B
hadron (hadrons)
Jackson 96
Dejongh 94

B^0

η' X
Browder 98
K^+ X
Albrecht 95H
Albrecht 94R
K^- X
Albrecht 94R
K_S X
Albrecht 94R
$D^*(2010)^-$ X
Buskulic 96R
Albrecht 95H
Abreu 94K
Akers 94G
$J/\psi(1S)$ X
Garbincius 94
$\ell^+\ \nu$ X
Schmitt 96B
e^+ charged X
Abreu 96U
$e^+\ \nu_e$ X
Wang 96B
μ^+ charged X
Abreu 96U
$\mu^+\ \nu_\mu$ X
Wang 96B
charmed-meson $\ell^\pm$ X
Abe 96T
$\overline{D}^0\ e^-$ X
Lewis 94B
$\overline{D}^0\ e^+$ X
Lewis 94B
$D^-\ e^+$ X
Jones 94B
Wormser 94
$\overline{D}^0\ \mu^+$ X
Lewis 94B
$D^-\ \mu^+$ X
Dejongh 94
Wormser 94
$D^*(2010)^-\ e^+$ X
Abreu 96V
Buskulic 96V
Jones 94B
Lewis 94B
Shochet 94
$D^*(2010)^-\ \mu^+$ X
Abreu 96V
Buskulic 96V
Dejongh 94
Lewis 94B
charged (chargeds) (neutrals)
Abe 96ZE
Abe 96ZF
charged-hadron (charged-hadrons)X
Buskulic 96U
K^+ charged X
Abreu 96U
ℓ^- charged (chargeds) (neutrals)
Abe 96V
$e^\pm$ charged (chargeds) (neutrals)
Abe 96ZF
e^- hadron (hadrons) (neutrals)
Buskulic 96F
$\mu^\pm$ charged (chargeds) (neutrals)
Abe 96ZF
μ^+ hadron (hadrons) X
Ragan 95
μ^- hadron (hadrons) (neutrals)
Buskulic 96F
$K^+\ \ell^+\ \nu$ X
Albrecht 94R
$K^-\ \ell^+\ \nu$ X
Albrecht 94R

B^0

$K_S\ \ell^+\ \nu$ X
Albrecht 94R
$K^+\ e^+\ \nu_e$ X
Albrecht 94R
$K^-\ e^+\ \nu_e$ X
Albrecht 94R
$K_S\ e^+\ \nu_e$ X
Albrecht 94R
$K^+\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$K^-\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$K_S\ \mu^+\ \nu_\mu$ X
Albrecht 94R
$K^*(892)^+\ \mu^-\ \mu^+$ X
Abe 99D
$K^*(892)^0\ \mu^-\ \mu^+$ X
Abe 99D
jet $< D^*(2010)^-\ \ell^+$ X $>$
Akers 94B
$D^*(2010)^-\ \ell^+\ \nu$ X
Alexander 96N
Lucchesi 96
$D^*(2010)^+\ e^-\ \overline{\nu}_e$ X
Skarha 95
$D^*(2010)^-\ e^+\ \nu_e$ X
Abe 98O
Abe 96E
Abreu 96C
Bauer 96
Skarha 94
$D^*(2010)^+\ \mu^-\ \overline{\nu}_\mu$ X
Wang 96
Papadimitrio 95
Skarha 95
$D^*(2010)^-\ \mu^+\ \nu_\mu$ X
Abe 98O
Abe 96E
Abreu 96C
Bauer 96
2charged (chargeds) (neutrals)
Abe 96U
Adam 95B
K^- charged (chargeds) (neutrals)
Abe 96W
$\overline{B}^0$
Abe 99B
Abe 98P
Abe 98ZC
Acciarri 98E
Acciarri 98V
Ackerstaff 98
Abe 97ZB
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Abe 96S
Abe 96V
Abe 96W
Abreu 96U
Acciarri 96O
Alexander 96N
Barnett 96
Busetto 96
Buskulic 96F
Buskulic 96R
Checchia 96
Lucchesi 96
Abachi 95R
Abe 95U
Abe 95Y
Akers 95E
Albrecht 95H
Alexander 95H
Behnke 95
Derwent 95
Ragan 95
Skarha 95
Abreu 94J
Abreu 94K

B^0

Acciarri 94D
Akers 94B
Akers 94G
Buskulic 94C
Buskulic 94D
Carr 94
Abreu 93L
Albajar 93B
$e^-\ e^+$
Acciarri 96I
Ammar 93B
$\mu^-\ e^+$
Abe 98ZD
Acciarri 96I
Wenzel 96
$\mu^-\ e^+\ +\ \mu^+\ e^-$
Ammar 93B
$\mu^+\ e^-$
Abe 98ZD
Acciarri 96I
Wenzel 96
$\mu^-\ \mu^+$
Abe 97ZK
Abachi 96I
Abe 96D
Acciarri 96I
Meschi 96
Paulini 96
Speer 96
Abe 95M
Ragan 95
Skarha 95
Ammar 93B
$\tau^-\ e^+\ +\ \tau^+\ e^-$
Ammar 93B
$\tau^-\ \mu^+\ +\ \tau^+\ \mu^-$
Ammar 93B
hadron$^+$ hadron$^-$
Buskulic 96S
2γ
Acciarri 95H
$\pi^+\ \pi$
Ehrlich 94
$2\pi^0$
Acciarri 95P
Asner 95
$\pi^+\ \pi^-$
Adam 96D
Buskulic 96S
Zachariadou 96
Asner 95
Akers 94K
Payne 94
$\eta\ \pi^0$
Smith 98
Behrens 97
Zachariadou 96
Acciarri 95P
2η
Smith 98
Behrens 97
Zachariadou 96
Acciarri 95P
$\rho^+\ \pi^-$
Asner 95
$\rho^0\ \pi^0$
Asner 95
$\rho^-\ \pi^+$
Asner 95
$\rho^0\ \eta$
Smith 98
Behrens 97
$\omega\ \pi^0$
Bergfeld 98
Smith 98
$\omega\ \eta$
Bergfeld 98
Smith 98
$\omega\ \rho^0$
Bergfeld 98
Smith 98
2ω
Bergfeld 98
Smith 98

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

B^0

$\eta' \pi^0$
Smith 98
Behrens 97

$\eta' \eta$
Behrens 97

$\eta' \rho^0$
Smith 98
Behrens 97

$\eta' \omega$
Bergfeld 98
Smith 98

$2\eta'$
Smith 98
Behrens 97

$K^+ \pi^-$
Godang 97B
Adam 96D
Zachariadou 96
Asner 95
Akers 94K
Ehrlich 94
Payne 94

$K^0 \pi^0$
Asner 95

$K^- \pi^+$
Albrecht 94U

$K^0 \eta$
Smith 98
Behrens 97

$K^0 \rho^0$
Asner 95

$K^0 \omega$
Bergfeld 98
Smith 98

$K^0 \eta'$
Smith 98
Behrens 97

$K^+ a_1(1260)^-$
Adam 96D
Zachariadou 96

$K^+ K^-$
Adam 96D
Zachariadou 96
Asner 95
Ehrlich 94

$K^*(892)^0 \gamma$
Adam 96D
Ehrlich 94
Payne 94

$K^*(892)^0 \pi^0$
Asner 95

$K^*(892)^0 \eta$
Smith 98
Behrens 97

$K^*(892)^0 \omega$
Bergfeld 98
Smith 98

$K^*(892)^0 \eta'$
Smith 98
Behrens 97

$\phi(1020) \pi^0$
Bergfeld 98
Smith 98

$\phi(1020) \eta$
Bergfeld 98
Smith 98

$\phi(1020) \rho^0$
Bergfeld 98
Smith 98

$\phi(1020) \omega$
Bergfeld 98

$\phi(1020) \eta'$
Bergfeld 98
Smith 98

$K^0 \phi(1020)$
Bergfeld 98
Smith 98
Asner 95

$K^*(892)^0 \phi(1020)$
Bergfeld 98
Smith 98
Asner 95

B^0

$2\phi(1020)$
Bergfeld 98
Smith 98
Asner 95

$\overline{D}^0$ neutral
Nemati 97

$\overline{D}^0 \pi^0$
Nemati 97

$D^- \pi^+$
Artuso 96
Buskulic 96V
Ross 95
Dejongh 94
Payne 94

$\overline{D}^0 \eta$
Nemati 97

$\overline{D}^0 \rho^0$
Nemati 97

$D^- \rho^+$
Artuso 96
Ross 95
Payne 94

$\overline{D}^0 \omega$
Nemati 97

$\overline{D}^0 \eta'$
Nemati 97

$D^0 \overline{D}^0$
Barate 98G

$D^+ D^-$
Barate 98G
Asner 97

$D^*(2010)^- \pi^+$
Brandenburg 97
Buskulic 96V
Ross 95
Akers 94H
Dejongh 94
Payne 94

$D^*(2010)^+ \rho^-$
Alam 94C

$D^*(2010)^- \rho^+$
Buskulic 96V
Ross 95

$D^*(2010)^- a_1(1260)^+$
Buskulic 96V

$D^*(2010)^+ D^-$
Barate 98G
Asner 97

$D^*(2010)^- D^+$
Barate 98G
Asner 97

$D^*(2010)^+ D^*(2010)^-$
Artuso 98
Barate 98G
Asner 97

$\overline{D}^*(2007)^0$ neutral
Nemati 97

$\overline{D}^*(2007)^0 \pi^0$
Nemati 97

$\overline{D}^*(2007)^0 \eta$
Nemati 97

$\overline{D}^*(2007)^0 \rho^0$
Nemati 97

$\overline{D}^*(2007)^0 \omega$
Nemati 97

$\overline{D}^*(2007)^0 \eta'$
Nemati 97

$D_s^+ D^-$
Gibaut 95

$D_s^- D^+$
Barate 98G

$D_s^+ D^*(2010)^-$
Gibaut 95

$D_s^- D^*(2010)^+$
Barate 98G

$D_s^{*+} D^-$
Gibaut 95

$D_s^{*+} D^*(2010)^-$
Artuso 95B
Gibaut 95

B^0

$J/\psi(1S) \pi^0$
Acciarri 96J
Bishai 95B
Alexander 94B
Payne 94

$J/\psi(1S) \eta$
Acciarri 96J

$J/\psi(1S) \rho^0$
Bishai 95B

$J/\psi(1S) \omega$
Bishai 95B

$K^0 J/\psi(1S)$
Abe 96K
Lucchesi 96
Miao 96
Abe 95ZI
Alam 94C

$K_S J/\psi(1S)$
Abe 98P
Ackerstaff 98
Abe 97ZI
Abe 96P
Bauer 96
Buskulic 96V
Wang 96
Yu 96B
Abe 95N
Alexander 95E
Papadimitrio 95
Skarha 95
Abe 94D
Dejongh 94
Garbincius 94
Lewis 94
Mueller 94
Skarha 94

$K^*(892)^0 J/\psi(1S)$
Abe 98E
Abe 97ZI
Jessop 97
Abe 96K
Barnett 96
Bauer 96
Buskulic 96V
Huffman 96
Lewis 96
Lucchesi 96
Meschi 96
Miao 96
Wang 96
Yu 96B
Abe 95N
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Abe 95ZI
Alexander 95E
Bishai 95B
Derwent 95
Papadimitrio 95
Skarha 95
Abe 94D
Abe 94ZF
Alam 94C
Bailey 94
Byrum 94
Cdfcollabora 94B
Cdfcollabora 94E
Dejongh 94
Garbincius 94
Jesik 94
Karen 94
Lewis 94
Mueller 94
Payne 94
Skarha 94

$\overline{K}^*(892)^0 J/\psi(1S)$
Laasanen 96
Abe 95E
Anwaywiese 95
Albrecht 94P
Hara 94

B^0

Plunkett 94
Shochet 94

$K^0 \chi_{c1}(1P)$
Alam 94C

$K^*(892)^0 \chi_{c1}(1P)$
Alam 94C

$K^0 \psi(2S)$
Alam 94C

$K_S \psi(2S)$
Abe 97ZI
Bauer 96
Abe 95N
Skarha 95
Abe 94D
Dejongh 94
Garbincius 94
Lewis 94
Mueller 94
Skarha 94

$K^*(892)^0 \psi(2S)$
Abe 98E
Abe 97ZI
Huffman 96
Lewis 96
Meschi 96
Miao 96
Abe 95N
Skarha 95
Abe 94D
Alam 94C
Dejongh 94
Garbincius 94
Lewis 94
Mueller 94
Skarha 94

$p \overline{p}$
Coan 98
Zachariadou 96

$\Lambda \overline{\Lambda}$
Coan 98

$\overline{\Lambda}_c^- p$
Fu 96

$\pi^- \ell^+ \nu$
Semenov 96

$\pi^+ \ell^- \overline{\nu} + \pi^- \ell^+ \nu$
Gibbons 95B

$\pi^- e^+ \nu_e$
Alexander 96F
Artuso 96

$\pi^- \mu^+ \nu_\mu$
Alexander 96F
Artuso 96

$\rho^- \ell^+ \nu$
Semenov 96

$\rho^+ \ell^- \overline{\nu} + \rho^- \ell^+ \nu$
Gibbons 95B

$\rho^- e^+ \nu_e$
Alexander 96F
Artuso 96

$\rho^- \mu^+ \nu_\mu$
Alexander 96F
Artuso 96

$K^*(892)^0 \nu \overline{\nu}$
Adam 96D

$K^*(892)^0 \mu^- \mu^+$
Abe 96D
Barnett 96
Paulini 96
Ragan 95

$\overline{K}^*(892)^0 \mu^- \mu^+$
Anwaywiese 95

$D^- \ell^+ \nu$
Schmitt 96B
Dejongh 94

$D^- e^+ \nu_e$
Bartelt 98
Athanas 97
Artuso 96
Buskulic 96W
Abreu 95L
Akers 95R
Alexander 95C

B^0

Buskulic 95L
Jones 94B
$D^- \mu^+ \nu_\mu$
Bartelt 98
Athanas 97
Artuso 96
Abreu 95L
Akers 95R
Alexander 95C
Buskulic 95L
$D^*(2010)^- \ell^+ \nu$
Alexander 96N
Schmitt 96B
Dejongh 94
$D^*(2010)^- \ell^+ \overline{\nu}$
Checchia 96
$D^*(2010)^- e^+ \nu_e$
Artuso 97
Abreu 96C
Ackerstaff 96J
Artuso 96
Buskulic 96W
Spaan 96
Abe 95ZN
Abreu 95L
Akers 95R
Albrecht 95H
Alexander 95C
Buskulic 95L
Duboscq 95
Ukegawa 95
Jones 94B
$D^*(2010)^- \mu^+ \nu_\mu$
Artuso 97
Abreu 96C
Ackerstaff 96J
Artuso 96
Buskulic 96W
Spaan 96
Abe 95ZN
Abreu 95L
Akers 95R
Albrecht 95H
Alexander 95C
Buskulic 95L
Duboscq 95
Ukegawa 95
$K^+ \eta' \pi^-$
Browder 98
$D^0 \pi^+ \pi^-$
Alam 94C
$\overline{D}^0 \pi^+ \pi^-$
Ross 95
$K^+ J/\psi(1S) \pi^-$
Karen 94
$K^- J/\psi(1S) \pi^+$
Albrecht 94P
$\overline{p} \Lambda \pi^+$
Coan 98
$p \overline{\Lambda} \pi^-$
Coan 98
$\overline{\Lambda}_c^- p \pi^0$
Fu 96
$2\pi^+ 2\pi^-$
Zachariadou 96
Abreu 95E
$K^+ \pi^+ 2\pi^-$
Zachariadou 96
Abreu 95E
$K^+ \eta' \pi^0 \pi^-$
Browder 98
$D^*(2010)^- 2\pi^+ \pi^-$
Ross 95
$p \overline{p} \pi^+ \pi^-$
Zachariadou 96
Abreu 95E
$\Lambda_c^+ \overline{p} \pi^+ \pi^-$
Payne 94
$\overline{\Lambda}_c^- p \pi^+ \pi^-$
Fu 96
$K^+ \eta' \pi^+ 2\pi^-$
Browder 98

B^0

$\overline{\Lambda}_c^- p \pi^+ \pi^0 \pi^-$
Fu 96
$K^+ \eta' \pi^+ \pi^0 2\pi^-$
Browder 98
$\overline{\Lambda}_c^- p 2\pi^+ 2\pi^-$
Fu 96
$\overline{\Lambda}_c^- p 2\pi^+ \pi^0 2\pi^-$
Fu 96

$\overline{B}$

Abe 99B
Abe 98H
Abe 98R
Acciarri 98E
Alexandrov 98
Barate 98B
Barate 98G
Barate 98M
Abe 97U
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Adam 97
Alexopoulos 97B
Barate 97ZB
Godang 97B
Abreu 96U
Acciarri 96O
Artuso 96
Busetto 96
Goy 96
Sciolla 96
Slaughter 96
Su 96
Wang 96
Abe 95I
Abreu 95R
Alexander 95I
Behnke 95
Papadimitrio 95
Podobrin 95
Skarha 95
Ward 95
Abreu 94K
Albrecht 94R
Buskulic 94L
Garbincius 94
Procario 93
X 0charm
Abreu 98
ℓ^- X
Buskulic 96R
e^+ X
Abreu 96B
Acciarri 96N
Ackerstaff 96O
Ammar 96
Buskulic 95R
Derwent 95
Marti 95
Carr 94
μ^- X
Abe 95U
μ^+ X
Adamovich 98
Abreu 96B
Acciarri 96N
Ackerstaff 96O
Ammar 96
Yu 96B
Abachi 95P
Buskulic 95R
Derwent 95
Incandela 95
Incandela 95B
Markosky 95
Marti 95
Roser 95
Barker 94
Carr 94
charged X
Abreu 98C
Abreu 95Q

$\overline{B}$

hadron (hadrons)
Abe 95ZD
Abe 95ZG
charged-hadron X
Acciarri 96N
Ackerstaff 96O
$\pi^\pm$ X
Barate 97ZC
π^0 X
Acciarri 96N
Adam 95
η X
Acciarri 96N
$K^\pm$ X
Barate 97ZC
K_S X
Abreu 95Q
charm X
Abreu 98
$\overline{\text{charm}}$ X
Gibbons 97
D^+ X
Coan 97B
King 94
D^0 X
Coan 97B
$\overline{D}$ X
Abe 99D
$\overline{D}^0$ X
Adamovich 98
Coan 97B
Gibbons 97
D^- X
Coan 97B
Gibbons 97
$D^*(2010)^+$ X
Albrecht 95H
King 94
$D^*(2010)^-$ X
Gibbons 97
Abreu 95S
$\overline{D}^*(2007)^0$ X
Gibbons 97
D_s^- X
Bishai 97B
Gibaut 95
D_s^{*-} X
Gibaut 95
$D_{s1}(2536)^-$ X
Bishai 97B
$\eta_c(1S)$ X
Balest 94C
$J/\psi(1S)$ X
Acciarri 98ZB
Abe 97F
Abe 97ZI
Abachi 96
Demina 96
Kaplan 96
Ohl 96
Papadimitrio 96B
Wenzel 96B
Abachi 95ZB
Alexander 95E
Bauer 95
Derwent 95
Balest 94C
Barker 94
Jansen 94
$\chi_{c1}(1P)$ X
Demina 96
Papadimitrio 96B
Bauer 95
Balest 94C
$\chi_{c2}(1P)$ X
Demina 96
Papadimitrio 96B
Bauer 95
Balest 94C
$\psi(2S)$ X
Ohl 96
Alexander 95E
Bauer 95
Derwent 95

$\overline{B}$

Balest 94C
Cdfcollabora 94F
p X
Barate 97ZC
$\overline{p}$ X
Barate 97ZC
$\overline{\Lambda}$ X
Ackerstaff 96M
Abreu 95Q
Λ_c^+ X
Bonvicini 97B
Ammar 96
$\overline{\Lambda}_c^-$ X
Ammar 96
Fujino 95
Ξ_c^+ X
Barish 97
Ξ_c^0 X
Barish 97
$\overline{\Xi}_c^0$ X
Fujino 95
$\overline{\Xi}_c^-$ X
Fujino 95
$e^+ \nu$ X
Barish 95
$e^- \overline{\nu}_e$ X
Wang 96B
$e^- e^+$ X
Balest 94C
μ^+ jet X
Markosky 95
$\mu^- \overline{\nu}_\mu$ X
Wang 96B
$\mu^- \mu^+$ X
Abbott 98B
Abachi 96I
Balest 94C
$\overline{D}^0 e^+$ X
Akers 95F
$D^- e^+$ X
Akers 95F
$\overline{D}^0 \mu^+$ X
Akers 95F
$D^- \mu^+$ X
Akers 95F
$D^*(2010)^- e^+$ X
Akers 95F
$D^*(2010)^- \mu^+$ X
Akers 95F
$\overline{D}_J(2440)^0 e^+$ X
Akers 95F
$D_J(2440)^- e^+$ X
Akers 95F
$\overline{D}_J(2440)^0 \mu^+$ X
Akers 95F
$D_J(2440)^- \mu^+$ X
Akers 95F
$\overline{D}_2^*(2460)^0 e^+$ X
Akers 95F
$D_2^*(2460)^- e^+$ X
Akers 95F
$\overline{D}_2^*(2460)^0 \mu^+$ X
Akers 95F
$D_2^*(2460)^- \mu^+$ X
Akers 95F
$\Lambda_c^+ e^-$ X
Bonvicini 97B
charged (chargeds) X
Buskulic 95R
Wormser 94
charged (chargeds) (neutrals)
Buskulic 96R
Akers 95X
hadron (hadrons) X
Abreu 95Q
$2\phi(1020)$ X
Balest 94C

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\overline{B}$

charm $\overline{\text{charm}}$ X
Abreu 98
$J/\psi(1S)$ γ X
Balest 94C
Λ_c^+ $\overline{p}$ X
Bonvicini 97B
e^+ ν hadron (hadrons)
0charm
Acciarri 98P
Barate 98J
μ^+ ν hadron (hadrons)
0charm
Acciarri 98P
Barate 98J
kaon (π's) e^- e^+
Glenn 97
kaon (π's) μ^- e^+
Glenn 97
kaon (π's) μ^+ e^-
Glenn 97
kaon (π's) μ^- μ^+
Glenn 97
D^+ e^- $\overline{\nu}_e$ X
Coan 97B
D^0 e^- $\overline{\nu}_e$ X
Coan 97B
Bauer 96
D^+ μ^- $\overline{\nu}_\mu$ X
Coan 97B
D^0 μ^- $\overline{\nu}_\mu$ X
Coan 97B
$\overline{D}^0$ π^- e^+ X
Akers 95F
D^- π^+ e^+ X
Akers 95F
$\overline{D}^0$ π^- μ^+ X
Akers 95F
D^- π^+ μ^+ X
Akers 95F
$D^*(2010)^+$ ℓ^- $\overline{\nu}$ X
Artuso 97B
$D^*(2010)^-$ e^+ ν_e X
Abreu 96C
$D^*(2010)^-$ μ^+ ν_μ X
Abreu 96C
$D^*(2010)^-$ π^+ e^+ X
Akers 95F
$D^*(2010)^-$ π^+ μ^+ X
Akers 95F
3charged-hadron X
Adamovich 98
$J/\psi(1S)$ π^+ π^- X
Balest 94C
π^+ π^- e^- e^+ X
Balest 94C
π^+ π^- μ^- μ^+ X
Balest 94C
$2K^+$ $2K^-$ X
Balest 94C
jet
Incandela 95
Incandela 95B
Roser 95
μ^- jet
Abachi 95R
μ^+ jet
Abachi 95M
Abachi 95P
Bazizi 95
Derwent 95
kaon π γ
Alam 94B
K_S π γ
Alam 94B
kaon 2π γ
Alam 94B
kaon π^0 π γ
Alam 94B
K_S 2π γ
Alam 94B
K_S π^0 π γ
Alam 94B

$\overline{B}$

kaon 3π γ
Alam 94B
kaon π^0 2π γ
Alam 94B
K_S 3π γ
Alam 94B
K_S π^0 2π γ
Alam 94B
kaon 4π γ
Alam 94B
kaon π^0 3π γ
Alam 94B
K_S 4π γ
Alam 94B
K_S π^0 3π γ
Alam 94B

$\overline{B}^0$

Abbiendi 98K
Acciarri 98X
Barate 98
Smith 98
Ackerstaff 97ZH
Coan 97B
Ackerstaff 96R
Furtjes 96
Slaughter 96
Abreu 95H
Acciarri 95H
Behnke 95
Acciarri 94D
Akers 94R
Buskulic 94C
Buskulic 94D
Garbincius 94
Lewis 94B
Abreu 93L
ℓ^- X
Alexander 96N
Buskulic 96R
Buskulic 96U
Jackson 96
Akers 95E
Akers 94G
e^- X
Abe 97B
μ^- X
Abe 97B
Abachi 95R
Abe 95U
Abe 95Y
Ragan 95
Albajar 93B
hadron (hadrons)
Jackson 96
Dejongh 94
η' X
Browder 98
K^- X
Albrecht 95H
$D^*(2010)^+$ X
Buskulic 96R
Albrecht 95H
Abreu 94K
Akers 94G
$J/\psi(1S)$ X
Garbincius 94
ℓ^- $\overline{\nu}$ X
Schmitt 96B
e^- charged X
Abreu 96U
e^- $\overline{\nu}_e$ X
Ross 95
μ^- charged X
Abreu 96U
μ^- $\overline{\nu}_\mu$ X
Ross 95
charmed-meson $\ell^\pm$ X
Abe 96T
D^+ ℓ^- X
Behnke 95
D^+ e^- X
Jones 94B
Wormser 94

$\overline{B}^0$

D^+ μ^- X
Dejongh 94
Wormser 94
$D^*(2010)^+$ ℓ^- X
Behnke 95
$D^*(2010)^+$ e^- X
Abreu 96V
Buskulic 96V
Jones 94B
Shochet 94
$D^*(2010)^+$ μ^- X
Abreu 96V
Buskulic 96V
Dejongh 94
charged (chargeds) (neutrals)
Abe 96ZE
Abe 96ZF
charged-hadron (charged-hadrons)X
Buskulic 96U
K^- charged X
Abreu 96U
ℓ^+ charged (chargeds) (neutrals)
Abe 96V
$e^\pm$ charged (chargeds) (neutrals)
Abe 96ZF
e^+ hadron (hadrons) (neutrals)
Buskulic 96F
$\mu^\pm$ charged (chargeds) (neutrals)
Abe 96ZF
μ^- hadron (hadrons) X
Ragan 95
μ^+ hadron (hadrons) (neutrals)
Buskulic 96F
$\overline{K}^*(892)^0$ μ^- μ^+ X
Abe 99D
$K^*(892)^-$ μ^- μ^+ X
Abe 99D
jet < $D^*(2010)^+$ ℓ^- X >
Akers 94B
$D^*(2010)^+$ ℓ^- $\overline{\nu}$ X
Alexander 96N
Lucchesi 96
$D^*(2010)^+$ e^- $\overline{\nu}_e$ X
Abe 98O
Abe 96E
Abreu 96C
Bauer 96
Skarha 94
$D^*(2010)^-$ e^+ ν_e X
Skarha 95
$D^*(2010)^+$ μ^- $\overline{\nu}_\mu$ X
Abe 98O
Abe 96E
Abreu 96C
Bauer 96
$D^*(2010)^-$ μ^+ ν_μ X
Wang 96
Papadimitrio 95
Skarha 95
2charged (chargeds) (neutrals)
Abe 96U
Adam 95B
K^+ charged (chargeds) (neutrals)
Abe 96W
B
Acciarri 98E
Acciarri 96O
B^0
Abe 99B
Abe 98P
Abe 98ZC

$\overline{B}^0$

Acciarri 98V
Ackerstaff 98
Abe 97ZB
Abreu 97H
Ackerstaff 97L
Ackerstaff 97M
Abe 96S
Abe 96V
Abe 96W
Abreu 96U
Alexander 96N
Barnett 96
Busetto 96
Buskulic 96F
Buskulic 96R
Checchia 96
Lucchesi 96
Abachi 95R
Abe 95U
Abe 95Y
Akers 95E
Albrecht 95H
Alexander 95H
Behnke 95
Derwent 95
Ragan 95
Skarha 95
Abreu 94J
Akers 94B
Akers 94G
Carr 94
$\overline{B}$
Abreu 94K
e^- e^+
Acciarri 96I
μ^- e^+
Abe 98ZD
Acciarri 96I
Wenzel 96
μ^+ e^-
Abe 98ZD
Acciarri 96I
Wenzel 96
μ^- μ^+
Abe 97ZK
Abachi 96I
Abe 96D
Acciarri 96I
Meschi 96
Paulini 96
Speer 96
Abe 95M
Ragan 95
Skarha 95
hadron$^+$ hadron$^-$
Buskulic 96S
π^+ π
Ehrlich 94
$2\pi^0$
Asner 95
π^+ π^-
Adam 96D
Buskulic 96S
Zachariadou 96
Asner 95
Akers 94K
Payne 94
η π^0
Behrens 97
Zachariadou 96
2η
Behrens 97
Zachariadou 96
ρ^+ π^-
Asner 95
ρ^0 π^0
Asner 95
ρ^- π^+
Asner 95
ρ^0 η
Behrens 97
ω π^0
Bergfeld 98

$\overline{B}^0$

$\omega\ \eta$
Bergfeld 98
$\omega\ \rho^0$
Bergfeld 98
2ω
Bergfeld 98
$\eta'\ \pi^0$
Behrens 97
$\eta'\ \eta$
Behrens 97
$\eta'\ \rho^0$
Behrens 97
$\eta'\ \omega$
Bergfeld 98
$2\eta'$
Behrens 97
$K^+\ \pi^-$
Asner 95
$\overline{K}^0\ \pi^0$
Asner 95
$K^-\ \pi^+$
Godang 97B
Adam 96D
Zachariadou 96
Akers 94K
Ehrlich 94
Payne 94
$\overline{K}^0\ \eta$
Behrens 97
$\overline{K}^0\ \rho^0$
Asner 95
$\overline{K}^0\ \omega$
Bergfeld 98
$\overline{K}^0\ \eta'$
Behrens 97
$K^-\ a_1(1260)^+$
Adam 96D
Zachariadou 96
$K^+\ K^-$
Adam 96D
Zachariadou 96
Asner 95
Akers 94K
Ehrlich 94
$\overline{K}^*(892)^0\ \gamma$
Adam 96D
Ehrlich 94
Payne 94
$\overline{K}^*(892)^0\ \pi^0$
Asner 95
$\overline{K}^*(892)^0\ \eta$
Behrens 97
$\overline{K}^*(892)^0\ \omega$
Bergfeld 98
$\overline{K}^*(892)^0\ \eta'$
Behrens 97
$\phi(1020)\ \pi^0$
Bergfeld 98
$\phi(1020)\ \eta$
Bergfeld 98
$\phi(1020)\ \rho^0$
Bergfeld 98
$\phi(1020)\ \omega$
Bergfeld 98
$\phi(1020)\ \eta'$
Bergfeld 98
$\overline{K}^0\ \phi(1020)$
Bergfeld 98
Asner 95
$\overline{K}^*(892)^0\ \phi(1020)$
Bergfeld 98
Asner 95
$2\phi(1020)$
Bergfeld 98
Asner 95
D^0 neutral
Nemati 97
$D^+\ \pi^-$
Artuso 96
Buskulic 96V
Ross 95

$\overline{B}^0$

Alam 94C
Dejongh 94
Payne 94
$D^0\ \pi^0$
Nemati 97
Alam 94C
$D^0\ \eta$
Nemati 97
Alam 94C
$D^+\ \rho^-$
Artuso 96
Alam 94C
Payne 94
$D^0\ \rho^0$
Nemati 97
Alam 94C
$D^0\ \omega$
Nemati 97
Alam 94C
$D^0\ \eta'$
Nemati 97
Alam 94C
$D^+\ D^-$
Asner 97
$D^*(2010)^+\ \pi^-$
Brandenburg 97
Buskulic 96V
Wang 96B
Ross 95
Dejongh 94
Payne 94
$D^*(2010)^+\ \rho^-$
Buskulic 96V
Ross 95
$D^*(2010)^+\ a_1(1260)^-$
Buskulic 96V
$D^*(2010)^+\ D^-$
Asner 97
$D^*(2010)^-\ D^+$
Asner 97
$D^*(2010)^+\ D^*(2010)^-$
Artuso 98
Barate 98G
Asner 97
$D^*(2007)^0$ neutral
Nemati 97
$D^*(2007)^0\ \pi^0$
Nemati 97
Alam 94C
$D^*(2007)^0\ \eta$
Nemati 97
Alam 94C
$D^*(2007)^0\ \rho^0$
Nemati 97
Alam 94C
$D^*(2007)^0\ \omega$
Nemati 97
Alam 94C
$D^*(2007)^0\ \eta'$
Nemati 97
Alam 94C
$D_s^-\ D^+$
Gibaut 95
$D_s^-\ D^*(2010)^+$
Gibaut 95
$D_s^{*-}\ D^+$
Gibaut 95
$D_s^{*-}\ D^*(2010)^+$
Artuso 95B
Gibaut 95
$J/\psi(1S)\ \pi^0$
Acciarri 96J
Bishai 95B
Alexander 94B
Payne 94
$J/\psi(1S)\ \eta$
Acciarri 96J
$J/\psi(1S)\ \rho^0$
Bishai 95B
$J/\psi(1S)\ \omega$
Bishai 95B

$\overline{B}^0$

$\overline{K}^0\ J/\psi(1S)$
Abe 96K
Lucchesi 96
Miao 96
Abe 95ZI
Ross 95
$K_S\ J/\psi(1S)$
Abe 98P
Ackerstaff 98
Abe 97ZI
Abe 96P
Bauer 96
Buskulic 96V
Wang 96
Yu 96B
Abe 95N
Alexander 95E
Papadimitrio 95
Skarha 95
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94
$K^*(892)^0\ J/\psi(1S)$
Laasanen 96
Abe 95E
Anwaywiese 95
Albrecht 94P
Hara 94
Plunkett 94
Shochet 94
$\overline{K}^*(892)^0\ J/\psi(1S)$
Abe 98E
Abe 97ZI
Jessop 97
Abe 96K
Barnett 96
Bauer 96
Buskulic 96V
Huffman 96
Lewis 96
Lucchesi 96
Meschi 96
Miao 96
Wang 96
Yu 96B
Abe 95N
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Abe 95ZI
Alexander 95E
Bishai 95B
Derwent 95
Papadimitrio 95
Ross 95
Skarha 95
Abe 94ZF
Byrum 94
Cdfcollabora 94B
Dejongh 94
Garbincius 94
Karen 94
Lewis 94
Payne 94
Skarha 94
$\overline{K}^0\ \psi(2S)$
Ross 95
$K_S\ \psi(2S)$
Abe 97ZI
Bauer 96
Abe 95N
Skarha 95
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94
$\overline{K}^*(892)^0\ \psi(2S)$
Abe 98E
Abe 97ZI
Huffman 96
Lewis 96

$\overline{B}^0$

Meschi 96
Miao 96
Abe 95N
Ross 95
Skarha 95
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94
$p\ \overline{p}$
Coan 98
Zachariadou 96
$\Lambda\ \overline{\Lambda}$
Coan 98
$\Lambda_c^+\ \overline{p}$
Fu 96
$\Sigma_c(2455)^{++}\ \overline{\Delta}(1232\ P_{33})^{--}$
Procario 93
$\pi^+\ \ell^-\ \overline{\nu}\ +\ \pi^-\ \ell^+\ \nu$
Gibbons 95B
$\pi^+\ e^-\ \overline{\nu}_e$
Alexander 96F
Artuso 96
$\pi^+\ \mu^-\ \overline{\nu}_\mu$
Alexander 96F
Artuso 96
$\rho^+\ \ell^-\ \overline{\nu}\ +\ \rho^-\ \ell^+\ \nu$
Gibbons 95B
$\rho^+\ e^-\ \overline{\nu}_e$
Alexander 96F
Artuso 96
$\rho^+\ \mu^-\ \overline{\nu}_\mu$
Alexander 96F
Artuso 96
$\overline{K}^*(892)^0\ \nu\ \overline{\nu}$
Adam 96D
$K^*(892)^0\ \mu^-\ \mu^+$
Anwaywiese 95
$\overline{K}^*(892)^0\ \mu^-\ \mu^+$
Abe 96D
Barnett 96
Paulini 96
Ragan 95
$D^+\ \ell^-\ \overline{\nu}$
Schmitt 96B
Athanas 94
Dejongh 94
$D^+\ e^-\ \overline{\nu}_e$
Bartelt 98
Athanas 97
Artuso 96
Buskulic 96W
Abreu 95L
Akers 95R
Alexander 95C
Buskulic 95L
Jones 94B
$D^+\ \mu^-\ \overline{\nu}_\mu$
Bartelt 98
Athanas 97
Artuso 96
Buskulic 96W
Abreu 95L
Akers 95R
Alexander 95C
Buskulic 95L
$D^*(2010)^+\ \ell^-\ \nu$
Buskulic 93D
$D^*(2010)^+\ \ell^-\ \overline{\nu}$
Alexander 96N
Checchia 96
Schmitt 96B
Athanas 94
Barish 94
Dejongh 94
$D^*(2010)^+\ e^-\ \overline{\nu}_e$
Artuso 97
Abreu 96C
Ackerstaff 96J
Artuso 96
Buskulic 96W
Spaan 96

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\overline{B}^0$

Abe 95ZN
Abreu 95L
Akers 95R
Albrecht 95H
Alexander 95C
Buskulic 95L
Buskulic 95S
Duboscq 95
Ross 95
Ukegawa 95
Jones 94B
Albrecht 93D

$D^*(2010)^+ \mu^- \overline{\nu}_\mu$
Artuso 97
Abreu 96C
Ackerstaff 96J
Artuso 96
Buskulic 96W
Spaan 96
Abe 95ZN
Abreu 95L
Akers 95R
Albrecht 95H
Alexander 95C
Buskulic 95L
Buskulic 95S
Duboscq 95
Ross 95
Ukegawa 95
Albrecht 94U
Albrecht 93D

$K^- \eta' \pi^+$
Browder 98

$D^0 \overline{D}^0 K^0$
Barate 98G

$D^+ D^- K^0$
Barate 98G

$D^+ \overline{D}^0 K^-$
Barate 98G

$D^*(2010)^+ D^- K^0$
Barate 98G

$D^*(2010)^+ \overline{D}^0 K^-$
Barate 98G

$D^*(2010)^- D^+ K^0$
Barate 98G

$D^*(2010)^+ D^*(2010)^- K^0$
Barate 98G

$\overline{D}^*(2007)^0 D^+ K^-$
Barate 98G

$D^*(2010)^+ \overline{D}^*(2007)^0 K^-$
Barate 98G

$K^+ J/\psi(1S) \pi^-$
Albrecht 94P

$K^- J/\psi(1S) \pi^+$
Ross 95
Karen 94

$\overline{p} \Lambda \pi^+$
Coan 98

$p \overline{\Lambda} \pi^-$
Coan 98

$\Lambda_c^+ \overline{p} \pi^0$
Fu 96

$D^*(2010)^+ \pi^0 e^- \overline{\nu}_e$
Ross 95

$D^*(2010)^+ \pi^0 \mu^- \overline{\nu}_\mu$
Ross 95

$D^*(2007)^0 \pi^+ e^- \overline{\nu}_e$
Ross 95

$D^*(2007)^0 \pi^+ \mu^- \overline{\nu}_\mu$
Ross 95

$2\pi^+ 2\pi^-$
Zachariadou 96

$K^- 2\pi^+ \pi^-$
Zachariadou 96

$K^- \eta' \pi^+ \pi^0$
Browder 98

$D^*(2010)^+ \pi^+ 2\pi^-$
Ross 95

$p \overline{p} \pi^+ \pi^-$
Zachariadou 96

$\Lambda_c^+ \overline{p} \pi^+ \pi^-$
Fu 96

$\overline{B}^0$

$\overline{\Lambda}_c^- p \pi^+ \pi^-$
Payne 94

$K^- \eta' 2\pi^+ \pi^-$
Browder 98

$\Lambda_c^+ \overline{p} \pi^+ \pi^0 \pi^-$
Fu 96

$K^- \eta' 2\pi^+ \pi^0 \pi^-$
Browder 98

$\Lambda_c^+ \overline{p} 2\pi^+ 2\pi^-$
Fu 96

$\Lambda_c^+ \overline{p} 2\pi^+ \pi^0 2\pi^-$
Fu 96

B^-

Abbiendi 98K
Abe 98ZC
Acciarri 98X
Barate 98
Smith 98
Abe 97ZB
Ackerstaff 97ZH
Coan 97B
Ackerstaff 96R
Furtjes 96
Slaughter 96
Abreu 95H
Albrecht 95H
Akers 94R
Garbincius 94

$\ell^- X$
Jackson 96

$e^- X$
Abe 97B
Artuso 97

$e^+ X$
Artuso 97

$\mu^- X$
Abe 97B

hadron (hadrons)
Jackson 96
Dejongh 94

$\eta' X$
Browder 98

$J/\psi(1S) X$
Garbincius 94

$\ell^- \overline{\nu} X$
Schmitt 96B

charmed-meson $\ell^\pm$ X
Abe 96T

$D^0 \ell^- X$
Behnke 95

$D^0 e^- X$
Jones 94B
Lewis 94B
Shochet 94
Wormser 94

$D^0 \mu^- X$
Dejongh 94
Lewis 94B
Wormser 94

$D^*(2010)^+ e^- X$
Buskulic 96V
Lewis 94B

$D^*(2010)^+ \mu^- X$
Buskulic 96V
Lewis 94B

$D^*(2007)^0 e^- X$
Jones 94B

charged (chargeds) (neutrals)
Abe 96U
Abe 96ZE
Abe 96ZF
Adam 95B

$K^*(892)^+ \mu^- \mu^+ X$
Abe 99D

$K^*(892)^0 \mu^- \mu^+ X$
Abe 99D

$D^0 \ell^- \overline{\nu} X$
Lucchesi 96

$D^0 e^- \nu_e X$
Abe 98O

B^-

$D^0 e^- \overline{\nu}_e X$
Abe 96E
Bauer 96
Skarha 95
Skarha 94

$D^0 \mu^- \overline{\nu}_\mu X$
Abe 98O
Abe 96E
Bauer 96
Wang 96
Papadimitrio 95
Skarha 95

$D_1(2420)^0 \mu^- \overline{\nu}_\mu X$
Buskulic 94L

$D_2^*(2460)^0 \mu^- \overline{\nu}_\mu X$
Buskulic 94L

$e^\pm$ 2charged (chargeds) (neutrals)
Abe 96ZF

$\mu^\pm$ 2charged (chargeds) (neutrals)
Abe 96ZF

nonres $< D^*(2010)^+ \pi^- >$ $\mu^- \overline{\nu}_\mu X$
Buskulic 94L

$e^- \overline{\nu}_e$
Artuso 95

$\mu^- \overline{\nu}_\mu$
Artuso 95

$\tau^- \overline{\nu}_\tau$
Acciarri 96L
Artuso 95
Buskulic 95
Albrecht 94U

$\pi^0 \pi^-$
Asner 95

$\eta \pi^-$
Behrens 97

$\rho^0 \pi^-$
Adam 96D
Zachariadou 96
Asner 95

$\rho^- \pi^0$
Asner 95

$\rho^- \eta$
Behrens 97

ω hadron$^-$
Bergfeld 98

$\omega \pi^-$
Bergfeld 98

$\omega \rho^-$
Bergfeld 98

$\eta' \pi^-$
Behrens 97

$\eta' \rho^-$
Behrens 97

$\overline{K}^0 \pi^-$
Godang 97B
Asner 95

$K^- \pi^0$
Asner 95

$K^- \pi^0 + \pi^0 \pi^-$
Godang 97B

$K^- \eta$
Behrens 97

$\overline{K}^0 \rho^-$
Asner 95

$K^- \rho^0$
Zachariadou 96
Asner 95

$K^- \omega$
Bergfeld 98

$K^- \eta'$
Browder 98
Behrens 97

$K^*(892)^- \gamma$
Ehrlich 94
Payne 94

$K^*(892)^0 \pi^-$
Adam 96D
Zachariadou 96

B^-

Asner 95

$K^*(892)^- \pi^0$
Asner 95

$K^*(892)^- \eta$
Behrens 97

$K^*(892)^- \omega$
Bergfeld 98

$K^*(892)^- \eta'$
Behrens 97

$\phi(1020)$ hadron$^-$
Bergfeld 98

$\phi(1020) \pi^-$
Bergfeld 98

$\phi(1020) \rho^-$
Bergfeld 98

$K^- \phi(1020)$
Bergfeld 98
Adam 96D
Zachariadou 96
Asner 95

$K^*(892)^- \phi(1020)$
Bergfeld 98
Asner 95

$D^0 \pi^-$
Athanas 98
Ross 95
Alam 94C
Payne 94

$\overline{D}^0 \pi^-$
Buskulic 96V

$D^0 \rho^-$
Ross 95
Alam 94C
Payne 94

$\overline{D}^0 a_1(1260)^-$
Buskulic 96V

$D^0 K^-$
Athanas 98

$D^0 D^-$
Barate 98G

$D^*(2010)^- D^0$
Barate 98G

$D^*(2007)^0 \pi^-$
Brandenburg 97
Ross 95
Alam 94C
Payne 94

$D^*(2007)^0 \rho^-$
Ross 95
Alam 94C
Payne 94

$D^*(2007)^0 D^-$
Barate 98G

$D_s^- D^0$
Barate 98G
Gibaut 95
Ross 95

$D_s^- D^*(2007)^0$
Gibaut 95

$D_s^{*-} D^0$
Gibaut 95

$D_s^{*-} D^*(2007)^0$
Gibaut 95

$D_1(2420)^0 \pi^-$
Ross 95
Alam 94C
Albrecht 94I

$D_1(2420)^0 \rho^-$
Ross 95
Alam 94C

$D_J(2440)^0 \pi^-$
Ross 95

$D_J(2440)^0 \rho^-$
Ross 95

$D_2^*(2460)^0 \pi^-$
Alam 94C
Albrecht 94I

$D_2^*(2460)^0 \rho^-$
Alam 94C

B^-

$J/\psi(1S)\ \pi^-$
Abe 96N
Lewis 96
Meschi 96
Miao 96
Abe 95O
Bishai 95B
Skarha 95
Alexander 94B
Payne 94

$J/\psi(1S)\ \rho^-$
Bishai 95B

$J/\psi(1S)\ a_1(1260)^-$
Bishai 95B

$K^-\ J/\psi(1S)$
Abe 97ZI
Abe 96K
Abe 96N
Barnett 96
Bauer 96
Buskulic 96V
Huffman 96
Laasanen 96
Lewis 96
Lucchesi 96
Meschi 96
Miao 96
Wang 96
Yu 96B
Abe 95E
Abe 95N
Abe 95O
Abe 95P
Abe 95X
Abe 95ZI
Alexander 95E
Anwaywiese 95
Bishai 95B
Derwent 95
Papadimitrio 95
Ross 95
Skarha 95
Alam 94C
Alexander 94B
Anwaywiese 94
Bailey 94
Byrum 94
Cdfcollabora 94E
Dejongh 94
Garbincius 94
Hara 94
Lewis 94
Payne 94
Plunkett 94
Shochet 94
Skarha 94

$K^*(892)^-\ J/\psi(1S)$
Abe 97ZI
Jessop 97
Abe 96K
Bauer 96
Buskulic 96V
Lucchesi 96
Miao 96
Wang 96
Yu 96B
Abe 95N
Abe 95ZI
Papadimitrio 95
Ross 95
Skarha 95
Alam 94C
Albrecht 94P
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94

$K^-\ \chi_{c1}(1P)$
Alam 94C

$K^*(892)^-\ \chi_{c1}(1P)$
Alam 94C

$K^-\ \psi(2S)$
Abe 98E
Abe 97ZI
Bauer 96
Huffman 96
Lewis 96
Meschi 96
Miao 96
Abe 95N
Ross 95
Skarha 95
Alam 94C
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94

$K^*(892)^-\ \psi(2S)$
Abe 97ZI
Bauer 96
Abe 95N
Ross 95
Skarha 95
Alam 94C
Dejongh 94
Garbincius 94
Lewis 94
Skarha 94

$\overline{p}\ \Lambda$
Coan 98

$e^-\ \overline{\nu}_e\ \gamma$
Browder 97B

$\mu^-\ \overline{\nu}_\mu\ \gamma$
Browder 97B

$\pi^0\ e^-\ \overline{\nu}_e$
Alexander 96F
Artuso 96

$\pi^0\ \mu^-\ \overline{\nu}_\mu$
Alexander 96F
Artuso 96

$\rho^0\ e^-\ \overline{\nu}_e$
Alexander 96F
Artuso 96

$\rho^0\ \mu^-\ \overline{\nu}_\mu$
Alexander 96F
Artuso 96

$\omega\ e^-\ \overline{\nu}_e$
Alexander 96F
Artuso 96

$\omega\ \mu^-\ \overline{\nu}_\mu$
Alexander 96F
Artuso 96

$K^-\ \mu^-\ \mu^+$
Abe 96D
Barnett 96
Paulini 96
Anwaywiese 95
Ragan 95
Skarha 95
Anwaywiese 94

$D^0\ \ell^-\ \nu$
Buskulic 93D

$D^0\ \ell^-\ \overline{\nu}$
Schmitt 96B
Athanas 94
Dejongh 94

$D^0\ e^-\ \overline{\nu}_e$
Bartelt 98
Athanas 97
Artuso 96
Abreu 95L
Akers 95R
Alexander 95C
Buskulic 95L
Ross 95
Ukegawa 95
Jones 94B

$D^0\ \mu^-\ \overline{\nu}_\mu$
Bartelt 98
Athanas 97
Artuso 96
Abreu 95L
Akers 95R
Alexander 95C
Buskulic 95L
Ross 95
Ukegawa 95

$D^*(2007)^0\ \ell^-\ \overline{\nu}$
Schmitt 96B
Athanas 94
Barish 94
Dejongh 94

$D^*(2007)^0\ e^-\ \overline{\nu}_e$
Abe 95ZN
Ross 95
Jones 94B

$D^*(2007)^0\ \mu^-\ \overline{\nu}_\mu$
Abe 95ZN
Ross 95
Lecompte 94

$D_1(2420)^0\ e^-\ \overline{\nu}_e$
Anastassov 97

$D_1(2420)^0\ \mu^-\ \overline{\nu}_\mu$
Anastassov 97

$D_2^*(2460)^0\ e^-\ \overline{\nu}_e$
Anastassov 97

$D_2^*(2460)^0\ \mu^-\ \overline{\nu}_\mu$
Anastassov 97

$\pi^+\ 2\pi^-$
Adam 96D
Bergfeld 96
Zachariadou 96
Abreu 95E

$K^+\ 2\pi^-$
Bergfeld 96

$K^-\ \pi^+\ \pi^-$
Adam 96D
Bergfeld 96
Zachariadou 96
Abreu 95E

$K^-\ \eta'\ \pi^0$
Browder 98

$K^+\ K^-\ \pi^-$
Bergfeld 96

$K^+\ 2K^-$
Adam 96D
Bergfeld 96
Zachariadou 96
Abreu 95E

$D^+\ 2\pi^-$
Ross 95
Alam 94C

$D^0\ D^-\ K^0$
Barate 98G

$D^*(2010)^+\ 2\pi^-$
Alam 94C

$D^*(2010)^-\ D^0\ K^0$
Barate 98G

$D^*(2007)^0\ D^*(2010)^-\ K^0$
Barate 98G

$D^*(2007)^0\ D^-\ K^0$
Barate 98G

$D^*(2007)^0\ \overline{D}^0\ K^-$
Barate 98G

$\overline{D}^*(2007)^0\ D^0\ K^-$
Barate 98G

$D^*(2007)^0\ \overline{D}^*(2007)^0\ K^-$
Barate 98G

$\overline{K}^0\ J/\psi(1S)\ \pi^-$
Albrecht 94P

$K^-\ J/\psi(1S)\ \pi^0$
Albrecht 94P

$p\ \overline{p}\ \pi^-$
Bergfeld 96
Zachariadou 96
Abreu 95E

$p\ \overline{p}\ K^-$
Bergfeld 96

$\Lambda_c^+\ \overline{p}\ \pi^-$
Fu 96
Payne 94

$\Lambda_c^+\ \overline{p}\ e^-\ \overline{\nu}_e$
Bonvicini 97B

$K^-\ \eta'\ \pi^+\ \pi^-$
Browder 98

$D^*(2007)^0\ \pi^+\ 2\pi^-$
Ross 95
Alam 94C

$K^-\ J/\psi(1S)\ \pi^+\ \pi^-$
Ross 95

$\Lambda_c^+\ \overline{p}\ \pi^0\ \pi^-$
Fu 96

$K^-\ 2\pi^+\ 2\pi^-$
Albrecht 94U

$K^-\ \eta'\ \pi^+\ \pi^0\ \pi^-$
Browder 98

$\Lambda_c^+\ \overline{p}\ \pi^+\ 2\pi^-$
Fu 96
Payne 94

$\Lambda_c^+\ \overline{p}\ \pi^+\ \pi^0\ 2\pi^-$
Fu 96

B(unspec)

$\eta\ X$
Semenov 96
Kubota 96

$\overline{B}$(unspec)

Kubota 96

B^*

$B\ \gamma$
Goy 96
Semenov 96
Abreu 95R
Buskulic 95V
Akers 94R
Sciolla 96
Acciarri 95D

$B\ \pi$
Furtjes 96

B^{*+}

$B^+\ \gamma$
Barate 98
Goy 96
Buskulic 95V
Akers 94R
Ackerstaff 97ZH
Ackerstaff 96R
Furtjes 96
Abreu 95H

B^{*0}

$B^0\ \gamma$
Barate 98
Ackerstaff 97ZH
Ackerstaff 96R
Furtjes 96
Abreu 95H

$\overline{B}^*$

$\overline{B}\ \gamma$
Goy 96
Abreu 95R
Sciolla 96

$B\ \pi$
Furtjes 96

$\overline{B}^{*0}$

$\overline{B}^0\ \gamma$
Barate 98
Ackerstaff 97ZH
Ackerstaff 96R
Furtjes 96
Abreu 95H

B^{*-}

$B^-\ \gamma$
Barate 98
Goy 96
Ackerstaff 97ZH
Ackerstaff 96R
Furtjes 96
Abreu 95H

$B_J^*(5732)$

Abe 97ZB
Ackerstaff 97Y

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$B_J^*(5732)$

$B\ \pi^+$
Sciolla 96
Abreu 95R

$B\ \pi^-$
Sciolla 96
Abreu 95R

$B^0\ \pi^-$
Barate 98

$B^-\ \pi^+$
Barate 98

$\pi\ B^*$
Buskulic 95V
Akers 94R

$\pi^+\ B^*$
Sciolla 96
Abreu 95R

$\pi^-\ B^*$
Sciolla 96
Abreu 95R

$B^{*+}\ \pi^-$
Goy 96

$B^{*0}\ \pi^-$
Barate 98

$B^{*-}\ \pi^+$
Barate 98

$\overline{B}_J^*(5732)$

Abe 97ZB
Ackerstaff 97Y

$B^+\ \pi^-$
Barate 98

$\overline{B}\ \pi^+$
Sciolla 96
Abreu 95R

$\overline{B}\ \pi^-$
Sciolla 96
Abreu 95R

$\overline{B}^0\ \pi^+$
Barate 98

$B^{*+}\ \pi^-$
Barate 98

$\pi^+\ \overline{B}^*$
Sciolla 96
Abreu 95R

$\pi^-\ \overline{B}^*$
Sciolla 96
Abreu 95R

$\overline{B}^{*0}\ \pi^+$
Barate 98

$B^{*-}\ \pi^+$
Goy 96

B^*(unspec)

$B\ \gamma$
Podobrin 95

$B^{*+}\ \pi^-$
Buskulic 95V

$\overline{B}^*$(unspec)

$\overline{B}\ \gamma$
Podobrin 95

B_s

Acciarri 98X
Ackerstaff 97ZH
Abe 96D
Ackerstaff 96R
Podobrin 95

ℓ^+ X
Akers 95E
Buskulic 95U

μ^+ X
Ragan 95

jet$^-$ X
Buskulic 95U

D_s^- X
Ackerstaff 97N
Buskulic 95I

$\phi(1020)\ e^+$ X
Wormser 94

$\phi(1020)\ \mu^+$ X
Wormser 94

$D_s^-\ \ell^+$ X
Buskulic 96U

B_s

$D_s^-\ e^+$ X
Lewis 94B
Wormser 94

$D_s^-\ \mu^+$ X
Lewis 94B
Wormser 94

$D_s^{*-}\ \ell^+$ X
Buskulic 96U

D_s^- hadron (hadrons)
Barate 97ZB

e^- hadron (hadrons) (neutrals)
Buskulic 96F

μ^+ hadron (hadrons) X
Ragan 95

$\phi(1020)\ \mu^-\ \mu^+$ X
Abe 99D

$D_s^-\ \ell^+\ \nu$ X
Mueller 94

$D_s^+\ e^-\ \overline{\nu}_e$ X
Lecompte 94
Skarha 94

$D_s^-\ e^+\ \nu_e$ X
Ackerstaff 97ZF
Abreu 96O
Buskulic 95T
Skarha 95
Abe 94ZH

$D_s^-\ \mu^+\ \nu_\mu$ X
Ackerstaff 97ZF
Abreu 96O
Buskulic 95T
Skarha 95
Abe 94ZH

$\overline{B}_s$
Barate 98M
Ackerstaff 97L
Ackerstaff 97M
Adam 97
Barate 97ZB
Barnett 96
Buskulic 96F
Buskulic 96U
Checchia 96
Akers 95E
Behnke 95
Buskulic 95U
Ragan 95
Abreu 94J
Acciarri 94D
Buskulic 94C
Buskulic 94D
Carr 94
Abreu 93L

$e^-\ e^+$
Acciarri 96I

$\mu^-\ e^+$
Abe 98ZD
Acciarri 96I

$\mu^+\ e^-$
Abe 98ZD
Acciarri 96I
Wenzel 96

$\mu^-\ \mu^+$
Abe 97ZK
Acciarri 96I
Meschi 96
Paulini 96
Speer 96
Abe 95M
Ragan 95
Skarha 95

hadron$^+$ hadron$^-$
Buskulic 96S

2γ
Acciarri 95H

$2\pi^0$
Acciarri 95P

$\pi^+\ \pi^-$
Adam 96D
Zachariadou 96

B_s

$\eta\ \pi^0$
Acciarri 95P

2η
Acciarri 95P

$K^+\ \pi^-$
Adam 96D

$K^-\ \pi^+$
Buskulic 96S
Zachariadou 96
Akers 94K

$K^+\ a_1(1260)^-$
Adam 96D
Zachariadou 96

$K^+\ K^-$
Adam 96D
Zachariadou 96
Akers 94K

$\phi(1020)\ \gamma$
Adam 96D

$D_s^-\ \pi^+$
Abreu 94I
Akers 94H
Wormser 94

$D_s^-\ a_1(1260)^+$
Abreu 94I
Wormser 94

$J/\psi(1S)\ \pi^0$
Acciarri 96J

$J/\psi(1S)\ \eta$
Acciarri 96J

$J/\psi(1S)\ \phi(1020)$
Abe 97ZI
Abe 96H
Abe 96K
Barnett 96
Bauer 96
Meschi 96
Miao 96
Yu 96B
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Alexander 95E
Derwent 95
Skarha 95
Abe 94X
Abe 94ZH
Abreu 94I
Akers 94H
Hara 94
Lewis 94
Mueller 94
Shochet 94
Skarha 94
Wormser 94

$\psi(2S)\ \phi(1020)$
Wormser 94

$p\ \overline{p}$
Zachariadou 96

$\phi(1020)\ \nu\ \overline{\nu}$
Adam 96D

$D_s^-\ \ell^+\ \nu$
Barate 97ZB
Buskulic 94B

$D_s^-\ e^+\ \nu_e$
Abe 99E
Bauer 96
Akers 95P
Derwent 95
Abe 94X
Jones 94B
Shochet 94

$D_s^-\ \mu^+\ \nu_\mu$
Abe 99E
Bauer 96
Akers 95P
Abe 94X
Shochet 94

$K^+\ \pi^+\ 2\pi^-$
Abreu 95E

$\overline{B}_s$

Acciarri 98X
Ackerstaff 97ZH
Abe 96D
Ackerstaff 96R
Acciarri 95H
Behnke 95
Buskulic 95T
Buskulic 95U
Podobrin 95
Acciarri 94D
Buskulic 94B
Buskulic 94C
Buskulic 94D
Abreu 93L

ℓ^- X
Akers 95E

μ^- X
Ragan 95

D_s^+ X
Ackerstaff 97N
Buskulic 95I
Abreu 94

$\phi(1020)\ e^-$ X
Wormser 94

$\phi(1020)\ \mu^-$ X
Wormser 94

$D_s^+\ \ell^-$ X
Buskulic 96U

$D_s^+\ e^-$ X
Lewis 94B
Wormser 94

$D_s^+\ \mu^-$ X
Lewis 94B
Wormser 94

$D_s^{*+}\ \ell^-$ X
Buskulic 96U

D_s^+ hadron (hadrons)
Barate 97ZB

e^+ hadron (hadrons) (neutrals)
Buskulic 96F

μ^- hadron (hadrons) X
Ragan 95

μ^- hadron (hadrons) (neutrals)
Buskulic 96F

μ^+ hadron (hadrons) (neutrals)
Buskulic 96F

$\phi(1020)\ \mu^-\ \mu^+$ X
Abe 99D

$\phi(1020)\ \mu^+\ \overline{\nu}_\mu$ X
Abreu 94

$D_s^+\ e^-\ \overline{\nu}_e$ X
Ackerstaff 97ZF
Abreu 96O
Skarha 95
Abe 94ZH

$D_s^-\ e^+\ \nu_e$ X
Skarha 94

$D_s^+\ \mu^-\ \overline{\nu}_\mu$ X
Ackerstaff 97ZF
Abreu 96O
Skarha 95
Abe 94ZH

B_s
Barate 98M
Ackerstaff 97L
Ackerstaff 97M
Adam 97
Barate 97ZB
Barnett 96
Buskulic 96F
Buskulic 96U
Checchia 96
Akers 95E
Ragan 95
Abreu 94J
Carr 94

$\overline{B}_s$

$e^- e^+$
Acciarri 96I
$\mu^- e^+$
Abe 98ZD
Acciarri 96I
Wenzel 96
$\mu^+ e^-$
Abe 98ZD
Acciarri 96I
$\mu^- \mu^+$
Abe 97ZK
Acciarri 96I
Meschi 96
Paulini 96
Speer 96
Abe 95M
Ragan 95
Skarha 95
hadron$^+$ hadron$^-$
Buskulic 96S
$\pi^+ \pi^-$
Adam 96D
Zachariadou 96
$K^+ \pi^-$
Buskulic 96S
Zachariadou 96
Akers 94K
$K^- \pi^+$
Adam 96D
$K^- a_1(1260)^+$
Adam 96D
Zachariadou 96
$K^+ K^-$
Adam 96D
Zachariadou 96
$\phi(1020)\ \gamma$
Adam 96D
$D_s^+ \pi^-$
Abreu 94I
Wormser 94
$D_s^+ a_1(1260)^-$
Abreu 94I
Wormser 94
$J/\psi(1S)\ \pi^0$
Acciarri 96J
$J/\psi(1S)\ \eta$
Acciarri 96J
$J/\psi(1S)\ \phi(1020)$
Abe 97ZI
Abe 96H
Abe 96K
Barnett 96
Bauer 96
Meschi 96
Miao 96
Yu 96B
Abe 95P
Abe 95R
Abe 95ZB
Abe 95ZC
Alexander 95E
Derwent 95
Skarha 95
Abe 94X
Abe 94ZH
Abreu 94I
Hara 94
Lewis 94
Shochet 94
Skarha 94
Wormser 94
$\psi(2S)\ \phi(1020)$
Wormser 94
$p\ \overline{p}$
Zachariadou 96
$\phi(1020)\ \nu\ \overline{\nu}$
Adam 96D
$D_s^+\ \ell^-\ \overline{\nu}$
Barate 97ZB
$D_s^+\ e^-\ \overline{\nu}_e$
Abe 99E
Bauer 96
Akers 95P

$\overline{B}_s$

Derwent 95
Abe 94X
Jones 94B
Shochet 94
$D_s^+\ \mu^-\ \overline{\nu}_\mu$
Abe 99E
Bauer 96
Akers 95P
Abe 94X
Shochet 94

B_s^*

Ackerstaff 97Y
$B_s\ \gamma$
Ackerstaff 97ZH
Ackerstaff 96R

$\overline{B}_s^*$

Ackerstaff 97Y
$\overline{B}_s\ \gamma$
Ackerstaff 97ZH
Ackerstaff 96R

$B_{sJ}^*(5850)$

$B^{*+}\ \pi^-$
Akers 94R
$B^{*+}\ K^-$
Akers 94R

B_c^+

$J/\psi(1S)\ \pi^+$
Ackerstaff 97ZB
Barate 97I
Abe 96N
Abreu 96Z
Bauer 96
Huffman 96
Lewis 96
Ohl 96
Speer 96
Abe 95X
Alexander 95E
Papadimitrio 95
$J/\psi(1S)\ a_1(1260)^+$
Ackerstaff 97ZB
$J/\psi(1S)\ e^+\ \nu_e$
Abe 98F
Abe 98N
Singh 98
Ackerstaff 97ZB
Barate 97I
Abreu 96Z
$J/\psi(1S)\ \mu^+\ \nu_\mu$
Abe 98F
Abe 98N
Singh 98
Ackerstaff 97ZB
Barate 97I
Abreu 96Z
$J/\psi(1S)\ 2\pi^+\ \pi^-$
Abreu 96Z

B_c^-

$J/\psi(1S)\ \pi^-$
Ackerstaff 97ZB
Barate 97I
Abe 96N
Abreu 96Z
Bauer 96
Huffman 96
Lewis 96
Ohl 96
Speer 96
Abe 95X
Alexander 95E
Papadimitrio 95
$J/\psi(1S)\ a_1(1260)^-$
Ackerstaff 97ZB
$J/\psi(1S)\ e^-\ \overline{\nu}_e$
Abe 98F
Abe 98N

B_c^-

Ackerstaff 97ZB
Barate 97I
Abreu 96Z
$J/\psi(1S)\ \mu^-\ \overline{\nu}_\mu$
Abe 98F
Abe 98N
Ackerstaff 97ZB
Barate 97I
Abreu 96Z
$J/\psi(1S)\ \pi^+\ 2\pi^-$
Abreu 96Z

$\Upsilon(1S)$

Acciarri 98ZB
Breitweg 98G
Acciarri 97I
Keranen 96
X
Sivertz 95
γ X
Nemati 96
Sivertz 95
Λ X
Baru 96
Ξ^- X
Baru 96
γ mult[charged] (neutrals)
Alam 97
$2\pi^+$ X
Blinov 95
$2\pi^-$ X
Blinov 95
$e^-\ e^+$ (neutrals) X
Cinabro 94
3charged neutral X
Albrecht 94O
$e^-\ e^+$
Alexander 98
Richichi 98B
Alexander 96Z
Baru 96
Albrecht 94O
Shochet 94
Butler 93
$\mu^-\ \mu^+$
Alexander 98
Richichi 98B
Alexander 96Z
Baru 96
Bauer 96
Demina 96
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Thurmankeup 96
Tkaczyk 96
Wang 96
Abe 95W
Alexopoulos 95D
Bauer 95
Papadimitrio 95
Papadimitrio 95B
Sansoni 95
Garbincius 94
Hedin 94
Kim 94
Mcgaughey 94
Papadimitrio 94
Shochet 94
Butler 93
$\tau^-\ \tau^+$
Cinabro 94
γ longlived
Balest 94B
γ axion
Balest 94B
$\gamma\ S^0$
Balest 94B
$\pi^+\ \pi^-$
Baru 96
$f_2(1270)\ \gamma$
Anastassov 98

$\Upsilon(1S)$

$K^+\ K^-$
Baru 96
$p\ \overline{p}$
Baru 96
γ 2jet
Alam 97
γ 2longlived
Balest 94B
γ 2gluon
Alam 97
3gluon
Nemati 96
$\gamma\ 2S^0$
Balest 94B
$2\pi^0\ \gamma$
Anastassov 98
$\pi^+\ \pi^-\ \gamma$
Anastassov 98

$\chi_{b0}(1P)$

Edwards 98

$\chi_{b1}(1P)$

Edwards 98

$\chi_{b2}(1P)$

Edwards 98

$\Upsilon(2S)$

Breitweg 98G
Acciarri 97I
Baru 96
Keranen 96
$\Upsilon(1S)$ X
Alexander 98
3charged neutral X
Albrecht 94O
$e^-\ e^+$
Richichi 98B
Alexander 96Z
Albrecht 94O
Butler 93
$\mu^-\ \mu^+$
Richichi 98B
Alexander 96Z
Bauer 96
Demina 96
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Thurmankeup 96
Tkaczyk 96
Wang 96
Abe 95W
Alexopoulos 95D
Bauer 95
Papadimitrio 95
Papadimitrio 95B
Sansoni 95
Kim 94
Papadimitrio 94
Butler 93
$\Upsilon(1S)\ \pi^0$
Alexander 98
$\Upsilon(1S)\ \eta$
Alexander 98
$\chi_{b0}(1P)\ \gamma$
Edwards 98
$\chi_{b1}(1P)\ \gamma$
Edwards 98
$\chi_{b2}(1P)\ \gamma$
Edwards 98
$\Upsilon(1S)\ 2\pi^0$
Alexander 98
$\Upsilon(1S)\ \pi^+\ \pi^-$
Alexander 98
Richichi 98B
Butler 93

$\Upsilon(3S)$

Breitweg 98G
Acciarri 97I

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\Upsilon(3S)$

Baru 96
Bauer 96
Keranen 96
Abe 95W
Sansoni 95

Λ_c^+ X
Avery 93B

Σ^0 π^+ X
Avery 93B

Λ π^+ π^0 X
Avery 93B

Σ^0 π^+ π^0 X
Avery 93B

Σ^0 $2\pi^+$ π^- X
Avery 93B

e^- e^+
Richichi 98B
Alexander 96Z

μ^- μ^+
Richichi 98B
Alexander 96Z
Demina 96
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Sansoni 96
Thurmankeup 96
Tkaczyk 96
Wang 96
Bauer 95
Papadimitrio 95
Papadimitrio 95B
Kim 94
Papadimitrio 94

π^0 bottom
Butler 93

π^+ π^- bottom
Butler 93

$\Upsilon(1S)$ $2\pi^0$
Butler 93

$\Upsilon(1S)$ π^+ π^-
Richichi 98B
Butler 93

$\Upsilon(2S)$ 2γ
Butler 93

$\Upsilon(2S)$ $2\pi^0$
Butler 93

$\Upsilon(2S)$ π^+ π^-
Richichi 98B
Butler 93

$\Upsilon(1S)$ π^+ π^- 2γ
Butler 93

$\Upsilon(1S)$ π^+ $2\pi^0$ π^-
Butler 93

$\Upsilon(1S)$ $2\pi^+$ $2\pi^-$
Butler 93

$\Upsilon(4S)$

Artuso 96
Gibbons 96
Spaan 96
Albrecht 95H
Artuso 95B
Barish 95
Bishai 95B
Duboscq 95
Gibaut 95
Ross 95
Athanas 94

X
Albrecht 94O

$e^\pm$ X
Wang 96B

$\mu^\pm$ X
Wang 96B

$\overline{B}^0$ X
Albrecht 93D

Λ_c^+ X
Avery 93B

π^+ e^- X
Albrecht 93D

$\Upsilon(4S)$

π^+ μ^- X
Albrecht 93D

$D^*(2010)^+$ e^- X
Albrecht 93D

$D^*(2010)^+$ μ^- X
Albrecht 93D

B^0 ℓ^- X + $\overline{B}^0$ ℓ^+ X
Checchia 96

B^0 ℓ^+ X + $\overline{B}^0$ ℓ^- X
Checchia 96

Λ_c^+ e^- X
Ammar 96

Λ_c^+ e^+ X
Ammar 96

$\overline{\Lambda}_c^-$ e^- X
Ammar 96

$\overline{\Lambda}_c^-$ e^+ X
Ammar 96

Λ_c^+ μ^- X
Ammar 96

Λ_c^+ μ^+ X
Ammar 96

$\overline{\Lambda}_c^-$ μ^- X
Ammar 96

$\overline{\Lambda}_c^-$ μ^+ X
Ammar 96

Σ^0 π^+ X
Avery 93B

π^+ e^- e^+ X
Alexander 94B

π^0 e^- e^+ X
Alexander 94B

π^- e^- e^+ X
Alexander 94B

K^+ e^- e^+ X
Alexander 94B

K^- e^- e^+ X
Alexander 94B

D^0 π^+ e^- X
Albrecht 93D

D^0 π^+ μ^- X
Albrecht 93D

Λ π^+ π^0 X
Avery 93B

Σ^0 π^+ π^0 X
Avery 93B

K^- $2\pi^+$ e^- X
Albrecht 93D

K^- $2\pi^+$ μ^- X
Albrecht 93D

3charged neutral X
Albrecht 94O

Σ^0 $2\pi^+$ π^- X
Avery 93B

K^- $3\pi^+$ π^- e^- X
Albrecht 93D

K^- $3\pi^+$ π^- μ^- X
Albrecht 93D

e^- e^+
Albrecht 94O

B $\overline{B}$
Barish 97
Gibbons 97
Glenn 97
Ammar 96
Wang 96B
Fujino 95
Alam 94B
Balest 94C

B^0 $\overline{B}^0$
Artuso 97
Athanas 97
Brandenburg 97
Alexander 96F
Fu 96
Wang 96B
Asner 95
Albrecht 94P
Albrecht 94U
Alexander 94B
Barish 94
Dejongh 94

$\Upsilon(4S)$

Ehrlich 94

B^+ B^-
Artuso 97
Athanas 97
Brandenburg 97
Browder 97B
Alexander 96F
Bergfeld 96
Fu 96
Artuso 95
Asner 95
Albrecht 94P
Albrecht 94U
Alexander 94B
Barish 94
Dejongh 94
Ehrlich 94

B(unspec) $\overline{B}$(unspec)
Kubota 96

$\Upsilon(1S)$ π^+ π^-
Richichi 98B

$\Upsilon(2S)$ π^+ π^-
Richichi 98B

Υ(unspec)

Alexander 96Z

e^- e^+
Abreu 95O

μ^- μ^+
Ohl 96
Papadimitrio 96
Abachi 95J
Abreu 95O
Bazizi 95
Markosky 95

top

W^+ jet
Abachi 95V
Abe 95I
Greenlee 95
Hoftun 95
Incandela 95
Incandela 95B
Kim 95B
Klima 95
Kopp 95
Roser 95
Thompson 95
Wimpenny 95
Abachi 94B
Abachi 94D
Abe 94T
Antos 94
Benlloch 94
Cdfcollabora 94C
Chakraborty 94
Geer 94
Genser 94
Grannis 94
Jensen 94
Lidemarteau 94
Nodulman 94
Tollestrup 94
Watts 94
Williams 94

W^+ b
Garbincius 94

H^+ jet
Abe 94T

W^+ bottom
Abachi 94B
Antos 94
Geer 94
Grannis 94
Jensen 94
Lidemarteau 94
Raja 94
Shochet 94

e^+ ν_e jet
Frisch 94

μ^+ ν_μ jet
Frisch 94

top

3jet
Cdfcollabora 94C

W^+ b jet
Williams 94

bottom 2jet
Cdfcollabora 94C

$\overline{\text{top}}$

W^+ jet
Abe 95I
Greenlee 95

W^- jet
Abachi 95V
Hoftun 95
Incandela 95
Incandela 95B
Kim 95B
Klima 95
Kopp 95
Roser 95
Thompson 95
Wimpenny 95
Abachi 94B
Abachi 94D
Abe 94T
Antos 94
Benlloch 94
Cdfcollabora 94C
Chakraborty 94
Geer 94
Genser 94
Grannis 94
Jensen 94
Lidemarteau 94
Nodulman 94
Tollestrup 94
Watts 94
Williams 94

W^- $\overline{b}$
Garbincius 94

H^- jet
Abe 94T

W^- bottom
Shochet 94

W^- $\overline{\text{bottom}}$
Abachi 94B
Antos 94
Geer 94
Grannis 94
Jensen 94
Lidemarteau 94
Raja 94

e^- $\overline{\nu}_e$ jet
Frisch 94

μ^- $\overline{\nu}_\mu$ jet
Frisch 94

3jet
Cdfcollabora 94C

W^- $\overline{b}$ jet
Williams 94

$\overline{\text{bottom}}$ 2jet
Cdfcollabora 94C

exotic

Barate 98C

$\psi(2S)$ π X
Bai 98B

exotic-meson

η π^+
Landsberg 89

η π^0
Landsberg 89

η π^-
Thompson 97
Zaitsev 96

ρ π^-
Thompson 98

ρ^0 π^+
Landsberg 89

$2\rho^0$
Landsberg 89

exotic-meson

$\rho^+ \rho^-$	Landsberg 89
$\omega \pi$	Landsberg 89
$\omega \rho^0$	Landsberg 89
2ω	Landsberg 89
$\eta' \pi^-$	Zaitsev 96
$f_1(1285) \pi^0$	Amsler 94E
$K^*(892)^0 \overline{K}^*(892)^0$	Landsberg 89
$K^*(892)^+ K^*(892)^-$	Landsberg 89
$\phi(1020) \pi$	Landsberg 89
$\phi(1020) \pi^0$	Landsberg 89
$\phi(1020) \rho^0$	Landsberg 89
$2\phi(1020)$	Bertolotto 94 Landsberg 89
$\overline{p} \Lambda \pi^+$	Landsberg 89
$\overline{p} \Lambda \pi^-$	Landsberg 89
$p \overline{\Lambda} \pi^+$	Landsberg 89
$p \overline{\Lambda} \pi^-$	Landsberg 89
$n \overline{\Lambda} \pi^-$	Landsberg 89
$p \overline{\Sigma}^- \pi^-$	Landsberg 89
$n \overline{\Sigma}^- \pi^+$	Landsberg 89
$\overline{p} \Lambda 2\pi^+$	Landsberg 89
$\overline{p} \Lambda \pi^+ \pi^-$	Landsberg 89
$p \overline{\Lambda} \pi^+ \pi^-$	Landsberg 89
$p \overline{\Lambda} 2\pi^-$	Landsberg 89
$n \overline{\Sigma}^+ 2\pi^-$	Landsberg 89
$n \overline{\Sigma}^- \pi^+ \pi^-$	Landsberg 89

glueball

2η	Bai 98G Bai 96D Jin 96 Montanet 95 Stroot 95 Landsberg 89
$\eta' \eta$	Landsberg 89
$2\eta'$	Landsberg 89
$K^+ K^-$	Jin 96
$2K_S$	Jin 96
$2\phi(1020)$	Barberis 98C Bertolotto 94 Landsberg 89
$4\pi^0$	Landsberg 89

$C(1480)$

$\phi(1020) \pi$	Landsberg 89

$C(1480)^0$

$\phi(1020) \pi^0$	Landsberg 89

meson^{--}

$2\pi^-$	Troyan 96

baryonium

$\pi^+ \pi^-$	Chiba 97 Chiba 97B
$p \overline{p}$	Ferrer 98 Ferrer 98 Buzzo 97 Perepelitsa 96 Vavilov 94B

$\overline{N}N(1100-3600)$

$\pi^+ \pi^-$	Kloet 96

R-meson

η photino	Fanti 99
ρ^0 photino	Adams 97D
$\pi^+ \pi^-$ photino	Farrar 97

baryon

$p \pi^0$	Tatischeff 97
$p \eta'$	Plotzke 98
$2p \overline{p}$	Plotzke 98
$2p \overline{p} \pi^0$	Vavilov 94B
$p K^+ \overline{K}^0 2\pi^-$	Vavilov 94B Karnaukhov 95C Landsberg 94C
$p K^+ K_S 2\pi^-$	Karnaukhov 93

p

$\pi^0 e^+$	Shiozawa 98
$K^+ \nu$	Allison 98

n

$e^- X$	Abele 97H
$\overline{n}$	Baldoceolin 94
$p e^- \overline{\nu}_e$	Liaud 97 Ehrnsperger 95 Kuznetsov 95 Schreckenbac 95 Kuznetsov 94

$N(1440\,B)^+$

	Watts 96

$N(1535\,S_{11})^+$

	Krusche 97

$N(1710\,P_{11})^+$

ΛK^+	Bulekov 98

$N(1710\,P_{11})^0$

ΛK^0	Bulekov 98

$N(\text{unspec})^+$

$\Delta(1232\,P_{33})^{++} \pi^-$	Landsberg 94C
$p \pi^+ \pi^-$	Landsberg 94C

$\Delta(1232\,P_{33})$

	Achasov 98D Hong 97 Kuplennikov 94

$\Delta(1232\,P_{33})^{++}$

$p \pi^+$	Troyan 98B Yonnet 98 Bertin 97 Blackett 97 Glagolev 97 Hlavacova 97 Abreu 96ZD Bezzubov 96 Watts 96 Barrette 95G Stocker 95 Ludlam 94 Troyan 94 Balatz 93 Schenk 96 Abreu 95J Alexander 95B Golovkin 95 Vavilov 95 Landsberg 94B Landsberg 94C

$\Delta(1232\,P_{33})^+$

$p \gamma$	Frolov 99 Badala 98 Stuart 98 Achasov 97 Glagolev 97 Hlavacova 97 Molinari 96 Watts 96 White 94B Beck 97
$p \pi^0$	Frolov 99
$n \pi^+$	Condo 94

$\Delta(1232\,P_{33})^0$

$p \pi^-$	Yonnet 98 Watts 96 Kulik 94 Chiba 96
$n \pi^0$	Amsler 96C Chiba 96 Amsler 95D Sadovsky 94

$\Delta(1232\,P_{33})^-$

	Watts 96 White 94B

$\overline{\Delta}(1232\,P_{33})^{--}$

$\overline{p} \pi^-$	Abreu 96ZD Alexander 95C Procario 93 Schenk 96 Abreu 95J Alexander 95B

$\Delta(1700\,D_{33})^-$

$N^*_{5/2}(\text{unspec})^{--} \pi^+$	Brovkin 94
$n \pi^+ 2\pi^-$	Brovkin 94

hyperon

	Bachler 94 Kulik 94

$\overline{\text{hyperon}}$

	Bachler 94

$\Lambda(1405\,S_{01})$

$\Sigma^+ \pi^-$	Landsberg 94B Landsberg 94C
$\Sigma^0 \pi^0$	Bergfeld 94 Landsberg 94B Landsberg 94C

$\Lambda(1520\,D_{03})$

$p K^-$	Alexander 96C Balatz 94B Landsberg 94B Landsberg 94C Vavilov 94C
$\Sigma^0 \pi^0$	Bergfeld 94

$\overline{\Lambda}(1520\,D_{03})$

$\overline{p} K^+$	Alexander 96C

$\Lambda(1600\,P_{01})$

$\Sigma^0 \pi^0$	Bergfeld 94

$\Lambda(1670\,S_{01})$

	Bergfeld 94

$\Lambda(1690\,D_{03})$

	Bergfeld 94

$\Sigma^\pm$

	Barmin 96 Barmin 94B

Σ^+

$p \gamma$	Ahn 98B Antonelli 98 Bennhold 98 Solomey 98 Ahn 97 Barnes 97 Wang 97E Abreu 96ZD Semenov 96 Beusch 95 Balatz 94C Barmin 94B Eisenstein 94 Frabetti 94H Lach 94 Landsberg 94B Landsberg 94C Timm 94 White 94B Drutskoi 93 Lach 94 Smith 94B Smith 94C Timm 94 Morelos 93C
$p \pi^0$	Alexander 96D Barnes 96 Bergfeld 96B Ammar 95 Avery 95 Bishai 95 Frabetti 95C Fujino 95 Garbincius 95 Edwards 94 Johns 94 Lach 94 Smith 94B Smith 94C Timm 94
$n \pi^+$	Alexander 96D Abreu 95C Frabetti 95C

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

Σ^+

Fujino 95
Garbincius 95
Frabetti 94B
Johns 94

Σ^0

$\Lambda\ \gamma$: Baker 98, Grzonka 98, Sewerin 98B, Tran 98, Akhobadze 97B, Anderson 97, Justice 97, Wang 97E, Bezzubov 96, Huang 96, Landberg 96, Woods 96, Barmin 94B, Bockhorst 94, Eisenstein 94, Jungst 94, Landsberg 94B, Landsberg 94C, Menze 94, Avery 93B, Wang 97, Adam 96, Alexander 96D, Ammar 96, Barnes 96, Barnes 96B, Belz 96, Golovkin 95, Vavilov 95, Bergfeld 94, Deprospo 94, Golovkin 94, Landsberg 94C, Procario 93

Σ^-

$n\ \pi^-$: Adamovich 99, Antonelli 98, Chemakin 98, Chrien 98, Eschrich 98, Vassiliadis 98B, Ahn 97, Barnes 97, Wang 97E, Abreu 96ZD, Barmin 96B, Barmin 94B, Johns 94, Lach 94, Landsberg 94C, Smith 94B, White 94B, Aslanyan 98, Alexander 96D, Barnes 96, Shakhbazyan 96, Abreu 95C, Fujino 95, Longacre 95, Shakhbazyan 95, Albuquerque 94, Frabetti 94B, Itow 94, Lach 94, Shakhbazyan 94, Dubbs 93

$n\ e^-\ \overline{\nu}_e$: Ehrnsperger 95, Lach 94

$\overline{\Sigma}$

$\overline{n}\ \pi^-$: Frabetti 95C

$\overline{\Sigma}^+$

$\overline{n}\ \pi^+$: Antonelli 98, Vassiliadis 98B, Barnes 97, Abreu 96ZD, Abreu 95C, Landsberg 89, Alexander 96D, Barnes 96

$\overline{\Sigma}^0$

$\overline{\Lambda}\ \gamma$: Akhobadze 97B, Anderson 97, Huang 96, Eisenstein 94, Adam 96, Alexander 96D, Ammar 96, Barnes 96, Barnes 96B

$\overline{\Sigma}^-$

$\overline{p}\ \gamma$: Antonelli 98, Barnes 97, Abreu 96ZD, Abreu 95C, Eisenstein 94, Landsberg 89, Smith 94B, Smith 94C

$\overline{n}\ \pi^-$: Alexander 96D

$\overline{p}\ \pi^0$: Alexander 96D, Barnes 96, Bergfeld 96B, Ammar 95, Bishai 95, Frabetti 95C, Fujino 95, Edwards 94, Lach 94, Smith 94B, Smith 94C

$\Sigma(1385\ P_{13})$

$\Lambda\ \pi$: Bergfeld 94

$\Sigma(1385\ P_{13})^+$

$\Lambda\ \pi^+$: Ammar 95, Bergfeld 94, Bulekov 98, Alexander 96C, Allport 96, Schenk 96, Abreu 95C

$\Sigma(1385\ P_{13})^0$

$\Lambda\ \pi^0$: Vavilov 94, Balatz 93, Bulekov 98, Golovkin 95, Vavilov 95, Balatz 94B, Balatz 94C, Golovkin 94, Landsberg 94B, Landsberg 94C

$\Sigma(1385\ P_{13})^-$

$\Lambda\ \pi^-$: Alexander 96C, Allport 96, Schenk 96, Abreu 95C, Landsberg 94C

$\overline{\Sigma}(1385\ P_{13})^+$

$\overline{\Lambda}\ \pi^+$: Abreu 95C, Alexander 96C, Allport 96, Schenk 96

$\overline{\Sigma}(1385\ P_{13})^-$

$\overline{\Lambda}\ \pi^-$: Abreu 95C, Alexander 96C, Allport 96, Schenk 96, Ammar 95

$\Sigma(1560\ B)^+$

$\Lambda\ \pi^+$: Bulekov 98

$\Sigma(1560\ B)^0$

$\Lambda\ \pi^0$: Bulekov 98

$\Sigma(1660\ P_{11})$

$\Lambda\ \pi$: Bergfeld 94

$\Sigma(1660\ P_{11})^+$

Bergfeld 94

$\Sigma(1660\ P_{11})^0$

Bergfeld 94

$\Sigma(1670\ D_{13})^+$

$\Lambda\ \pi^+$: Bulekov 98

$\Sigma(1670\ D_{13})^0$

$\Lambda\ \pi^0$: Bulekov 98

$\Sigma(1840\ P_{13})^+$

$\Lambda\ \pi^+$: Bulekov 98

$\Sigma(\text{unspec})^+$

Semenov 96

$Y^*(\text{unspec})$

$\Xi\ K$: Landsberg 94C

$\Lambda\ K\ \overline{K}$: Landsberg 94C

$\Sigma\ K\ \overline{K}$: Landsberg 94C

Ξ

Seyboth 97
Venables 97
Landsberg 94C

Ξ^0

$\Sigma^+\ e^-\ X$: Solomey 98

$p\ \pi^0\ X$: Solomey 98

$\Lambda\ \pi^0$: Gibbons 96, Yang 96B, Avery 95, Edwards 95B, Alexander 94

$\Sigma^+\ e^-\ \overline{\nu}_e$: Solomey 98

Ξ^-

Andersen 98
Aoki 98B
Appelshauser 98B
Lowe 98
Nakazawa 98
Vassiliadis 98

Ξ^-

Abatzis 97
Adamovich 97
Adamovich 97C
Alves 97
Baillie 97
Holme 97
Odyniec 97
Ogilvie 97
Retyk 97
Seyboth 97
Abreu 96ZD
Baru 96
Paul 96
Woods 96
Abatzis 95D
Abatzis 95E
Adamovich 95C
Andersen 95
Aoki 95B
Beusch 95
Fujino 95
Abatzis 94
Abatzis 94C
Andersen 94
Blinov 94
Lach 94
Landsberg 94C

$\Lambda\ \pi^-$: Abatzis 96B, Alexander 96C, Allport 96, Bergfeld 96B, Gibbons 96, Schmitt 96, Yang 96B, Abatzis 95, Abatzis 95C, Abreu 95C, Abreu 95N, Avery 95, Edwards 95B, Garbincius 95, Stocker 95, Albrecht 94S, Alexander 94, Andersen 94C, Chudakov 94, Eiseman 94, Johns 94, Lach 94, Moroni 94, Spengler 94, Dubbs 93, Longacre 93, Kinson 91

$\Sigma^-\ \gamma$: Albuquerque 94, Smith 94B, Dubbs 93

$\Lambda\ e^-\ \overline{\nu}_e$: Ehrnsperger 95

$\overline{\Xi}$

Baillie 97

$\overline{\Xi}^+$

Andersen 98
Appelshauser 98B
Vassiliadis 98
Abatzis 97
Alves 97
Baillie 97
Holme 97
Odyniec 97
Retyk 97
Seyboth 97
Venables 97
Abreu 96ZD
Abatzis 95D
Abatzis 95E
Abreu 95C
Andersen 95
Fujino 95
Abatzis 94

$\overline{\Xi}^+$

$\overline{\Lambda}\ \pi^+$: Abatzis 94C, Andersen 94, Abatzis 96B, Alexander 96C, Allport 96, Bergfeld 96B, Gibbons 96, Yang 96B, Abatzis 95, Abatzis 95C, Abreu 95N, Edwards 95B, Albrecht 94S, Alexander 94, Andersen 94C, Lach 94, Spengler 94, Kinson 91

$\overline{\Xi}^0$

$\overline{\Lambda}\ \pi^0$: Gibbons 96, Yang 96B, Edwards 95B, Alexander 94

$\Xi(1530\,P_{13})^0$

$\Xi^-\ \pi^+$: Adamovich 97C, Alexander 96C, Allport 96, Abreu 95C, Albrecht 94S

$\Lambda\ \pi^+\ \pi^-$: Allport 96, Schenk 96

$\overline{\Xi}(1530\,P_{13})^0$

$\overline{\Xi}^+\ \pi^-$: Abreu 95C, Alexander 96C, Allport 96, Albrecht 94S

$\overline{\Lambda}\ \pi^+\ \pi^-$: Allport 96, Schenk 96

$\Xi(1690)^0$

$\Xi^-\ \pi^+$: Adamovich 97C

Ω^-

Andersen 98, Vassiliadis 98, Vassiliadis 98B, Baillie 97, Holme 97, Paul 96, Abatzis 95D, Abatzis 95E, Adamovich 95C, Abatzis 94B, Landsberg 94C, Moroni 94, Spengler 94

Ξ^- neutral (neutrals): Albuquerque 94

$\Lambda\ K^-$: Chan 98, Adam 96, Alexander 96C, Gibbons 96, Schenk 96, Schmitt 96, Woods 96, Wallace 95, Lach 94

$\Xi^-\ \gamma$: Albuquerque 94

$\overline{\Omega}^+$

Andersen 98, Vassiliadis 98, Vassiliadis 98B, Baillie 97, Holme 97, Abatzis 95D, Abatzis 95E, Abatzis 94B, Spengler 94

$\overline{\Lambda}\ K^+$: Chan 98, Adam 96, Alexander 96C, Gibbons 96, Schenk 96

charmed-baryon

$\Lambda\ \pi^+\ X$: Ardashev 97, Buskulic 96P

charmed-baryon

$\overline{\Lambda}\ \pi^-\ X$: Buskulic 96P

Λ_c

Semenov 96

Λ_c^+

Adamovich 98B, Ackerstaff 97ZF, Albrecht 97, Barate 97R, Bonvicini 97B, Halling 96, Semenov 96, Slaughter 96, Buskulic 95F, Payne 94, Wormser 94

$K_S\ X$: Abreu 96N

$\Lambda\ X$: Abreu 96N

$\Lambda\ e^+\ X$: Albrecht 94F

$\Lambda\ \mu^+\ X$: Albrecht 94F

$\Sigma^0\ e^+\ \nu_e\ X$: Bergfeld 94

$\Sigma(1385\,P_{13})^+\ e^+\ \nu_e\ X$: Bergfeld 94

$\Sigma(1660\,P_{11})^+\ e^+\ \nu_e\ X$: Bergfeld 94

$\Sigma(1660\,P_{11})^0\ e^+\ \nu_e\ X$: Bergfeld 94

$p\ \overline{K}^0$: Alam 97B, Buskulic 96B, Frabetti 95F

$p\ K_S$: Ammar 96, Fu 96, Fujino 95, Edwards 94, Litvintsev 94, Procario 93

$p\ \phi(1020)$: Semenov 96, Yang 96B, Alexander 95

$\Lambda\ \pi^+$: Ammar 96, Fu 96, Semenov 96B, Frabetti 95F, Fujino 95, Edwards 94, Litvintsev 94, Spengler 94, Procario 93

$\Sigma^+\ \pi^0$: Bishai 95

Λ_c^+

$\Sigma^0\ \pi^+$: Ammar 96, Avery 93B, Procario 93

$\Sigma^+\ \eta$: Semenov 96, Ammar 95

$\Sigma(1385\,P_{13})^+\ \eta$: Ammar 95

$\Sigma(\text{unspec})^+\ \eta$: Semenov 96

$\Xi(1530\,P_{13})^0\ K^+$: Albrecht 94S

$\Lambda\ e^+\ \nu_e$: Spaan 96, Crawford 95, Bergfeld 94

$\Lambda\ \mu^+\ \nu_\mu$: Bergfeld 94

$\Lambda(1405\,S_{01})\ e^+\ \nu_e$: Bergfeld 94

$\Lambda(1520\,D_{03})\ e^+\ \nu_e$: Bergfeld 94

$\Lambda(1600\,P_{01})\ e^+\ \nu_e$: Bergfeld 94

$\Lambda(1670\,S_{01})\ e^+\ \nu_e$: Bergfeld 94

$\Lambda(1690\,D_{03})\ e^+\ \nu_e$: Bergfeld 94

$p\ \overline{K}^0\ \pi^0$: Alam 97B

$p\ K^-\ \pi^+$: Alam 97B, Abe 96J, Abreu 96F, Aitala 96B, Alexander 95Q, Alves 96B, Ammar 96, Buskulic 96B, Buskulic 96O, Fu 96, Kobel 96, Semenov 96, Semenov 96B, Yu 96B, Abreu 95M, Akers 95U, Alexander 95, Frabetti 95F, Frabetti 95I, Fujino 95, Garbincius 95, Musolino 95, Chudakov 94, Edwards 94, Johns 94, Jones 94B, Litvintsev 94, Moroni 94, Semenov 94, Spengler 94, Frabetti 93C, Procario 93

$p\ \overline{K}^0\ \eta$: Semenov 96, Ammar 95

$p\ K^+\ K^-$: Alexander 95, Fujino 95

$p\ K^*(892)^-\ \pi^+$: Spengler 94, Aleev 93C

$\Lambda\ \pi^+\ \pi^0$: Semenov 96B, Fujino 95, Edwards 94, Avery 93B

$\Lambda\ \eta\ \pi^+$: Semenov 96

Λ_c^+

$\Lambda\ K^+\ \overline{K}^0$: Ammar 95, Semenov 96

$\Sigma^+\ \pi^+\ \pi^-$: Ammar 95, Fujino 95, Edwards 94, Frabetti 94B

$\Sigma^0\ \pi^+\ \pi^0$: Avery 93B

$\Sigma^-\ 2\pi^+$: Fujino 95, Frabetti 94B

$\Xi^-\ K^+\ \pi^+$: Albrecht 94S

$p\ \overline{K}^0\ \pi^+\ \pi^-$: Alam 97B, Frabetti 95F

$p\ K^-\ \pi^+\ \pi^0$: Alam 97B

$p\ K_S\ \pi^+\ \pi^-$: Aleev 96C, Semenov 96B, Spengler 94, Aleev 93C

$\Lambda\ 2\pi^+\ \pi^-$: Aleev 96C, Buskulic 96B, Semenov 96B, Frabetti 95F, Fujino 95, Musolino 95, Edwards 94, Litvintsev 94, Spengler 94

$\Lambda < p\ \pi^- > \pi^+$: Bishai 95

$\Sigma^0\ 2\pi^+\ \pi^-$: Avery 93B

nonres $< \Lambda\ \pi^+\ \pi^- > e^+\ \nu_e$: Bergfeld 94

$\overline{\Lambda}_c^-$

Adamovich 98B, Ackerstaff 97ZF, Albrecht 97, Barate 97R, Bonvicini 97B, Halling 96, Slaughter 96, Buskulic 95F, Payne 94, Wormser 94

$K_S\ X$: Abreu 96N

$\overline{\Lambda}\ X$: Abreu 96N

$\overline{p}\ K^0$: Alam 97B, Buskulic 96B, Frabetti 95F

$\overline{p}\ K_S$: Ammar 96, Fu 96, Fujino 95, Edwards 94

$\overline{p}\ \phi(1020)$: Yang 96B

$\overline{\Lambda}\ \pi^-$: Ammar 96, Fu 96, Frabetti 95F, Fujino 95, Edwards 94, Spengler 94

$\overline{\Sigma}^0\ \pi^-$: Ammar 96

$\overline{\Sigma}^-\ \pi^0$: Bishai 95

$\overline{\Sigma}^-\ \eta$: Ammar 95

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$\overline{\Lambda}_c^-$

$\overline{\Sigma}(1385\,P_{13})^-\ \eta$ — Ammar 95
$\overline{\Xi}(1530\,P_{13})^0\ K^-$ — Albrecht 94S
$\overline{\Lambda}\ e^-\ \overline{\nu}_e$ — Spaan 96, Crawford 95
$\overline{p}\ K^+\ \pi^-$ — Alam 97B, Abe 96J, Abreu 96F, Alexander 96Q, Alves 96B, Ammar 96, Buskulic 96B, Buskulic 96O, Fu 96, Kobel 96, Yu 96B, Abreu 95M, Akers 95U, Frabetti 95F, Frabetti 95I, Fujino 95, Garbincius 95, Musolino 95, Edwards 94, Jones 94B, Spengler 94
$\overline{p}\ K^0\ \pi^0$ — Alam 97B
$\overline{p}\ K^0\ \eta$ — Ammar 95
$\overline{p}\ K^*(892)^+\ \pi^-$ — Spengler 94
$\overline{\Lambda}\ \pi^0\ \pi^-$ — Fujino 95, Edwards 94
$\overline{\Lambda}\ \eta\ \pi^-$ — Ammar 95
$\overline{\Lambda}\ K^0\ K^-$ — Ammar 95
$\overline{\Sigma}^-\ \pi^+\ \pi^-$ — Fujino 95, Edwards 94
$\overline{\Xi}^+\ K^-\ \pi^-$ — Albrecht 94S
$\overline{p}\ K^+\ \pi^0\ \pi^-$ — Alam 97B
$\overline{p}\ K^0\ \pi^+\ \pi^-$ — Alam 97B, Frabetti 95F
$\overline{p}\ K_S\ \pi^+\ \pi^-$ — Spengler 94
$\overline{\Lambda}\ \pi^+\ 2\pi^-$ — Buskulic 96B, Frabetti 95F, Fujino 95, Musolino 95, Edwards 94, Spengler 94
$\overline{\Lambda} < \overline{p}\ \pi^+ >\ \pi^-$ — Bishai 95

$\Lambda_c(2593)^+$

$\Sigma_c(2455)^{++}\ \pi^-$ — Albrecht 97
$\Sigma_c(2455)^0\ \pi^+$ — Albrecht 97
$\Lambda_c^+\ \pi^+\ \pi^-$ — Albrecht 97, Semenov 96, Semenov 96B

$\overline{\Lambda}_c(2593)^-$

$\overline{\Sigma}_c(2455)^0\ \pi^-$ — Albrecht 97
$\overline{\Sigma}_c(2455)^{--}\ \pi^+$ — Albrecht 97
$\overline{\Lambda}_c^-\ \pi^+\ \pi^-$ — Albrecht 97

$\Lambda_c(2625)^+$

$\Lambda_c^+\ \gamma$ — Fujino 95, Edwards 94
$\Lambda_c^+\ \pi^0$ — Fujino 95, Edwards 94
$\Sigma_c(2455)\ \pi^\pm$ — Semenov 94
$\Sigma_c(2455)^{++}\ \pi^-$ — Frabetti 93C
$\Sigma_c(2455)^0\ \pi^+$ — Frabetti 93C
$\Lambda_c^+\ \pi^+\ \pi^-$ — Semenov 96, Semenov 96B, Frabetti 95F, Fujino 95, Edwards 94, Litvintsev 94, Semenov 94, Frabetti 93C

$\overline{\Lambda}_c(2625)^-$

$\overline{\Lambda}_c^-\ \gamma$ — Fujino 95, Edwards 94
$\overline{\Lambda}_c^-\ \pi^0$ — Fujino 95, Edwards 94
$\overline{\Lambda}_c^-\ \pi^+\ \pi^-$ — Frabetti 95F, Fujino 95, Edwards 94

Λ_c^{*+}

$\Lambda_c^+\ \gamma$ — Fujino 95, Edwards 94
$\Lambda_c^+\ \pi^0$ — Fujino 95, Edwards 94
$\Lambda_c^+\ \pi^+\ \pi^-$ — Frabetti 95F, Fujino 95, Edwards 94, Spengler 94

$\overline{\Lambda}_c^{*-}$

$\overline{\Lambda}_c^-\ \gamma$ — Fujino 95, Edwards 94
$\overline{\Lambda}_c^-\ \pi^0$ — Fujino 95, Edwards 94
$\overline{\Lambda}_c^-\ \pi^+\ \pi^-$ — Frabetti 95F, Fujino 95, Edwards 94, Spengler 94

$\Sigma_c(2455)$

Semenov 94

$\Sigma_c(2455)^{++}$

$\Lambda_c^+\ \pi^+$ — Albrecht 97, Aitala 96B, Frabetti 95F, Chudakov 94, Spengler 94, Frabetti 93C, Procario 93

$\Sigma_c(2455)^+$

$\Sigma^+\ K^*(892)^0$ — Semenov 96

$\Sigma_c(2455)^+$

$\Lambda_c^+\ \pi^0$ — Procario 93
$\Sigma^+\ K^-\ \pi^+$ — Semenov 96
$\Lambda\ K^-\ 2\pi^+$ — Semenov 96

$\Sigma_c(2455)^0$

$\Lambda_c^+\ \pi^-$ — Albrecht 97, Barate 97R, Aitala 96B, Aleev 96C, Frabetti 95F, Chudakov 94, Spengler 94, Frabetti 93C, Procario 93

$\overline{\Sigma}_c(2455)^0$

$\overline{\Lambda}_c^-\ \pi^+$ — Albrecht 97, Barate 97R, Frabetti 95F, Spengler 94

$\overline{\Sigma}_c(2455)^{--}$

$\overline{\Lambda}_c^-\ \pi^-$ — Albrecht 97, Frabetti 95F, Spengler 94

Ξ_c^+

Frabetti 98B, Jessop 98, Barish 97, Gibbons 96, Halling 96, Semenov 96
$\Sigma^+\ K^*(892)$ — Avery 95
$\Sigma^+\ \overline{K}^*(892)^0$ — Bergfeld 96B
$\Xi^0\ \pi^+$ — Edwards 95B
$\Xi^0\ e^+\ \nu_e$ — Yang 96B, Alexander 94
$\Sigma^+\ K^-\ \pi^+$ — Bergfeld 96B
$\Xi^0\ \pi^+\ \pi^0$ — Avery 95, Edwards 95B
$\Xi^-\ 2\pi^+$ — Bergfeld 96B, Yang 96B, Avery 95, Edwards 95B, Fujino 95, Garbincius 95, Alexander 94, Chudakov 94, Johns 94, Moroni 94
$\Lambda\ K^-\ 2\pi^+$ — Bergfeld 96B
$\Xi^0\ 2\pi^+\ \pi^-$ — Edwards 95B

Ξ_c^0

Jessop 98, Barish 97, Halling 96, Semenov 96
$\Xi^-\ e^+\ X$ — Spengler 94
$\Xi^-\ \mu^+\ X$ — Spengler 94
$\Lambda\ K_S$ — Albrecht 94S

Ξ_c^0

$\Xi^-\ \pi^+$ — Gibbons 96, Yang 96B, Fujino 95, Garbincius 95, Alexander 94, Johns 94
$\Omega^-\ K^+$ — Gibbons 96
$\Xi^-\ e^+\ \nu_e$ — Yang 96B, Alexander 94
$\Xi^0\ \pi^+\ \pi^-$ — Gibbons 96
$\Xi^-\ \pi^+\ \pi^0$ — Gibbons 96
$\Lambda\ \overline{K}^0\ \pi^+\ \pi^-$ — Frabetti 98
$\Xi^-\ 2\pi^+\ \pi^-$ — Moroni 94
$\Lambda\ K^-\ 2\pi^+\ \pi^-$ — Frabetti 98

$\overline{\Xi}_c^0$

$\overline{\Xi}^+\ e^-\ X$ — Barish 97, Spengler 94
$\overline{\Xi}^+\ \mu^-\ X$ — Spengler 94
$\overline{\Lambda}\ K_S$ — Albrecht 94S
$\overline{\Xi}^+\ \pi^-$ — Yang 96B, Fujino 95, Alexander 94
$\overline{\Xi}^+\ e^-\ \overline{\nu}_e$ — Yang 96B, Alexander 94

$\overline{\Xi}_c^-$

$\overline{\Sigma}^-\ K^*(892)^0$ — Barish 97, Bergfeld 96B
$\overline{\Xi}^0\ \pi^-$ — Edwards 95B
$\overline{\Xi}^0\ e^-\ \overline{\nu}_e$ — Yang 96B, Alexander 94
$\overline{\Sigma}^-\ K^+\ \pi^-$ — Bergfeld 96B
$\overline{\Xi}^+\ 2\pi^-$ — Bergfeld 96B, Yang 96B, Edwards 95B, Fujino 95, Alexander 94
$\overline{\Xi}^0\ \pi^0\ \pi^-$ — Edwards 95B
$\overline{\Lambda}\ K^+\ 2\pi^-$ — Bergfeld 96B
$\overline{\Xi}^0\ \pi^+\ 2\pi^-$ — Edwards 95B

$\Xi_c(2645)^+$

$\Xi_c^0\ \pi^+$ — Gibbons 96

$\Xi_c(2645)^0$

$\Xi_c^+\ \pi^-$ — Gibbons 96, Avery 95

Ξ_c^*(unspec)

$\Xi_c^+\ \gamma$ — Jessop 98
$\Xi_c^0\ \gamma$ — Jessop 98
$\Xi_c^+\ \pi^-$ — Yang 96B

$\Xi_c^*(\text{unspec})^+$

$\Xi_c^0\ \pi^+$ — Frabetti 98

Ω_c

$\Omega^-\ e^+\ X$ — Spengler 94
$\Omega^-\ \mu^+\ X$ — Spengler 94
$\Omega^-\ \pi^+$ — Paul 96, Schmitt 96, Moroni 94
$\Xi^-\ K_S\ \pi^+$ — Paul 96, Schmitt 96
$\Lambda\ K_S\ K^-\ \pi^+$ — Paul 96, Schmitt 96
$\Sigma^+\ 2K^-\ \pi^+$ — Frabetti 95C, Fujino 95, Garbincius 95, Frabetti 94H, Johns 94
$\Xi^-\ K^-\ 2\pi^+$ — Paul 96, Schmitt 96, Adamovich 95C
$\Omega^-\ 2\pi^+\ \pi^-$ — Paul 96, Schmitt 96, Adamovich 95C
$\Lambda\ 2K^-\ 2\pi^+$ — Paul 96, Schmitt 96
$\Xi^-\ K_S\ 2\pi^+\ \pi^-$ — Paul 96, Schmitt 96

$\overline{\Omega}_c$

$\overline{\Omega}^+\ e^-\ X$ — Spengler 94
$\overline{\Omega}^+\ \mu^-\ X$ — Spengler 94
$\overline{\Sigma}^-\ 2K^+\ \pi^-$ — Frabetti 95C

Λ_b

Abbiendi 98E, Barate 97ZC, Abe 96K, Sciolla 96, Podobrin 95
$\Lambda\ e^-\ X$ — Buskulic 95F, Jones 94B, Wormser 94
$\Lambda\ \mu^-\ X$ — Buskulic 95F, Wormser 94
$\Lambda_c^+\ e^-\ X$ — Buskulic 95F, Wormser 94
$\Lambda_c^+\ \mu^-\ X$ — Buskulic 95F, Wormser 94
$p\ \mu^-\ \overline{\nu}_\mu\ X$ — Abreu 95M
$\Lambda\ e^-\ \overline{\nu}_e\ X$ — Barate 97R, Abreu 95M, Akers 95W
$\Lambda\ \mu^-\ \overline{\nu}_\mu\ X$ — Barate 97R, Abreu 95M, Akers 95W
$\Lambda\ \pi^+\ e^-\ X$ — Buskulic 96P
$\Lambda\ \pi^+\ \mu^-\ X$ — Buskulic 96P
$\Lambda_c^+\ e^-\ \overline{\nu}_e\ X$ — Ackerstaff 97ZF

Λ_b

Barate 97R, Yu 96B, Abreu 95M
$\Lambda_c^+\ \mu^-\ \overline{\nu}_\mu\ X$ — Ackerstaff 97ZF, Barate 97R, Abreu 95M
$p\ \pi^-$ — Zachariadou 96
$p\ K^-$ — Adam 96D, Zachariadou 96
$\Lambda\ J/\psi(1S)$ — Abe 96P, Abreu 96F, Barnett 96, Lewis 96, Ohl 96, Semenov 96, Yu 96B, Alexander 95E
$\Lambda_c^+\ \pi^-$ — Abreu 96F, Buskulic 96B, Semenov 96, Musolino 95
$\Lambda_c^+\ a_1(1260)^-$ — Abreu 96F
charmed-baryon $e^-\ \overline{\nu}_e$ — Buskulic 96P
charmed-baryon $\mu^-\ \overline{\nu}_\mu$ — Buskulic 96P
$\Lambda_c^+\ e^-\ \overline{\nu}_e$ — Abe 96J, Akers 95U, Jones 94B
$\Lambda_c^+\ \mu^-\ \overline{\nu}_\mu$ — Abe 96J, Akers 95U, Jones 94B

$\overline{\Lambda}_b$

Abbiendi 98E, Barate 97ZC, Abe 96K, Podobrin 95
$\overline{\Lambda}\ e^+\ X$ — Buskulic 95F, Jones 94B, Wormser 94
$\overline{\Lambda}\ \mu^+\ X$ — Buskulic 95F, Wormser 94
$\overline{\Lambda}_c^-\ e^+\ X$ — Buskulic 95F, Wormser 94
$\overline{\Lambda}_c^-\ \mu^+\ X$ — Buskulic 95F, Wormser 94
$\overline{p}\ \mu^+\ \nu_\mu\ X$ — Abreu 95M
$\overline{\Lambda}\ e^+\ \nu_e\ X$ — Barate 97R, Abreu 95M, Akers 95W
$\overline{\Lambda}\ \mu^+\ \nu_\mu\ X$ — Barate 97R, Abreu 95M, Akers 95W
$\overline{\Lambda}\ \pi^-\ e^+\ X$ — Buskulic 96P
$\overline{\Lambda}\ \pi^-\ \mu^+\ X$ — Buskulic 96P
$\overline{\Lambda}_c^-\ e^+\ \nu_e\ X$ — Ackerstaff 97ZF, Barate 97R, Yu 96B, Abreu 95M
$\overline{\Lambda}_c^-\ \mu^+\ \nu_\mu\ X$ — Ackerstaff 97ZF

$\overline{\Lambda}_b$

Barate 97R, Abreu 95M
$\overline{p}\ \pi^+$ — Zachariadou 96
$\overline{p}\ K^+$ — Adam 96D, Zachariadou 96
$\overline{\Lambda}\ J/\psi(1S)$ — Abe 96P, Abreu 96F, Barnett 96, Lewis 96, Ohl 96, Yu 96B, Alexander 95E
$\overline{\Lambda}_c^-\ \pi^+$ — Abreu 96F, Buskulic 96B, Musolino 95
$\overline{\Lambda}_c^-\ a_1(1260)^+$ — Abreu 96F
charmed-baryon $e^+\ \nu_e$ — Buskulic 96P
charmed-baryon $\mu^+\ \nu_\mu$ — Buskulic 96P
$\overline{\Lambda}_c^-\ e^+\ \nu_e$ — Abe 96J, Akers 95U, Jones 94B
$\overline{\Lambda}_c^-\ \mu^+\ \nu_\mu$ — Abe 96J, Akers 95U, Jones 94B

$\Lambda_b(\text{unspec})$

$\Lambda\ X$ — Abbiendi 98H, Ackerstaff 96M
$\Lambda\ e^-\ X$ — Abbiendi 98H, Ackerstaff 96M
$\Lambda\ \mu^-\ X$ — Abbiendi 98H, Ackerstaff 96M
$\Lambda_c^+\ \mu^-\ X$ — Abreu 96N

$\overline{\Lambda}_b(\text{unspec})$

$\overline{\Lambda}\ X$ — Abbiendi 98H, Ackerstaff 96M
$\overline{\Lambda}\ e^+\ X$ — Abbiendi 98H, Ackerstaff 96M
$\overline{\Lambda}\ \mu^+\ X$ — Abbiendi 98H, Ackerstaff 96M
$\overline{\Lambda}_c^-\ \mu^+\ X$ — Abreu 96N

Σ_b

$\Lambda_b\ \pi$ — Sciolla 96

Σ_b^+

$\overline{\Sigma}_c(2455)^0\ e^+\ \nu_e\ X$ — Barate 97R
$\overline{\Sigma}_c(2455)^0\ \mu^+\ \nu_\mu\ X$ — Barate 97R

Σ_b^-

$\Sigma_c(2455)^0\ e^-\ \overline{\nu}_e\ X$ — Barate 97R
$\Sigma_c(2455)^0\ \mu^-\ \overline{\nu}_\mu\ X$ — Barate 97R

Ξ_b^0

$\Xi^-\ e^-\ X$ — Abreu 95N

Ξ_b^0

$\Xi^-\ \mu^-\ X$ — Abreu 95N

Ξ_b^-

$\Xi^-\ e^-\ X$ — Abreu 95N
$\Xi^-\ \mu^-\ X$ — Abreu 95N

$\overline{\Xi}_b^+$

$\overline{\Xi}^+\ e^+\ X$ — Abreu 95N
$\overline{\Xi}^+\ \mu^+\ X$ — Abreu 95N

$\overline{\Xi}_b^0$

$\overline{\Xi}^+\ e^+\ X$ — Abreu 95N
$\overline{\Xi}^+\ \mu^+\ X$ — Abreu 95N

exotic-nucleon

$\Sigma(1385\,P_{13})^0\ K^+$ (neutrals) — Landsberg 94B, Landsberg 94C
$p\ \eta$ — Bezzubov 96
$p\ \phi(1020)$ — Balatz 94B, Landsberg 94B, Landsberg 94C, Vavilov 94C
$\Delta(1232\,P_{33})^{++}\ \pi^-$ — Bezzubov 96, Landsberg 94B
$\Lambda\ K^+$ — Balatz 94B, Landsberg 94C
$\Lambda(1520\,D_{03})\ K^+$ — Balatz 94B, Landsberg 94B, Landsberg 94C, Vavilov 94C
$\Sigma^0\ K^+$ — Golovkin 94, Landsberg 94B, Landsberg 94C
$\Sigma(1385\,P_{13})^0\ K^+$ — Balatz 94B, Balatz 94C, Golovkin 94, Landsberg 94B, Landsberg 94C, Balatz 93
$p\ \pi^+\ \pi^-$ — Landsberg 94B
$p\ K^+\ K^-$ — Balatz 94B, Landsberg 94B, Landsberg 94C
$p\ \phi(1020)\ \pi^-$ — Aitala 97C

$N^*_{5/2}(1480)^{+++}$

Landsberg 94C

$N(2000\,B)^+$

$\Delta(1232\,P_{33})^{++}\ \pi^-$ — Golovkin 95
$\Lambda\ K^+$ — Golovkin 95, Vavilov 95
$\Sigma^0\ K^+$ — Bezzubov 96, Golovkin 95, Vavilov 95
$p\ \pi^+\ \pi^-$ — Golovkin 95, Vavilov 95

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

$N(2050\,B)^+$

$\Delta(1232\,P_{33})^{++}\ \pi^-$
Golovkin 95
Vavilov 95

$\Sigma(1385\,P_{13})^0\ K^+$
Golovkin 95
Vavilov 95

$p\ \pi^+\ \pi^-$
Golovkin 95
Vavilov 95

$N^*_{5/2}(\mathrm{unspec})^{--}$

$n\ 2\pi^-$
Brovkin 94

$N\phi(1950)^+$

$\Sigma(1385\,P_{13})^0\ K^+$
Balatz 94C
Landsberg 94B
Landsberg 94C
Balatz 93

$\Lambda\ K^+\ \pi^0$
Landsberg 94B

$N\phi(1950)^0$

$\Sigma(1385\,P_{13})^-\ K^+$
Landsberg 94C

$\Xi^*(\mathrm{unspec})$

Ahn 97

R-baryon

Farrar 97

R-baryon π^+
Albuquerque 96

R-baryon π^-
Albuquerque 96

R-proton

Albuquerque 96

R-baryon π^+
Farrar 97

R-Λ

R-proton π^-
Albuquerque 96

R-Ξ^-

R-Λ π^-
Albuquerque 96

centauro

Wilk 95

mult[π^0] mult[γ]
mult[charged]
Melese 96

chiron

Wilk 95
Arisawa 94

strangelet

Armstrong 99
Barish 98
Perilloisaac 98
Pruneau 98
Armstrong 97B
Baillie 97
Barish 97B
Decataldo 97
Kabana 97
Seyboth 97
Appelquist 96B
Baglin 96
Lowe 96
Appelquist 95
Beavis 95B
Appelquist 94
Borer 94

$p\ 2\Lambda$
Stocker 95
Longacre 93

positronium

γ neutral
Chiba 98
Maeno 95
Skalsey 95
Asai 94

2γ
Vonbusch 94

γ axion
Maeno 95

$\gamma\ S^0$
Skalsey 95

2γ neutral
Chiba 98

3γ
Asai 95
Asai 94

4γ
Chiba 98
Vonbusch 94

5γ
Chiba 98

muonium

$\overline{\mathrm{muonium}}$
Jungmann 98
Meyer 98
Willmann 98
Gordeev 97
Abela 96
Gordeev 96
Gordeev 94

$(\pi\pi)_{\mathrm{atom}}$

$\pi^+\ \pi^-$
Afanasyev 97

$(\pi p)^*_{\mathrm{atom}}$

$\gamma\ (\pi p)_{\mathrm{atom}}$
Sigg 95

$(\pi^-\mathrm{deuteron})_{\mathrm{atom}*}$

$(\pi^-\mathrm{deuteron})_{\mathrm{atom}}\ \gamma$
Hauser 98

$(K^-p)^*_{\mathrm{atom}}$

$(K^-p)_{\mathrm{atom}}\ \gamma$
Iwasaki 97

$(\bar{p}p)_{\mathrm{atom}}$

$\eta(1440)\ \pi^+\ \pi^-$
Bertin 96H

$(\bar{p}p)_{\mathrm{atom}*}$

$\gamma\ (\bar{p}p)_{\mathrm{atom}}$
Anagnostopou 96

$(\bar{p}\,\mathrm{He})_{\mathrm{atom}}$

$\pi^+\ \mathrm{X}$
Yamazaki 96

$(\bar{p}\,\mathrm{He})_{\mathrm{atom}*}$

$\gamma\ (\bar{p}\,\mathrm{He})_{\mathrm{atom}}$
Yamazaki 96

H(atom)*

H(atom) γ
Hagley 94

^{55}Fe(atom)

^{55}Mn(atom) heavy-$\nu_e\ \gamma$
Daszewski 95

^{92}Mo(atom)

^{92}Zr(atom) +
^{92}Zr(atom) $2\bar{\nu}_e$
Aunola 95

^{92}Zr(atom) e^+ +
^{92}Zr(atom) $e^+\ \bar{\nu}_e$
Aunola 95

^{125}I(atom)

^{125}Te(atom) $\nu_e\ \gamma$
Hindi 94

^{125}Te(atom) heavy-$\nu_e\ \gamma$
Hindi 94

^{163}Ho(atom)

^{163}Dy(atom) $\nu_e\ \gamma$
Yasumi 94

nucleus

nucleus $2e^-$
Tretyak 95

nucleus $2e^+$
Tretyak 95

nucleus $2e^-$ majoron
Tretyak 95

nucleus $2e^+$ majoron
Tretyak 95

nucleus $2e^-$ 2majoron
Tretyak 95

nucleus $2e^+$ 2majoron
Tretyak 95

nucleus $2e^-$ $2\bar{\nu}_e$
Tretyak 95

nucleus $2e^+$ $2\nu_e$
Tretyak 95

dibaryon

$2p$
Abramov 94
Ball 94B
Kobayashi 91

$n\ \Lambda$
Belz 96

$n\ \Sigma^0$
Belz 96

deuteron γ
Burmistrov 95

dibaryon$^+$

$2p\ \pi^-$
Vorobiev 98
Deloff 95
Efremenko 94

dibaryon^{++}

$2p$
Troyan 98B
Troyan 94

$2p\ \gamma$
Abazov 96

dibaryon^{+++}

$p\ \Delta(1232\,P_{33})^{++}$
Troyan 98B
Troyan 94

dibaryon^{++} π^+
Troyan 98B
Troyan 94

$2p\ \pi^+$
Troyan 98B
Vorobiev 98
Troyan 94

dibaryon($S=-1$)

$p\ \Sigma^-$
Barmin 96B
Longacre 95

hypernucleus($S=-2$)

$^9\mathrm{Be}_s\ ^4\mathrm{H}_s$
Aoki 95B

dibaryon($S=-2$)

$p\ \Sigma^-$
Aslanyan 98
Chemakin 98
Shakhbazyan 96
Shakhbazyan 95
Itow 94

dibaryon($S=-2$)

Shakhbazyan 94

$p\ \Lambda\ \pi^-$
Chemakin 98

dibaryon($S=-2$)$^+$

$p\ \Lambda$
Aslanyan 98
Shakhbazyan 94

$p\ \Lambda\ \pi^0$
Aslanyan 98
Shakhbazyan 94

dibaryon($S=-2$)*

$p\ \Sigma^-$
Aslanyan 98
Shakhbazyan 96
Shakhbazyan 95

dibaryon($S=-2$) γ
Aslanyan 98

^{3}H

$e^-\ \mathrm{X}$
Bahran 95

e^- heavy-$\bar{\nu}_e\ \mathrm{X}$
Bahran 95

$^3\mathrm{He}\ e^-\ \bar{\nu}_e$
Vangeert 98
Belesev 95
Hiddemann 95
Stoeffl 95
Belesev 94

$^4\mathrm{H}_s$

$\pi^-\ \mathrm{X}$
Outa 98

$^4\mathrm{He}\ \pi^-$
Outa 98
Aoki 95B

$^4\mathrm{He}_s$

$\pi^+\ \mathrm{X}$
Zeps 98

$\pi^0\ \mathrm{X}$
Outa 98
Zeps 98

$\pi^-\ \mathrm{X}$
Outa 98
Zeps 98

$p\ \mathrm{X}$
Outa 98
Zeps 98

$n\ \mathrm{X}$
Outa 98
Zeps 98

^{11}Li

$^8\mathrm{Li}\ ^3\mathrm{H}\ e^-\ \bar{\nu}_e$
Mukha 95

$^9\mathrm{Li}$ deuteron $e^-\ \bar{\nu}_e$
Mukha 95

$^9\mathrm{Be}_s$

$^4\mathrm{He}\ ^3\mathrm{He}\ 2n$
Aoki 95B

$^6\mathrm{Li}\ p\ 2n$
Aoki 95B

^{8}Bor

$^8\mathrm{Be}\ e^+\ \nu_e$
Fukuda 96B

$^{11}\mathrm{Bor}_s$

$p\ n\ \mathrm{X}$
Noumi 95

$2n\ \mathrm{X}$
Noumi 95

$\Lambda < p\ \pi^- >\ \mathrm{X}$
Noumi 95

$\Lambda < n\ \pi^0 >\ \mathrm{X}$
Noumi 95

^{10}C

^{10}Bor* < ^{10}Bor γ > e^+ ν_e — Fujikawa 98
^{10}Bor* < ^{10}Bor 2γ > e^+ ν_e — Fujikawa 98

^{12}C$_s$

π^- X — Sato 98
p n X — Noumi 95
$2n$ X — Noumi 95
Λ < p π^- > X — Noumi 95
Λ < n π^0 > X — Noumi 95

^{13}C$^*_s$

^{13}C$_s$ γ — May 97

^{14}C

γ X — Wietfeldt 95
e^- $\overline{\nu}_e$ X — Wietfeldt 95

^{18}Fl

^{18}O e^+ ν_e — Briancon 98

^{18}Ne

^{18}Fl e^+ ν_e — Briancon 98, Egorov 97
Fl* e^+ ν_e — Briancon 98, Egorov 97

^{35}S

e^- γ X — Moriyama 95
e^- $\overline{\nu}_e$ γ X — Moriyama 95
^{35}Cl e^- heavy-$\overline{\nu}_e$ — Bowler 95, Bowler 94

KK

Ca* < Ca γ > e^- $\overline{\nu}_e$ — Baumann 98
Ca* < Ca γ > n e^- $\overline{\nu}_e$ — Baumann 98

Ca

KK* < ^{38}KK γ > e^+ ν_e — Baumann 98

^{48}Ca

^{48}Ti $2e^-$ $2\overline{\nu}_e$ — Balysh 96

^{40}Ti

^{39}Ca p e^+ ν_e — Trinder 97
^{39}Ca* p e^+ ν_e — Trinder 97

^{55}Fe

^{55}Mn e^- $\overline{\nu}_e$ — Sykora 95

^{58}Zn

Cu* e^- $\overline{\nu}_e$ — Jokinen 98

^{71}Ge

^{71}Ga e^- $\overline{\nu}_e$ — Lee 95

^{76}Ge

^{76}Se $2e^-$ — Baudis 97
— Balysh 95
^{76}Se* $2e^-$ — Barabash 95
^{76}Se $2e^-$ $2\overline{\nu}_e$ — Balysh 95, Balysh 94

^{71}As

^{71}Ge e^+ ν_e — Hampel 98

^{82}Se

^{82}Kr $2e^-$ — Barabash 98, Dassie 98
^{82}Kr $2e^-$ majoron — Barabash 98, Dassie 98
^{82}Kr $2e^-$ $2\overline{\nu}_e$ — Barabash 98, Dassie 98

^{90}Zr*

^{90}Zr e^- e^+ — Leinberger 97

^{96}Zr

^{96}Mo $2e^-$ — Barabash 98, Klimenko 98, Vasiliev 95
^{96}Mo* $2e^-$ — Klimenko 98
^{96}Nb e^- $\overline{\nu}_e$ γ — Barabash 94
^{96}Mo $2e^-$ γ — Barabash 94
^{96}Mo $2e^-$ majoron — Barabash 98
^{96}Mo $2e^-$ 2ν — Vasiliev 95
^{96}Mo $2e^-$ $2\overline{\nu}_e$ — Barabash 98, Klimenko 98
^{96}Mo* $2e^-$ $2\overline{\nu}_e$ — Klimenko 98, Arpesella 94
^{96}Mo $2e^-$ $2\overline{\nu}_e$ γ — Barabash 94

^{100}Mo

^{100}Ru $2e^-$ — Ashitkov 98, Kudomi 98, Desilva 97, Ejiri 96, Dassie 94
^{100}Ru* $2e^-$ — Barabash 95B
^{100}Ru $2e^-$ majoron — Ashitkov 98, Kudomi 98, Desilva 97, Ejiri 96, Dassie 94
^{100}Ru $2e^-$ $2\overline{\nu}_e$ — Ashitkov 98, Kudomi 98, Desilva 97, Ejiri 96, Dassie 94
^{100}Ru* $2e^-$ $2\overline{\nu}_e$ — Barabash 95B

^{116}Cd

^{116}Sn $2e^-$ — Arnold 96, Danevich 95, Georgadze 95, Kume 94
^{116}Sn $2e^-$ majoron — Arnold 96
^{116}Sn $2e^-$ $2\overline{\nu}_e$ — Arnold 96

^{116}Cd

— Arnold 95, Danevich 95, Georgadze 95, Kume 94, Piepke 94

^{107}In

^{107}Cd e^+ ν_e — Severijns 93

^{130}Te

γ X — Alessandrell 94
^{130}Xe $2e^-$ — Alessandrell 98, Alessandrell 94
Xe* $2e^-$ — Alessandrell 98

^{136}Xe

^{136}Ba $2e^-$ — Luescher 98
^{136}Ba $2e^-$ $0\overline{\nu}_e$ — Luescher 98
^{136}Ba $2e^-$ $2\overline{\nu}_e$ — Miyajima 94

^{130}Ba

^{130}Xe $2e^+$ $2\nu_e$ — Barabash 96

^{132}Ba

^{132}Xe $2e^+$ — Barabash 96
^{132}Xe $2e^+$ $2\nu_e$ — Barabash 96

^{150}Nd

^{150}Sm $2e^-$ — Desilva 97
^{150}Sm $2e^-$ majoron — Desilva 97
^{150}Sm $2e^-$ 2ν — Artemiev 94
^{150}Sm $2e^-$ $2\overline{\nu}_e$ — Desilva 97, Artemiev 96
^{150}Sm* $2e^-$ $2\overline{\nu}_e$ — Arpesella 94

Sm

Gd* $2e^-$ $2\overline{\nu}_e$ + Gd* $2e^-$ $0\overline{\nu}_e$ — Derbin 96

Gd

Dy* $2e^-$ $2\overline{\nu}_e$ + Dy* $2e^-$ $0\overline{\nu}_e$ — Derbin 96

^{160}Gd

^{160}Dy $2e^-$ — Burachas 95, Kobayashi 94
^{160}Dy $2e^-$ majoron — Burachas 95, Kobayashi 94
^{160}Dy $2e^-$ $2\overline{\nu}_e$ — Burachas 95, Kobayashi 94

Er

Yb* $2e^-$ $2\overline{\nu}_e$ + Yb* $2e^-$ $0\overline{\nu}_e$ — Derbin 96

Yb

Hf* $2e^-$ $2\overline{\nu}_e$ + Hf* $2e^-$ $0\overline{\nu}_e$ — Derbin 96

^{207}Pb*

^{207}Pb e^- e^+ — Leinberger 97

^{252}Cf

e^- e^+ X — Tsunoda 95

^{252}Cf

neutral X — Tsunoda 95
axion X — Tsunoda 95

Entries in order of particle name, then decay. A few chemical symbols for nuclei have been changed to avoid ambiguity with particle names (see the Particle Vocabulary). See the legend on page 323.

This index lists papers by the accelerator, the experiment number, and the detector used, ordered alphabetically. The Accelerator Vocabulary and the Detector Vocabulary list all the facilities used by papers indexed in this book.

A question mark indicates that the information is missing, usually because it was not given in the paper. A dash mark indicates that no experiment number or name is available.

Illustrative Key

Accelerator: see the *Accelerator Vocabulary* for definitions.

Detector: see the *Detector Vocabulary* for definitions.

ANL	
ANL-E-412	
DBC-12FT	Mann 86
ANL-E-435	
CNTR	Auer 86
SPEC	Auer 86B
WIRE	Auer 86
ANL-E-441	.
EMS	Finley 85
ANL-E-447	
SPEC	Auer 88
ANL-E-451	
EMS	Wicklund 85
	Wicklund 87
BNL	
BNL-673-593	
MPS	Bensinger 85
BNL-701	
COMB	Franklin 87
BNL-702	
COMB	Snow 85
BNL-723	
SPEC	Gall 88
	Hertzog 88
BNL-726	
WIRE	Christenson 85
BNL-732	.
CALO	Chiang 86

Document ID: see the *ID/Reference/Title Index* for the full reference.

Experiment: the experiment's number, where known.

AERE-HELIOS-NS
—
CNTR Enik 97

ALPI
—
MICROSTRIP Stefanini 95
SEMI Stefanini 95
TOF Stefanini 95

ANIK-MEA
—
CALO Ferroluzzi 96
CNTR Ferroluzzi 96
SPEC Anklin 98
Bouwhuis 98
Spaltro 98
Vanleeuwe 98
Vanleeuwe 98B
Zhou 98
Pellegrino 97
Vandenbrink 97
Vanleeuwe 96
Kester 95
Kester 95B
Vandenbrink 95
Anklin 94
Ent 94
WIRE Ferroluzzi 96

ANL
—
HBC-30IN Bertolotto 94
SPEC Deyoung 96

ANL-ATLAS
ANL-ATLAS-APEX
APEX Ahmad 97
Ahmad 95B
—
SPEC Back 99

ANUC-CYC
—
CNTR Dasgupta 99
EMUL Dasgupta 99
WIRE Dasgupta 99

BHEP-BEPC
BEPC-BES
BES Bai 98
Bai 98B
Bai 98C
Bai 98D
Bai 98E
Bai 98F
Bai 98G
Bai 98H
Bai 98I
Bai 98J
Bai 98K
Bai 98L
Bai 97
Bai 96
Bai 96B
Bai 96C
Bai 96D
Huang 96
Jin 96
Bai 95
Bai 95B
Bai 95C
Qi 95
Bai 94
Bai 94B
Fan 94
Fan 94B
Gomezycadena 94
Jones 94

BNL
BNL-701
DBC-30IN Gaspero 95
BNL-747
MPS Landberg 96
Bertolotto 94
BNL-755
DAS White 94B

BNL
BNL-766
CNTR Felix 96
MICROSTRIP Felix 96
SPEC Wang 97
Felix 96
Hartouni 94
Uribe 94
TOF Felix 96
BNL-771
MPS-II Lee 94
BNL-787
SPEC Adler 98
Adler 97B
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Kitching 97
Adler 95B
BNL-788
SPEC Zeps 98
BNL-791
SPEC Heinson 94
BNL-813
SPEC Chrien 98
BNL-835
CNTR Weiss 94
SPEC Friedman 97
Weiss 94
BNL-836
COMB Stotzer 97
SPEC Chrien 98
BNL-850
EVA Aclander 98
Mardor 98
Mardor 97
BNL-852
MPS Thompson 98
Thompson 97
Adams 96B
Brabson 96
Cason 96
Dowd 96
Weygand 96
BNL-855
CALO Tincknell 96
PHOTON Tincknell 96
SPEC Tincknell 96
BNL-864
SPEC Barish 98
BNL-866
SPEC Ogilvie 98
BNL-871
SPEC Ambrose 98
Ambrose 98B
BNL-874
DRIFT Chrien 97
SPEC Chrien 97
Kormanyos 95
BNL-882
PLASTIC He 97B
BNL-885
SPEC Lowe 98
May 97
BNL-886
CNTR Rusek 95
Saito 94
SPEC Rusek 95
Saito 94
BNL-887
SPEC Sawafta 98
BNL-888
CNTR Belz 96B
DRIFT Belz 96B
MICROSTRIP Belz 96B
SPEC Belz 96
Belz 96B
BNL-895
SPEC Liu 98
BNL-900
SEMI Kwiatkowski 98
SPEC Hsi 98
BNL-905
COMB Nagae 98
SPEC Sawafta 98
BNL-907
SPEC Comfort 98

BNL
BNL-910
SPEC Chemakin 98
BNL-917
SPEC Ogilvie 98
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COMB Lach 94
DBC-30IN Gaspero 96
Gaspero 95B
Gaspero 94
DRIFT Michael 96
HBC-30IN Ableev 94B
OSPK Oakden 94
SPEC Michael 96

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BNL-802
CALO Abbott 94B
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SAS Kaufman 97B
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Kaufman 96
Abbott 95
Abbott 94
Tannenbaum 94
WIRE Abbott 94B
BNL-810
MPS Eiseman 95B
Longacre 95
Stocker 95
Eiseman 94
Longacre 93
BNL-814
CALO David 97
Barrette 95
Barrette 95C
Barrette 95D
Barrette 95F
Barrette 94B
Fatyga 94
Hemmick 94
Lissauer 94B
Lissauer 94C
Rosati 94
Xu 94
CNTR Barrette 95
Barrette 95D
SPEC David 97
Barrette 95C
Barrette 95F
Barrette 95G
Stocker 95
Barrette 94B
Barrette 94C
Fatyga 94
Hemmick 94
Lissauer 94B
Lissauer 94C
Ludlam 94
Sonnadara 94
Xu 94
BNL-815
EMUL Adamovich 95F
Adamovich 95G
Adamovich 95H
Andreeva 95B
Adamovich 94B
Adamovich 94C
Tretyakova 94
BNL-847
EMUL Elnadi 98B
Jain 95
Mukhopadhyay 95
Singh 94B
BNL-855
SPEC Stocker 95
Lissauer 94
BNL-859
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Kaufman 94
Kaufman 94C
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CNTR Stephans 97
Kaufman 94C
Wang 94
SAS Stephans 97

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Kaufman 95
Wang 95
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Andreeva 97
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Adamovich 95I
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Dover 98
Decataldo 97
CNTR Armstrong 99
MICROSTRIP Dover 98
SPEC Dover 98
Pruneau 98
Armstrong 97
Armstrong 97B
Barish 97B
Decataldo 97
Nagle 97
Skank 96
TOF Armstrong 99
BNL-866
CALO Ahle 99
Ahle 98
Ashktorab 98
Ashktorab 98D
Ashktorab 96
Stocker 95
Gonin 94
Kaufman 94B
CNTR Stocker 95
DRIFT Ahle 99
Ashktorab 98D
SAS Ahle 98
Kaufman 97
Ashktorab 96
Stocker 95
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Kaufman 94B
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Ashktorab 98C
Ashktorab 98D
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Shigaki 95
Gonin 94
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Ashktorab 98D
WIRE Ahle 99
Ashktorab 98D
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EMUL Dabrowska 97
Cherry 96
Cherry 95
Cherry 94
Cherry 94B
BNL-869
CNTR Stocker 95
Nilsen 94
Waddington 94
PLASTIC Nilsen 94
WIRE Geer 95
Stocker 95
Nilsen 94
Waddington 94
BNL-875
EMUL Singh 97
Jain 96
Singh 96
Jain 95
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Jain 94

BNL-ION
Jain 94B
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Singh 94B
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CALO David 99
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David 96B
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Barrette 95E
Miskowiec 95
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Barrette 94D
DRIFT David 99
PLASTIC Ashktorab 98B
SPEC Ashktorab 98B
Barrette 98
Voloshin 98
Barrette 97B
David 97B
David 96
David 96B
David 96C
Barrette 95B
Barrette 95E
Miskowiec 95
Voloshin 95
Zhang 95B
TOF David 99
David 97B
WIRE David 99
David 97B
BNL-878
DRIFT Beavis 97
SPEC Beavis 95
Beavis 95B
Beavis 95C
Stocker 95
Hayano 94
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Beavis 97
BNL-882
EMUL He 94
PLASTIC He 94
BNL-886
CNTR Lowe 96
SPEC Lowe 96
BNL-891
MPS Ahmad 98
Ahmad 96
BNL-895
SPEC Ajitanand 98
BNL-898
SEMI Zeitlin 97
BNL-910
MPS Chemakin 99
SPEC Cole 98
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SPEC Back 98
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MANY Ogilvie 97
PLASTIC Hirzebruch 95

BONN-CYC
—
NEUTRONSPEC Hempen 98
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AMADEUS Price 95
ELAN Bruins 95
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Hoffmannroth 97
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Althoff 94
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SAPHIR Bennhold 98
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Tran 98
Mirazita 97
Bockhorst 94
Jungst 94
Menze 94

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CEBAF-89-012
HMS Bochna 98
CEBAF-91-016
HMS Bailey 98
SOS Bailey 98
TOF Bailey 98
CEBAF-93-018
HMS Baker 98
SOS Baker 98
TOF Baker 98
CEBAF-E93-018
SPEC Niculescu 98
CEBF-89-012
HMS Arrington 98
CEBF-94-014
HMS Frolov 99
SOS Frolov 99
—
HMS Abbott 98I
Armstrong 98B
POLDER Abbott 98I
SOS Armstrong 98B
SPEC Abbott 98O
Alexa 98
Aniol 98

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CALO Calen 98B
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COMB Betsch 98
Zlomanczuk 98
PLASTIC Calen 98
Calen 97
Calen 96
Bondar 95
SPEC Badala 98B
Bilger 98B
Calen 98B
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Johansson 98B
Olsson 98
Zlomanczuk 98B
Bargholtz 97
Bargholtz 97B
Bilger 97
Jakobsson 97
Jakobsson 97B
Traneus 97
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CERN-R-110
SPEC Vogelsang 97
CERN-R-421
SFM Breakstone 95
CERN-R-704
COMB Bertolotto 94
Cester 94
CERN-R-806
CALO Vogelsang 97
CERN-R-807
AFS Vogelsang 97

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CERN-PS-170
APPLE Bardin 94
CERN-PS-171
ASTERIX Ableev 94B
CERN-PS-172
WIRE Hasan 96B
Oakden 94

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

CERN-LEAR
CERN-PS-173
COMB — Bradamante 94
CERN-PS-179
EMUL — Batusov 96C
CERN-PS-182
SPEC — Ableev 94B
CERN-PS-185
WIRE — Barnes 97, Barnes 96, Barnes 96B, Barnes 96C, Rohrich 96, Barnes 94, Eisenstein 94
CERN-PS-186
DAS — Hofmann 94
CERN-PS-195
CPLEAR — Apostolakis 99, Angelopoulos 98, Angelopoulos 98B, Angelopoulos 98C, Angelopoulos 98D, Angelopoulos 98E, Adler 97, Adler 97D, Angelopoulos 97, Angelopoulos 97B, Angelopoulos 97C, Angelopoulos 97D, Angelopoulos 97E, Apostolakis 97, Adler 96, Adler 96B, Adler 96C, Adler 96D, Adler 96F, Adler 95, Adler 95C, Adler 95D, Adler 95E, Adler 95F, Adler 95G, Ableev 94B, Adler 94, Adler 94B
CERN-PS-196
OTHER — Gabrielse 95
CERN-PS-197
CRYS-BARREL — Abele 99, Abele 99B, Abele 98, Abele 98B, Abele 98C, Abele 98D, Abele 98E, Abele 97, Abele 97B, Abele 97C, Abele 97D, Abele 97E, Abele 97F, Abele 97G, Abele 96, Abele 96B, Abele 96C, Adomeit 96, Amsler 96, Amsler 96B, Amsler 96C, Amsler 96D, Degener 96, Pinder 96, Resag 96, Spanier 96, Spanier 96B, Amsler 95, Amsler 95B, Amsler 95C, Amsler 95D, Amsler 95E, Amsler 95F, Amsler 95G, Amsler 95H, Anisovich 95, Montanet 95

CERN-LEAR
Ableev 94B, Amsler 94, Amsler 94B, Amsler 94C, Amsler 94D, Amsler 94E, Amsler 94F, Amsler 94G, Amsler 94H, Amsler 94I, Amsler 94J, Anisovich 94, Armstrong 94B, Brose 94, Faessler 94, Felix 94, Ravndal 94, Spanier 94, Strassburger 94, Wiedner 94
CERN-PS-199
CNTR — Barbina 97, Ahmidouch 96, Lamanna 96, Ahmidouch 95, Ahmidouch 95B, Lamanna 94
CERN-PS-201
OBELIX — Alberico 98, Alberico 98B, Bertin 98, Bertin 98B, Bertin 97, Bertin 97B, Bertin 97D, Bertin 97E, Bertin 96I, Filippi 96, Iazzi 96, Prakhov 96, Ableev 95C, Ableev 94, Ableev 94B, Ableev 94C, Ableev 94D, Ableev 94G, Ableev 94H, Ableev 94I, Adamo 94, Agnello 94, Feliciello 94, Lucherini 94, Masoni 94, Piccinini 94, Sapozhnikov 94, Sapozhnikov 94B
SPEC — Bertin 97C, Bertin 96, Bertin 96B, Bertin 96C, Bertin 96D, Bertin 96E, Bertin 96F, Bertin 96G, Bertin 96H, Temnikov 96, Villa 96, Ableev 95, Bertin 95, Ableev 94E, Ableev 94F
CERN-PS-202
JETSET — Evangelista 98, Buzzo 97, Evangelista 97, Bertolotto 96, Palano 96, Bertolotto 95, Bertolotto 94, Steinkamp 94
CERN-PS-203
PHOTON — Lubinski 94
SEMI — Polster 95
TOF — Schmid 94
WIRE — Ivanov 95

CERN-LEAR
CERN-PS-205
CNTR — Yamazaki 96, Morita 95, Hayano 94B, Nakamura 94, Widmann 94
PLASTIC — Daniel 94
CERN-PS-206
CNTR — Bressan 97, Lamanna 96, Bradamante 95, Birsa 94, Bradamante 94
COMB — Bradamante 94
TOF — Bressan 97, Lamanna 96, Bradamante 95, Birsa 94
CERN-PS-207
SPEC — Anagnostopou 96
CERN-PS-208
CNTR — Lubinski 98, Goldenbaum 96, Jahnke 96
COMB — Schmid 97
NEUTRONSPEC — Schmid 97B, Goldenbaum 96
SPEC — Schmid 97B
TOF — Schmid 97B, Goldenbaum 96
CERN-PS-210
CNTR — Baur 96
—
WIRE — Kloet 96

CERN-LEP
CERN-LEP-ALEPH
ALEPH — Barate 99, Barate 99B, Barate 99C, Barate 99D, Barate 99E, Barate 99F, Barate 98, Barate 98B, Barate 98C, Barate 98D, Barate 98E, Barate 98F, Barate 98G, Barate 98H, Barate 98I, Barate 98J, Barate 98K, Barate 98L, Barate 98M, Barate 98N, Barate 98O, Barate 98P, Barate 98Q, Barate 98R, Barate 98S, Bock 98, Alemany 97, Barate 97, Barate 97B, Barate 97C, Barate 97D, Barate 97E, Barate 97F, Barate 97G, Barate 97H, Barate 97I, Barate 97J, Barate 97K, Barate 97L, Barate 97M, Barate 97N, Barate 97O, Barate 97P, Barate 97Q, Barate 97R, Barate 97S, Barate 97T, Barate 97U

CERN-LEP

Barate 97V
Barate 97W
Barate 97X
Barate 97Y
Barate 97Z
Barate 97ZB
Barate 97ZC
Barate 97ZD
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Barate 97ZF
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Buskulic 96D
Buskulic 96E
Buskulic 96F
Buskulic 96G
Buskulic 96H
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Buskulic 96P
Buskulic 96Q
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Buskulic 96U
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Karlsson 96
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Andreazza 95
Behnke 95
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Buskulic 95P
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Buskulic 95W
Buskulic 95X
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Ferrante 95
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Matorras 95
Musolino 95
Padilla 95
Park 95B
Raab 95
Rouge 95
Stahl 95
Vorobiev 95B
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Brient 94
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Buskulic 94B
Buskulic 94C
Buskulic 94D
Buskulic 94E
Buskulic 94F
Buskulic 94G
Buskulic 94H
Buskulic 94I
Buskulic 94J
Buskulic 94K
Buskulic 94L
Buskulic 94M
Buskulic 94N
Carr 94
Colas 94
Danilov 94
Dejongh 94
Dremin 94
Duflot 94
Golutvin 94
Gomezycadena 94
Janot 94
Kramer 94
Richard 94
Wormser 94
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Abreu 98S
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Abreu 98V
Abreu 98W
Bock 98
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Abreu 97B
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Edsall 97
Lorstad 97
Ruiz 97
Weber 97
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Behnke 95
Bella 95
Charlesworth 95
Dam 95
Davier 95
Ferrante 95
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Kounine 95
Marti 95

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Carr 94
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Dejongh 94
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Dremin 94
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Kramer 94
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Wormser 94
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Malinin 96
Semenov 96
Ye 96
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Alber 96
Alber 95
Alber 95C
Foka 95
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Bachler 94
Bachler 94B
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Panagiotou 94
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Andersen 94
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Blessing 94
Buckleygeer 94
Chakraborty 94
Claes 94
Ducros 94
Ellison 94
Eppley 94
Errede 94B
Fahley 94
Garbincius 94
Geer 94
Genser 94
Graf 94
Grannis 94
Hagopian 94
Hara 94
Hedin 94

FNAL-COLLIDER

Huehn 94
Jung 94
Lidemarteau 94
Nodulman 94
Norman 94
Oshima 94
Plunkett 94
Quintas 94
Raja 94
Spadafora 94
Taketani 94
Tollestrup 94
Weerts 94
White 94
Wolinski 94
Yu 94
Abachi 93B
Piekarz 93B

FNAL-741
CDF

Abe 99
Abe 99B
Abe 99D
Abe 99E
Abe 98
Abe 98C
Abe 98D
Abe 98E
Abe 98F
Abe 98G
Abe 98I
Abe 98J
Abe 98M
Abe 98N
Abe 98O
Abe 98P
Abe 98Q
Abe 98R
Abe 98S
Abe 98T
Abe 98U
Abe 98V
Abe 98W
Abe 98X
Abe 98Y
Abe 98Z
Abe 98ZB
Abe 98ZC
Abe 98ZD
Abe 98ZE
Dorigo 98
Grossopilche 98
Singh 98
Abe 97D
Abe 97F
Abe 97H
Abe 97K
Abe 97L
Abe 97M
Abe 97N
Abe 97O
Abe 97P
Abe 97Q
Abe 97R
Abe 97S
Abe 97V
Abe 97W
Abe 97X
Abe 97Y
Abe 97Z
Abe 97ZB
Abe 97ZC
Abe 97ZD
Abe 97ZE
Abe 97ZH
Abe 97ZI
Abe 97ZJ
Abe 97ZK
Conway 97
Vogelsang 97
Abe 96
Abe 96B
Abe 96C
Abe 96D
Abe 96E
Abe 96F

FNAL-COLLIDER

Abe 96G
Abe 96H
Abe 96I
Abe 96J
Abe 96K
Abe 96L
Abe 96M
Abe 96N
Abe 96Q
Abe 96R
Abe 96S
Abe 96ZD
Albrow 96
Asakawa 96
Azzi 96
Barbarogalti 96
Barnett 96
Bauer 96
Binkley 96
Bodek 96
Busetto 96
Castro 96
Chiarelli 96
Cobalgrassma 96
Conway 96
Demina 96
Dittmann 96
Flaugher 96
Gerdes 96
Giokaris 96
Goshaw 96
Goshaw 96B
Goulianos 96
Huffman 96
Kamon 96
Kruse 96
Laasanen 96
Lecompte 96
Leone 96
Leone 96B
Leone 96C
Lewis 96
Loomis 96
Loomis 96B
Lucchesi 96
Lys 96
Maeshima 96
Melese 96
Melese 96B
Melese 96C
Meschi 96
Miao 96
Neuberger 96
Neuberger 96B
Nodulman 96
Nodulman 96B
Ohl 96
Papadimitrio 96
Papadimitrio 96B
Paulini 96
Phillips 96
Pillai 96
Rijssenbeek 96
Rolli 96
Sansoni 96
Sinervo 96
Slaughter 96
Speer 96
Tartarelli 96
Thurmankeup 96
Tkaczyk 96
Toback 96
Valls 96
Varelas 96
Wang 96
Wenzel 96
Wenzel 96B
Yu 96B
Abe 95
Abe 95B
Abe 95C
Abe 95D
Abe 95E
Abe 95G
Abe 95H

FNAL-COLLIDER

Abe 95I
Abe 95J
Abe 95L
Abe 95M
Abe 95N
Abe 95O
Abe 95P
Abe 95Q
Abe 95R
Abe 95T
Abe 95U
Abe 95W
Abe 95X
Abe 95Y
Abe 95ZB
Abe 95ZC
Abe 95ZE
Abe 95ZH
Abe 95ZI
Abe 95ZK
Aihara 95
Anwaywiese 95
Bauer 95
Benjmain 95
Beretvas 95
Beretvas 95B
Beretvas 95C
Beretvas 95D
Bertram 95
Binkley 95
Blair 95
Blazey 95
Buckleygeer 95
Debarbaro 95
Demortier 95
Derwent 95
Diehl 95
Frisch 95
Fuess 95
Geer 95B
Grassmann 95
Grassmann 95B
Harris 95
Harris 95B
Incandela 95
Incandela 95B
Kim 95
Kim 95B
Kim 95C
Kopp 95
Lamoureux 95
Mccarthy 95
Melese 95
Menzione 95
Papadimitrio 95
Papadimitrio 95B
Park 95
Ragan 95
Roser 95
Sansoni 95
Sinervo 95
Skarha 95
Streets 95
Ukegawa 95
Unal 95
Wagner 95
Womersley 95
Yu 95
Yu 95B
Abe 94
Abe 94B
Abe 94D
Abe 94E
Abe 94F
Abe 94G
Abe 94H
Abe 94I
Abe 94J
Abe 94K
Abe 94L
Abe 94M
Abe 94N
Abe 94O
Abe 94P
Abe 94Q

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

FNAL-COLLIDER

Abe 94R
Abe 94S
Abe 94T
Abe 94X
Abe 94Y
Abe 94Z
Abe 94ZD
Abe 94ZE
Abe 94ZF
Abe 94ZG
Abe 94ZH
Antos 94
Anwaywiese 94
Badgett 94
Bailey 94
Bartalini 94
Bazizi 94
Benlloch 94
Bhatti 94
Blair 94
Buckleygeer 94
Budd 94
Byrum 94
Cdfcollabora 94B
Cdfcollabora 94C
Cdfcollabora 94D
Cdfcollabora 94E
Cdfcollabora 94F
Daniels 94
Debarbaro 94
Dejongh 94
Derwent 94
Ducros 94
Errede 94
Errede 94B
Frisch 94
Fuess 94B
Garbincius 94
Geer 94
Gerdes 94
Giannetti 94
Hagopian 94
Hamilton 94
Hara 94
Harris 94B
Hauger 94B
Hawk 94
Jensen 94
Jung 94
Kamon 94
Karen 94
Keup 94
Kim 94
Konigsberg 94
Kopp 94
Kovacs 94
Kovacs 94B
Kuhlmann 94
Kuhlmann 94B
Lecompte 94
Leone 94
Lewis 94
Lewis 94B
Maeshima 94
Maghakian 94
Melese 94
Mueller 94
Nodulman 94
Papadimitrio 94
Park 94B
Plunkett 94
Rimondi 94
Sakyumoto 94
Shochet 94
Skarha 94
Sphicas 94
Tollestrup 94
Watts 94
Williams 94
Yu 94
Yu 94B
Abe 93N
Abe 93S
Abe 93T
Abe 93U
Abe 93W

FNAL-COLLIDER

Belforte 93
Luke 93

FNAL-775
CDF
Abe 97
Abe 97C
Abe 97I
Abe 96P

FNAL-811
SCINT
Avila 99

FNAL-864
MINIMAX
Bjorken 96

—
MANY
Harris 94

FNAL-TEV

FNAL-400
SPEC
Wiss 96

FNAL-581
SPEC
Grosnick 97

FNAL-581-704
SPEC
Adams 94B

FNAL-621
WIRE
Zou 96
Thomson 94
Zou 94

FNAL-632
HLBC-15FT-HYB
Asratyan 97
Deprospo 94

FNAL-653
EMUL
Kodama 96
Slaughter 96
Kodama 95
Freyberger 94
Garbincius 94
Gibaut 94B
Kodama 94

SPEC
Kodama 96
Slaughter 96
Kodama 95
Freyberger 94
Garbincius 94
Gibaut 94B
Kodama 94

FNAL-665
CCM
Adams 97C
Adams 97F
Seligman 97
Seligman 97C
Adams 96
Salgado 96
Adams 95
Adams 95C
Adams 95D
Adams 95F
Adams 95G
Badelek 95
Conrad 95
Kotwal 95
Adams 94D
Adams 94E
Adams 94F
Adams 94H
Fang 94
Kotwal 94
Kotwal 94B
Mallot 94
Schellman 94
Spentzouris 94
Wolbers 94
Adams 93C
Adams 93D
Adams 93F
Arneodo 92

FNAL-667
EMUL
Cherry 94C

FNAL-672
FMPS
Garbincius 94

FNAL-683
CALO
Alton 96
Conrad 95
Adams 94
Naples 94

SPEC
Alton 96
Conrad 95
Adams 94

FNAL-TEV

Naples 94

FNAL-687
CALO
Halling 96
Garbincius 95
Frabetti 94G
Johns 94

SPEC
Frabetti 98
Frabetti 98B
Frabetti 97
Frabetti 97B
Frabetti 97C
Frabetti 96
Frabetti 96B
Halling 96
Semenov 96
Slaughter 96
Wiss 96
Frabetti 95
Frabetti 95B
Frabetti 95C
Frabetti 95D
Frabetti 95E
Frabetti 95F
Frabetti 95H
Frabetti 95I
Fujino 95
Garbincius 95
Gardner 95
Frabetti 94
Frabetti 94B
Frabetti 94C
Frabetti 94D
Frabetti 94E
Frabetti 94F
Frabetti 94G
Frabetti 94H
Frabetti 94I
Frabetti 94J
Johns 94
Moroni 94
Frabetti 93C

FNAL-690
SPEC
Reyes 97
Gutierrez 96
Gutierrez 94

FNAL-691
TPS
Wiss 96
Garbincius 95
Freyberger 94

FNAL-704
SPEC
Adams 97E
Bravar 97
Vogelsang 97
Bravar 96
Adams 95H
Bravar 95
Adams 94C

FNAL-705
SPEC
Sansoni 95
Antoniazzi 94
Antoniazzi 94B
Garbincius 94

FNAL-706
FMPS
Gu 99
Apanasevich 97
Apanasevich 97B
Vogelsang 97
Koreshev 96
Slaughter 96
Conrad 95
Gribushin 95
Sansoni 95
Jesik 94
Alverson 93B

FNAL-731
SPEC
Gibbons 95C
Hsiung 94
Makoff 93

FNAL-733
FMM
Gallas 95

FNAL-743
FMPS
Dremin 94
HBC-LEBC-HYB
Dremin 94

FNAL-744
LAB-E
Mcfarland 97

FNAL-TEV
Bazarko 95
Mcfarland 95
Mallot 94
FNAL-750
EMUL
Dheer 95
Malik 95
Parashar 95
Parashar 95B
Parashar 95C
Shivpuri 95
Shivpuri 95B
Parashar 94
Parashar 94B
Shivpuri 94B
Shivpuri 94C
Soni 94
Verma 94
FNAL-756
MICROSTRIP
Chan 98
SEMI
Chan 98
SPEC
Chan 98
Woods 96
Wallace 95
Lach 94
FNAL-761
SPEC
Farrar 97
Albuquerque 96
Albuquerque 94
Lach 94
Smith 94B
Smith 94C
Timm 94
Dubbs 93
Morelos 93C
TRAD
Farrar 97
Albuquerque 96
Albuquerque 94
Lach 94
Smith 94B
Smith 94C
Timm 94
Dubbs 93
Morelos 93C
FNAL-769
TPS
Alves 96B
Karchin 95
Appel 94
Wallace 94
FNAL-770
LAB-E
Naples 99
Kim 98
Seligman 97
Seligman 97B
Seligman 97C
Mcfarland 96
Romosan 96
Yang 96
Arroyo 94
Mallot 94
FNAL-771
SPEC
Alexopoulos 97
Alexopoulos 97B
Alexopoulos 95B
Alexopoulos 95D
Alexopoulos 94B
FNAL-772
SPEC
Conrad 95
Garbincius 94
Arneodo 92
FNAL-773
SPEC
Matthews 95B
Schwingenheu 95
FNAL-781
SPEC
Eschrich 98
FNAL-789
SPEC
Brown 96
Kaplan 96
Leitch 95
Sansoni 95
Schub 95
Kowitt 94
Leitch 94
Mishra 94
FNAL-791
TPS
Aitala 98

FNAL-TEV
Aitala 98B
Aitala 98C
Aitala 98D
Aitala 98E
Aitala 97
Aitala 97B
Aitala 97C
Aitala 97D
Aitala 97E
Aitala 97F
Aitala 96
Aitala 96B
Aitala 96C
Aitala 96D
Aitala 96E
Aitala 96F
James 96
Aitala 95
Gardner 95
Appel 94
Carter 94
Carter 94B
Nguyen 94
Purohit 94
Purohit 94B
FNAL-799
CALO
Adams 98
Arisaka 98
Conrad 95
Gu 94
Krolak 94
Roberts 94
CNTR
Arisaka 98
DRIFT
Arisaka 98
SPEC
Arisaka 98
Solomey 98
Gu 96
Conrad 95
Spencer 95
Gu 94
Krolak 94
Nakaya 94
Ramberg 94
Roberts 94
Weaver 94
FNAL-832
CALO
Alaviharati 99
Adams 98B
Adams 97D
Farrar 97
SPEC
Alaviharati 99
FNAL-862
SPEC
Blanford 97
FNAL-866
SPEC
Hawker 98
Peng 98

FRAS-ADONE
FRAS-ADONE-FENICE
FENICE
Antonelli 98
Baldini 98
Antonelli 96
Antonelli 94
Gauzzi 94
Morandin 94
—
COMB
Anghinolfi 95
SPEC
Anghinolfi 96
Babusci 96
Bianchi 95
Bianchi 94
TOF
Babusci 98

GANIL
—
CNTR
Legrain 97
Buta 95
Lecolley 95
Bruno 94
COMB
Buta 97C
INDRA
Marie 98
Rivet 98
Borderie 96
Rivet 96
LISE
Trinder 97
Anne 94

GANIL
MEDEA
Badala 98
Sapienza 98
MUR-TONNEAU
Angelique 97
NEUTRONSPEC
Lecolley 97
ORION
Lott 97
PHOTON
Badala 96
SPEC
Badala 97
Badala 97B
Germain 97
Badala 96B
Badala 96C
Lecolley 96
Marques 96
Badala 95
Nilsson 95
SPEG
Cortinagil 97
Schutz 97
TAPS
Schutz 98
Schutz 97
Holzmann 96

GRON-CYC
—
PHOTON
Duijvestijn 99
SPEC
Sosin 94

HCAT
—
CNTR
Bulgakov 97

ILL
—
PHOTON
Feldman 96

IMPL-HIREL
—
SPEC
He 97

IND-CYC
—
CNTR
Van 99
Templon 97
Anderson 96B
Betker 96
Heimberg 96
Miller 95
Raue 95
Xu 95B
PLASTIC
Rohdjeb 98
Pairsuwan 95
SCINT
Anderson 98B
SEMI
Przewoski 98
Zhang 97
SPEC
Daehnick 98
Flammang 98
Rathmann 98
Hardie 97
Stephenson 97
Anderson 96
Liu 96
Martoff 96
Yu 96
Daehnick 95
Pham 95
Dytman 94
Feldman 94
Rapaport 94
Watson 94
Wissink 94
TOF
Rohdjeb 98
Edwards 96
Wang 94B
WIRE
Meyer 98B
Przewoski 98
Haeberli 97
Liu 96

ITEP
ITEP-763
HBC-2M
Bulekov 98
Mikhailichen 98
Mikhajlichen 97
Kiselevich 95
HLBC-105CM
Mikhajlichen 97
HLBC-2M
Kiselevich 94
ITEP-804
TISS-3
Landsberg 94C

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

ITEP
ITEP-812
FOCUS — Bayukov 94
ITEP-827
HBC-2M — Aleshin 94
ITEP-842
FHS-1 — Bondarev 98
ITEP-862
SPEC — Vlasova 96, Vishnevsky 94
ITEP-865
CNTR — Kuzichev 93, Kuzichev 92
WIRE — Kuzichev 92
ITEP-873
FHS-2 — Boyarinov 94
ITEP-892
HBC-2M — Chadeeva 97, Blinov 95B, Grechko 94, Abdullin 92
ITEP-893
NHS — Vorobiev 98, Efremenko 94
ITEP-894
NHS — Vlasov 95, Doroshkevich 94
ITEP-913
HLBC-DIANA — Barmin 96, Barmin 96B, Barmin 94, Barmin 94B
ITEP-914
SPIN — Alekseev 97, Abaev 95, Alekseev 95
ITEP-922
SPEC — Bulekov 98, Bulekov 97
WIRE — Bulekov 97
ITEP-941
FHS-2 — Kiselev 96
ITEP-942
MTS — Abramov 98B
—
EMUL — Berdnikov 96, Berdnikov 96B
HBC-2M — Bulekov 97B, Brovkin 94, Bulekov 94, Drutskoi 93
HLBC-105CM — Bulekov 97B
HLBC-180LIT — Strugalskago 96, Strugalski 96, Strugalskago 94
MTS — Abramov 96B, Abramov 94
SPEC — Alekseev 99, Abramov 98
SPRK — Alekseev 99

IUPU-CYC
—
CNTR — Wang 97F, Chen 96B
IONIZATION — Wang 97F, Chen 96B
MICROSTRIP — Wang 97F, Chen 96B
SEMI — Wang 97F, Chen 96B

JINR
JINR-86-02
SPEC — Baldin 94
SPHERE — Anisimov 97, Abraamyan 94C, Zarubin 94
JINR-86-03
ALPHA-POLIS — Okonov 94
JINR-86-04
GIBS — Avramenko 96, Chkhaidze 96, Anikina 95, Anikina 95B, Avramenko 94

JINR
HLBC-2M — Dedovich 94
JINR-?
EMUL — Ahmad 95, Belaga 95F, Sherif 95, Elsharkawy 94, Ghosh 94B, Ghosh 94D, Jilany 94, Tariq 94
HBC-1M — Sobchak 95B, Gaitinov 94, Glagolev 94B
HLBC-2M — Kuznetsov 97C, Simic 95, Angelov 94, Bondarenko 94, Ermakov 94
KASPIY — Baldin 95B
PHOTON-MASSER — Abraamyan 92
SKM-200 — Sarkisyan 95, Albaaj 94
SPEC — Bondarev 98, Bondarev 94
SSNTD — Sampsonidis 95
JINR-HISS
EMUL — Belaga 95H, Belaga 95I, Belaga 94
JINR-LHE-0936-03
HBC-1M — Gankhuyag 98
JINR-LHE-0936-3
HBC-1M — Troyan 98, Troyan 98B, Troyan 96, Troyan 94
JINR-LHE-0941-18
ALPHA-POLIS — Azhgirey 98
JINR-LHE-0941-1A
ALPHA-POLIS — Azhgirey 94B
JINR-LHE-0941-1B
ALPHA-POLIS — Azhgirey 97, Azhgirey 97B, Azhgirey 96, Azhgirey 96B, Azhgirey 95, Azhgirey 95B, Azhgirey 94
JINR-LHE-0941-1D
ALPHA-POLIS — Kuehn 94
JINR-LHE-0941-1E
SPEC — Aono 95, Chernykh 94, Nomofilov 94
JINR-LHE-0941-4
SPEC — Sharov 96
JINR-LHE-0941-5
HBC-1M — Glagolev 98, Glagolev 97, Hlavacova 97, Glagolev 96, Glagolev 95B
JINR-LHE-0969
KASPIY — Baldin 95
JINR-LHE-0983-4
SPHERE — Afanasiev 98, Afanasiev 98B, Afanasiev 98C, Azhgirey 98B, Afanasiev 97, Anisimov 95
JINR-LHE-0983-5A
SPEC — Anisimov 98
—
CNTR — Avdeyev 98, Anoshina 97, Avdeyev 97, Karnaukhov 96, Kulakov 95, Shmakov 95, Adyasevich 94, Adyasevich 94B, Lips 94, Lips 94B

JINR
Lips 94C
COMB — Kulakov 98, Bisplinghoff 94
DISC-3 — Averichev 95B, Averichev 95C
EMUL — Bondarenko 98, Elnadi 98, Elnadi 98B, Lepekhin 98, Singh 98B, Elnadi 97B, Ghosh 97, Avetyan 96, Adamovich 95G, Andreeva 95B, Belaga 95D, Boos 95, Chernov 95, Chernov 95B, Elnadi 95D, Elnadi 95E, Elnaghy 95, Gulamov 95, Jilany 95, Khan 95, Lepekhin 95, Tariq 95, Yasin 95, Yasinelbakry 95, Ahmad 94, Ameeva 94, Elnadi 94C, Elnaghy 94, Lepekhin 94B, Singh 94C, Zhumanov 94
GIBS — Anikina 98, Anikina 98B, Chkhaidze 98
HBC-1M — Glagolev 98B, Gulamov 96, Deloff 95, Glagolev 95, Lyuboshitz 95, Sobchak 95, Glagolev 94
HLBC-2M — Aslanyan 98, Belyakov 98, Bondarenko 98B, Bondarenko 98C, Garsevanishv 98, Simic 98, Suleimanov 98, Suleimanov 98B, Kulakov 97, Kuznetsov 97, Kuznetsov 97B, Aslanyan 96, Belaga 96, Bondarenko 96, Kuznetsov 96, Shakhbazyan 96, Simic 96, Bazarov 95, Belaga 95, Belaga 95B, Belaga 95E, Belaga 95G, Boos 95, Cheplakov 95, Chernov 95B, Shakhbazyan 95, Backovic 94, Bazarov 94, Bekmirzaev 94, Bekmirzaev 94B, Shakhbazyan 94, Troyan 94B, Bekmirzaev 93
OTHER — Todorovic 98
PHOTON — Briancon 98, Brandt 95
PHOTON-MASSER — Abraamyan 98, Abraamyan 96, Abraamyan 94B
PLASTIC — Sampsonidis 95B

JINR
SAS — Anoshina 97
SEMI — Briancon 98
SKM-200 — Anikina 98, Anikina 98B, Besliu 98, Gelovani 98, Gogiberidze 98, Chkhaidze 97, Kulakov 97, Chkhaidze 95, Jipa 95
SPEC — Briancon 98, Adyasevich 96, Averichev 95
SSNTD — Butsev 97
X-RAY — Fedorets 94

JINR-600
JINR-LNP-09
PHOTON — Abazov 96
—
PHOTON — Danagulyan 97, Alexandryan 96
SPEC — Gordeev 97, Gordeev 96, Gordeev 94
STRC — Angelescu 96

KEK-KENS
KEK-231
CNTR — Adachi 94

KEK-PF-LINAC
—
PHOTON — Yasumi 94
SEMI — Yasumi 94

KEK-PS
KEK-068
SAS — Chiba 97, Chiba 97B, Chiba 96
KEK-074
SAS — Bradamante 94
KEK-131
SPEC — Oakden 94
KEK-137
DAS — Akagi 94
KEK-140A
SKS — Nagae 95
KEK-150
SKS — Bhang 98, Takahashi 95
KEK-160
PIK — Kishimoto 95, Noumi 95, Ajimura 94, Kishimoto 94
KEK-162
TOKIWA — Takeuchi 98, Nomura 97
KEK-167
SPEC — Outa 98
KEK-174
IONIZATION — Kobayashi 91
KEK-176
EMUL — Aoki 95B
SPEC — Aoki 98B, Nakazawa 98, Aoki 95B
KEK-177B
DAS — Kubota 96B
KEK-187
BENKEI — Aoyagi 94
FANCY — Tomizawa 94
KEK-195
SPEC — Aoki 94
KEK-217
PLASTIC — Nagae 94
TOF — Nagae 94
KEK-224
EMUL — Ahn 97, Itow 94
KURAMA — Fukuda 98H, Nakazawa 98

KEK-PS
SCINT — Ahn 98
SPEC — Ahn 98, Ahn 98D, Ahn 97, Itow 94
KEK-228
IONIZATION — Tanaka 94
PHOTON — Ito 98
PLASTIC — Ito 98
SPEC — Iwasaki 97
TOF — Ito 98
WIRE — Ito 98
KEK-235
WIRE — Sawada 97
KEK-246
SPEC — Kuno 94
KEK-251
CNTR — Ahn 98B
KEK-278
SPEC — Ajimura 98
KEK-286
CNTR — Ochiishi 95
TOF — Sugaya 97, Chiba 94
KEK-291
TOF — Ishibashi 94
KEK-307
SKS — Bhang 98B, Sato 98
KEK-325
SPEC — Yokkaich 98
KEK-336
SKS — Hasegawa 96, Hasegawa 95

KEK-TRISTAN
KEK-TE-001
VENUS — Miura 98, Odaka 98, Hamasaki 97, Hanai 97, Arima 96, Ohyama 96, Hanai 95, Uehara 95, Hosoda 94, Shirai 94, Yabuki 94, Sakuda 93, Uehara 93
KEK-TE-002
TOPAZ — Adachi 99, Aoki 98, Levine 97, Abe 95ZJ, Itoh 95, Miyabayashi 95, Enomoto 94, Enomoto 94B, Enomoto 94C, Itoh 94, Iwasaki 94, Muramatsu 94, Nakano 94, Tauchi 94, Enomoto 93, Sakuda 93
KEK-TE-003
AMY — Ahn 98C, Kim 98B, Kojima 97, Abreu 96Y, Takashimizu 96, Ueno 96, Aso 95, Aso 95B, Choi 95, Kanda 95, Li 95, Sahu 95, Sahu 95B, Sugimoto 95, Stuart 94, Velissaris 94, Liu 93

KEK-TRISTAN
Sakuda 93

KERN-CYC
—
TAPS — Kalantarnaye 98, Messchendorp 98

KFAJ-CYC
—
COMB — Albers 97, Balewski 96
SPEC — Macher 98, Drochner 96
WIRE — Ohm 97

KHAR
—
CNTR — Boldyshev 95, Buki 95
COMB — Zybalov 95
EMUL — Kirichenko 95
SPEC — Lyakhno 96, Kuplennikov 95, Kuplennikov 94
STRC — Lyakhno 96

KYUS-TAF
—
SEMI — Kimure 94, Sagara 94
SPEC — Shimizu 95

LAMPF
LAMPF-1072
SCINT — Simon 96
WIRE — Simon 96
LAMPF-1135
PI0SPEC — Dowell 95, Dowell 94
LAMPF-1173
LSND — Gninenko 98, Imlay 98, Athanassopou 97, Athanassopou 97B, Athanassopou 97C, Church 97, Athanassopou 96, Athanassopou 96B, Albert 95, Athanassopou 95, Hill 95
LAMPF-1179
SPEC — Frlez 97, Pocanic 94
LAMPF-1188
NEUTRONSPEC — Prout 95, Prout 94
LAMPF-1267
LAS — Kahrimanis 97
LAMPF-1286
COMB — Howell 98
LAMPF-1317
LAS — Espy 97, Espy 96
LAMPF-225
CNTR — Gninenko 98
LAMPF-546
EPICS — Dhuga 96, Matthews 95, Matthews 94
LAMPF-960
WAS — Beddo 93
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EPICS — Fortune 97, Laymon 96, Burlein 95, Hui 95, Fortune 94, Hui 94, Kagarlis 94, Mckinzie 94
HRS — Hoffmann 94
HRSF — Geso 98, Mack 95, Feldman 94
LAS — Rawoolsulliv 94

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

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NEUTRONSPEC Prout 96
PHOTON Pavlik 98
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OPTICAL ROTATION Edwards 95
ATOMIC-PNC-SEATTLE
OPTICAL ROTATION Vetter 95
LAMBSHIFT-YALE-4
SPEC Berkeland 95
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COMB Adams 95B

LBL-BEVALAC
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CNTR Sangster 95
Hashimoto 94
Nilsen 94
DAS Hashimoto 94
DLS Porter 98
Porter 97
Wilson 97
Huang 94
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DRIFT Tuve 99
EMUL Bondarenko 98
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HISS Tuve 99
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Hashimoto 94
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IONIZATION Hauger 98
MUSIC Lauret 98
Elliott 96
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NEUTRONSPEC Tuve 99
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PHOTON Bardayan 97
PLASTIC Hauger 98
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Zhang 95C
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PLASTIC-BALL Awes 96
Elaasar 94
SEMI Justice 94
SPEC Gelderloos 96
Nilsen 95
Dardenne 94
Justice 94
Lach 94
STRC Weigang 98
TOF Tuve 99

LBL-BEVALAC
Hauger 98
Lauret 98
Justice 97
Elliott 96
Hauger 96C
Gilkes 94
TPC Hauger 97
Justice 97
Elliott 96
Hauger 96
Hauger 96B
Hauger 96C
Justice 95
Lisa 95
Partlan 95
Wang 95D
Gilkes 94
WIRE Hauger 98
Nilsen 95
Dardenne 94

LBL-CYC-88IN
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OTHER Chen 94B
PHOTON Fujikawa 98
Perilloisaac 98
SEMI Perilloisaac 98
WIRE Rubehn 96C

LEGS
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CNTR Hicks 97
Blanpied 96
Blanpied 95
Ruth 94
Tedeschi 94
Tedeschi 94B

LINAC
—
PHOTON Debraeckelee 95

LUNA
GRAN SASSO-LUNA
SPEC Arpesella 97
Arpesella 96

LUND
—
CNTR Ruijter 96
PHOTON Proff 99
SPEC Dias 97
Sims 96
Hager 95
Ryckbosch 94

LVLN-CYC
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CNTR Michotte 96
PLASTIC Benck 98
Slypen 96
SPEC Benck 98
Benck 97
Slypen 95
TOF Benck 98

MANI-CYC
—
CNTR Eliyakutrosh 95
Carlson 94

MANY
MANY Landsberg 89
—
EMUL Cherry 97
MANY Baillie 97
Evans 97
Swain 97
Swain 97B
Achasov 96
Adler 96E
Ellis 96
Gazdzicki 96
Malvezzi 96
Perasso 96
Waldi 96
Abaev 95B
Arndt 95

MANY
Arndt 95B
Bagan 95
Ehrnsperger 95
Garcilazo 95
Gazdzicki 95
Heltsley 95
Palano 95
Sapozhnikov 95
Arndt 94
Baldoceolin 94B
Deswart 94
Goulianos 94
Hasan 94
Kuno 94
Morgan 94
Novikov 94
Pantaleone 94
Terranova 94
Timmermans 94
Zenoni 94
Arndt 93
Luke 93
Muheim 93B

MANZ-MAMI
—
CNTR Harty 98
Blomqvist 96B
COMB Audit 97
Hunger 97
Selke 96
Eyl 95
Meyerhoff 94
DAPHNE Beck 97
DRIFT Blomqvist 96B
PHOTON Franczuk 99
Kraus 98
Kraus 97
Molinari 96
Harty 95
Mcgeorge 95
Molinari 94
Wissmann 94
SPEC Blomqvist 98
Distler 98
Macgregor 98
Yau 98
Blomqvist 97
Liang 97
Maccormick 97
Zabrodin 97
Blomqvist 96
Blomqvist 96B
Crawford 96
Mackenzie 96
Molinari 96
Wichmann 96
Braghieri 95
Cross 95
Gothe 95
Harty 95
Mcgeorge 95
Frommhold 94
Isbert 94
TAPS Bernstein 97
Harter 97
Krusche 97
Fuchs 96
Peise 96
Krusche 95
Krusche 95B
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TOF Harty 98

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CLAMSUD Aseev 97
SPEC Burmistrov 95

MIT-BLA
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AHEAD Garson 94
CNTR Hansen 95
Jones 95
Gao 94
ELSSY Schmitt 97
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MIT-BLA

	Retzlaff 94
FPP	Warren 98
MEPS	Mertz 99
	Morrison 98
	Warren 98
	Milbrath 97
	Woo 97
SPEC	Morrison 98
	Holtrop 97
	Milbrath 97
	Mueller 97
	Jordan 96
	Dolfini 95
	Dytman 95
	Eden 94
	Garson 94
	Hansen 94
	Jordan 94
WIRE	Hansen 95
	Jones 95
	Gao 94
	Gao 94B
	Garson 94

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CNTR	Llope 95
DAS	Nadasen 99
MINIBALL	Popescu 98
	Kunde 97
	Tsang 97
	Williams 97
	Cornell 96
	Lou 96
	Peaslee 94
SEMI	Gaff 95
SPEC	Brown 96C
	Pak 96
	Pfaff 96
	Warner 96

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CNTR	Baumann 98
NEUTRONSPEC	Baumann 98
PHOTON	Baumann 98
	Jokinen 98
SEMI	Baumann 98
	Jokinen 98
SPEC	Jokinen 98
TOF	Baumann 98
UNDERGROUND-SOUDAN-II	
CALO	Allison 98
	Kasahara 97
CNTR	Allison 98
	Kasahara 97
UNDERGROUND-SUPERKAMIOKAN	
S-KAMIOKANDE	Shiozawa 98
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?	Hubler 95
	Snowdenifft 95
CALO	Alessandrell 98
	Klimenko 98
DRIFT	Desilva 97
MICROSTRIP	Desilva 97
OTHER	Youdin 96
	Farnham 95
	Cornaz 94
	Fischbach 94
	Vorobiev 94B
PHOTON	Avrigeanu 98
	Klimenko 98
SPEC	Desilva 97
	Mar 96
	Vandegriff 96
	Jeon 95
	Romaides 94
WIRE	Klimenko 98

NOVO-VEPP-2M

NOVO-CMD-2	
CMD-2	Akhmetshin 98
	Akhmetshin 97
	Akhmetshin 97B
	Akhmetshin 97C
	Akhmetshin 95

NOVO-VEPP-2M

	Akhmetshin 95B
NOVO-ND	
ND	Benayoun 96
NOVO-SND	
SND	Achasov 99
	Aulchenko 99
	Achasov 98
	Achasov 98B
	Achasov 98C
	Achasov 98D
	Aulchenko 98
	Aulchenko 98B
	Achasov 97
	Aulchenko 95

NOVO-VEPP-3

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CNTR	Loginov 98
	Theunissen 94
SPEC	Ivanov 94

NOVO-VEPP-4

NOVO-KEDR	
KEDR	Akhmadaliev 98
NOVO-MD-1	
MD-1	Baru 96
	Blinov 95
	Blinov 94
	Blinov 93

OHIO-RBF

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CALO	Kolata 98
NEUTRONSPEC	Kolata 98
SEMI	Kolata 98

ORNL-ORELA

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CNTR	Kopecky 95

ORSA-CYC

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SPEC	Egorov 97

ORSA-DCI

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DM2	Montanet 95
	Bertolotto 94
	Castro 94

OSAK-CYC

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DAS	Nomachi 98
DRIFT	Sakemi 95
NPOL	Wakasa 95
PHOTON	Ejiri 98
SEMI	Warner 94
SPEC	Cowley 98
	Ejiri 98
	Sakaguchi 98
	Matsuoka 95
	Sakemi 95
	Fujiwara 94
	Harakeh 94
	Sakemi 94
	Warner 94
	Yamagata 94
TOF	Sakai 98
	Wakasa 98
	Sakai 94
WIRE	Sakemi 95

PIYF

LENI-SC-021	
SPEC	Vorobiev 95
	Vorobiev 94
LENI-SC-087	
SPEC	Koptev 95
LENI-SC-108	
DBC-35CM	Andreev 94
PNPI-SC-124	
OSPK	Lopatin 94
PNPI-SC-129	
CNTR	Prokofiev 95
—	
IONIZATION	Andronenko 94
SPEC	Gridnev 95

PIYF

	Aleshin 94B

PSI

PSI-R-85-11	
LADS	Backenstoss 98
	Backenstoss 98B
	Kotlinski 98
	Lehmann 98
	Lehmann 97
	Lehmann 97B
	Androic 96
	Rzehorz 96
PSI-R-85-13-3	
LEPS	Wieser 96
PSI-R-86-05	
PHOTON	Hauser 98
	Sigg 95
PSI-R-87-01	
CNTR	Daum 95
SPEC	Assamagan 98
	Assamagan 96
	Assamagan 94
PSI-R-87-03	
SINDRUM-II	Kaulard 98
PSI-R-89-03	
SPEC	Bilger 98B
PSI-R-89-06	
SPEC	Jungmann 98
	Meyer 98
	Willmann 98
	Abela 96
PSI-R-91-08	
COMB	Ackerbauer 97
PSI-R-94-01	
SPEC	Lenz 98
PSI-Z-84-02	
SPEC	Clajus 95
	Kretschmer 94
PSI-Z-89-07	
CNTR	Tuccillo 94
SIN-R-72-02	
SPEC	Bannwarth 92
SIN-R-78-02	
CNTR	Badertscher 96
SIN-R-79-05	
CNTR	Gotta 94
LADS	Alteholz 94
SIN-R-82-10	
CNTR	Jeckelmann 94
—	
CNTR	Ahmidouch 98
	Wiaux 98
	Bressi 97
	Janousch 97
	Wessler 95
	Allet 94
	Goetz 94
COMB	Anklin 98B
LADS	Backenstoss 96
PHOTON	Wiaux 98
SCINT	Qin 95
SEMI	Wiaux 98
SPEC	Arnold 98
	Suft 98
	Anagnastopou 97
	Zejma 97
	Allet 96
	Balewski 95
	Bilger 95
	Joram 95
	Joram 95B
	Breuer 94
SUSI	Meier 94
WIRE	Ahmidouch 98
	Goetz 94

REACTOR

UNDERGROUND-SAGE	
SAGE	Abdurashitov 96
—	
CNTR	Gninenko 98
	Vyrodov 98
	Alfimenkov 96
	Greenwood 96

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

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COMB: Baldoceolin 94, Berezin 94, Vidyakin 94, Gninenko 98, Achkar 96, Achkar 95
MANY: Derbin 92B
NEUTRONSPEC: Kozlov 98, Vandergrinte 98
PHOTON: Greenwood 96
SCINT: Liaud 97
SPEC: Riley 99, Apollonio 97, Altarev 96, Altmann 95, Hagner 95, Ignatovich 95, Kuznetsov 95, Vyrodov 95, Declais 94, Kuznetsov 94
STRC: Baldoceolin 94
TPC: Liaud 97, Schreckenbac 95

RHEL-ISIS
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KARMEN: Armbruster 98, Armbruster 98B, Armbruster 98C, Armbruster 98D, Armbruster 94, Bodmann 94, Bodmann 94B, Kretschmer 94B

ROCH-TANDEM
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SPEC: Herrick 95

SAAC-CYC
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SEMI: Cowley 97, Cowley 96
SPEC: Steyn 99, Richter 96, Cowley 94, Richter 94

SACL-LINAC
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SAC-600: Ducret 94
SAC-900: Amroun 94, Ducret 94
SPEC: Legoff 97, Legoff 94, Zghiche 94

SACL-SATURNE-II
SACLAY-132
DIOGENE: Comptour 94
SACLAY-144
COMB: Ball 94C
SACLAY-198
SPES-II: White 96, Abegg 94, Fuchs 94
SACLAY-237
PINOT: Deoliveirama 96
SACLAY-251
SPES-IV: Sams 95, Morsch 94
SACLEY-145
SPES-IV: Belostotsky 97
SATURNE-095
SPES-IV: Frascaria 94
SATURNE-113
SPES-III: Willis 97
SATURNE-114
COMB: Ball 94
SATURNE-121
SPES-IV: Siebert 94
SATURNE-144
COMB: Allgower 98, Allgower 98B, Ball 94D

SACL-SATURNE-II
Ball 93C
SATURNE-145
SPES-IV: Nikulin 96, Belostotsky 94, Ero 94
SATURNE-155
CNTR: Julien 94
SPEC: Julien 94
SATURNE-174
SPES-III: Hibou 99, Hibou 98
SATURNE-202
POMME: Ladygin 97
SPES-IV: Ladygin 97
SATURNE-209
SPES-0: Rappenecker 95
SATURNE-212
SPES-III: Yonnet 98
SATURNE-213
DISTO: Chalyshev 98
SATURNE-222
SPES-IV: Wurzinger 96B, Wurzinger 95, Wurzinger 94
SATURNE-225
COMB: Allgower 98C, Arvieux 97, Ball 94B
SATURNE-228
COMB: Brzychczyk 95
IONIZATION: Foxford 96, Morley 96, Kwiatkowski 95, Morley 95
PLASTIC: Foxford 96, Morley 96
SEMI: Kwiatkowski 98
SPEC: Brzychczyk 98, Kwiatkowski 98B
SATURNE-237
PINOT: Chiavassa 98, Chiavassa 94, Chiavassa 94B, Chiavassa 94C
SATURNE-249
SPES-IV: Punjabi 95, Punjabi 94
SATURNE-290
POLDER: Furget 98
SPES-I: Furget 98, Goy 98
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COMB: Arvieux 98, Pienkowski 94
ORION: Ledoux 98, Quednau 96
PLASTIC: Tsang 97, Williams 97
SPEC: Balestra 98, Webber 98, Williams 97, Peaslee 94
SPES-I: Morlet 94, Peterson 94, Vandewiele 94
SPES-III: Tatischeff 98, Wurzinger 98, Debowski 97, Tatischeff 97, Debowski 96
SPES-IV: Kingler 98, Ledoux 98, Wurzinger 96, Donzaud 95

SAIP-RIKEN
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PLASTIC: Kikuchi 98
SPEC: Kikuchi 98, Ohnishi 98, Korsheninnik 97, Sakamoto 96, Ichihara 94, Niizeki 94, Okamura 94

SARA
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AMPHORA: Pawlowski 97

SASK-LINAC
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PHOTON: Feldman 96, Igarashi 95, Kolb 94
PLASTIC: Fissum 96, Hackett 96, Kolb 94
SPEC: Bergstrom 99, Bergstrom 98, Quraan 98, Bergstrom 97, Bergstrom 96, Igarashi 95, Macgibbon 95, Shaw 95, Choi 94
WIRE: Quraan 98, Hackett 96, Shaw 95, Kolb 94

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EMUL: Maity 95, Tretyakova 95
SERP-E-017
HLBC-2M: Badalyan 97, Kulakov 97, Kuznetsov 97B, Kuznetsov 97C, Badalyan 96, Gulamov 96B, Abdinov 95, Boos 95, Angelov 94, Zhumanov 94
SERP-E-040
SPEC-6M: Bolonkin 95
SERP-E-044
HBC-MIRA: Boos 95
SERP-E-077
HBC-MIRA: Boos 95
SERP-E-080
MIS: Ivanshin 94
SERP-E-083
HBC-LUDMILA: Boos 96, Boos 95, Boos 94, Dementiev 94
SERP-E-100
FODS: Abramov 96
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HYPERON: Blick 94
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RISK: Akhobadze 98, Grigalashvil 98, Akhobadze 97, Akhobadze 97B, Chklovskaia 95
SERP-E-115
ISTRA-M: Artemov 96, Artemov 95
SERP-E-119
SPEC: Afanasyev 96
SERP-E-122
HBC-MIRA: Boos 95
SERP-E-128
COMB: Aleshin 96B, Aleshin 96C, Aleshin 95B
SERP-E-136
CALO: Barabash 96B, Borisov 96, Anikeyev 95, Anikeyev 95B, Belikov 95, Bunyatov 95
COMB: Barabash 93
SERP-E-138
HBC-MIRA: Boos 94

SERP
- SERP-E-140
  - GAMS-2000: Prokoshkin 96, Prokoshkin 96B, Prokoshkin 96C, Prokoshkin 96D, Alde 95, Anisovich 95, Donskov 95, Kondashov 95, Stroot 95, Alde 94, Alde 94B, Alde 94C, Donskov 94, Kondashov 94, Kulik 94, Sadovsky 94
- SERP-E-142
  - LEPTON-F: Golovkin 97, Victorov 95, Victorov 95B
- SERP-E-146
  - BIS-2: Landsberg 94C
- SERP-E-147
  - MIS: Barkov 98, Batalova 97, Grigoriev 96, Baloshin 95
- SERP-E-148
  - SIGMA: Bondarev 98
  - SIGMA-AYAKS: Kartasheva 97, Kartasheva 96, Antipov 95, Antipov 93B
- SERP-E-149
  - PROZA-M: Belikov 96
- SERP-E-150
  - HBC-MIRA: Bogolyubsky 97, Kostin 96, Bogolyubsky 95, Zabrodin 95, Bogolyubsky 94, Minaenko 94
- SERP-E-152
  - COMB: Anikeyev 98
- SERP-E-153
  - SPEC: Bondarev 98
- SERP-E-157
  - MIS: Vasilevsky 95
  - MIS-2: Efremov 97
- SERP-E-159
  - BIS-2: Aleev 93C
  - EXCHARM: Aleev 96B, Aleev 96C
- SERP-E-161
  - COMB: Ardashev 97
- SERP-E-163
  - GAMS-2000: Alde 93
- SERP-E-164
  - VES: Amelin 98, Amelin 98B, Ryabchikov 96, Zaitsev 96, Amelin 95, Amelin 95B, Amelin 95C, Achasov 94, Amelin 94, Berdnikov 94, Berdnikov 94B, Zaitsev 94
- SERP-E-167
  - HYPERON: Batusov 96
- SERP-E-169
  - SPHINX: Golovkin 97, Golovkin 97B, Balatz 96, Bezzubov 96, Golovkin 96, Vavilov 96, Golovkin 95, Vavilov 95, Vavilov 95B, Vavilov 95C, Balatz 94B, Balatz 94C, Golovkin 94, Landsberg 94B, Landsberg 94C, Vavilov 94, Vavilov 94B, Vavilov 94C, Balatz 93
- SERP-E-172
  - GAMS-2000: Prokoshkin 96E
  - GAMS-4PI: Prokoshkin 96E
- SERP-E-174
  - COMB: Afanasyev 97, Afanasyev 94

SLAC
- SLAC-BC-072
  - HBC-40IN-HYB: Blackett 97, Condo 94
- SLAC-E-061
  - 20-GEV: Arneodo 92
- SLAC-E-080
  - SSF: Adeva 93B, Altarelli 93
- SLAC-E-087
  - SSF: Arneodo 92
- SLAC-E-130
  - COMB: Adeva 93B, Altarelli 93
- SLAC-E-135
  - LASS: Aston 94, Landsberg 94C
- SLAC-E-136
  - 8-GEV: Bosted 93
- SLAC-E-139
  - 8-GEV: Gomez 93, Arneodo 92
- SLAC-E-140
  - 8-GEV: Seligman 97, Seligman 97C, Tao 95, Dasu 94, Walker 94, Arneodo 92
- SLAC-E-142
  - DAS: Anthony 96, Roblin 95, Dunne 94, Mallot 94, Adeva 93B, Altarelli 93, Petratos 93
- SLAC-E-143
  - DAS: Abe 98B, Abe 98ZF, Adeva 98B, Abe 97ZL, Abe 96ZC, Abe 95F, Abe 95S, Abe 95ZL, Abe 95ZO, Breton 95
- SLAC-E-146
  - SPEC: Anthony 95
- SLAC-E-154
  - DAS: Adeva 98B, Abe 97ZF, Abe 97ZG, Abe 97ZL
  - SPEC: Petratos 98
- SLAC-E-155
  - DAS: Anthony 99
- SLAC-NE-18
  - SPEC: Arrington 96
  - SSF: Belz 95, Bulten 95, Oneill 95, Vandenbrandt 95, Makins 94
- SLAC-SP-032
  - MARK-III: Burnett 96

SLAC
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  - CNTR: Prinz 98, Jaros 95
  - LASS: Ishida 97
  - SPEC: Arneodo 92

SLAC-NPI
- SLAC-E-133
  - 8-GEV: Stuart 98
- SLAC-NE-11
  - 8-GEV: Stuart 98, Andivahis 94

SLAC-PEP
- SLAC-PEP-04-09
  - 2-GAMMA: Alemany 94, Bauer 94, Bauer 93B
  - TPC: Alemany 94, Bauer 94, Bauer 93B
- SLAC-PEP-05
  - MARK-II: Abreu 96Y, Danilov 94, Kaloshin 94
- SLAC-PEP-12
  - HRS: Weber 97, Dremin 94
- —
  - TPC: Degtyarenko 94, Elouadrhiri 94

SLAC-SLC
- SLAC-SLC-009
  - SLD: Abe 98H, Abe 98K, Abe 98L, Abe 97B, Abe 97E, Abe 97G, Abe 97U, Panvini 97, Quigley 97, Abe 96ZE, Abe 96ZF
- SLAC-SLC-SLD
  - SLD: Abe 99C, Abe 97J, Abe 97T, Weber 97, Abe 96O, Abe 96T, Abe 96U, Abe 96V, Abe 96W, Abe 96X, Abe 96Y, Abe 96Z, Abe 96ZB, Abe 96ZG, Etzion 96, Jackson 96, Ludovici 96, Su 96, Weber 96, Abe 95V, Abe 95Z, Abe 95ZD, Abe 95ZF, Abe 95ZG, Abe 95ZM, Abe 95ZN, Abe 95ZP, Abe 95ZQ, Abe 95ZR, Baird 95, Behnke 95, Charlesworth 95, Davier 95, Hasegawa 95B, Markiewicz 95, Schumm 95, Abe 94C, Abe 94U, Abe 94V, Abe 94W

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

SLAC-SLC
Abe 94ZB
Abe 94ZC
Abe 94ZI
Baird 94
Baranko 94
Fero 94
King 94
Manly 94
Martirena 94
Park 94
Yamartino 94

SLAC-SPEAR
SLAC-SP-030
CRYS-BALL — Danilov 94
SLAC-SP-032
MARK-III — Wiss 96, Montanet 95, Bertolotto 94, Danilov 94, Freyberger 94, Muheim 93B

SOURCE
ITEP-832
SPEC — Artemiev 94
TPC — Artemiev 94
TPC-2
CNTR — Bahran 95
UNDERGROUND-GALLEX
GALLEX — Hampel 98, Anselmann 95, Bahcall 95
UNDERGROUND-HOMESTAKE
SEMI — Aharonov 95, Aharonov 95B
UNDERGROUND-KAMIOKA-ELEGA
ELEGANTS-V — Kudomi 98, Ejiri 96, Kume 94
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CALO — Vangeert 98
CNTR — Barabash 98, Barabash 98B, Dassie 98, Arnold 96, Barabash 96, Arnold 95, Aunola 95, Burachas 95, Danevich 95, Lee 95, Sykora 95, Tsunoda 95, Wietfeldt 95, Arpesella 94, Dassie 94, Kobayashi 94
IONIZATION — Ashitkov 98
MANY — Tretyak 95
MICROSTRIP — Ashitkov 98
PERKEO — Abele 97H
PHOTON — Barabash 98B, Briancon 98, Tsinoev 98, Daszewski 95, Hindi 94, Vo 94, Vonbusch 94, Yasumi 94
SEMI — Briancon 98, Baudis 97, Derbin 96, Asai 95, Balysh 95, Barabash 95, Barabash 95B, Bowler 95, Skalsey 95, Vasiliev 95, Asai 94, Balysh 94, Bowler 94, Hindi 94, Piepke 94

SOURCE
SPEC — Yasumi 94, Briancon 98, Chiba 98, Artemiev 96, Schmid 96, Georgadze 95, Hiddemann 95, Maeno 95, Moriyama 95, Stoeffl 95, Barabash 94, Miyajima 94, Vonbusch 94, Severijns 93
THERMAL — Alessandrell 94
TPC — Balysh 96
TROITSK-NU-MASS — Belesev 95, Belesev 94
WIRE — Ashitkov 98, Barabash 98, Dassie 98, Luescher 98, Arnold 96, Barabash 96, Arnold 95, Arpesella 94, Dassie 94

TAMU-CYC
—
SPEC — Laforest 99, Xu 95

TOHO
—
CNTR — Yamaya 95
DRIFT — Yamaya 95
SPEC — Sakamoto 99, Hotta 98, Mori 95, Tadokoro 94
X-RAY — Sakamoto 99

TOKY
INS-ES-123
TAGX — Kagarlis 98, Lolos 98, Maruyama 96, Watts 96, Emura 94, Emura 94B
INS-ES-132
TAGX — Yamazaki 95, Maeda 94
—
SPEC — Sakamoto 99
X-RAY — Sakamoto 99

TRID
—
CNTR — Setze 96
PHOTON — Ma 97, Schmid 95
SEMI — Schmid 95
SPEC — Felsher 97, Wilburn 97, Keith 96, Schmid 96B

TRIUMF
TRIUMF-248
PHOTON — Bryman 96
SPEC — Britton 94
TRIUMF-369
CNTR — Zhao 98, Abegg 95, Abegg 95B, Davis 95, Abegg 94B, Zhao 94
IONIZATION — Zhao 98, Abegg 95, Abegg 95B, Davis 95, Abegg 94B, Zhao 94

TRIUMF
TRIUMF-394
CNTR — Brack 95
SCINT — Brack 95
TRIUMF-399
CNTR — Saunders 96
TRIUMF-452
DRIFT — Depommier 94, Hasinoff 94, Jonkmans 94
RMC — Wright 98
TRIUMF-460
CNTR — Hahn 99, Duncan 98
SPEC — Hahn 99, Duncan 98
TRIUMF-482
MRS — Miller 98
TRIUMF-497-287
IONIZATION — Berdoz 98
TRIUMF-502
SPEC — Kohler 94
TRIUMF-506
TOF — Yeomans 94
TRIUMF-508
CHAOS — Grafter 98, Tacik 98
TOF — Yeomans 95
TRIUMF-537
PHOTON — Stasko 94
TRIUMF-544
MRS — Ram 93
TRIUMF-557
MRS — Brash 95, Hausser 95
TRIUMF-560
CHAOS — Smith 98B
TRIUMF-561
CNTR — Lange 98
TRIUMF-592
PHOTON — Gorringe 98
TRIUMF-624
CHAOS — Kermani 98, Kermani 98B, Kermani 98C
TRIUMF-653
CHAOS — Bonutti 98, Bonutti 97, Camerini 93
TRIUMF-683
SPEC — Cummings 95
TRIUMF-703
SPEC — Numao 95
TRIUMF-719
CHAOS — Grater 98
—
CNTR — Moftah 97, Johnson 96, Jonkmans 96, Bachman 95
DAS — Lolos 96
DRIFT — Jonkmans 96
MRS — Long 98, Burzynski 94, Furutani 94
PHOTON — Moftah 97, Raywood 97, Johnson 96, Dress 94
SEMI — Moftah 97, Johnson 96
SPEC — Sedlar 99, Duncan 98, Feltham 97, Huber 97, Jonkmans 96, Papandreou 95B, Hahn 94
WIRE — Jonkmans 96

UMD-CYC
—
DAS — Mercer 97

UUPP-CYC
—
CNTR — Ericson 95

UUPP-CYC	
	Auce 94
NEUTRONSPEC	Rahm 98
	Eismont 96
PHOTON	Calen 98C
PLASTIC	Auce 96
SPEC	Johansson 98
VAN-DE-GRAAFF	
—	
CNTR	Wilburn 95
PHOTON	Mohr 98
SEMI	Mohr 98
SPEC	Hammache 97
	Deboer 96
	Keith 94
VECC	
—	
SSNTD	Mukherjee 95
WISC	
—	
SEMI	Browne 96
	Mcaninch 94
YERE-ARUS	
—	
COMB	Arakelyan 95
DEUTRON-2	Alanakyan 98
	Alanakyan 97
OSPK	Markaryan 95
PHOTON	Danagulyan 97B
	Alexandryan 94
SPEC	Vartapetyan 95

Entries in order of accelerator code, then experiment number, then detector code, as given in Accelerator and Detector Vocabularies. See the legend on page 399.

We list here all particle names used to describe decays and reactions. Most of the names are obvious. The first column gives the usual particle symbol, the second gives the English spelling, and the third gives a brief definition. The English spelling is the "computer name," the version to be typed in searching our computer databases.

Particle names follow the ordering in the Particle Vocabulary of this compilation: Gauge bosons, leptons, mesons, baryons, atoms, and nuclei; and within each group the ordering is mainly by increasing mass. Within mesons and baryons, however, we further categorize these particles as having only light quarks, or as having as the heaviest quark, a strange, charmed, bottom, or top quark.

In the indices, the order of the charge states is $^{++,+,0,-,--}$. For antiparticles, we use the actual charge of the antiparticle, as in $\overline{\Delta}^{--}$. Unless an antiparticle has a common name of its own, as in K^+, all antiparticles are spelled with the suffix "BAR" appended to the English portion of the names, as PBAR for $\overline{p}$, DELTABAR(1900S31)0 for $\overline{\Delta}(1900S_{31})^0$, and CHARMBAR for $\overline{\text{charm}}$.

We use the chemical symbols for nuclei except in a few cases where an ambiguity with a particle name exists. For example, we use KK for potassium to avoid confusion with the K meson, and Nit for nitrogen to avoid confusion with the neutron, nucleon or nickel.

The names we use in writing any reaction are based on those used by the authors of the paper. For example, one paper might refer to π^+, π^-, and π^0, while another just uses π to mean all three.

Some of the "particle names" represent a group of particles whose exact number is unknown or is varied in some limited range; for example MULT[PI+] means a limited number of π^+ particles or a multiplicity distribution on the number of π^+ particles. Names like these are treated as a single particle in the Reaction/Momentum Index, where the reaction final states are ordered by increasing multiplicity. We do give the exact number of particles when known, *e.g.*, "$3\pi^+$" or "2charm," and these forms are treated as the stated number of particles.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
		GAUGE AND HIGGS BOSONS
γ	GAMMA	Photon
γ^*	GAMMA*	Virtual γ, predominantely used for static fields
$W^\pm$	W+-	Positive or negative weak gauge boson
W^+	W+	Positive weak gauge boson
W^-	W-	Negative weak gauge boson
Z^0	Z	Neutral weak gauge boson
gluon	GLUON	Massless color-octet gauge vector bosons carrying strong forces
H^0	H0	Minimal standard model Higgs boson
axion	AXION	Hypothetic neutral pseudoscalar particle invented in the standard model for conservation of the CP-symmetry in quantum chromodynamics
graviton	GRAVITON	Particle carrying gravitational force
		HYPOTHETICAL GAUGE AND SCALAR NON-SUSY BOSONS
W_R	WR	Right-handed intermediate vector boson
W_R^+	WR+	Positive right intermediate vector boson
W_R^-	WR-	Negative right intermediate vector boson
$W'^\pm$	WPRIME+-	Additional charged W-boson
W'^+	WPRIME+	Additional positive W-boson
W'^-	WPRIME-	Additional negative W-boson
Z'	ZPRIME	Additional Z-boson
lepto-gluon	LEPTO-GLUON	Hipothetic particle
lepto-quark	LEPTO-QUARK	Hypothetic set of elementary particles of the Grand Unified Theories carrying interactions changing leptons to quarks and quarks to leptons
$\overline{\text{lepto-quark}}$	LEPTO-QUARKBAR	Hypothetic set of elementary antiparticles of the Grand Unified Theories carrying interactions changing leptons to quarks and quarks to leptons
goldstone	GOLDSTONE	Goldstone boson
majoron	MAJORON	Hypothetical neutral, spinless, light or massless, penetrating particle. Predicted in some models in which lepton charge conservation is spontaneously broken
familon	FAMILON	Massless axion-like Nambu-Goldstone boson
arion	ARION	Massless pseudo-goldstone boson
axigluon	AXIGLUON	Massive color-octet gauge bosons in chiral color models, have axial-vector coupling to quarks with the same coupling strength as gluons
baryoboson	BARYOBOSON	Hypothetical very light or massless particle coupled with baryon charge and responsible for intermediate range interactions
fifth-force	FIFTH-FORCE	General particle responsible for additional scalar long-range interaction
higgs^{++}	HIGGS++	Doubly positive charged Higgs boson
higgs^{--}	HIGGS--	Doubly negative charged Higgs boson
S^+	S+	Positive intermediate scalar boson
S^0	S0	Intermediate scalar boson
S^-	S-	Negative intermediate scalar boson
		LEPTONS
ℓ	LEPTON	Unspecified lepton
ν	NU	Unspecified neutrino or antineutrino
$\overline{\nu}$	NUBAR	Unspecified antineutrino
ν_e	NUE	Electron neutrino
$\overline{\nu}_e$	NUEBAR	Electron antineutrino
ν_μ	NUMU	Muon neutrino
$\overline{\nu}_\mu$	NUMUBAR	Muon antineutrino
ν_τ	NUTAU	τ neutrino
$\overline{\nu}_\tau$	NUTAUBAR	τ antineutrino
$\ell^\pm$	LEPTON+-	Unspecified charged lepton
ℓ^-	LEPTON-	Unspecified negative lepton
ℓ^+	LEPTON+	Unspecified positive lepton
$e^\pm$	E+-	Positron or electron
e^-	E-	Electron
e^+	E+	Positron
$\mu^\pm$	MU+-	μ^+ or μ^-lepton
μ^-	MU-	Ordinary μ^- lepton
μ^+	MU+	Ordinary μ^+ lepton
$\tau^\pm$	TAU+-	τ^+ or τ^-lepton
τ^-	TAU-	Ordinary τ^- lepton
τ^+	TAU+	Ordinary τ^+ lepton
		HYPOTHETICAL HEAVY LEPTONS
heavy-lepton	HEAVY-LEPTON	Unspecified heavy lepton
heavy-ν	HEAVY-NU	Unspecified heavy neutrino
heavy-$\overline{\nu}$	HEAVY-NUBAR	Unspecified heavy antineutrino
heavy-ν_e	HEAVY-NUE	Heavy electron neutrino
heavy-$\overline{\nu}_e$	HEAVY-NUEBAR	Heavy electron antineutrino
heavy-ν_μ	HEAVY-NUMU	Heavy muon neutrino
heavy-$\overline{\nu}_\mu$	HEAVY-NUMUBAR	Heavy muon antineutrino
heavy-ν_τ	HEAVY-NUTAU	Heavy τ neutrino

PARTICLE NAME	COMPUTER NAME	EXPLANATION
heavy-$\overline{\nu}_\tau$	HEAVY-NUTAUBAR	Heavy τ antineutrino
heavy-lepton^0	HEAVY-LEPTONO	Unspecified neutral heavy lepton
$\overline{\text{heavy-lepton}}^0$	HEAVY-LEPTONBARO	Unspecified neutral heavy antilepton
heavy-lepton$^\pm$	HEAVY-LEPTON+-	Unspecified charged heavy lepton
heavy-lepton$^-$	HEAVY-LEPTON-	Unspecified negative heavy lepton
heavy-lepton$^+$	HEAVY-LEPTON+	Unspecified positive heavy lepton
heavy-e	HEAVY-E	Unspecified heavy electron
heavy-e^0	HEAVY-EO	Neutral heavy electron
heavy-μ	HEAVY-MU	Unspecified heavy muon
heavy-μ^0	HEAVY-MUO	Neutral heavy muon
heavy-τ	HEAVY-TAU	Unspecified heavy τ lepton
	QUARKS AND DIQUARKS	
q	QUARK	Quark of unspecified charge
$\overline{q}$	QUARKBAR	Antiquark of unsprcified charge
u	UQ	Up quark
$\overline{u}$	UQBAR	Up antiquark
d	DQ	Down quark
$\overline{d}$	DQBAR	Down antiquark
s	SQ	Strange quark
$\overline{s}$	SQBAR	Strange antiquark
c	CQ	Charmed quark
$\overline{c}$	CQBAR	Charmed antiquark
b	BQ	Bottom quark
$\overline{b}$	BQBAR	Bottom antiquark
t	TQ	Top quark
$\overline{t}$	TQBAR	Top antiquark
diquark	DIQUARK	Diquark of unspecified charge and flavor
	HYPOTHETICAL QUARKS	
b'	BQPRIME	Bottom quark of fourth generation
$\overline{b}'$	BQPRIMEBAR	Bottom antiquark of fourth generation
	SUSY PARTICLES: FERMIONS	
s-particle	SPARTICLE	Supersymmetric partner of any ordinary particle
gaugino	GAUGINO	Spin-1/2 supersymmetric partner of any gauge boson
neutralino	NEUTRALINO	Any supersymmetric partner of an ordinary neutral particle
neutralino$_1$	NEUTRALINO-1	The lightest supersymmetric partner of the ordinary neutral particles which appeared in the supersymmetric extention of the SM
neutralino$_2$	NEUTRALINO-2	The second supersymmetric partner of the ordinary neutral particles which appeared in the supersymmetric extention of the SM
chargino	CHARGINO	Mixture of wino and charged higgsino
chargino$^+$	CHARGINO+	Mixture of wino and charged higgsino
chargino$^-$	CHARGINO-	Mixture of wino and charged higgsino
photino	PHOTINO	Spin-1/2 supersymmetric partner of the photon
$\overline{\text{photino}}$	PHOTINOBAR	Spin-0 supersymmetric partner of the antiphoton
wino	WINO	Spin-1/2 supersymmetric partner of the $W^\pm$
wino$^+$	WINO+	Spin-1/2 supersymmetric partner of the W^+
wino$^-$	WINO-	Spin-1/2 supersymmetric partner of the W^-
zino	ZINO	Spin-1/2 supersymmetric partner of the Z^0
gluino	GLUINO	Spin-1/2 supersymmetric partner of the gluon
axino	AXINO	Spin-1/2 supersymmetric partner of the axion
gravitino	GRAVITINO	Spin-3/2 supersymmetric partner of the graviton
$\overline{\text{gravitino}}$	GRAVITINOBAR	Antigravitino
higgsino	HIGGSINO	Spin-1/2 supersymmetric partner of any Higgs boson
higgsino(CP $= -1)^0$	HIGGSINO(CP=-1)0	Spin-1/2 supersymmetric partner of neutral CP-odd Higgs boson
higgsino$^+$	HIGGSINO+	Spin-1/2 supersymmetric partner of the positive Higgs boson
higgsino^0	HIGGSINOO	Spin-1/2 supersymmetric partner of any neutral CP-even Higgs boson
higgsino$^-$	HIGGSINO-	Spin-1/2 supersymmetric partner of the negative Higgs boson
goldstino	GOLDSTINO	Supersymmetric partner of the Goldstone boson
$\overline{\text{goldstino}}$	GOLDSTINOBAR	Spin-0 supersymmetric partner of the antigoldstino
	SUSY PARTICLES: BOSONS	
H_1^0	H(1)0	Minimal supersymmetric model CP–even Higgs boson (lightest)
A^0	AO	Minimal supersymmetric model CP–odd Higgs boson
H_2^0	H(2)0	Minimal supersymmetric model CP–even Higgs boson (heaviest)
$H^\pm$	H+-	Minimal supersymmetric charged Higgs boson
H^+	H+	Minimal supersymmetric positive Higgs boson
H^-	H-	Minimal supersymmetric model negative Higgs boson
$\tilde{\ell}$	SLEPTON	Spin-0 supersymmetric lepton partner
$\tilde{\ell}^-$	SLEPTON-	Negative spin-0 supersymmetric lepton partner
$\tilde{\ell}^+$	SLEPTON+	Positive spin-0 supersymmetric lepton partner

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$\tilde{\ell}^0$	SLEPTONO	Neutral spin-0 supersymmetric lepton partner
$\tilde{\nu}$	SNU	Spin-0 supersymmetric partner of the neutrino
$\bar{\tilde{\nu}}$	SNUBAR	Spin-0 supersymmetric partner of the antineutrino
$\tilde{\nu}_e$	SNUE	Spin-0 supersymmetric partner of the ν_e
$\bar{\tilde{\nu}}_e$	SNUEBAR	Spin-0 supersymmetric partner of the $\bar{\nu}_e$
$\tilde{\nu}_\mu$	SNUMU	Spin-0 supersymmetric partner of the ν_μ
$\bar{\tilde{\nu}}_\mu$	SNUMUBAR	Spin-0 supersymmetric partner of the $\bar{\nu}_\mu$
$\tilde{\nu}_\tau$	SNUTAU	Spin-0 supersymmetric partner of the ν_τ
$\bar{\tilde{\nu}}_\tau$	SNUTAUBAR	Spin-0 supersymmetric partner of the $\bar{\nu}_\tau$
$\tilde{e}$	SELECTRON	Spin-0 supersymmetric partner of the positron or electron
$\tilde{e}^-$	SELECTRON-	Spin-0 supersymmetric partner of the electron
$\tilde{e}^+$	SELECTRON+	Spin-0 supersymmetric partner of the positron
$\tilde{\mu}$	SMUON	Spin-0 supersymmetric partner of muon
$\tilde{\mu}^-$	SMUON-	Spin-0 supersymmetric partner of μ^-
$\tilde{\mu}^+$	SMUON+	Spin-0 supersymmetric partner of μ^+
$\tilde{\tau}$	STAU	Spin-0 supersymmetric partner of τ lepton
$\tilde{\tau}^-$	STAU-	Spin-0 supersymmetric partner of τ^- lepton
$\tilde{\tau}^+$	STAU+	Spin-0 supersymmetric partner of τ^+ lepton
$\tilde{q}$	SQUARK	Spin-0 supersymmetric quark partner
$\bar{\tilde{q}}$	SQUARKBAR	Spin-0 supersymmetric antiquark partner
$\tilde{u}$	S-UQ	Spin-0 supersymmetric partner of the up quark
$\tilde{d}$	S-DQ	Spin-0 supersymmetric partner of the down quark
$\tilde{s}$	S-SQ	Spin-0 supersymmetric partner of the strange quark
$\tilde{c}$	S-CQ	Spin-0 supersymmetric partner of the charm quark
$\tilde{b}$	S-BQ	Spin-0 supersymmetric partner of the bottom quark
$\bar{\tilde{b}}$	S-BQBAR	Spin-0 supersymmetric partner of the bottom antiquark
$\tilde{t}$	S-TQ	Spin-0 supersymmetric partner of the top quark
$\bar{\tilde{t}}$	S-TQBAR	Spin-0 supersymmetric partner of the top antiquark
$\tilde{t}_1$	S-TQ1	Lightest mass eigenstate of the mixed spin-0 supersymmetric partners of the left and right top quarks
$\bar{\tilde{t}}_1$	S-TQ1BAR	Lightest mass eigenstate of the mixed spin-0 supersymmetric partners of the left and right top quarks
$\tilde{t}_2$	S-TQ2	Heaviest mass eigenstate of the mixed spin-0 supersymmetric partners of the left and right top quarks
$\bar{\tilde{t}}_2$	S-TQ2BAR	Heaviest mass eigenstate of the mixed spin-0 supersymmetric partners of the left and right top quarks
gluinium	GLUINIUM	Bound state of gluinos
	COMPOSITE LEPTONS AND QUARKS	
ℓ^*	LEPTON*	Unspecified exited lepton
ν^*	NU*	Excited generic neutrino
$\bar{\nu}^*$	NU*BAR	Excited generic anti-neutrino
ν_e^*	NUE*	Composite electron neutrino
$\bar{\nu}_e^*$	NUE*BAR	Composite electron anti-neutrino
$e^{*\pm}$	E*+-	Excited positron or electron
e^{*-}	E*-	Excited electron
e^{*+}	E*+	Excited positron
ν_μ^*	NUMU*	Composite muon neutrino
$\bar{\nu}_\mu^*$	NUMU*BAR	Composite muon anti-neutrino
$\mu^{*\pm}$	MU*+-	Excited charged muon
μ^{*-}	MU*-	Excited μ^-
μ^{*+}	MU*+	Excited μ^+
ν_τ^*	NUTAU*	Composite tau neutrino
$\bar{\nu}_\tau^*$	NUTAU*BAR	Composite tau anti-neutrino
τ^*	TAU*	Excited τ of unspecified charge
τ^{*-}	TAU*-	Excited τ^-
τ^{*+}	TAU*+	Excited τ^+
q^*	QUARK*	Excited quark
$\bar{q}^*$	QUARK*BAR	Excited antiquark
	MISCELLANEOUS HYPOTHETICAL PARTICLES	
cosmion	COSMION	Weakly interacting massive particle (WIMP), have been proposed to solve simultaneously the problem of dark matter, and deflict of B8 neutrinos from the Sun
dark	DARK	A generic name for the dark matter in the galactic halo. May be a weakly interacting particle (neutrino, axion, stable particle, etc.) or strongly interacting particles (quark nuggets)
millicharged	MILLICHARGED	Hypothetic particle with electric charge less than 10^{-3} e
monopole	MONOPOLE	Magnetic monopole
technipion	TECHNIPION	Technicolor pion
technipion$^+$	TECHNIPION+	Positive technicolor pion
technipion$^-$	TECHNIPION-	Negative technicolor pion
technirho	TECHNIRHO	Technicolor ρ
techniomega	TECHNIOMEGA	Technicolor omega

PARTICLE NAME	COMPUTER NAME	EXPLANATION
color	COLOR	Unspecified particle carrying color
lepton-colored	LEPTON-COLOR	Unspecified lepton carrying color
$\overline{\text{lepton-colored}}$	LEPTON-COLORBAR	Unspecified lepton carrying color
e-color$^{\pm}$	E-COLOR+-	Colored electron of unspecified charge
ℓ^{++}	LEPTON++	Doubly charged lepton
wquark	WQUARK	Hypothetic fractionally charged particle interacting only weakly
$\overline{\text{wquark}}$	WQUARKBAR	Weak antiquark
tachyon	TACHYON	Hypothetic faster-than-light particle of unspecified charge
tachyon$^+$	TACHYON+	Hypothetic faster-than-light positively charged particle
tachyon$^-$	TACHYON-	Hypothetic faster-than-light negatively charged particle
e-nonpauli	NONPAULI(E-)	Electron-like particle but not fermionic, used to encode experiments on search for Pauli principle violation in exotic atoms
p-nonpauli	NONPAULI(P)	Proton-like particle but not fermionic, used to encode experiments on search for Pauli principle violation in exotic nuclei
	GENERIC PARTICLE NAMES	
unspec	UNSPEC	Particle of unspecified type
neutral	NEUTRAL	Unspecified neutral particle
invisible	INVISIBLE	One or more neutral weakly interacting particles not visible in the current detecting system
higgs	HIGGS	Generic name for Higgs bosons
charged	CHARGED	Unspecified charged particle
charged^{++}	CHARGED++	Unspecified doubly charged positive particle
charged$^+$	CHARGED+	Positive particle of unspecified type
charged$^-$	CHARGED-	Negative particle of unspecified type
charged^{--}	CHARGED--	Unspecified doubly charged negative particle
multicharged	MULTICHARGED	Stable particle with electric charge greater than 1
even-charged	EVEN-CHARGED	An even number of charged particles
odd-charged	ODD-CHARGED	An odd number of charged particles
parton	PARTON	Hypothetic particle
jet	JET	Jet detected as a whole
jet$^+$	JET+	Jet with positive net charge
jet$^-$	JET-	Jet with negative net charge
hadron	HADRON	Unspecified hadron
hadron^0	HADRON0	Unspecified neutral hadron
charged-hadron	CHARGED-HADRON	Unspecified charged hadron
hadron$^+$	HADRON+	Unspecified positive hadron
hadron$^-$	HADRON-	Unspecified negative hadron
charged-meson	CHARGED-MESON	Unspecified charged meson
vmeson	VMESON	Neutral vector meson of unspecified mass
heavy	HEAVY	Unspecified stable particle with mass greater than proton's mass
heavy-flavor	HEAVY-FLAVOR	Any unspecified particle carrying a flavor heavier than strange
longlived	LONGLIVED	Unspecified particle stable under strong and electromagnetic decay
longlived$^+$	LONGLIVED+	Unspecified positive-charge particle stable under strong and electromagnetic decay
longlived^0	LONGLIVED0	Unspecified neutral-charge particle stable under strong and electromagnetic decay
longlived$^-$	LONGLIVED-	Unspecified negative-charge particle stable under strong and electromagnetic decay
narrow	NARROW	Unspecified narrow resonance
vee	VEE	Unspecified neutral strange particle decay
kink$^+$	KINK+	Positive kinking track observed in track detector
kink$^-$	KINK-	Negative kinking track observed in track detector
star	STAR	High charged multiplicity final state
shower	SHOWER	Shower track
shower$^+$	SHOWER+	Positive shower track
shower$^-$	SHOWER-	Negative shower track
grey	GREY	Emulsion track reported as grey (mostly protons in the range 30–400 MeV/c)
htrack	HTRACK	Heavy tracks (black or grey) in emulsion
black	BLACK	Heavily ionizing track in emulsions
	HADRONS: LIGHT QUARK MESONS	
meson	MESON	Unspecified meson
π	PI	Pion of unspecified charge
$\pi^{\pm}$	PI+-	π^+ or π^- meson
η	ETA	$\eta(549)$ meson
$f_0(400-1200)$	F0(400-1200)	Was σ. Broad $\pi\pi$ S-wave enhansement needed in PWA
meson(600)	MESON(600)	Neutral meson
$f_0(700)$	F0(700)	Was $\epsilon(700)$. $\pi\pi$ S-wave (near 700 MeV)
ρ	RHO(770)	
$\rho^{\pm}$	RHO(770)+-	
ω	OMEGA(783)	
η'	ETAPRIME(958)	$\eta'(958)$ meson
$M(940)$	M(940)	Nonstrange, $I = 0$ meson resonance
$M(953)$	M(953)	Nonstrange, $I = 0$ meson resonance
$f_0(980)$	F0(980)	$I = 1$, S-wave $K\overline{K}$ enhancement

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$a_0(980)$	A0(980)	
$h(990)$	H(990)	
$M(1033)$	M(1033)	Nonstrange, $I = 0$ meson resonance
$\eta(1080)$	ETA(1080)	
$M(1150)$	M(1150)	Nonstrange, $I = 0$ meson resonance
$\omega\pi(1160)$	OMEGAPI(1160)	Reported meson state decaying to $\omega\pi$
$h_1(1170)$	H1(1170)	
$b_1(1235)$	B1(1235)	"Buddha" meson
$f_0(1240)$	F0(1240)	Was $g_s(1240)$
$A_{1.5}(1170)^+$	A1.5(1170)+	
$a_1(1260)$	A1(1260)	
$a_1(1260)^\pm$	A1(1260)+-	
$f_2(1270)$	F2(1270)	
$f_1(1285)$	F1(1285)	Was $D(1285)$
$\eta(1295)$	ETA(1295)	
$\pi(1300)$	PI(1300)	
$a_0(1320)$	A0(1320)	Intensity peaking in mass of $\eta\pi$ system at a_2 meson mass and with comparable width
$a_2(1320)$	A2(1320)	
$a_2(1320)^\pm$	A2(1320)+-	
$f_0(1370)$	F0(1370)	Was $\epsilon(1300)$. $\pi\pi$ S-wave (near 1300 MeV)
$h_1(1380)$	H1(1380)	Seen in partial-wave analysis of the $K\ \overline{K}\ \pi$ system. Needs confirmation
$\hat{\rho}(1405)$	RHOHAT(1405)	Seen in the P-wave intensity of the $\eta\pi^0$ system
$f_1(1420)$	F1(1420)	Was $E(1420)$
$\omega(1420)$	OMEGA(1420)	Meson resonance
$f_2(1430)$	F2(1430)	
$\eta(1440)$	ETA(1440)	Was $\iota(1440)$ – glueball candidate
$X_1(1440)^+$	X1(1440)+	
$a_0(1450)$	A0(1450)	
$\rho(1450)$	RHO(1450)	
$\eta(1490)$	ETA(1490)	
$f_0(1500)$	F0(1500)	
$f_2'(1525)$	F2PRIME(1525)	
$f_2(1565)$	F2(1565)	
$\omega(1600)$	OMEGA(1600)	Meson resonance
$f_2(1640)$	F2(1640)	
$\eta_2(1645)$	ETA2(1645)	
$X(1650)$	X(1650)	Seen in the $\eta'\pi^0$ system
$\omega_3(1670)$	OMEGA3(1670)	
$\pi_2(1670)$	PI2(1670)	Was $A(1680)$
$\rho_3(1690)$	RHO3(1690)	
$X(1690)^0$	X(1690)0	
$\rho(1700)$	RHO(1700)	
$f_J(1710)$	F/J(1710)	Was $\theta(1690)$ – glueball candidate
$X(1750)^-$	X(1750)-	Meson decaying into 3π
$f_0(1750)$	F0(1750)	Was $S(1730)$
$\eta(1760)$	ETA(1760)	
$X(1775)$	X(1775)	Seen by CONDO 91 in 3 pion system produced in charge exchange photoproduction
$a_5(1790)^+$	A5(1790)+	
$\pi(1800)$	PI(1800)	Triplet of hadronic resonance with quantum numbers $I^G(J^P) = 1^-(0^-)$
$f_2(1810)$	F2(1810)	
$X(1814)$	X(1814)	Seen in coherent production of $\pi^-\eta\eta$ system on a carbon nucleus
$\eta_2(1870)$	ETA2(1870)	
$X(1910)$	X(1910)	
$f_2(1920)$	F2(1920)	
$X(1935)$	X(1935)	Was $S(1935)$
$f_2(1950)$	F2(1950)	
$f_2(2010)$	F2(2010)	Glueball candidate
$f_0(2020)$	F0(2020)	
$a_4(2040)$	A4(2040)	Was $\delta(2040)$
$f_4(2050)$	F4(2050)	Was $h(2030)$. $I = 0$, $J^P = 4^+$ meson resonance
$f_0(2060)$	F0(2060)	
$\eta(2100)$	ETA(2100)	
$\pi_2(2100)$	PI2(2100)	
$\rho(2110)$	RHO(2110)	Seen in the $(\omega\pi^0)$ and (ω 3 pion) systems
$f_2(2150)$	F2(2150)	Was $\epsilon(2150)$
$\rho(2150)$	RHO(2150)	
$f_2(2175)$	F2(2175)	
$f_0(2200)$	F0(2200)	
$f_J(2220)$	F/J(2220)	Was $\xi(2220)$. Meson seen in $J/\psi(1S)$ decays
$\eta(2225)$	ETA(2225)	
$\rho_3(2250)$	RHO3(2250)	Seen in $\bar{p}p$ formation experiments
$f_2(2300)$	F2(2300)	Was $g_T(2320)$
$f_4(2300)$	F4(2300)	Was $\epsilon(2300)$
$f_2(2340)$	F2(2340)	

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$\rho_5(2350)$	RHO5(2350)	
$a_6(2450)$	A6(2450)	Was $\delta(2450)$
$f_6(2510)$	F6(2510)	Was $R(2510)$
meson(2950)	MESON(2950)	Bump seen in $p\overline{p}\pi$
$X(3250)$	X(3250)	
	HADRONS: OTHER UNFLAVOURED MESONS	
$(e^+e^-(1100-2200))$	E+E-(1100-2200)	Vector meson
$X(1900-3600)$	X(1900-3600)	Any meson bump seen in production experiments in that mass region
	HADRONS: MESONS WITH HEAVIEST QUARK STRANGE	
strange	STRANGE	Unspecified strange particle
strange^0	STRANGE0	Represents a Λ or Σ^0 or low-mass neutral Y^*
kaon	KAON	Kaon or antikaon of unspecified charge
K	K	K meson
$K^\pm$	K+-	Ordinary K^+ or K^- meson
K_S	KS	$K_{\rm short}$, neutral K meson
K_L	KL	$K_{\rm long}$, neutral K meson
$K^*(892)$	K*(892)	
$K^*(892)^\pm$	K*(892)+-	
$K_1(1270)$	K1(1270)	Was $Q(1280)$
$K_1(1400)$	K1(1400)	Was $Q(1400)$
$K^*(1410)$	K*(1410)	
$K_0^*(1430)$	K0*(1430)	Was $\kappa(1350)$
$K_2^*(1430)$	K2*(1430)	
$K(1460)$	K(1460)	$J^P = 0^-$ state seen in PWA decaying predominantly into ϵK
$K_2(1580)$	K2(1580)	Seen in PWA of the $K2\pi$ system. Was $L(1580)$
$K_1(1650)$	K1(1650)	Various peaks in $K\phi$ and $K2\pi$ reported in PWA
$K^*(1680)$	K*(1680)	
$K_2(1770)$	K2(1770)	
$K_3^*(1780)$	K3*(1780)	
$K_2(1820)$	K2(1820)	
$K(1830)$	K(1830)	Seen in PWA of $K\phi$ system
$K_0^*(1950)$	K0*(1950)	
$K_2^*(1980)$	K2*(1980)	Seen in PWA of $K2\pi$ system
$K_4^*(2045)$	K4*(2045)	
$K_2(2250)$	K2(2250)	$\Lambda\overline{p}$ or $\overline{\Lambda}p$ state with quantum numbers of kaon
$K_3(2320)$	K3(2320)	
$K_5^*(2380)$	K5*(2380)	
$K_4(2500)$	K4(2500)	
$I(2600)$	I(2600)	Strange meson
$K(3100)$	K(3100)	Exotic meson possibly seen in $\Lambda\overline{p}$ plus pions
K^*(unspec)	K*(UNSPEC)	Unspecified K^*
strangeonium	STRANGEONIUM	Unspecified meson whose quark content is dominantly $s\overline{s}$, such as the $\phi(1020)$
$\phi(1020)$	PHI(1020)	
$\phi(1680)$	PHI(1680)	
$\phi_3(1850)$	PHI3(1850)	Bump in K^+K^- mass
$K\overline{K}(2200)^0$	KKBAR(2200)0	Reported spin 5 boson resonance
$\phi_5(2400)$	PHI5(2400)	
	HADRONS: MESONS WITH HEAVIEST QUARK CHARMED	
charm	CHARM	Unspecified charmed particle
charm$^\pm$	CHARM+-	Unspecified charged charmed particle
charmed-meson	CHARMED-MESON	Unspecified charmed meson
D_c	DC	D or $\overline{D}$ charmed meson
$D^\pm$	D+-	$D(1869)^+$ or $D(1869)^-$ charmed nonstrange meson
D	D	D^+ or D^0 charmed meson
D(unspec)	D(UNSPEC)	Unspecified charmed nonstrange meson
D^*	D*	Excited charmed nonstrange meson
D^* (unspec)	D*(UNSPEC)	
$D_s^\pm$	D/S+-	Was F. D_s^+ or D_s^- charmed strange meson
D_s^*	D/S*	Was $F^*(2140)$. Excited charmed strange meson
$D_1(2420)$	D1(2420)	
$D_J(2440)$	D/J(2440)	Excited charmed nonstrange meson
$D_2^*(2460)$	D2*(2460)	
$D_J^*(2470)$	D/J*(2470)	Excited charmed nonstrange meson seen in $D^0\pi^+$
$D_{s1}(2536)^\pm$	D/S1(2536)+-	Meson resonance. $C = S = \pm 1$. Seen in $D^*(2010)^+K^0$.
$D_s^*(2547)^+$	D/S*(2547)+	
$D_{sJ}(2564)^+$	D/S/J(2564)+	
$D_{sJ}(2573)$	D/S/J(2573)	Charmed, strange meson of unspecified charge
$D^*(2600)^+$	D*(2600)+	
$D_s^*(2790)$	D/S*(2790)	

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
D_s(unspec)	D/S(UNSPEC)	Unspecified charmed strange meson
charmonium	CHARMONIUM	Unspecified charm-anticharm state
$X(2830)$	X(2830)	$J^P = 0^-$ charmonium state
$\chi(2850)$	CHI(2850)	
$\eta_c(1S)$	ETA/C(1S)	Charmonium meson
$\psi(3040)$	PSI(3040)	
$J/\psi(1S)$	J/PSI(1S)	
$\chi(3180)$	CHI(3180)	
$\chi(3300-3500)$	CHI(3300-3500)	Generic name for charmonium χ states in the 3300-3500 MeV mass region
$\chi_{c0}(1P)$	CHI/C0(1P)	Particle observed in $e^+e^- \to \mu^+\mu^-2\gamma$
$\chi_c(3455)$	CHI/C(3455)	Radiative decay product of $\psi(2S)$
$\chi_{c1}(1P)$	CHI/C1(1P)	Observed in $e^+e^-2\gamma$ final state
$h_c(1P)$	H/C(1P)	$^1P_1(c\bar{c})$ bound state
$\chi_{c2}(1P)$	CHI/C2(1P)	Charmonium meson
$\eta_c(2S)$	ETA/C(2S)	Charmonium meson
$\psi(2S)$	PSI(2S)	
$\psi(3770)$	PSI(3770)	
$\psi(4040)$	PSI(4040)	
$\psi(4160)$	PSI(4160)	
$\psi(4415)$	PSI(4415)	
χ_c(unspec)	CHI/C(UNSPEC)	Unspecified radiative decay product of any ψ meson
ψ(unspec)	PSI(UNSPEC)	Unspecified ψ meson
	HADRONS: MESONS WITH HEAVIEST QUARK BEAUTY	
bottom	BOTTOM	Unspecified particle with naked bottom
bottom$^\pm$	BOTTOM+-	Generic name for charged particle with naked beauty
B	B	B^+ or B^0 bottom meson
$B^\pm$	B+-	Charged open beauty meson
B(unspec)	B(UNSPEC)	Meson of unspecified mass with antibeauty quark
B^*	B*	Excited bottom meson
$B^*_J(5732)$	B/J*(5732)	Orbitally excited positive or neutral (isodublet) bottom meson
B^*(unspec)	B*(UNSPEC)	Vector beauty meson
B_s	B/S	Beauty-antistrange meson
B^*_s	B/S*	Beauty-antistrange excited meson
$B^*_{sJ}(5850)$	B/S/J*(5850)	
B_c^+	B/C+	Antibeauty-charmed meson
B_c^-	B/C-	Beauty-charmed meson
bottomonium	BOTTOMONIUM	Unspecified bottom-antibottom state
$\zeta(8300)$	ZETA(8300)	
η_b	ETA/B(1S)	Lowest mass $J^P = 0^- b\bar{b}$ state
$\Upsilon(1S)$	UPSI(1S)	
$h_b(1P)$	H/B(1P)	Lowest mass $J^P = 1^+ b\bar{b}$ state
$\chi_{b0}(1P)$	CHI/B0(1P)	Bottomonium meson
$\chi_{b1}(1P)$	CHI/B1(1P)	Bottomonium meson
$\chi_{b2}(1P)$	CHI/B2(1P)	Bottomonium meson
$\Upsilon(1D)$	UPSI(1D)	$J^P = 1^- b\bar{b}$ state
$\Upsilon(2S)$	UPSI(2S)	
$\chi_{b0}(2P)$	CHI/B0(2P)	Bottomonium meson
$\chi_{b1}(2P)$	CHI/B1(2P)	Bottomonium meson
$\chi_{b2}(2P)$	CHI/B2(2P)	Bottomonium meson
$\Upsilon(3S)$	UPSI(3S)	
$\Upsilon(4S)$	UPSI(4S)	
$\Upsilon(10860)$	UPSI(10860)	
$\Upsilon(11020)$	UPSI(11020)	
χ_b(unspec)	CHI/B(UNSPEC)	Bottomonium meson
Υ(unspec)	UPSI(UNSPEC)	Unspecified Υ particle
	HADRONS: MESONS WITH HEAVIEST QUARK TOP	
top	TOP	Unspecified particle with naked top
toponium	TOPONIUM	Unspecified top-antitop state
	HADRONS: EXOTIC MESONS AND MESON-LIKE OBJECTS	
exotic	EXOTIC	Unspecified particle which cannot be fit into $q\bar{q}$ or qqq model
exotic-meson	EXOTIC-MESON	Manifestly exotic meson that cannot be formed of quark-antiquark
glueball	GLUEBALL	Unspecified glueball
pomeron	POMERON	
$C(1480)$	C(1480)	Meson decaying into $\phi\pi$
$X(1600)$	X(1600)	Exotic $I^G(J^{PC}) = 2^+(2^{++})$ meson resonance
meson^{--}	MESON--	Charged -2 meson of unspecified mass
baryonium	BARYONIUM	Unspecified nucleon-antinucleon particle
baryonium($S = -1$)	BARYONIUM(S=-1)	Strange mesons that couple predominately to baryon-antibaryon

PARTICLE NAME	COMPUTER NAME	EXPLANATION
baryonium($S = +1$)	BARYONIUM(S=+1)	Strange mesons that couple predominately to baryon-antibaryon
R-meson	R-MESON	Generic exotic meson containing gluino or squarks
	HADRONS: LIGHT QUARK BARYONS	
baryon	BARYON	Unspecified baryon
$p^{\pm}$	P+-	Proton or antiproton
nucleon	NUCLEON	Unspecified nucleon
p	P	Proton
n	N	Neutron
p(spect)	P(SPECT)	Spectator proton
n(spect)	N(SPECT)	Spectator neutron
$N(1440\, P_{11})$	N(1440P11)	
$N(1520\, D_{13})$	N(1520D13)	
$N(1535\, S_{11})$	N(1535S11)	
$N(1540\, P_{13})$	N(1540P13)	
$N(1650\, S_{11})$	N(1650S11)	
$N(1675\, D_{15})$	N(1675D15)	
$N(1680\, F_{15})$	N(1680F15)	
$N(1700\, D_{13})$	N(1700D13)	
$N(1700\, B)$	N(1700B)	Bump in production experiment
$N(1710\, P_{11})$	N(1710P11)	
$N(1720\, P_{13})$	N(1720P13)	
$N(1890\, B)$	N(1890B)	Enhancement seen in $\pi p \to \eta' n$ cross section
$N(1900\, P_{13})$	N(1900P13)	
$N(1990\, F_{17})$	N(1990F17)	
$N(2000\, F_{15})$	N(2000F15)	
$N(2080\, D_{13})$	N(2080D13)	
$N(2090\, S_{11})$	N(2090S11)	
$N(2100\, P_{11})$	N(2100P11)	
$N(2190\, G_{17})$	N(2190G17)	
$N(2200\, D_{15})$	N(2200D15)	
$N(2220\, H_{19})$	N(2220H19)	
$N(2250\, G_{19})$	N(2250G19)	
$N(2600\, I_{1,11})$	N(2600I111)	
$N(2700\, K'_{1,13})$	N(2700K113)	
N(*unspec*)	N(UNSPEC)	Unspecified $I = 1/2$, $S = 0$ baryon
$\Delta(1232\, P_{33})$	DELTA(1232P33)	
$\Delta(1550\, P_{31})$	DELTA(1550P31)	
$\Delta(1600\, P_{33})$	DELTA(1600P33)	
$\Delta(1620\, S_{31})$	DELTA(1620S31)	
$\Delta(1700\, D_{33})$	DELTA(1700D33)	
$\Delta(1750\, P_{31})$	DELTA(1750P31)	
$\Delta(1900\, S_{31})$	DELTA(1900S31)	
$\Delta(1905\, F_{35})$	DELTA(1905F35)	
$\Delta(1910\, P_{31})$	DELTA(1910P31)	
$\Delta(1920\, P_{33})$	DELTA(1920P33)	
$\Delta(1930\, D_{35})$	DELTA(1930D35)	
$\Delta(1940\, D_{33})$	DELTA(1940D33)	
$\Delta(1950\, F_{37})$	DELTA(1950F37)	
$\Delta(2000\, P_{33})$	DELTA(2000P33)	
$\Delta(2000\, F_{35})$	DELTA(2000F35)	
$\Delta(2150\, S_{31})$	DELTA(2150S31)	
$\Delta(2200\, G_{37})$	DELTA(2200G37)	
$\Delta(2300\, H_{39})$	DELTA(2300H39)	
$\Delta(2350\, D_{35})$	DELTA(2350D35)	
$\Delta(2390\, F_{37})$	DELTA(2390F37)	
$\Delta(2400\, G_{39})$	DELTA(2400G39)	
$\Delta(2420\, H_{3,11})$	DELTA(2420H311)	
$\Delta(2750\, I_{3,13})$	DELTA(2750I313)	
$\Delta(2950\, K'_{3,15})$	DELTA(2950K315)	
$\Delta(3230\, B)$	DELTA(3230B)	
Δ(unspec)	DELTA(UNSPEC)	Unspecified $I = 3/2$, $S = 0$ baryon
N^*(unspec)	N*(UNSPEC)	$S = 0$ baryon with unspecified mass and isospin
	HADRONS: BARYONS WITH HEAVIEST QUARK STRANGE	
hyperon	HYPERON	Unspecified hyperon
Λ	LAMBDA	Ordinary Λ hyperon
$\Lambda(1330\, B)$	LAMBDA(1330B)	Bump in production experiment
$\Lambda(1405\, S_{01})$	LAMBDA(1405S01)	
$\Lambda(1520\, D_{03})$	LAMBDA(1520D03)	
$\Lambda(1600\, P_{01})$	LAMBDA(1600P01)	
$\Lambda(1670\, S_{01})$	LAMBDA(1670S01)	
$\Lambda(1690\, D_{03})$	LAMBDA(1690D03)	
$\Lambda(1690\, B)$	LAMBDA(1690B)	
$\Lambda(1800\, S_{01})$	LAMBDA(1800S01)	
$\Lambda(1800\, G_{09})$	LAMBDA(1800G09)	
$\Lambda(1800\, B)$	LAMBDA(1800B)	
$\Lambda(1810\, P_{01})$	LAMBDA(1810P01)	

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$\Lambda(1820\,F_{05})$	LAMBDA(1820F05)	
$\Lambda(1830\,D_{05})$	LAMBDA(1830D05)	
$\Lambda(1890\,P_{03})$	LAMBDA(1890P03)	
$\Lambda(2000)$	LAMBDA(2000)	
$\Lambda(2020\,F_{07})$	LAMBDA(2020F07)	
$\Lambda(2100\,G_{07})$	LAMBDA(2100G07)	
$\Lambda(2100\,B)$	LAMBDA(2100B)	Bump in production experiment
$\Lambda(2110\,F_{05})$	LAMBDA(2110F05)	
$\Lambda(2325\,D_{03})$	LAMBDA(2325D03)	
$\Lambda(2350\,H_{09})$	LAMBDA(2350H09)	
$\Lambda(2350\,B)$	LAMBDA(2350B)	Bump in production experiment
$\Lambda(2585\,B)$	LAMBDA(2585B)	Bump in production experiment
Λ(unspec)	LAMBDA(UNSPEC)	Unspecified $I = 0$, $S = -1$ baryon
Σ	SIGMA	Ordinary Σ hyperon
$\Sigma^{\pm}$	SIGMA+-	
$\Sigma(1385\,P_{13})$	SIGMA(1385P13)	
$\Sigma(1385\,P_{13})^{\pm}$	SIGMA(1385P13)+-	
$\Sigma(1480\,B)$	SIGMA(1480B)	Bump in production experiment
$\Sigma(1560\,B)$	SIGMA(1560B)	
$\Sigma(1580\,D_{13})$	SIGMA(1580D13)	
$\Sigma(1620\,S_{11})$	SIGMA(1620S11)	
$\Sigma(1620\,B)$	SIGMA(1620B)	
$\Sigma(1650\,P_{11})$	SIGMA(1650P11)	
$\Sigma(1660\,P_{11})$	SIGMA(1660P11)	
$\Sigma(1670\,D_{13})$	SIGMA(1670D13)	
$\Sigma(1690\,B)$	SIGMA(1690B)	Bump in production experiment
$\Sigma(1750\,S_{11})$	SIGMA(1750S11)	
$\Sigma(1770\,B)$	SIGMA(1770B)	
$\Sigma(1770\,P_{11})$	SIGMA(1770P11)	
$\Sigma(1775\,D_{15})$	SIGMA(1775D15)	
$\Sigma(1840\,P_{13})$	SIGMA(1840P13)	
$\Sigma(1880\,P_{11})$	SIGMA(1880P11)	
$\Sigma(1900\,S_{11})$	SIGMA(1900S11)	
$\Sigma(1915\,F_{15})$	SIGMA(1915F15)	
$\Sigma(1915\,B)$	SIGMA(1915B)	
$\Sigma(1920\,P_{13})$	SIGMA(1920P13)	
$\Sigma(1940\,D_{13})$	SIGMA(1940D13)	
$\Sigma(2000\,S_{11})$	SIGMA(2000S11)	
$\Sigma(2030\,F_{17})$	SIGMA(2030F17)	
$\Sigma(2030\,B)$	SIGMA(2030B)	
$\Sigma(2070\,F_{15})$	SIGMA(2070F15)	Seen in DPWA
$\Sigma(2080\,P_{13})$	SIGMA(2080P13)	Suggested by some but not all PWA
$\Sigma(2100\,G_{17})$	SIGMA(2100G17)	Seen in DPWA
$\Sigma(2140\,P_{13})$	SIGMA(2140P13)	
$\Sigma(2250\,B)$	SIGMA(2250B)	Bump in production experiment
$\Sigma(2455\,B)$	SIGMA(2455B)	
$\Sigma(2620\,B)$	SIGMA(2620B)	
$\Sigma(3000\,B)$	SIGMA(3000B)	
$\Sigma(3170\,B)$	SIGMA(3170B)	Seen in production experiment
Σ(unspec)	SIGMA(UNSPEC)	Unspecified $I = 1$, $S = -1$ baryon
Y^*(unspec)	Y*(UNSPEC)	$S = -1$ baryon with unspecified mass and isospin
Ξ	XI	Ordinary Ξ hyperon
$\Xi(1530\,P_{13})$	XI(1530P13)	
$\Xi(1620)$	XI(1620)	Seen in $\Xi\pi$ channel
$\Xi(1690)$	XI(1690)	
$\Xi(1760)$	XI(1760)	
$\Xi(1820\,D_{13})$	XI(1820D13)	
$\Xi(1950)$	XI(1950)	
$\Xi(2030)$	XI(2030)	
$\Xi(2120)$	XI(2120)	Seen in production experiment
$\Xi(2250)$	XI(2250)	Seen in production experiment
$\Xi(2370)$	XI(2370)	
$\Xi(2500)$	XI(2500)	Seen in production experiment
$\Xi(2600)$	XI(2600)	Not confirmed
Ξ(unspec)	XI(UNSPEC)	Unspecified $I = 1/2$, $S = -2$ baryon
$\Omega^{\pm}$	OMEGA+-	
Ω^-	OMEGA-	Ordinary Ω^- hyperon
$\Omega(2250)^{\mp}$	OMEGA(2250)+-	
$\Omega(2250)^-$	OMEGA(2250)-	
$\Omega(2380)^{\mp}$	OMEGA(2380)+-	
Ω^*(unspec)$^-$	OMEGA*(UNSPEC)-	$S = -3$ baryon with unspecified mass and isospin

HADRONS: BARYONS WITH HEAVIEST QUARK CHARMED

Λ_c	LAMBDA/C	$\Lambda_c(2281)^+$ or $\overline{\Lambda}_c(2281)^-$
$\Lambda_c(2593)^{\pm}$	LAMBDA/C(2593)+-	$\Lambda_c(2593)^+$ charmed baryon or $\overline{\Lambda}_c(2593)^-$ charmed antibaryon, $I = 0$
$\Lambda_c(2593)^+$	LAMBDA/C(2593)+	$\Lambda_c(2593)^+$ $I = 0$ charmed baryon
$\Lambda_c(2625)$	LAMBDA/C(2625)	

PARTICLE NAME	COMPUTER NAME	EXPLANATION
Λ_c^{*+}	LAMBDA/C*+	Exited Λ_c^+ charmed baryon
$\Sigma_c(2455)$	SIGMA/C(2455)	$I = 1$ charmed baryon triplet
$\Sigma_c(2520)$	SIGMA/C(2520)	Charmed baryon with I=1
$\Sigma_c(2520)$	SIGMA/CBAR(2520)	Charmed baryon with I=1
Ξ_c	XI/C	
$\Xi_c(2645)$	XI/C(2645)	Baryon with quark content *usc*
Ξ_c^*(unspec)	XI/C*(UNSPEC)	Unspecified excited charmed strange baryon (*qsc*)
Ω_c	OMEGA/C	$I = 0$ charmed doubly strange baryon
Ω_{ccc}^{++}	OMEGA/CCC++	Baryon with quark content *ccc*
	HADRONS: BARYONS WITH HEAVIEST QUARK BEAUTY	
Λ_b	LAMBDA/B	$\Lambda_b(5500)^0$ $I = 0$ bottom baryon
Λ_b(unspec)	LAMBDA/B(UNSPEC)	Unspecified $I = 0$ bottom baryon
Σ_b	SIGMA/B	Ground state $I = 1$ bottom baryon (*qqb*)
Ξ_b	XI/B	Ground state $I = 1/2$ strange bottom baryon (*qsb*)
Ω_b^-	OMEGA/B-	
Ω_{cb}^0	OMEGA/CB0	
Ω_{bb}^-	OMEGA/BB-	
	HADRONS: EXOTIC BARYONS	
exotic-nucleon	EXOTIC-NUCLEON	Cannot be formed of *qqq*
$N_{5/2}^*(1380)^{+++}$	N*5/2(1380)+++	Exotic baryon
$N_{5/2}^*(1390)^{+++}$	N*5/2(1390)+++	Exotic $I = 5/2$ nonstrange baryon
$N_{5/2}^*(1480)^{+++}$	N*5/2(1480)+++	Exotic $I = 5/2$ nonstrange baryon
$N_{5/2}^*(1650)$	N*5/2(1650)	$I = 5/2$, $Y = 1$ baryon of unspecified charge
$N_{5/2}^*(1760)^{+++}$	N*5/2(1760)+++	Exotic baryon
$N_{5/2}^*(1760)^+$	N*5/2(1760)+	Exotic baryon
$N(2000\ B)^+$	EXOTIC-N(2000B)+	Bump in production experiment, candidate for cryptoexotic pentaquark baryons with hidden strangeness
$N(2050\ B)^+$	EXOTIC-N(2050B)+	Bump in production experiment, candidate for cryptoexotic pentaquark baryons with hidden strangeness
$N_{5/2}^*(2070)^{+++}$	N*5/2(2070)+++	Exotic baryon
$N_{5/2}^*$(unspec)	N*5/2(UNSPEC)	Unspecified $I = 5/2$, $S = 0$ baryon
$N(2170\ B)^+$	EXOTIC-N(2170B)+	Bump in production experiment, candidate for cryptoexotic pentaquark baryons with hidden strangeness
$N(3520\ B)^+$	EXOTIC-N(3520B)+	Bump in production experiment, candidate for cryptoexotic pentaquark baryons with hidden strangeness
$N\phi(1950)^+$	NPHI(1950)+	Reported baryon with $s\bar{s}$ and 3 other quarks
$N\phi(1950)^0$	NPHI(1950)0	Reported baryon with $s\bar{s}$ and 3 other quarks
$Z_0(1780\ P_{01})$	Z0(1780P01)	
$Z_0(1865\ D_{03})$	Z0(1865D03)	
Z_0(unspec)	Z0(UNSPEC)	Exotic $I = 0$, $S = +1$ baryon of unspecified mass
$Z_1(1900\ P_{13})$	Z1(1900P13)	
$Z_1(2150)$	Z1(2150)	
$Z_1(2500)$	Z1(2500)	
Z_1(unspec)	Z1(UNSPEC)	Exotic $I = 1$, $S = +1$ baryon of unspecified mass
Z^*(unspec)	Z*(UNSPEC)	Exotic $I =$ unspecified, $S = +1$ baryon of unspecified mass
Y_2^*(unspec)	Y*2(UNSPEC)	Unspecified $I = 2$, $S = -1$ baryon
Ξ^*(unspec)	XI*(UNSPEC)	$I =$ unspecified, $S = -2$ baryon of unspecified mass
$\Xi_{3/2}^*$(unspec)	XI*3/2(UNSPEC)	Unspecified $I = 3/2$, $S = -2$ baryon
R-baryon	R-BARYON	Generic exotic baryon containing one gluino in addition to the usual quarks (*3q gluino*)
R-proton	R-PROTON	Exotic hadron containing one gluino in addition to the usual quarks (*u u d gluino*)
R-Δ^{++}	R-DEL++	Exotic hadron containing one gluino in addition to the usual quarks (*u u u gluino*)
R-Λ	R-LAMBDA	Exotic hadron containing one gluino in addition to the usual quarks (*u u s gluino*)
R-Ξ^-	R-XI-	Exotic hadron containing one gluino in addition to the usual quarks (*s s d gluino*)
	EXOTIC MATTER	
anomalon	ANOMALON	Anomalous nuclear fragment
fireball	FIREBALL	
centauro	CENTAURO	Final state with 50 or more charged particles and no π^0's
mini-centauro	MINI-CENTAURO	New type of final state with 20 or less charged particles, no π^0's
chiron	CHIRON	
geminion	GEMINION	Hypothetical particle

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
strangelet	STRANGELET	Proposed new form of strange hadronic matter. Quark nuggets.
	ELECTROMAGNETIC COMPOSITES	
positronium	POSITRONIUM	
muonium	MUEATOM	μ^+e^- atom
$(\pi\mu)_{atom}$	PIMUATOM	$\pi\,\mu$ coulomb bound state
mupatom	MUPATOM	μ^-p atom
$(\mu^-{}^3He)_{atom}$	MUHE3ATOM	$(\mu^-{}^3He)$ coulomb bound state
$(\pi\pi)_{atom}$	PIPIATOM	$\pi\,\pi$ coulomb bound state
taonium	TAONIUM	$\tau^+\tau^-$ coulomb bound state
$(\pi p)_{atom}$	PIPATOM	(π^-p) coulomb bound state
$(\pi^-\text{deuteron})_{atom}$	PIDEUTATOM	Pion-deuterium coulombic atom
$(K^-p)_{atom}$	KAONPATOM	(K^-p) coulomb bound state
$(\bar{p}p)_{atom}$	PBARPATOM	Antiproton proton coulombic atom
$(\bar{p}\,\text{deuteron})_{atom}$	PBARDEUTATOM	Antiproton deuterium coulombic atom
$(\bar{p}\,He)_{atom}$	PBARHEATOM	Antiproton helium coulombic atom
atom	ATOM	Unspecified conventional atom
H(atom)	ATOM(P)	Hydrogen atom
^{2}H(atom)	ATOM(DEUT)	Deuteron atom
C(atom)	ATOM(C)	Carbon atom
^{19}Fl(atom)	ATOM(FL19)	Fluorine-19 atom – note name is not same as chemical symbol
Nit(atom)	ATOM(NIT)	Nitrogen atom
Ne(atom)	ATOM(NE)	Neon atom
Al(atom)	ATOM(AL)	Aluminum atom
Ar(atom)	ATOM(AR)	Argon atom
Ca(atom)	ATOM(CA)	
^{50}Ti(atom)	ATOM(TI50)	
^{50}Cr(atom)	ATOM(CR50)	
^{55}Mn(atom)	ATOM(MN55)	Manganese-55 atom
Fe(atom)	ATOM(FE)	Iron atom
^{58}Ni(atom)	ATOM(NI58)	
Cu(atom)	ATOM(CU)	Copper atom
^{64}Zn(atom)	ATOM(ZN64)	
^{67}Ga(atom)	ATOM(GA67)	Gallium-67 atom
^{71}Ge(atom)	ATOM(GE71)	
^{92}Zr(atom)	ATOM(ZR92)	
^{92}Mo(atom)	ATOM(MO92)	
^{106}Pd(atom)	ATOM(PD106)	
Ag(atom)	ATOM(AG)	Silver atom
^{106}Cd(atom)	ATOM(CD106)	
Sn(atom)	ATOM(SN)	Tin atom
^{124}Te(atom)	ATOM(TE124)	Tellur-124 atom
^{124}Xe(atom)	ATOM(XE124)	Atom of xenon-124 radioactive isotope
^{125}I(atom)	ATOM(I125)	Iodine-125 atom
Cs(atom)	ATOM(CS)	Cesium atom
^{163}Dy(atom)	ATOM(DY163)	
^{163}Ho(atom)	ATOM(HO163)	
^{180}Wt(atom)	ATOM(WT180)	
Pt(atom)	ATOM(PT)	Platinum atom
Au(atom)	ATOM(AU)	Gold atom
Hg(atom)	ATOM(HG)	Mercury atom
Tl(atom)	ATOM(TL)	
Pb(atom)	ATOM(PB)	
Bi(atom)	ATOM(BI)	Bismuth atom
ion	ION	Unspecified ion of an atom
^{76}Ge(ion $^+$)	ION(GE76)+	Ion of germanium-76 atom
^{163}Ho(ion 66^+)	ION(HO163)66+	66-charged holmium-163 ion
^{238}U(ion 90^+)	ION(U238)90+	90-charged uranium-238 ion
	NUCLEI, MULTIBARYONS, HYPER- AND SUPERNUCLEI	
nucleus	NUCLEUS	Unspecified nucleus
frag	FRAG	Nuclear fragment
fragb	FRAGB	Fragment of beam
fragt	FRAGT	Fragment of target
hypernucleus	HYPERNUCLEUS	Unspecified hypernucleus, generally containing more than two baryons
charmed-nucleus	CHARMED-NUCLEUS	Unspecified charmed nucleus
deuteron	DEUT	Deuteron
$\text{deut}^*(2170)^0$	DEUT*(2170)0	
$\text{deut}^{**}(2500)^+$	DEUT**(2500)+	Low-mass $d\pi\pi$ bump
demon	DEMON	Exotic 6-quark deuteron-like state

PARTICLE NAME	COMPUTER NAME	EXPLANATION
dibaryon	DIBARYON	Dibaryon resonance
dineutron	DINEUTRON	Dineutron resonance
$NN(2170\,^1D_2)$	NN(2170/1D2)	
$NN(2250\,^3F_3)$	NN(2250/3F3)	
$NN(2900\,^1H_6)$	NN(2900/1H6)	Dibaryon resonance
dibaryon($S=-1$)	DIBARYON(S=-1)	Unspecified $S=-1$ dibaryon resonance
$\Lambda N(2130\,^3S_1)$	LAMBDAN(2130/3S1)	
$\Lambda N(2130\,^3S_1)^+$	LAMBDAN(2130/3S1)+	$S=-1$ dibaryon resonance
hypernucleus($S=-2$)	HYPERNUCLEUS(S=-2)	Unspecified hypernucleus with strangeness = -2
dibaryon($S=-2$)	DIBARYON(S=-2)	Unspecified $S=-2$ dibaryon resonance
dibaryon($S=-2$)*	DIBARYON*(S=-2)	Unspecified $S=-2$ excited dibaryon resonance
$(\Xi N)^+$	XIN+	Dibaryon with $S=-2$
^{3}H	TRITIUM	Tritium nucleus
^3H_s	H3/S	Hypernucleus with Λ instead of neutron
trineutron	TRINEUTRON	Reported 3-neutron bound state
tribaryon	TRIBARYON	Reported 3-baryon state
^{4}H	H4	Hydrogen-4 nucleus
tetraneutron	TETRANEUTRON	Hypothetic 4-neutron bound state
^4H_s	H4/S	Hypernucleus with Λ instead of neutron
$^4H_{ss}$	H4/SS	Hydrogen-4 hypernucleus with strangeness=-2
^{5}H	H5	Hydrogen-5 nucleus
^{6}H	H6	Hydrogen-6 nucleus
^{7}H	H7	Hydrogen-7 nucleus
He	HE	Helium nucleus
^4He_s	HE4/S	Helium hypernucleus with strangeness = -1
^{5}He	HE5	Helium-5 nucleus
^5He_s	HE5/S	Helium-5 hypernucleus with strangeness=-1
$^5He_{ss}$	HE5/SS	Helium-5 hypernucleus with strangeness=-2
$^6He_{ss}$	HE6/SS	Helium-6 hypernucleus with strangeness=-2
^9He_s	HE9/S	Helium neutron-rich hypernucleus with strangeness $S=-1$
Li	LI	Lithium nucleus
^7Li_s	LI7/S	Hypernucleus with Λ instead of neutron
^8Li_s	LI8/S	
^9Li_s	LI9/S	Hypernucleus with Λ instead of neutron
^7Be_s	BE7/S	Beryllium-7 strange nucleus
Be	BE	Beryllium nucleus
^9Be_s	BE9/S	Beryllium-9 hypernucleus with strangeness=-1
$^{10}Be_{ss}$	BE10/SS	Beryllium-10 hypernucleus with strangeness=-2
$^{11}Be_{ss}$	BE11/SS	Beryllium-11 hypernucleus with strangeness=-2
$^{12}Be_s$	BE12/S	Beryllium-9 neutron-rich hypernucleus with strangeness $S=-1$
$^{12}Be_{ss}$	BE12/SS	Beryllium-12 hypernucleus with strangeness=-2
Bor	BOR	Boron nucleus – note name is not same as chemical symbol
Bor_s	BOR/S	Boron hypernucleus
$^{10}Bor_s$	BOR10/S	Boron-10 hypernucleus with strangeness = -1
$^{11}Bor_s$	BOR11/S	Boron-11 hypernucleus
$^{12}Bor_s$	BOR12/S	Boron-12 hypernucleus with strangeness = -1
$^{13}Bor_{ss}$	BOR13/SS	Boron-13 hypernucleus with strangeness = -2
C	C	Carbon nucleus
$^{12}C_s$	C12/S	Carbon-12 hypernucleus
C_s	C/S	Carbon hypernucleus with strangeness=-1
$^{12}C_s^*$	C12/S*	Excited hypernucleus C12(lambda)
C^*(4.44 keV)	C*(4.44)	4.44 keV excited carbon nucleus
$^{13}C_s$	C13/S	Carbon-13 hypernucleus
$^{13}C_s^*$	C13/S*	Excited Carbon-13 hypernucleus
$^{16}C_s$	C16/S	Neutron-rich hypernucleus C16(Λ)
Nit	NIT	Nitrogen nucleus – note name is not same as chemical symbol
O	O	Oxygen nucleus
O_s	O/S	Oxygen hypernucleus
$^{16}O_s$	O16/S	Oxygen-16 hypernucleus
Fl	FL	Fluorine nucleus – note name is not same as chemical symbol
Ne	NE	Neon nucleus
Na	NA	Sodium nucleus
Mg	MG	Magnesium nucleus
Al	AL	Aluminum nucleus
Si	SI	Silicon nucleus
$^{28}Si_s$	SI28/S	Silicon-28 hypernucleus
Ph	PH	Phosphorus nucleus – note name is not same as chemical symbol
S	S	Sulfur nucleus
S_s	S/S	Sulfur hypernucleus
Cl	CL	Chlorine nucleus
Ar	AR	Argon nucleus
KK	KK	Potassium nucleus – note name is not same as chemical symbol
Ca	CA	Calcium nucleus
Ca_s	CA/S	Calcium hypernucleus
$^{40}Ca_s$	CA40/S	Calcium-40 hypernucleus
Sc	SC	Scandium nucleus
Ti	TI	Titanium nucleus
Va	VA	Vanadium nucleus – note name is not same as chemical symbol

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$^{51}Va_s$	VA51/S	Vanadium-51 hypernucleus
Cr	CR	Chromium nucleus
Mn	MN	Manganese nucleus
$^{56}Fe_s$	FE56/S	Iron-56 nucleus hypernucleus with strangeness=−1
Fe	FE	Iron nucleus
Fe_s	FE/S	Iron hypernucleus
Co	CO	Cobalt nucleus
Ni	NI	Nickel nucleus
Cu	CU	Copper nucleus
Zn	ZN	Zinc nucleus
Ga	GA	Gallium nucleus
Ge	GE	Germanium nucleus
As	AS	Arsenic nucleus
Se	SE	Selenium nucleus
Br	BR	Bromine nucleus
Kr	KR	Krypton nucleus
Rb	RB	Rubidium nucleus
Sr	SR	Strontium nucleus
Yt	YT	Yttrium nucleus – note name is not same as chemical symbol
$^{89}Yt_s$	YT89/S	Yttrium-89 hypernucleus – note name is not same as chemical symbol
Zr	ZR	Zirconium nucleus
Nb	NB	Niobium nucleus
Mo	MO	Molybdenum nucleus
Tc	TC	Technetium nucleus
Ru	RU	Ruthenium nucleus
Rh	RH	Rhodium nucleus
Pd	PD	Palladium nucleus
Ag	AG	Silver nucleus
Cd	CD	Cadmium nucleus
In	IN	Indium nucleus
Sn	SN	Tin nucleus
Sb	SB	Antimony nucleus
Te	TE	Tellurium nucleus
I	I	Iodine nucleus
Xe	XE	Xenon nucleus
Cs	CS	Cesium nucleus
Ba	BA	Barium nucleus
$^{139}La_s$	LA139/S	Lanthanum-139 hypernucleus with strangeness = −1
La	LA	Lanthanum nucleus
Ce	CE	Cerium nucleus
Pr	PR	Praseodymium nucleus
Nd	ND	Neodymium nucleus
Pm	PM	Promethium nucleus
Sm	SM	Samarium nucleus
Eu	EU	Europium nucleus
Gd	GD	Gadolinium nucleus
Tb	TB	Terbium nucleus
Dy	DY	Dysprosium nucleus
Ho	HO	Holmium nucleus
Er	ER	Erbium nucleus
Tm	TM	Thulium nucleus
Yb	YB	Ytterbium nucleus
Lu	LU	Lutetium nucleus
Hf	HF	Hafnium nucleus
Ta	TA	Tantalum nucleus
Wt	WT	Tungsten nucleus – note name is not same as chemical symbol
Re	RE	Rhenium nucleus
Os	OS	Osmium nucleus
Ir	IR	Iridium nucleus
Pt	PT	Platinum nucleus
Au	AU	Gold nucleus
Hg	HG	Mercury nucleus
Tl	TL	Thallium nucleus
Pb	PB	Lead nucleus
$^{208}Pb_s$	PB208/S	Lead-208 hypernucleus with strangeness = −1
Bi	BI	Bismuth nucleus
Bi_s	BI/S	Bismuth hypernucleus
Po	PO	Polonium nucleus
At	AST	Astatine nucleus – note name is not same as chemical symbol
Rn	RN	Radon nucleus
Fr	FR	Francium nucleus
Ra	RA	Radium nucleus
Ac	AC	
Th	TH	Thorium nucleus
Pa	PA	Protactinium nucleus
U	U	Uranium nucleus
Np	NP	Neptunium nucleus
Pu	PU	Plutonium nucleus
Cm	CM	Curium nucleus
^{252}Cf	CF252	Californium-252 nucleus

PARTICLE NAME	COMPUTER NAME	EXPLANATION
supernucleus	SUPERNUCLEUS	Super heavy nucleus
	GLOBAL ATTRIBUTES OF INCLUSIVE REACTIONS	
X	X	For use in inclusive reactions. Also for total cross-section data, as in $K^-p \to$ X
inelastic	INELASTIC	Same as X, (ANYTHING), except elastic excluded
annihil	ANNIHIL	Pure annihilation final state in nucleon-antinucleon scattering
	ATTRIBUTES OF SEMIINCLUSIVE REACTIONS	
(neutrals)	(NEUTRALS)	Zero or more neutral particles
(chargeds)	(CHARGEDS)	Zero or more charged particles plus possible neutrals
(charged$^+$s)	(CHARGED+S)	Zero or more positive charged particles plus possible neutrals
(charged$^-$s)	(CHARGED-S)	Zero or more negative charged particles plus possible neutrals
(vees)	(VEES)	Zero or more unspecified neutral strange particle decays
(γ's)	(GAMMAS)	Zero or more γ's
(gluons)	(GLUONS)	
(leptons)	(LEPTONS)	Zero or more unspecified leptons
(ν's)	(NUS)	Zero or more unspecified neutrinos
($e^\pm$'s)	(E+-S)	Zero or more electrons or positrons
(e^-'s)	(E-S)	Zero or more electrons
(e^+'s)	(E+S)	Zero or more positrons
($\mu^\pm$'s)	(MU+-S)	Zero or more muons
(jets)	(JETS)	Zero or more jets
(hadrons)	(HADRONS)	Zero or more hadrons
(hadron^0's)	(HADRONOS)	Zero or more hadrons
(charged-hadrons)	(CHARGED-HADRONS)	Zero or more charged hadrons
(mesons)	(MESONS)	Zero or more mesons
(charged-mesons)	(CHARGED-MESONS)	Zero or more charged mesons
(π's)	(PIONS)	Zero or more pions
($\pi^\pm$'s)	(PI+-S)	Zero or more $\pi^\pm$'s
(π^+'s)	(PI+S)	Zero or more π^+'s
(π^0's)	(PIOS)	Zero or more π^0's
(π^-'s)	(PI-S)	Zero or more π^-'s
(η's)	(ETAS)	
(ρ^+'s)	(RHO+S)	Zero or more ρ^+'s
(ρ^0's)	(RHOOS)	Zero or more ρ^0's
(ρ^-'s)	(RHO-S)	Zero or more ρ^-'s
(stranges)	(STRANGES)	Zero or more unspecified strange particles
(kaons)	(KAONS)	Zero or more unspecified kaons
($K^\pm$'s)	(K+-S)	Zero or more $K^\pm$'s
(K_S)	(KS)	Zero or more $K_{\rm short}$
(K_L)	(KL)	Zero or more $K_{\rm long}$
(K_S's)	(KSS)	Zero or more K_S's
(D(unspec)'s)	(D(UNSPEC)S)	Zero or more unspecified charmed nonstrange mesons
(nucleons)	(NUCLEONS)	Zero or more unspecified nucleons
(p's)	(PROTONS)	Zero or more protons
(n's)	(NS)	Zero or more neutrons
(Λ's)	(LAMBDAS)	Zero or more Λ's
(He's)	(HES)	Zero or more He nuclei
(frags)	(FRAGS)	Zero or more nuclear fragments
(fragbs)	(FRAGBS)	Zero or more beam fragments
(fragts)	(FRAGTS)	Zero or more target fragments
(showers)	(SHOWERS)	
(greys)	(GREYS)	Zero or more grey tracks, usually in emulsions
(htracks)	(HTRACKS)	Zero or more heavy tracks, usually in emulsions
(blacks)	(BLACKS)	Zero or more black tracks, usually in emulsions
	ATTRIBUTES OF TOPOLOGICAL REACTIONS	
mult[charged]	MULT(CHARGED)	Multiplicity distribution for unspecified charged particle
mult[charged^{++}]	MULT(CHARGED++)	Multiplicity distribution for unspecified double charged positive particle
mult[charged$^+$]	MULT(CHARGED+)	Multiplicity distribution for unspecified positive particle
mult[charged$^-$]	MULT(CHARGED-)	Multiplicity distribution for unspecified negative particle
mult[neutral]	MULT(NEUTRAL)	Multiplicity distribution for unspecified neutral particle
mult[vee]	MULT(VEE)	Multiplicity distribution for strange visible neutral vee (not γ conversions)
mult[γ]	MULT(GAMMA)	Multiplicity distribution for γ
mult[lepton]	MULT(LEPTON)	Multiplicity distribution for unspecified lepton
mult[ν]	MULT(NU)	Multiplicity distribution for unspecified ν
mult[$e^\pm$]	MULT(E+-)	Multiplicity distribution for positron or electron
mult[e^-]	MULT(E-)	Multiplicity distribution for electron
mult[e^+]	MULT(E+)	Multiplicity distribution for positron
mult[μ^-]	MULT(MU-)	Multiplicity distribution for μ^-

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
mult[μ^+]	MULT(MU+)	Multiplicity distribution for μ^+
mult[μ]	MULT(MUON)	Multiplicity distribution for muon of unspecified charge
mult[jet]	MULT(JET)	Multiplicity distribution for jet
mult[hadron]	MULT(HADRON)	Multiplicity distribution for unspecified hadron
mult[charged-hadron]	MULT(CHARGED-HADRON)	Multiplicity distribution for unspecified charged hadron
mult[hadron$^+$]	MULT(HADRON+)	Multiplicity distribution for unspecified positive hadron
mult[hadron^0]	MULT(HADRON0)	Multiplicity distribution for unspecified neutral hadron
mult[hadron$^-$]	MULT(HADRON-)	Multiplicity distribution for unspecified negative hadron
mult[meson]	MULT(MESON)	Multiplicity distribution for unspecified meson
mult[charged-meson]	MULT(CHARGED-MESON)	Multiplicity distribution for unspecified charged meson
mult[π]	MULT(PION)	Multiplicity distribution for pion of unspecified charge
mult[$\pi^\pm$]	MULT(PI+-)	Multiplicity distribution for π^+ or π^-
mult[π^+]	MULT(PI+)	Multiplicity distribution for π^+
mult[π^0]	MULT(PI0)	Multiplicity distribution for π^0
mult[π^-]	MULT(PI-)	Multiplicity distribution for π^-
mult[η]	MULT(ETA)	Multiplicity distribution for $\eta(549)$
mult[ρ]	MULT(RHO)	Multiplicity distribution for $\rho(770)$
mult[ρ^+]	MULT(RHO+)	Multiplicity distribution for $\rho(770)^+$
mult[ρ^0]	MULT(RHO0)	Multiplicity distribution for $\rho(770)^0$
mult[ρ^-]	MULT(RHO-)	Multiplicity distribution for $\rho(770)^-$
mult[ω]	MULT(OMEGA)	Multiplicity distribution for $\omega(783)$
mult[$\omega(783)$]	MULT(OMEGA(783))	Multiplicity distribution for mult[$\omega(783)$]
mult[$f_2(1270)$]	MULT(F2(1270))	Multiplicity distribution for $f_2(1270)$
mult[$\rho_3(1690)^0$]	MULT(RHO3(1690)0)	Multiplicity distribution for $\rho_3(1690)^0$
mult[strange]	MULT(STRANGE)	Multiplicity distribution for unspecified strange particle
mult[kaon]	MULT(KAON)	Multiplicity distribution for kaon of unspecified charge
mult[$K^\pm$]	MULT(K+-)	Multiplicity distribution for K^+ or K^-
mult[K^+]	MULT(K+)	Multiplicity distribution for K^+
mult[K^0]	MULT(K0)	Multiplicity distribution for K^0
mult[K_L]	MULT(KL)	Multiplicity distribution for K_L
mult[K_S]	MULT(KS)	Multiplicity distribution for K_S
mult[$\overline{K}^0$]	MULT(KBAR0)	Multiplicity distribution for $\overline{K}^0$
mult[K^-]	MULT(K-)	Multiplicity distribution for K^-
mult[$K^*(892)^+$]	MULT(K*(892)+)	Multiplicity distribution for $K^*(892)^+$
mult[$K^*(892)^0$]	MULT(K*(892)0)	Multiplicity distribution for $K^*(892)^0$
mult[$\overline{K}^*(892)^0$]	MULT(K*BAR(892)0)	Multiplicity distribution for $\overline{K}^*(892)^0$
mult[$K^*(892)^-$]	MULT(K*(892)-)	Multiplicity distribution for $K^*(892)^-$
mult[$K_2^*(1430)^+$]	MULT(K2*(1430)+)	Multiplicity distribution for $K_2^*(1430)^+$
mult[$K_2^*(1430)^0$]	MULT(K2*(1430)0)	Multiplicity distribution for $K_2^*(1430)^0$
mult[$\overline{K}_2^*(1430)^0$]	MULT(K2*BAR(1430)0)	Multiplicity distribution for $\overline{K}_2^*(1430)^0$
mult[$K_2^*(1430)^-$]	MULT(K2*(1430)-)	Multiplicity distribution for $K_2^*(1430)^-$
mult[ϕ]	MULT(PHI)	Multiplicity distribution for $\phi(1020)$
mult[$D^\pm$]	MULT(D+-)	Multiplicity distribution for D^+ or D^-
mult[D(unspec)]	MULT(D(UNSPEC))	Multiplicity distribution for unspecified charmed nonstrange meson
mult[$p^\pm$]	MULT(P+-)	Multiplicity distribution for proton or antiproton
mult[nucleon]	MULT(NUCLEON)	Multiplicity distribution for unspecified nucleon
mult[p]	MULT(P)	Multiplicity distribution for proton
mult[n]	MULT(N)	Multiplicity distribution for neutron
mult[$\overline{n}$]	MULT(NBAR)	Multiplicity distribution for antineutron
mult[$\overline{p}$]	MULT(PBAR)	Multiplicity distribution for antiproton
mult[Δ^{++}]	MULT(DELTA++)	Multiplicity distribution for $\Delta(1232\ P_{33})^{++}$
mult[Δ^+]	MULT(DELTA+)	Multiplicity distribution for $\Delta(1232\ P_{33})^+$
mult[Δ^0]	MULT(DELTA0)	Multiplicity distribution for $\Delta(1232\ P_{33})^0$
mult[Δ^-]	MULT(DELTA-)	Multiplicity distribution for $\Delta(1232\ P_{33})^-$
mult[$\overline{\Delta}^+$]	MULT(DELTABAR+)	Multiplicity distribution for $\overline{\Delta}(1232\ P_{33})^+$
mult[$\overline{\Delta}^0$]	MULT(DELTABAR0)	Multiplicity distribution for $\overline{\Delta}(1232\ P_{33})^0$
mult[$\overline{\Delta}^-$]	MULT(DELTABAR-)	Multiplicity distribution for $\overline{\Delta}(1232\ P_{33})^-$
mult[$\overline{\Delta}^{--}$]	MULT(DELTABAR--)	Multiplicity distribution for $\overline{\Delta}(1232\ P_{33})^{--}$
mult[Λ]	MULT(LAMBDA)	Multiplicity distribution for Λ
mult[$\overline{\Lambda}$]	MULT(LAMBDABAR)	Multiplicity distribution for $\overline{\Lambda}$
mult[Σ^+]	MULT(SIGMA+)	Multiplicity distribution for Σ^+
mult[Σ^0]	MULT(SIGMA0)	Multiplicity distribution for Σ^0
mult[Σ^-]	MULT(SIGMA-)	Multiplicity distribution for Σ^-
mult[$\overline{\Sigma}^+$]	MULT(SIGMABAR+)	Multiplicity distribution for $\overline{\Sigma}^+$
mult[$\overline{\Sigma}^0$]	MULT(SIGMABAR0)	Multiplicity distribution for $\overline{\Sigma}^0$
mult[$\overline{\Sigma}^-$]	MULT(SIGMABAR-)	Multiplicity distribution for $\overline{\Sigma}^-$
mult[$\Sigma(1385)^+$]	MULT(SIGMA(1385)+)	Multiplicity distribution for $\Sigma(1385\ P_{13})^+$
mult[$\Sigma(1385)^-$]	MULT(SIGMA(1385)-)	Multiplicity distribution for $\Sigma(1385\ P_{13})^-$

PARTICLE NAME	COMPUTER NAME	EXPLANATION
mult[Ξ^-]	MULT(XI-)	Multiplicity distribution for Ξ^-
mult[$\overline{\Xi}^+$]	MULT(XIBAR+)	Multiplicity distribution for $\overline{\Xi}^+$
mult[deuteron]	MULT(DEUTERON)	Multiplicity distribution for deuteron
mult[trit]	MULT(TRIT)	Multiplicity distribution for triton
mult[He]	MULT(HE)	Multiplicity distribution for helium nucleus
mult[^{4}He]	MULT(HE4)	Multiplicity distribution for ^4He nucleus
mult[frag]	MULT(FRAG)	Multiplicity distribution for nuclear fragment
mult[fragb]	MULT(FRAGB)	Multiplicity distribution for beam fragment
mult[fragt]	MULT(FRAGT)	Multiplicity distribution for target fragment
mult[star]	MULT(STAR)	Multiplicity distribution for star
mult[shower]	MULT(SHOWER)	Multiplicity distribution for shower track
mult[grey]	MULT(GREY)	Multiplicity distribution for grey track
mult[htrack]	MULT(HTRACK)	Multiplicity distribution for heavy tracks (black or grey) in emulsion
mult[black]	MULT(BLACK)	Multiplicity distribution for black track
mult[heavy]	MULT(HEAVY)	
	QUALIFIERS DESCRIBING ABSENCE OF PARTICLE IN THE FINAL STATE	
0 charged	OCHARGED	Exactly zero charged particles
0 charged$^+$	OCHARGED+	Exactly zero positive particles
0 charged$^-$	OCHARGED-	Exactly zero negative particles
0 charged-hadron	OCHARGED-HADRON	Exactly zero charged hadrons
0 jet	OJET	Exactly zero jets
0 vee	OVEE	Exactly zero neutral strange particle decays
0 γ	OGAMMA	Exactly zero γ's
0 lepton	OLEPTON	Exactly zero leptons
0 ν_e	ONUE	Exactly zero ν_e's
0 $e^\pm$	OE+-	Exactly zero electrons and positrons
0 e^-	OE-	Exactly zero electrons
0 e^+	OE+	Exactly zero positrons
0 $\overline{\nu}_e$	ONUEBAR	Exactly zero $\overline{\nu}_e$'s
0 ν_μ	ONUMU	Exactly zero ν_μ's
0 $\mu^\pm$	OMU+-	Exactly zero muons
0 μ^-	OMU-	Exactly zero μ^-'s
0 μ^+	OMU+	Exactly zero μ^+'s
0 $\overline{\nu}_\mu$	ONUMUBAR	Exactly zero $\overline{\nu}_\mu$'s
0 π	OPI	Exactly zero pions
0 $\pi^\pm$	OPI+-	Exactly zero π^+'s and π^-'s. No charged pions
0 π^+	OPI+	Exactly zero π^+'s
0 π^0	OPI0	Exactly zero π^0's
0 π^-	OPI-	Exactly zero π^-'s
0 strange	OSTRANGE	Exactly zero strange particles
0 K_S	OKS	Exactly zero K_S's
0 K_0	OK0	Exactly zero K_0's
0 p	OP	Exactly zero protons
0 n	ON	Exactly zero neutrons
0 Λ	OLAMBDA	Exactly zero Λ's
0 $\overline{\Lambda}$	OLAMBDABAR	Exactly zero $\overline{\Lambda}$'s
0 charm	OCHARM	Exactly zero charmed particles
0 bottom	OBOTTOM	Exactly zero number of particles with naked beauty
0 fragb	OFRAGB	Exactly zero beam fragments
0 shower	OSHOWER	Exactly zero showers
0 grey	OGREY	Exactly zero grey tracks in an emulsion
0 htrack	OHTRACK	Exactly zero heavy tracks
0 He	OHE	Exactly zero helium nucleus
	QUALIFIERS OF PARTICLE GROUP IN A FINAL STATE	
nonres	NONRES	Unspecified nonresonant state
cc	CC	Charge conjugate final state
DD	DD	Unspecified diffraction dissociation final state
	MISCELLANEOUS TERMS	
unlinked	UNLINKED	Pseudo-particle used as a complete reaction by itself
crystal	CRYSTAL	General target for channeling expts – target is not individual particles
$(\pi\pi)_{L=0}$	PIPI(L=0)	$\pi\pi$ S-wave state
$\overline{N}N(I=0)$	NBARN(I=0)	$\overline{N}N$ $I=0$ initial state (and elastic final state)
$\overline{N}N(I=1)$	NBARN(I=1)	$\overline{N}N$ $I=1$ initial state (and elastic final state)
$(\pi\pi)_{I=0}$	PIPI(I=0)	$\pi\pi$ $I=0$ state
$(\pi\pi)_{I=1}$	PIPI(I=1)	$\pi\pi$ $I=1$ state
$(\pi\pi)_{I=2}$	PIPI(I=2)	$\pi\pi$ $I=2$ state
$(\pi\pi)^0_{L=0}$	PIPI(L=0)0	$\pi\pi$ $L=0$ state
$(K\ K)_{L=0}$	KK(L=0)	
$(K^*\pi)_{I=1/2}$	K*PI(I=1/2)	$K^*\pi$ $I=1/2$ state
$(K^*\pi)_{I=3/2}$	K*PI(I=3/2)	$K^*\pi$ $I=3/2$ state
$(K\pi)_{I=1/2}$	KPI(I=1/2)	$K\pi$ $I=1/2$ state

See the legend on page 425.

PARTICLE NAME	COMPUTER NAME	EXPLANATION
$(K\pi)_{I=3/2}$	KPI(I=3/2)	$K\pi$ $I = 3/2$ state
$(KN)_{I=0}$	KN(I=0)	KN $I = 0$ initial state (and elastic final state)
$(KN)_{I=1}$	KN(I=1)	Kn $I = 1$ initial state (and elastic final state)
$(\overline{K}N)_{I=0}$	KBARN(I=0)	$\overline{K}N$ $I = 0$ initial state (and elastic final state)
$(\overline{K}N)_{I=1}$	KBARN(I=1)	$\overline{K}N$ $I = 1$ initial state (and elastic final state)
$(\pi\Lambda)_{I=1}$	PILAMBDA(I=1)	$\pi\Lambda$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Lambda)^+_{I=1}$	PILAMBDA(I=1)+	$\pi\Lambda$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Lambda)^0_{I=1}$	PILAMBDA(I=1)0	$\pi\Lambda$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Lambda)^-_{I=1}$	PILAMBDA(I=1)-	$\pi\Lambda$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Sigma)_{I=0}$	PISIGMA(I=0)	$\pi\Sigma$ $I = 0$ system of unspecified mass, for PWA
$(\pi\Sigma)_{I=1}$	PISIGMA(I=1)	$\pi\Sigma$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Sigma)^+_{I=1}$	PISIGMA(I=1)+	$\pi\Sigma$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Sigma)^0_{I=1}$	PISIGMA(I=1)0	$\pi\Sigma$ $I = 1$ system of unspecified mass, for PWA
$(\pi\Sigma)^-_{I=1}$	PISIGMA(I=1)-	$\pi\Sigma$ $I = 1$ system of unspecified mass, for PWA
$(\pi N)_{I=1/2}$	PIN(I=1/2)	πN $I = 1/2$ initial state (and elastic final state)
$(\pi N)_{I=3/2}$	PIN(I=3/2)	πN $I = 3/2$ initial state (and elastic final state)
$N\rho(I = 1/2)$	NRHO(I=1/2)	$N\rho$ $I = 1/2$ final state
$N\rho(I = 3/2)$	NRHO(I=3/2)	$N\rho$ $I = 3/2$ final state
$(N\pi\pi)_{I=1/2}$	NEPSILON(I=1/2)	Nucleon and S-wave dipion I=1/2 final state
$(\pi\Delta)_{I=1/2}$	PIDELTA(I=1/2)	$\pi\Delta$ $I = 1/2$ final state
$(\pi\Delta)_{I=3/2}$	PIDELTA(I=3/2)	$\pi\Delta$ $I = 3/2$ final state
$(K\Sigma)_{I=1/2}$	KSIGMA(I=1/2)	$K\Sigma$ $I = 3/2$ state
$(K\Sigma)_{I=3/2}$	KSIGMA(I=3/2)	$K\Sigma$ $I = 3/2$ state
$NN(I = 0)$	NN(I=0)	NN $I = 0$ initial state (and elastic final state)
$NN(I = 1)$	NN(I=1)	NN $I = 1$ initial state (and elastic final state)
	MISCLASSIFIED OR DEAD PARTICLES	
$f_0(995)$	F0(995)	S-wave $\pi^0\pi^0$ enhancement
$\Upsilon(5970)$	UPSI(5970)	Early reported Υ to e^+e^-
$\overline{K}N(1700)^0$	KNBAR(1700)0	Possible $K\omega$ state

Our names for accelerators are collected below. Usually the name is simply an abbreviation of the name of the institution at which the accelerator is located. Where there is more than one accelerator at an institution, an appropriate modifier is appended, as in CERN-SPS.

For a cosmic ray experiment, we use COSM as the accelerator name, sometimes combined with a specification of the source of the rays.

We use NONE for certain cases, such as proton decay experiments, in which no particle beam is used. We use MANY for certain rapporteur talks or other papers surveying a number of experiments at several (often unspecified) accelerators.

Energies listed are the approximate maximum energies of the circulating beams.

ACCELERATOR	EXPLANATION
AERE-HELIOS-NS	HELIOS neutron source at Harwell
ALPI	Superconducting linac to accelerate ions (Legnaro, Italy)
ANIK-MEA	MEA e^- linac at NIKHEF
ANL	Argonne (ZGS) proton synchrotron (12.7 GeV/c p_{lab})
ANL-ATLAS	Superconducting linear accelerator at the Argonne National Laboratory
ANUC-CYC	Canberra cyclotron
BHEP-BEPC	Beijing electron-positron colliding ring (5.6 GeV E_{cm})
BNL	Brookhaven (AGS) proton synchrotron (33 GeV/c p_{lab})
BNL-ION	Heavy ion accelerator at BNL
BONN-CYC	Bonn CYClotron
BONN-ELSA	Electron-Stretcher-Accelerator (2-3.5 GeV Plab)
CEBAF	Continuous Electron Beam Accelerator Facility (E=0.4-4. GeV, 0.2 mA current)
CELSIUS	Storage ring at the Svedberg Laboratory in Uppsala
CERN-ISR	CERN proton-proton collider (62 GeV E_{cm})
CERN-LEAR	CERN low-energy antiproton ring
CERN-LEP	CERN large electron-positron collider (120 GeV E_{cm})
CERN-PBAR/P	CERN $\bar{p}p$ collider (540 GeV E_{cm})
CERN-PS	CERN proton synchrotron (28 GeV/c p_{lab})
CERN-SC	CERN synchrocyclotron (600 MeV T_{lab})
CERN-SPS	CERN super proton synchrotron (450 GeV/c p_{lab})
CESR	Cornell electron-positron storage ring (12 GeV E_{cm})
CHALK-TANDEM	Chalk River MP tandem
CIT-PELLETRON	California Institute of Technology 3-MeV Pelletron accelerator
COSM	Cosmic rays
COSM-CYGNUS-X-3	Local source of cosmic ray particles from direction of Cygnus X-3
COSM-HERCULES-X-1	Local source of cosmic ray particles from direction of Hercules X-1
COSM-SN1987A	Local source of cosmic ray particles from direction of SN 1987A
COSM-SUN	Local source of cosmic ray particles from direction of the Sun
COSY	COoler SYnchrotron - JULIC cyclotron as injector and a synchrotron with the possibilities to coll the beam
DARE-NINA	Daresbury electron synchrotron (5.2 GeV/c p_{lab})
DESY	Hamburg Deutches electron synchrotron (7.5 GeV/c p_{lab})
DESY-DORIS	DESY DOppel RIng Speicher (2–6 Gev E_{cm})
DESY-DORIS-II	DESY DORIS upgraded in 1977 (11.2 GeV E_{cm})
DESY-HERA	e-p machine at DESY
DESY-PETRA	DESY electron-positron collider (40 GeV E_{cm})
DGSI	Darmstadt heavy ion facility (SIS/ESR)
DGSI-UNILAC	Heavy ion accelerator at GSI
ELECTROSTATIC	General electrostatic accelerator
ESRF	European Synchrotron Radiation Facility, GRENOBLE
FNAL	FNAL proton synchrotron (500 GeV/c p_{lab})
FNAL-AA	Antiproton accumulator for collider
FNAL-COLLIDER	FNAL $\bar{p}p$ collider (2000 GeV E_{cm})
FNAL-TEV	FNAL fixed target machine (1000 GeV)
FRAS-ADONE	Frascati electron-positron ring (3 GeV E_{cm})
GANIL	Two coupled isochronous cyclotrons for heavy ions
GRON-CYC	KVI Cyclotron at Groningen
HCAT	High-current accelerator of the Institute of High-Current Electronics Electronics (TOMSK, RUSSIA)
ILL	Univ. of Ill. electron synchrotron (300 MeV/c p_{lab})
IMPL-HIREL	Heavy Ion REsearch faciLity
IND-CYC	Indiana University cyclotron facility
ITEP	ITEP Moscow proton synchrotron (7 GeV/c p_{lab})
IUPU-CYC	Indiana University cyclotron
JINR	JINR Dubna proton synchrotron (10 GeV/c p_{lab})
JINR-600	JINR Dubna synchrocyclotron (600 MeV T_{lab})
KEK-KENS	KEK Spallation Neutron Source
KEK-PF-LINAC	KEK Photon Factory, storage ring using 2.5 GeV electron beam from the injector LINAC
KEK-PS	KEK proton synchrotron (12 GeV p_{lab})
KEK-TRISTAN	KEK electron-positron collider (64 GeV E_{cm})
KERN-CYC	Kernfysisch Versneller Inst. superconducting cyclotron
KFAJ-CYC	Institute of nuclear physics of KFA. (JULICH, GERMANY)
KHAR	Electron linear accelerator (2 GeV p_{lab}) at Kharkov Physico-Technical Inst., Ukr. Acad. Sci.
KYUS-TAF	Tandem accelerator facility of the Kyushu University
LAMPF	Los Alamos meson/proton factory
LASER	Laser as a source of γ's
LBL-BEVALAC	Tandem combination of LBL-HILAC and Bevatron. Accelerates ions up to Fe (2.1 GeV/nucleon for charge/mass = 0.5, 4.9 for protons)
LBL-CYC-88IN	The LBL 88 inch cyclotron (160 MeV for alphas)
LEGS	Laser Electron Gamma Source at BNL.
LINAC	unspecified linac
LUNA	The 50 kV accelerator facility consisted of a duoplasmatron ion source (Laboratori Nazionali del Gran Sasso (LNGS))
LUND	Electron synchrotron at Lund (1.1 GeV/c p_{lab})
LVLN-CYC	Isochronous cyclotron at University of Louvain
MANI-CYC	University of Manitoba cyclotron
MANY	Used (rarely) for reviews and compilations
MANZ-MAMI	Mainz electron Microtron on the energy up to 855 MeV and 100 microamps current
MINR-MMF	Moscow Meson Factory, proton and H^- ion accelerator with the energy of 600 MeV
MIT-BLA	MIT electron LINAC (780 MeV E_{lab})
MSU-CYC	Michigan State Univ. superconducting cyclotron to 40 MeV
NONE	No accelerator used
NOVO-VEPP-2M	Electron-positron storage ring at Novosibirsk (1.4 GeV E_{cm})

NOVO-VEPP-3

ACCELERATOR	EXPLANATION
NOVO-VEPP-3	Novosibirsk (VEPP-3) electron-positron storage ring, used primarily as synchrotron radiation source, will be used as intermediate storage for VEPP-4 (2.2 GeV E_{cm})
NOVO-VEPP-4	Electron-positron ring at Novosibirsk, also a synchrotron radiation source (7–10.4 GeV E_{cm})
OHIO-RBF	Notre Dame-Michigan-Ohio state radiative beam fasility
ORNL-ORELA	Oak Ridge Electron Linear Acelerator pulsed neutron source
ORSA-CYC	Orsay synchrocyclotron (150 MeV/c p_{lab})
ORSA-DCI	Orsay electron-positron storage ring (3.4 GeV E_{cm})
OSAK-CYC	230 cm AVF cyclotron
PIYF	Peterburg Inst. of Nucl. Phys. synchrocyclotron (1 GeV T_{lab})
PSI	Isochronous cyclotron (590 MeV Tlab) at PSI
REACTOR	General nuclear reactor
RHEL-ISIS	Pulsed neutron source at RAL (1 - 1000 MeV energy)
ROCH-TANDEM	Tandem Electrostatic accelerator at Univ. of Rochester's Nuclear Structure Research Laboratory
SAAC-CYC	National Accelerator Center Cyclotron, South Africa
SACL-LINAC	Saclay electron LINAC
SACL-SATURNE-II	Saclay proton, deuteron, nucleus accelerator (2.95 GeV T_{lab} for protons)
SAIP-RIKEN	Ring cyclotron at Saitama Inst. of Phys. and Chem. Reserches
SARA	Coupled cyclotron accelerator system in CEN, Grenoble
SASK-LINAC	LINAC at University of Saskatewan
SERP	IHEP Serpukhov proton synchrotron (76 GeV/c p_{lab})
SLAC	Stanford electron linear accelerator (40 GeV/c p_{lab})
SLAC-NPI	Stanford nuclear physics injector
SLAC-PEP	Stanford electron-positron ring (30 GeV E_{cm})
SLAC-SLC	Stanford linear electron-positron collider (100 GeV E_{cm})
SLAC-SPEAR	Stanford electron-positron ring (8.4 GeV E_{cm})
SOURCE	Generic name for radioactive source used for particle physics experiments
TAMU-CYC	Texas A&M university cyclotron
TOHO	Low energy electron linear accelerator at Tohoku University
TOKY	INS Tokyo electron synchrotron (1.3 GeV/c p_{lab})
TRID	Triangle Universities Nuclear Laboratory accelerator
TRIUMF	Canadian TRIangle University Meson Facility (520 MeV T_{lab})
UMD-CYC	University of Maryland cyclotron lab
UUPP-CYC	Uppsala cyclotron
VAN-DE-GRAAFF	General Van-de-Graaff accelerator
VECC	The zero degree port of the Variable Energy Cyclotron Centre, Calcutta
WISC	U. Wisconsin electrostatic (2.5 MeV/c p_{lab})
YERE-ARUS	Yerevan (ARUS) electron synchrotron (6.1 GeV/c p_{lab})

We list here detectors and the laboratories at which they are used.

Bubble chamber detector names give the fill — hydrogen (HBC), deuterium (DBC), helium (HEBC) or heavy liquid (HLBC) — then the chamber name (which is usually simply its size), and finally any qualifiers. The qualifiers are HYB for a predominantly hybrid mode of operation, RAP for a rapid-cycling chamber, and TST for a chamber containing a track-sensitive target. When more than one qualifier is appropriate, we use the one most important to the data at hand.

DETECTOR	ACCELERATOR	EXPLANATION
2-GAMMA	SLAC-PEP	System of forward detectors for studying mainly the 2-γ process
20-GEV	SLAC	
8-GEV	SLAC	8-GeV spectrometer
?		Unknown detector
ACCMOR	CERN-SPS	Large aperture forward magnetic spectrometer
AFS	CERN-ISR	Axial field spectrometer
AGASA	COSM	Akeno Giant Air Shower Array
AHEAD	MIT-BLA	Alberta high efficiency analyzer for deuterons
ALADIN	DGSI	Forward spectrometer
ALEPH	CERN-LEP	LEP detector
ALPHA-POLIS	JINR	
AMADEUS	BONN-ELSA	Scintillation detector in the PHOENICS area at BONN-ELSA
AMPHORA	SARA	
AMY	KEK-TRISTAN	High resolution lepton detector
APEX	ANL-ATLAS	ATLAS positron experiment
APPLE	CERN-LEAR	Apparatus for precision measurements of the proton electromagnetic form factors in the time-like region and vector meson spectroscopy.
ARGUS	DESY-DORIS	ARGUS detector at DORIS
ASTERIX	CERN-LEAR	Antiproton stop experiment with trigger on initial x rays
BAKSAN	UNDERGROUND	Baksan underground scintillation telescope
BENKEI	KEK-PS	BENKEI spectrometer system at KEK proton synchrotron
BES	BHEP-BEPC	BEijing Spectrometer
BESS	COSM	Balloon Borne Experiment with a Superconducting Spectrometer
BIS-2	SERP	Upgrade of BIS
BNL-SND	UNDERGROUND	Homestake gold mine Brookhaven solar neutrino detector at Lead, South Dakota
CALO		Calorimeter
CASA-MIA	COSM	Chicago Air Shower Array with Michigan Muon Array
CCM	FNAL-TEV	Chicago cyclotron magnet spectrometer
CCS	FNAL	Chicago cyclotron spectrometer at Fermilab
CDF	FNAL-COLLIDER	Collider detector at Fermilab
CDHS	CERN-SPS	CERN-Dortmund-Heidelberg-Saclay-Bologna neutrino detector at SPS (135 tons)
CELLO	DESY-PETRA	CELLO detector at DESY
CERES	CERN-SPS	CErenkov Ring Electron Spectrometer
CERN-MUNICH	CERN-PS	CERN-Max Planck I (Munich) spectrometer
CHAOS	TRIUMF	
CHARM	CERN-SPS	CERN-Hamburg-Amsterdam-Rome-Moscow neutrino detector
CHARM-II	CERN-SPS	Upgraded charm detector
CLAMSUD	MINR-MMF	MINR-MMF magnetic spectrometer.
CLEO	CESR	Solenoidal magnetic spectrometer
CLEO-II	CESR	CLEO II detector at CESR
CMD-2	NOVO-VEPP-2M	Cryogenic magnetic detector, 1.5 T solenoid, CsI and BGO calorimeters
CNTR		Counters (no chambers)
COMB		Combinations of different types of detectors. Can include a hybrid system involving a bubble chamber, if the bubble chamber is a minor part of the system
COVER	COSM	Shower detector at Baksan
CPLEAR	CERN-LEAR	Apparatus for precision measurements of CP violation and CPT tests with $K^0\ \overline{K}^0$.
CRYS-BALL	SLAC-SPEAR	Crystal ball
CRYS-BARREL	CERN-LEAR	Crystal Barrel large-solid-angle detector
D0	FNAL-COLLIDER	FNAL collider detector
DAPHNE	MANZ-MAMI	Cilindrically symmetric 4π detector
DAS		Double arm spectrometer
DBC-30IN	ANL	Deuterium bubble chamber
DBC-30IN	BNL	Deuterium bubble chamber
DBC-30IN	LBL	Deuterium bubble chamber
DBC-30IN	FNAL	Deuterium bubble chamber
DBC-35CM	SACL	Deuterium bubble chamber
DBC-81CM	SACL	Deuterium bubble chamber
DBC-BEBC	CERN-PS	Deuterium filled Big European Bubble Chamber
DELPHI	CERN-LEP	LEP detector
DEUTRON-2	YERE-ARUS	Modification of DEUTRON detector
DIOGENE	SACL-SATURNE-II	Pictorial drift chamber
DISC-3	JINR	Double-arm magnetic spectrometer
DISTO	SACL-SATURNE-II	Dubna, Indiana, Saclay TOrino spectrometer with scintillating fibers
DLS	LBL-BEVALAC	Double arm spectrometer
DM2	ORSA-DCI	Detecteur magnetique no. 2
DRIFT		Generic drift chamber detector
EAS-TOP	COSM	Extended air shower detector on top of the Gran Sasso Mt., at the Gran Sasso National Laboratory, L'Aquila, Italy
EHS	CERN-SPS	European hybrid spectrometer
ELAN	BONN-ELSA	
ELEGANTS-V	UNDERGROUND	ELEectron GAmma-ray NeuTrino Spectrometer V at Kamioka underground laboratory
ELSSY	MIT-BLA	Electron spectrometer system
EMC	CERN-SPS	European muon collaboration
EMUL		Emulsion. Also used for detectors like PLASTIC where tracks are "frozen" in a solid medium
EPICS	LAMPF	Energetic pion spectrometer and detection system
EPOS	DGSI-UNILAC	Electron-positron solenoid spectrometer
EVA	CESR	Exclusive variable apparatus, built around CLEO I solenoid
EXCHARM	SERP	Further modification of BIS
FANCY	KEK-PS	Forward and cylindrical detector system, large acceptance spectrometer covering both projectile and target regions

DETECTOR	ACCELERATOR	EXPLANATION
FENICE	FRAS-ADONE	Non-magnetic detector
FGJT	FNAL	FERMILAB Gas Fet Target
FHS-1	ITEP	Focusing Hadron Spectrometer
FHS-2	ITEP	Second arm of FHS-1
FMM	FNAL	Neutrino calorimeter at FNAL
FMPS	FNAL	Multiparticle spectrometer at Fermilab
FOCUS	ITEP	FOrward particle & CUmulative particle Spectrometer
FODS	SERP	Double-arm spectrometer
FOPI	DGSI	Detector for an identification of charged particles ($Z \leq 15$). High granularity time-of-flight wall (764 scintillators) and an inner shell of thin energy-loss detectors (188 elements)
FPP	GANIL	Focal-Plane Polarimeter
FREJUS	UNDERGROUND	Proton decay experiment, tracking calorimeter in the Alps
GALLEX	UNDERGROUND	Solar neutrino detector in hall A of the Gran Sasso National Laboratory, L'Aquila, Italy. Uses 30 tons of Gallium in the form of GaCl3
GAMS-2000	SERP	Hodoscope gamma-spectrometer
GAMS-4000	CERN-SPS	Hodoscope gamma-spectrometer
GAMS-4PI	SERP	GAMS-2000 modification
GEM	COSY	High resolution hybrid detector
GIBS	JINR	Combination of scintillator counters and streamer chamber
GOLIATH	CERN-SPS	CERN Goliath spectrometer
H1	DESY-HERA	H1 detector at DESY/HERA
HBC-1M	KEK-PS	Hydrogen bubble chamber
HBC-1M	JINR	Hydrogen bubble chamber
HBC-2M	ITEP	Hydrogen bubble chamber
HBC-2M	CERN-PS	Hydrogen bubble chamber
HBC-30IN	ANL	Hydrogen bubble chamber
HBC-30IN	LBL	Hydrogen bubble chamber
HBC-30IN	BNL	Hydrogen bubble chamber
HBC-30IN	FNAL	Hydrogen bubble chamber
HBC-30IN-HYB	FNAL	Hydrogen bubble chamber
HBC-40IN-HYB	RHEL	Hydrogen bubble chamber
HBC-40IN-HYB	SLAC	SLAC hybrid facility rapid cycling HBC (retired)
HBC-BEBC-HYB	CERN-PS	Big European bubble chamber with hybrid system
HBC-LEBC-HYB	CERN-SPS	Little European bubble chamber with hybrid system
HBC-LUDMILA	SERP	Also known as DUBNA chamber, but at Serpukhov
HBC-MIRA	SERP	4.5m × 1.6m × 1.1m cold chamber
HBC-RCBC	CERN-SPS	
HELIOS	CERN-SPS	
HERMES	HERA	Spectrometer at DESY/HERA
HISS	LBL-BEVALAC	Heavy Ion Spectrometer System
HLBC-105CM	ITEP	Heavy-liquid bubble chamber
HLBC-15FT	FNAL	Heavy-liquid bubble chamber
HLBC-15FT-HYB	FNAL	Heavy-liquid bubble chamber
HLBC-180LIT	ITEP	Heavy-liquid bubble chamber
HLBC-2M	SERP	180-liter propane chamber
HLBC-2M	JINR	180-liter propane chamber built by Dubna
HLBC-BEBC	CERN-PS	Heavy-liquid bubble chamber
HLBC-BEBC-HYB	CERN-PS	Heavy-liquid bubble chamber
HLBC-DIANA	ITEP	Heavy-liquid bubble chamber
HMS	CEBAF	High Momentum Spectrometer
HRS	SLAC-PEP	High resolution spectrometer
HRSF	LAMPF	High resolution spectrometer facility
HYBUC	CERN-SPS	Hydrogen bubble chamber at CERN SPS
HYPERON	SERP	Single arm magnetic spectrometer with big spark and proportional chambers and gas hodoscope counter
IMB	UNDERGROUND	Irvine-Michigan-Brookhaven underground Cherenkov detector
IMB-III	UNDERGROUND	Irvine-Michigan-Brookhaven underground Cherenkov detector
INDRA	GANIL	
IONIZATION		Generic detector looking for ionization
ISTRA-M	SERP	
JADE	DESY-PETRA	JADE detector at DESY
JETSET	CERN-LEAR	Compact general purpose detector
KAMIOKANDE-I	UNDERGROUND	Kamioka nucleon decay detector
KAMIOKANDE-II	UNDERGROUND	Kamioka nucleon decay detector, stage-2
KAMIOKANDE-III	UNDERGROUND	Kamioka nucleon decay detector, stage-3, started operation on November 1990
KARMEN	RHEL-ISIS	56 t liquid scintillator calorimeter
KASPIY	JINR	Channel and π-meson spectrometer with final particle energy up to 1 GeV
KEDR	NOVO-VEPP-4M	
KGF	UNDERGROUND	Kolar Gold Field underground detector
KURAMA	KEK-PS	
L3	CERN-LEP	LEP detector
LAB-E	FNAL	1100-ton target-calorimeter muon-spectrometer detector for neutrino physics
LADS	PSI	Large Acceptance Detector System
LAND	DGSI	Large area neutron detector
LAS	LAMPF	
LASS	SLAC	Large aperture solenoid spectrometer
LEPS	PSI	Low energy magnetic spectrometer
LEPTON-F	SERP	
LISE	GANIL	Magnetic recoil spectrometer
LSD	UNDERGROUND	

DETECTOR	ACCELERATOR	EXPLANATION
LSND	LAMPF	Liquid Scintillator Neutrino detector
LVD	UNDERGROUND	Large volume detector, installed in hall A of the Gran Sasso National Laboratory, L'Aquila, Italy. Operated by an Italian-Soviet collaboration. Using 1600 tons of liquid scintillator and limited streamer tubes. Experiment aiming at the detection of n
MACRO	UNDERGROUND	Large area detector
MANY		Many different detectors
MARK-II	SLAC-SPEAR	SLAC Mark-II detector
MARK-III	SLAC-SPEAR	SLAC-SPEAR spectrometer system (not related to MARK-II)
MD-1	NOVO-VEPP-4	Magnetic detector
MEDEA		MEDEA is multidetector at GANIL
MEPS	MIT-BLA	Medium energy pion spectrometer
MICROSTRIP		Generic microstrip detector
MINIBALL	MSU-CYC	
MINIMAX	FNAL-COLLIDER	The apparatus is used in FNAL-864 experiment. Its main part is a tracking telescope
MIS	SERP	Multiparticle spectrometer
MIS-2	SERP	
MPS	BNL	Multiparticle spectrometer
MPS-II	BNL	Updated BNL MPS
MRS	TRIUMF	Medium resolution spectrometer
MTS	ITEP	3-m magnetic spectrometer with spark chambers
MUR-TONNEAU	GANIL	Axially symmetric multi-detector system at GANIL
MUSIC	LBL-BEVALAC	MUltiple-Sampling Ionization Chamber, component of HISS
ND	NOVO-VEPP-2M	Neutral detector at VEPP-2M
NEUTRONSPEC		Neutron spectrometer
NEWMASS	CERN-SPS	Detector to look for charged massive object at 0° production angle, using H6-beamline in the North Experimental Area as a charged particle spectrometer
NHS	ITEP	Spectrometer without magnetic field
NPOL	OSAK-CYC	Neutron Polarimeter
NT-200	UNDERGROUND	Neutrino Telescope with 200 phototubes on Baikal lake
NUSEX	UNDERGROUND	NUSEX nucleon decay detector, Mont Blanc tunnel
OBELIX	CERN-LEAR	A large acceptance and high resolution detector based on the Open Axial Field Spectrometer to study of PBAR and NBAR annihilation.
OMEGA	CERN-SPS	CERN OMEGA spectrometer
OMEGAPRIME	CERN-SPS	
OPAL	CERN-LEP	LEP detector
OPTICAL ROTATION		Generic detector system to measure the rotation angle of the polarization plane of the laser light.
ORION	SACL-SATURNE-II	neutron calorimeter, moved from GANIL
OSPK		Optical spark chamber
OTHER		Rare nonelectronic detectors (e.g. moon, ocean floor)
PERKEO		Solenoidal electron spectrometer
PHOENICS	BONN-ELSA	
PHOTON		Photon spectrometer
PHOTON-MASSER	JINR	Lead Glass Photon Spectrometer
PI0SPEC	LAMPF	Los Alamos π^0 spectrometer
PIK	KEK-PS	Medium resolution spectrometer for (PI,K) nuclear spectroscopy
PINOT	SACL-SATURNE-II	Saclay high resolution pi0 and eta detector
PLASTIC		Lexan or other such material in which tracks are frozen (except emulsion)
PLASTIC-BALL	LBL-BEVALAC	Plastic ball detector
POLDER	SACL-SATURNE-II	Tensor deuteron polarimeter
POMME	SACL-SATURNE-II	
PROZA-M	SERP	Modified PROZA
RISK	SERP	$4.7\times0.9\times0.8$ m^3 streamer chamber in magnetic field
RMC	TRIUMF	Radiative Muon Capture spectrometer
S-KAMIOKANDE	UNDERGROUND	Very large water Cherenkov detector with a total mass of 50000 tons, 11200 20-inch PMT, trigger threshold 5 MeV/c for electron
SAC-600	SACL-LINAC	High resolution electron scattering detector
SAC-900	SACL-LINAC	High resolution electron scattering detector
SAGE	UNDERGROUND	Soviet-American Gallium Experiment in the Baksan Neutrino Observatory
SAPHIR	BONN-ELSA	
SAS		Single arm spectrometer
SCINT	GANIL	
SEMI		Semiconductor detector
SFM	CERN-PS	Split field magnet
SIGMA	SERP	CERN-IHEP magnetic spectrometer at Serpukhov
SIGMA-AYAKS	SERP	modified SIGMA spectrometer with cumulative particles arm
SINDRUM-II	PSI	Upgraded large-angle solenoid detector
SKM-200	JINR	2-m neon filled streamer chamber
SKS	KEK-PS	high resolution large acceptance superconducting spectrometer for nuclear spectroscopy
SLD	SLAC-SLC	SLac Detector
SMM-GRS	COSM	Gamma ray spectrometer of the solar maximum mission satellite facility
SND	NOVO-VEPP-2M	Spherical Neutral Detector, 1680 NaI(Tl) counters
SOS	CEBAF	Short Orbit Spectrometer
SOUDAN-II	UNDERGROUND	Detector with drift calorimeter modules, 1030 tons, at Minnesota
SPEC		General spectrometer system not filling one of the others or where specific type not given
SPEC-6M	SERP	6-m spectrometer
SPEG	GANIL	The energy loss magnetic spectrometer
SPES-0	SACL-SATURNE-II	Modular lead-glass Cerenkov detector
SPES-I	SACL-SATURNE-II	High resolution spectrometer
SPES-II	CERN-LEAR	High resolution spectrometer

SPES-III

DETECTOR	ACCELERATOR	EXPLANATION
SPES-III	SACL-SATURNE-II	Saclay Saturne spectrometer
SPES-IV	SACL-SATURNE-II	High resolution spectrometer
SPHERE	JINR	$4-\pi$ detector
SPHINX	SERP	
SPIN	ITEP	Magnetic superconducting spectrometer with horizontal magnetic field
SPRK		Spark chamber of unspecified type (use WIRE or OSPK, if possible)
SSF	SLAC	SLAC spectrometer facility — 1.6, 8, and/or 20 GeV spectrometers
SSNTD	JINR	Solid State Nuclear Track Detector
STRC		Streamer chamber
SUSI	PSI	Pion spectrometer
TAGX	TOKY	Large-aperture spectrometer system
TAPS	DGSI	Two arms photon spectrometer
TASSO	DESY-PETRA	DESY TASSO detector
THERMAL		General detector based on measuring of temerature increase after particle passing
TISS-3	ITEP	Spark Chamber of 1.5 m lenght
TOF		Time Of Flight detecting system
TOKIWA	KEK-PS	KEK spectrometer
TOPAZ	KEK-TRISTAN	Solenoidal spectrometer with time projection chamber
TPC	SLAC-PEP	Time projection chamber
TPS	FNAL	Tagged photon spectrometer
TRAD		A general transition radiation detector
TROITSK-NU-MASS		Setup to measure electron neutrino mass. An integral electrostatic spectrometer with adiabatic magnetic collimation and gaseous tritium source
UA1	CERN-PBAR/P	UA1 detector at CERN
UA2	CERN-PBAR/P	UA2 detector at CERN
UA4-2	CERN-PBAR/P	Two pairs of "Roman Pots" placed symmetrically at 45m from the crossing point. Main detector components: drift chambers, hodoscopes based on scintillating fibres, scintillation counters for trigger
VENUS	KEK-TRISTAN	Versatile economical and novel universal spectrometer
VES	SERP	Cerenkov counter combined with gamma spectrometer
WAS		Wide angle spectrometer
WIRE		Wire chambers (proportional wire chambers, drift chambers). Includes all nonoptical spark chambers
X-RAY		X-RAY spectrometer
ZEUS	DESY-HERA	ZEUS detector at DESY/HERA

We give here the symbols used in the Reaction/Momentum/Data Descriptor Index to indicate what quantities are measured in an experiment.

DATA DESCRIPTOR	EXPLANATION
A-DEP	Atomic number dependence
AMP	Amplitudes not decomposed into states of definite angular momentum: Re/Im ratio, helicity amplitude, etc.
ANG	Angular distributions between particles in the final state. Includes also angular distributions involving decay products of particles listed in the reaction, even though those decay products are not themselves explicitly listed. Includes angles used to study the decay of a system in the final state, even though the coordinate system axes may be def ined with respect to the incident particles (e.g., Jackson angles, etc.). Also the equivalent, expressed as moments, etc.
ANGP	Production angular distributions of one or more of the outgoing particles relative to one of the incident particles. Also the equivalent, expressed as moments or polynomial expansion coefficients. Also invariant cross sections as a function of production angle or t. By convention, does not include rapidity or its approximation (see P)
ANGP*MASS	Biplot, note that order of description is essential
ANGP*P	Biplot, note that order of description is essential
ANGP*PT	Biplot, note that order of description is essential
ASYM	Asymmetry in scattering off a polarized target and/or with a polarized beam (with exception of special case noted under POL)
COL	Collective variables (sphericity, thrust, etc.)
CONST	Physical constant (Fermi constant, Weinberg angle, etc.). Used toexpress that model parameters are extracted from data
COR	General correlator (on momentum, rapidity, etc.)
CS	Cross section, cross section ratio, or cross section upper limit.Can also be listed for very rare reactions whose existence is being established, even though the number of events has not been converted to a cross section. Does not include parametrizations of the cross section, e.g. as a function of energy
DME	Density matrix elements, including joint density matrix elements
ET	Transverse energy
FLUX	Cosmic-ray particle flux
FV	For proposals only. Experiment proposes to measure complete four-vector, without specifying exactly what analysis of them will be done
MANY	For rare cases when there are many types of data measured
MASS	Mass spectrum, or invariant cross section as a function of mass
MASS*MASS	
MULT	Multiplicity distribution, its average, ratio or moments
P	Any function of outgoing momentum or energy not included in any others. Includes rapidity and Feynman scaling variables
P*P	
POL	Final state spin polarization measurement, including Wolfenstein spin rotation parameters, and measurements of the asymmetry off a polarized target when it is equal to the final state polarization
PT	Transverse momentum spectrum, or invariant cross section as a function of above. Does not include a momentum transfer spectrum (see ANGP). Includes transverse mass, unless the particle mass is also variable
PT*MASS	
PT*P	
PWA	Partial wave amplitudes, including formation partial waves and production partial waves. Any attempt to measure amplitudes of definite angular momentum. Includes scattering length and effective range
QNC	Test of quantum-number conservation