LBL-90
September 1978

MASTER

AN INDEXED COMPILATION OF EXPERIMENTAL HIGH ENERGY PHYSICS LITERATURE

Particle Data Group

C. P. Horne, G. P. Yost, A. Rittenberg, F. E. Armstrong, M. S. Hutchinson, D. R. Richards, T. G. Trippe, F. Uchiyama, D. M. Chew, T. A. Coffeen, R. L. Crawford, J. E. Enstrom, R. L. Kelly, J.-L. Kingston, T. A. Lasinski, M. J. Losty, D. L. Pollard, A. H. Rosenfeld, V. A. White, and C. G. Wohl
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‖‖The Berkeley Particle Data Center is jointly supported by the General Science and Basic Research Division (High Energy Physics) of the US Department of Energy, the Office of Standard Reference Data of the National Bureau of Standards, and the National Science Foundation.
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ABSTRACT

We present an indexed compilation of approximately 12,000 experimental high energy physics documents. A synopsis of each document is presented, and the documents are indexed according to beam/target/momentum, reaction/momentum, final-state-particle, particle/particle-property, accelerator/detector, and (for a limited set of the documents) experiment. No data are given.

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PART I
DESCRIPTIVE TEXT

A. INTRODUCTION

This report is a literature-searching aid, covering approximately 12,000 experimental high energy physics documents. Several Indices of experimental parameters reported on in these documents (such as reactions and particles studied, accelerator and detector used) are presented. A Summary Listing of each document is given on microfiche. The Indices are useful for many purposes in their own right, without reference to the Summary Listings. No actual data are presented.

This collection of information is the result of many efforts, of ours and others, extending over nearly a decade. A great deal of time has been spent spot-checking our records for errors. We have also constructed computer routines to check such things as conservation of baryon number in reactions we list. As a result, we believe that our records are sufficiently accurate that this first edition, which we view as experimental, will prove to be a useful compilation. But, because of the volume of information, we simply do not have the manpower to recheck all of our records for accuracy on every point; we are aware that even obvious errors have not always been caught. Therefore we request the assistance of users in locating errors: if readers would quickly check their own experiments and return the form at the back of this text section if any errors are spotted, it would serve the dual purpose of familiarizing the user with the book and of helping us to make subsequent editions more accurate. We also welcome general comments and suggestions.

All information presented here is maintained in a computer database using the Berkeley Database Management System (BDMS) [1]. We plan eventually to make this database searchable by general users. In the meantime, we shall provide individualized literature searches on request as time permits.

A discussion of the sources, collection procedures, and information extracted for this compilation is given in Section B below. Section C is a brief discussion of the features of this book.

The Indices appear in Part II and may be easily found using the guide on the back cover and the black marks on the edges of the pages. Particle names, institution names, and some other names have been standardized into Vocabularies of abbreviations, given in Part III, which also can be found using the guide on the back cover and the black marks. Part IV contains the Summary Listings on microfiche; these are mounted on the inside back cover.

The volume of information presented and consequent printing costs are the factors which have prevented publication of the entire compilation on paper. An all-paper edition of this document would be at least seven inches thick! Thus, the Summary Listings are on microfiche, with a character size designed to be readable on most types of fiche readers.

B. SCOPE OF THIS COMPILATION

In this section we discuss document and information processing.

1) Type of documents covered

This compilation covers high energy physics documents which: (1) contain new (i.e., previously unpublished) experimental data, (2) are proposals for already-approved experiments, or (3) present useful reviews or compilations of data. If it is uncertain whether data is new it is treated as new. Source documents may be preprints, journal articles, book articles, conference proceedings, theses, or experiment proposals. A separate publication covering only the proposals is available as LBL-91 [2].

For the purposes of this compilation we consider an item of information to be "data" if it falls within the domain of our reaction or particle property "data descriptors", the Vocabularies for which are given in Part III, Sections B and C. These cover most common types of data. We exclude theoretical papers, unless a new particle or reaction property is derived from an analysis (of data) which is not based upon any particular phenomenological model, or unless a useful review of data is given. For example, we exclude Regge phenomenology papers, but include partial-wave analyses. Other subjects excluded are instrumentation, nuclear level structure, and studies of cosmic rays of mainly astrophysical interest, such as the distribution of the flux.

The decision to include or exclude any document is always made by a physicist.

2) Type of information covered: encoding

The process of entering information into the database, called "encoding", is described below. As will be discussed in the next section, not all documents have been completely encoded.

We first obtain the bibliographic information (title, reference, authors, authors' institutions, and name of collaboration) from a source tape prepared by an outside service (e.g., Nuclear Science Abstracts – see Section 3 below) and standardize it to our conventions. A physicist then reads the document and records the accelerator and detector, and citations to earlier publications from the same experiment. If the paper reports data on reactions, then the reactions, their momenta, and descriptors indicating the type of data reported are encoded. Beam and target polarizaton are entered where appropriate. If the paper reports the measurement of an intrinsic particle property, both the particle and property are encoded. Informative comments on the experiment are occasionally entered, as, for example, "50000 bubble chamber pictures".

Finally, an attempt is made to link the document with the accelerator proposal which was the source of the data. The encoded citations to earlier works from the same experiment form the primary source of linkage information. If this is missing, all available proposals having the same accelerator, detector, beam, target, and beam momentum (within a certain tolerance) are checked. If there is then also some overlap between the document and proposal in authors and their institutions, the two are assumed to belong to the same experiment. The actual proposals in our database (approximately the same as those in LBL-91 [2]), cover only the years 1974 to the present, and even in that period, we are missing some approved proposals. In case the real proposal for an experiment is missing we construct a "pseudo-proposal" for it (these may be recognized by the presence of "XXX" in the proposal Short Code - see below). There is no experiment linkage for reviews or compilations, or for documents with insufficient information encoded.

The experiment linkage procedure is still being developed, and we know it has errors. Sometimes several experiments are linked together, sometimes a single experiment is split up, and often a report is not linked to its experiment. It would be of assistance in this -egard if authors, in their publications, could cite the experiment number assigned by the accelerator laboratory.

All of the above information appears in the Summary Listings, and in addition most of the individual items are indexed.

3) Thoroughness of coverage

We describe here how our procedures for collecting and handling documents varied as a function of date of publication, and how this affects the completeness of our database.

a) Pre-1969

For the earliest period covered, our only sources of encoded information were databases previously compiled by us or other compilers. Since these databases were limited in subject matter, not all documents were included, and, for those which were included, the information available was frequently incomplete (the beam, target, and momentum are the most likely items of experimental information to be present).

b) 1969-73

For this period we began with pre-existing databases, as above, but supplemented them with Nuclear Science Abstracts (NSA). For the latter, the bibliographic information was obtained from the NSA tape; experimental information encoding was done from the abstract only, so it is generally incomplete. Hence, for this period we have most documents, but many of them are not fully encoded (here again, beam, target, and momentum are the most

likely items of experimental information to be present).

c) 1974–October 1977

For this period, we have obtained most experimental documents, and most of them are fully encoded. All available documents in the SLAC file of Preprints in Particles and Fields (PPF) which met the criteria described in Section I above were completely encoded. If the document subsequently appeared on the SLAC Anti-Preprint File (APF) as having been published in a journal or elsewhere, we made the new reference into the "primary" reference, but retained the preprint reference. For non-preprinted papers, we entered papers found from a search of NSA and its successor, the Energy Data Base (EDB), encoding in this case from the document itself. However, not all conference proceedings and book articles have as yet been fully encoded.

d) October 1977–mid 1978

A few preprints dated later than October 1977 have been fully encoded; the rest, up to mid 1978, partially encoded. We expect that subsequent editions of this compilation will be much more up-to-date, now that most of the start-up bugs have been worked out.

It should be understood from the above that many documents are only partially encoded. The indexing for such documents is therefore also incomplete.

C. USE OF INDICES AND LISTINGS

The Indices (Part II) may be used to search for documents covering desired subjects. The Summary Listings (Part IV), ordered by Short Code, give all the information which has been encoded for each document. The user is advised to consult the following brief discussion of each Index and the Summary Listings. The Indices have been designed so that for many purposes the Summary Listings need not be used.

1) Short Code

When a document first enters the database, it is assigned a unique identifier, called the Short Code. We use the Short Code throughout this compilation to refer to the document itself. For all documents except experiment proposals, the Short Code is constructed from the first author's last name followed by the year of issue (e.g., JONES 76); if no authors are listed, the Short Code is made up from a mnemonic for the institutions or the collaboration. If more than one document has the same first author and issue year, subsequent Short Codes have a letter appended for uniqueness (e.g., JONES 76B, JONES 76C,

...). Since we allow only 16 characters for the Short Code, some long author names are truncated. The Short Code is based on the first version of the document received (often a preprint), so the year of issue used in the Short Code may be earlier than the date of publication, and, in rare cases, the name of the first author of the journal publication may be different from the name used for the Short Code.

Experiment proposals have Short Codes beginning with the accelerator name. For real proposals the proposal number assigned by the accelerator laboratory is appended. For pseudo-proposals the letters XXX plus one or more letters assigned for uniqueness (as in, e.g., FNAL-XXXZ, FNAL-XXXAA ...) are appended.

2) Discussion

The first page of each Index contains a users' guide, including an illustrative key, references to relevant Vocabularies (Part III), and, in some cases, suggestions on how best to use the Index. All Indices refer to documents by their Short Codes.

The Indices and Summary Listings cover all documents, including proposals. However, pseudo-proposals appear only in the Experiment and Short-Code/Reference/Experiment Indices (and then only those linking more than one paper); they do not appear in the Summary Listings. In addition, reviews and compilations appear in separate Beam/Target/Momentum and Particle/Particle-Property Indices; in the Short-Code/Reference/Experiment Index they are identified by the word RVUE or COMP in parentheses. They do not appear in any other Index. In the Summary Listings they are mixed among the other documents.

Table I shows the number of entries in each index. A single document may have multiple occurrences in this table.

a) SHORT-CODE/REFERENCE/EXPERIMENT INDEX

If the Short Code of a document is known, or can be deduced from a known first author and date, the Short-Code/Reference/Experiment Index can be used to find quickly the reference(s) and the experiment (if the document has been linked to one). One can then go directly to the paper itself, if desired, rather than the Summary Listings. This Index could also be used to find the journal reference corresponding to a given preprint. If an experiment is indicated, the complete list of documents from the same experiment can be found in the Experiment Index (see below).

b) BEAM/TARGET/MOMENTUM INDEX

The Short Codes of all documents discussing reactions with a desired beam and target at a desired beam momentum may be found with this Index.

This Index is ordered first by beam and target according to particle type, as discussed in the Particle Vocabulary, Section III.A. Reactions for which no target was indicated (such as beam decays or cases where the target was unknown) come last.

For a given beam and target, the documents are ordered by beam momentum (or the lower limit of beam momentum if a range of momenta was covered). Beam momentum is given in equivalent lab momentum in GeV/c for a stationary target, except for $e^{\pm}e^{\mp}$ and $e^{\pm}e^{\pm}$ collisions, where the total center-of-mass energy in GeV is given.

A separate Index, following the above, is given for reviews and compilations.

c) REACTION/MOMENTUM INDEX

The Reaction/Momentum Index is an expansion of the Beam/Target/Momentum Index to include final states. The Index is ordered first on beam and target particle in type order, as discussed in the Particle Vocabulary, Section III.A. For a given beam and target, the reactions are ordered by increasing number of particle names in the final state (note that some particle names represent groups of particles – see the Particle Vocabulary, Section III.A), then by final-state-particle type, then by lab momentum (which is given as in the preceding index). A complete list of reactions in the order they appear in this Index precedes the Index. For many of the documents in the Index, we also give data descriptors indicating the reaction properties studied; a list of these descriptors is given in the Reaction Data Descriptor Vocabulary, Section III.B.

d) FINAL-STATE-PARTICLE INDEX

All particles appearing in the final state of any reaction studied in a document, with the exception of the most common particles [P, PI+, PI-, PIO, K+, K-, N, NUCLEON, P(SPECT), and N(SPECT)], are indexed here. The particles are ordered by type, as described in the Particle Vocabulary, Section III.A.

e) PARTICLE/PARTICLE-PROPERTY INDEX

Those documents which report the measurement of an intrinsic property of a particle are listed in this Index. The Index is ordered according to particle type (see the description in the Particle Vocabulary, Section III.A), and lists both the particle and a descriptor for the particle property. A list of allowed particle property descriptors is given in the Particle Property Vocabulary, Section III.C.

A separate Index, following the above, is given for reviews and compilations.

For a more complete and critical compilation of references to particle property measurements, the user should refer to the Review of Particle Properties [3].

f) ACCELERATOR/DETECTOR INDEX

This Index lists documents ordered first by accelerator, then by detector, alphabetically. The full list of accelerator names is given in the Accelerator Vocabulary, Section III.D, that of detectors in the Detector Vocabulary, Section III.E. Some large detectors are listed by a specific name, others are given generic names chosen from a brief list (WIRE, CNTR, SPEC, etc.). Users seeking a given experiment should look under all names possibly applicable.

g) EXPERIMENT INDEX

This Index lists documents grouped alphabetically by experiment (i.e., the Short Code of the proposal for the experiment), as determined by the linkage procedure discussed in Section I.B.2 above. We list the proposal for the experiment followed by the Short Codes of all documents recognized as coming from that experiment. To find the experiment corresponding to a given document, refer first to the Short-Code/Reference/Experiment Index, Secton II.A. Documents not successfully linked to an experiment are not listed.

h) DOCUMENT SUMMARY LISTINGS

The most complete information is given in the Document Summary Listings, which are on fiche. An illustrative key to a sample page from the Listings is given in Part IV.

The Listings contain synopses of all documents (excluding the pseudo-proposals), ordered alphabetically by Short Code. The Listings contain information not in the Indices, such as authors, institutions, titles, collaboration names, and, occasionally, comments.

Table I

Index	No. of entries
SHORT-CODE/REFERENCE/EXPERIMENT INDEX	12200
BEAM/TARGET/MOMENTUM INDEX	20500
REACTION/MOMENTUM INDEX	51000
FINAL-STATE-PARTICLE INDEX	10600
PARTICLE/PARTICLE-PROPERTY INDEX	3100
ACCELERATOR/DETECTOR INDEX	7600
EXPERIMENT INDEX	3300
TOTAL NUMBER OF DOCUMENTS	12200

ACKNOWLEDGMENTS

We wish to acknowledge gratefully the efforts of Patricia A. Johansen in the production of this book, and John Alcock who assisted with comments and suggestions. We wish also to mention the Lawrence Berkeley Laboratory Computer Center and the Technical Information Division, which provided advice and assistance.

REFERENCES

1) D. R. Richards, "BDMS – Berkeley Database Management System – User's Manual", LBL–4683 (1978).

2) C. G. Wohl, et al. (Particle Data Group), "Compilation of Current High Energy Physics Experiments", LBL–91 (Sept. 1978).

3) C. Bricman, et al. (Particle Data Group), "Review of Particle Properties", *Physics Letters* 75B, No. 1 (1978).

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Short Code and/or page number in LBL–90	ERROR/COMMENT/SUGGESTION
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Particle Data Group
Attn: DOCUMENTS
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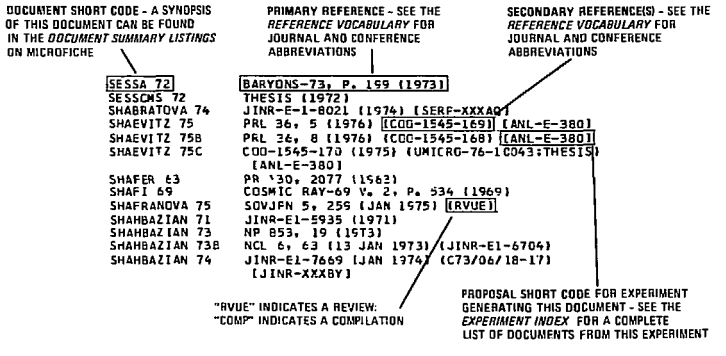
Lawrence Berkeley Laboratory
Berkeley, CA 94720
USA

PART II
INDICES

SHORT-CODE/REFERENCE/EXPERIMENT INDEX

For documents with known Short Codes, use this Index to locate reference(s) and experiment Short Codes. The primary reference (the journal reference, if there is one, otherwise a preprint reference) is given first, followed by all secondary references (e.g., preprint references) in parentheses. If no reference appears, or if the reference is not adequate to permit the document to be obtained (as in the case of many preprint report numbers), consult the Summary Listings on microfiche for a list of authors and institutions. If the document has been linked to an experiment, the proposal Short Code appears last, in square brackets.

ILLUSTRATIVE KEY



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AACHEN 73 JINR-E-6847, P. 30 (1972) [CERN-XXXPH]
AAHLIN 76 NP B107, 476 (17 MAY 1976) [CERN-XXXUB]
AAHLIN 77 USIP-77-11 (APR 1977) [CERN-XXXUB]
AAHLIN 77B USIP-77-27 (OCT 1977)
AAMOND 52 PR 88, 739 (1952)
AARON 77 NUB-2350 (MAR 1977)
AARON 78 NUB-2350 (MAR 1978)
ABASHIAN 58 PRL 1, 255 (1958)
ABASHIAN 70 COO-1195-187 (JUN 1970) [CONF-700806-16]
ABASHIAN 75 PRL 34, 691 (1975) [COO-1195-336] [ANL-XXX5J]
ABASHIAN 75B PR D13, 5 (1976) [COO-1195-345] [ANL-XXXBJ]
ABBOTT 75 RL-75-089 (OCT 1975) [C75-06-23+ 23]
ABDILOW 77 JINR-E1-10334 (OCT 1976)
ABDIVALIEV 75 NP B99, 445 (1 DEC 1975)
ABDIVALIEV 77 JINR-P2-10770 (JUN 1977)
ABDO 73 JINR-E1-7546 (NOV 1973)
ABDO 74 JINR-E1-8021 (JUN 1974)
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ABDULLAEV 71 IANSF 35, 2065 (OCT 1971)
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ABDULLAEVA 71 CANUS 71-12, 17 (1971)
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ABDURAKHIMOV 72D SJNP 15, 546 (1973) (JINR-P1-6491:YF 16, 989)
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ABDURAKHIMOV 73C SJNP 17, 644 (1973) (YF 17, 1235) [SERP-EXXBJ]
ABDURAHMIOV 73E SJNP 18, 642 (1974) (YF 18, 1251) [SERP-EXXBJ]
ABDUKAKHIMOV 74 SJNP 20, 507 (1975) (YF 20, 954:JINR-P1-7680)
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ABDURAKHIMOV 74D SJNP 19, 54 (1974) (JINR-P1-7268:YF 19, 103)
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ABDURAKHIMOV 74E SJNP 18, 281 (1974) (JINR-P1-7103:YF 18, 545)
[SERP-EXXBJ]
ABDURAKHIMOV 74F SJNP 20, 205 (1974) (YF 20, 384:JINR-P1-7688)
[SERP-EXXBJ]
ABDURAKHIMOV 74G SJNP 19, 532 (1974) (YF 19, 1039) [SERP-EXXBJ]
ABDURAKHMANO 74 NP B74, 1 (18 MAY 1974) (INP-8809) [SERP-EXXCJ]
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ABDUZHAMILOV 75 SJNP 21, 78 (1975) (YF 21, 150)
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ABESALASHVIL 73 JINR-P1-7027 (1973)
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ABESALASHVIL 74B SANG 75, 577 (SEP 1974) [SERP-EXXBJ]
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ABILLON 75 LPC-T-75-01 (1975)
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ABOLINS 65 PRL 15, 225 (1965)
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ABOLINS 70 PRL 25, 126 (13 JUL 1970)
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ABOLINS 76 HASHVILLE-76-1 (MAR 1976) [C76-03-01-2]
ABOLINS 76B PRL 37, 417 (1976)
ABRAHAM 62 NC 26, 717 (1962)
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ABRAMIAN 75B BALATON SYMPOS-74 P. 365 (1975)
ABRAMOV 73 ITEP-72 (1973)
ABRAMOV 73B ITEP-71 (1973)
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$K^+ p$ —
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Barloutaud 70
Bashkirtsev 82
155E6
–mult + X
3.2 0
Chliapnikov 79
Aghanim 73B
Barloutaud 70
100
Garbutt 78
155E6
Bashkirtsev 82
–mult prong
p
–mult prong
pion
3.2 0
Aghanim 73B
+mult Σ⁻ X
155E6
Bashkirtsev 82
–mult Σ⁻ X
155E6
Bashkirtsev 82
–mult Σ⁻ X
155E6
Bashkirtsev 82
–mult Σ⁻ X
155E6
Bashkirtsev 82
–n Σ⁺ X 2.160
12.0
Aghanim 73
–Ω⁻ X
70.0
Day 83B
–p X
4.00
Beer 77
Beer 76D
4.00 – 150
Wegeberg 77
6.00
Beer 77
Beer 76D
8.00
Takeda 78C
Beer 77
Beer 76D
10.0
Beer 77
Beer 76D
12.0
Takeda 78
Beer 77
Beer 76D
15.0
Beer 77
Beer 76D
16.0
Azimov 76
20.0
Takeda 78
Beer 77
Beer 76D
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Beer 77
Beer 76D
29.0
Antipov 76F
32.0
Verbeure 78
Dowell 77
44.0
Antipov 76F
70.0
Dowell 84B
Barth 80
75.0
Takeda 78
100
Bronner 81
Conforto 81
Ashenfelter 80B
Cool 80
Cutts 79
Bronner 78
Cutts 78B
125
Takeda 78
150
Bronner 81
Beer 76D
175
Ashenfelter 80B
Cutts 79
Bronner 78
Cutts 78B
200
Cool 81
250
Beer 76D
–F X
300
Bronner 81
Ashenfelter 80B
Cutts 79
Bronner 78
Cutts 78B
150
Bronner 81
175
Ashenfelter 80B
Cutts 79
Bronner 78
Cutts 78B
–ν X
< 100
Ammosov 82F
$K^+ p$ —
–ν X
3.2 0
Grashin 83C
Azimov 82
Chliapnikov 83
Gaidarov 82B
Chliapnikov 80B
Dobrynin 80
Dowell 80B
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Grant 77
Davis 81
Barth 82
Barth 82B
Grashin 82B
Davis 80
–ν̄ X
Beer 77
Beer 76B
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BEAM/TARGET/MOMENTUM INDEX

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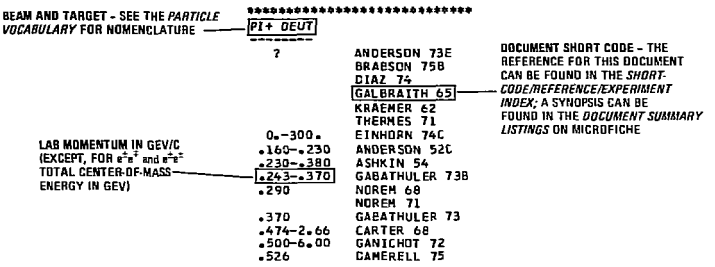
ILLUSTRATIVE KEY



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	BUSSEY 76		5.50	SCHACHTER 77		12.0-38.8	BELCUSOV 75		+500-.900	BENEVENTANO 74
	DALMAGNE 70		5.50-6.50	DESY-136		13.0	STEIN 75			HEMMI 70
3.00-4.00	PELLMANN 73		5.50-9.00	SCHACHT 74		13.0-21.0	PREPOST 75			HEMMI 73B
3.00-6.00	DITTMANN 71		5.50-45.0	SWANSON 71		13.8	BOYARSKI 71B		+500-1.00	NEUGEBAUER 69
	LU 70		5.50-18.0	PARK 71			KAUNE 74		+520-1.25	SCHEFFLER 72
3.00-6.30	SCHACHT 74		5.60	SANDLER 71			QUINN 73		+500-2.20	KADANSKY 75
	STRUCZINSKI 71		5.80	BRAUNSCHWEIG 70		14.0-300.	FNAL-025A		+515	BENEVENTANO 70
3.00-6.50	KNASEL 65			ERBE 69		14.5	KOGAN 75		+530	GANENKC 72D
3.00-7.00	DEUTSCH 72		5.00-17.0	ANDERSON 69E		15.0-16.0	SHERDEN 73		+530-.908	NESS 75B
3.00-9.25	MCCLELLAN 71		6.00	ANDERSON 71B		16.0	STEIN 75		+550-.900	GONCHAROV 71
3.00-18.0	SCHACHT 73			ANDERSCN 76		16.0	BOYARSKI 69C		+600-1.25	SCHEFFLER 70
3.20-3.70	BUSCHHORN 71B			BERGER 73B			BOYARSKI 71B			SCHEFFLER 74
3.13-16.2	BARBUR 76			BRAUNSCHWEIG 70B			MORENOUSE 70			WALDEN 72
3.20	BURFEINDT 73B			BURFEINDT 73			MOREHOUSE 70B		+610-.810	KNIES 74
3.20-3.70	BUSCHHORN 71B			BURFEINDT 74			QUINN 75		+700	ALTHOFF 76C
3.40	BURFEINDT 70B			CRIEGEE 73		17.8	KOGAN 75		+714	BENEVENTANO 70
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	GEMENIGER 68			LOE 72			TOMPKINS 69		+900-5.30	BENZ 74
3.40	GEMENIGER 68			SLAC-E-108		18.0-185.	CALDWELL 78		1.10-1.30	JUREWICZ 77B
3.40-5.00	JOSEPH 67			TOMPKINS 69		18.2	MARTIN 74E		1.20	KRIVETS 74
3.41	BARYAM 67		6.00-7.50	KNASEL 69C		19.0	GILMAN 75C		1.70-2.00	ITO 70
3.50	MCCLELLAN 71C		6.00-15.0	ANDERSON 70F		19.5	CAMERINI 75		2.60-6.00	MEIDE 68B
3.50-6.00	MORI 69		6.00-18.0	BARISH 74H		20.0	STEIN 75		3.40	GEMENIGER 68
3.70-8.20	ALEXANDER 73D			LIU 72		20.3-60.0	FNAL-152B		3.40-5.00	DESY-126
3.70-18.3	CALDWELL 75			TOMPKINS 69B		20.0-200.	FNAL-263		3.41	BARYAM 67
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3.70-400.	WHITMORE 75C			MALPERN 76			CALDWELL 76B		4.00	BOLON 71
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.319-.819	ENDO 73
.350	ANTUFEV 72
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.570	BABA 75
.581-.650	ALEKSANDROV 69
.617	NOGUCHI 75
.620	BABA 75
.670	BABA 75
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GAMMA NI

.500	GRISHAEV 76

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.0066	RCBERTSON 72
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.617	NOGUCHI 75
.850-.930	DUDKIN 76
.900	BACCI 69
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1.50-5.70	HEYNEN 71
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.900	BACCI 69
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3.00	ABRAMYAN 73B
3.50-8.30	MEYER 71
4.28	ABRAMIAN 75
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4.40	BROWMAN 74B
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4.80-7.20	ALVENSLEBEN 70F
5.40	HEYNEN 71
5.50	SCHMITZ 70
5.70	BRACCINI 70
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14.0	RITSON 76
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1.00-15.0	LEE 72	
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>2.00	CAZZOLI 75C	
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15.0-200.	CHAPMAN 76	
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0.-4.30	CUNDY 70	
0.-6.00	BARISH 76D	
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0.-14.0	LEE 76K	
.200-1.50	BARISH 75B	
.500-4.00	GARFINKEL 76	
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>10.0	BERGESON 73	
12.0-200.	HOLDER 77E	
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135.	BARISH 74B	
200.	BENVENUTI 77B	
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?	GERRICK 75B	
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	CAZZOLI 75C	
>2.00	CAZZOLI 75C	

NU C

?	BONETTI 69	
	SEILER 70	
1.50	BORER 69C	

NU AL

?	SEILER 70	
0.-.650	HOLDER 69	
1.50	BORER 69C	

NU SI

?	SEILER 70	
0.-30.0	ABRAHAM 75	
1.50	BORER 69C	
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?	ANDRYUSHIN 73	
	ASHTON 73	
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	REINES 69	
0.-14.0	NGUYENKHAC 75	
0.-20.0	BORER 69B	
>1.00	REINES 72	
1.00-6.00	DEGRANGE 72	
1.00-12.0	BUDAGOV 69B	
	PULLIA 72	
1.00-14.0	FRY 75	
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>1.20	MASHOU 72	
1.50-13.0	ROLLIER 75	
2.00	BLIETSCHAU 77	
5.30-150.	JUNG 75	
53.0-120.	HOLDER 77	

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?	BERGKVIST 69	
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0.-14.0	WACHSMUTH 73B	

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?	GURR 72B	

ANU P

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0.-100.	DERRICK 76	
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.400-14.0	SULAK 76	
.500-14.0	CLINE 76C	
1.00-14.0	EICHTEN 72B	
5.00-100.	DERRICK 77B	
20.0-220.	BOSETTI 77	
22.0-1500	ALBINI 75B	

ANU N

0.-14.0	LEE 76K	
1.00-14.0	COREMANS 76	
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ANU NUCLEON

?	EICHTEN 73	
	EICHTEN 73B	
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0.-14.0	HASERT 74	
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.0040-400.	SCIULLI 75B	
1.00-12.0	BLIETSCHAU 76B	
1.00-11.0	DEDEN 74	
1.00-14.0	BORISOV 73	
	HAGUENAUER 74	
2.00	COMTET 75	
10.0-140.	IMLAY 74	
13.0-150.	BENVENUTI 76	
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	REINES 68	
0.-.100	JENKINS 69	

ANU FE

10.0-150.	HOLDER 77F	

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1.00-12.0	MORFIN 72	
1.00-14.0	PULLIA 72	
1.50-10.0	ROLLIER 75	
60.0-120.	HOLDER 77	

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?	HOLDER 77J	
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NU-UNSPEC NUCLEON

?	CLINE 75B	
	GOR 77	
0.-120.	CLINE 75B	
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NU-UNSPEC NUCLEUS

?	CARRIGAN 74C	
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2.00-10.0	KHCVANSKII 75	

NU-UNSPEC

?	COMGOATSKII 75	
	MARGOLIS 77	
	MARRINER 77	
	REINES 71	
	VOLODYA 73	
0.-14.0	LEE 76F	
1.00-14.0	KLUTTIG 77	
3.E+08	BEREZINSKII 73	

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?	VIALLE 74	
0.-400.	FNAL-310	
5.00-70.0	FNAL-045?	
10.0-100.	FNAL-27?	

NUE P

0.-400.	FNAL-310	
1.00-8.00	FNAL-565-639	
1.00-14.0	CNOPS 76	
5.00-70.0	FNAL-045A	
10.0-200.	SCOTT 76	
20.0-200.	BODEK 75B	

NUE N

0.-400.	FNAL-310	
1.00-8.00	BNL-565-639	
1.00-14.0	CNOPS 76	

NUE NUCLEON

1.00-13.0	HASERT 75B	
1.00-14.0	CNOPS 76	
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20.0-60.0	CAMERINI 76	
20.0-80.0	BARISH 76F	

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NUE NUCLEUS

2.00-33.0	BARANOV 77D	

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7	VIALLE 74
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.0345-.0503	REINES 71B
3.00-5.00	GURR 72
10.0-100.	FNAL-253

ANUE P

0.-400.	FNAL-310
1.00-8.00	BNL-585-639
5.00-70.0	FNAL-045A
10.0-200.	SCOTT 75

ANUE N

0.-400.	FNAL-310
1.00-8.00	BNL-585-639

ANUE NUCLEON

1.00-10.0	HASEFT 75B
2.00-30.0	BARANOV 77C
10.0-140.	BENVENUTI 76C
20.0-80.0	BARISH 76F

ANUE NE

10.0-100.	BURNETT 77

ANUE

7	REINES 74

NUMU E-

7	HASERT 73
	VIALLE 74
0.-10.0	BNL-629
0.-400.	FNAL-310
1.00-1.50	BNL-613
1.00-5.00	BNL-605
1.00-14.0	KLUBERG 74
	MUSSET 74C
4.00	BNL-585-639
5.00-70.0	FNAL-045A
10.0	BNL-585-639
10.0-100.	FNAL-253

NUMU P

7	FNAL-247
	ROUSSET 74B
0.-4.00	ANL-E-412
0.-7.00	BARISH 74E
0.-10.0	BNL-427
	BNL-629
0.-14.0	HAGLENAUER 75
	LEE 74B
0.-200.	FNAL-053A
	SCIULLI 74
0.-400.	FNAL-310
0.-6.00	GARFINKEL 75
0.-12.0	BNL-613
0.-14.0	CLINE 76B
	LEE 74B
0.-20.0	LEE 76E
.140-1.50	BARISH 74C
	BARISH 74D
.200-2.30	MUSGRAVE 75B
.250-2.50	DERRICK 73
.500-5.00	BARISH 76E
1.00-5.00	BNL-605
1.00-6.00	SAMIOS 75
1.00-8.00	BNL-585-639
1.00-10.0	VIALLE 75
1.30-14.0	PULLIA 74
2.00	CAZZOLI 75E
2.00-3.50	BNL-693
3.00-5.00	BNL-693
4.30	BNL-585-639
4.30-19.0	CERN-T-224
5.00-70.0	FNAL-045A
10.0	BNL-585-639
10.0-50.0	FNAL-328
10.0-100.	FNAL-001A
	FNAL-151A
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10.0-140.	BERGE 75C
	COFFIN 76
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14.0-140.	FARRAR 77C
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25.0-400.	VANDERVELDE 76
28.0-43.0	FNAL-388
35.0-64.0	FNAL-388
53.0-150.	FNAL-380
70.0	FNAL-254
91.0-95.0	FNAL-388
100.	FNAL-320
130.-215.	RUBBIA 74
131.-143.	FNAL-388

NUMU N

7	ROUSSET 74B
0.-.230	BNL-734
0.-.400	BNL-706
0.-4.00	ANL-E-412
0.-10.0	BNL-427
	BNL-629
0.-14.0	CLINE 76B
	HAGLENAUER 75
	LEE 74B
0.-400.	FNAL-310
0.-14.0	LEE 74B
0.-20.0	LEE 76E
.0624-4.32	YOSHIKI 74
.200-2.30	MUSGRAVE 75B
.200-2.50	MANN 73B
.200-3.00	BARISH 77B
.250-2.50	DERRICK 73
1.00-5.00	BNL-605
1.00-6.00	CAZZOLI 76B
1.00-8.00	BNL-585-639
1.00-10.0	VIALLE 75
2.-.3-3.50	BNL-693
3.00-5.00	BNL-693
4.00	BNL-585-639
4.00-19.0	CERN-T-224
13.0	BNL-585-639
13.0-130.	FNAL-151A
	FNAL-227
45.0	BARISH 74C
125.	BARISH 74G

NUMU NUCLEON

7	DEDEN 75
	HAGLENAUER 74B
0.-3.00	MESSING 75
	VIALLE 76
0.-30.0	ASRATYAN 75C
0.-11.0	HAGUENAUER 74B
0.-14.0	MORFIN 76
	MUSSET 73B
0.-20.0	LEE 76D
0.-140.	BARGER 76B
	ECSEETI 76
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1.00-10.0	DEGRANGE 74
	VIALLE 75
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1.00-14.0	HAGLENAUER 76
	LAGARRIGUE 75
	MANSOULIE 74C
2.00	DEDEN 75
	DEDEN 77
	MANSOULIE 76
3.00-10.0	SACTON 76
6.00-150.	BENVENUTI 74E
13.0-100.	BENVENUTI 76E
13.0-140.	AUBERT 74
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	BENVENUTI 75D
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	BENVENUTI 76B
	BENVENUTI 76C
	MANN 75
	MESSING 75
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13.0-160.	BENVENUTI 74D
23.0-180.	SCIULLI 76B
25.0-75.0	BARISH 73A
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	BARISH 73H
25.0-170.	BARISH 74K
26.0-54.0	BABAEV 73B
36.0	HAIDT 76
50.0-150.	BENVENUTI 7T
130.-170.	BARISH 73E
	BARISH 73G
	BARISH 73H

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130.-275.	RUBBIA 74

NUMU DEUT

0.-7.00	BARISH 74E
0.-10.0	BNL-427
0.-8.00	BARISH 76C
	GARFINKEL 75
	GARFINKEL 76B
.200-2.00	MUSGRAVE 75B
.500-2.50	DARISH 76E
1.00-6.00	SAMIOS 75
10.0-100.	FNAL-151A

NUMU C12

0.-.230	BNL-734

NUMU NE

0.-200.	FNAL-053A
0.-200.	CNDPS 77
5.00-155.	FNAL-028A
14.0-140.	BALTAY 77B
28.0-43.0	FNAL-388
35.0-64.0	FNAL-388
50.0-150.	FNAL-380
91.0-95.0	FNAL-388
131.-143.	FNAL-388

NUMU FE

0.-140.	BENVENUTI 75F
0.-200.	CERN-WA-001
14.0-140.	AUBERT 74F
30.0-200.	HCLDER 77B
	HOLDER 77C

NUMU PB

0.-400.	FNAL-310

NUMU NUCLEUS

7	BERTRANDCORE 75C
	KRISHNASWAMY 75B
0.-140.	BARISH 75D
2.33-4.40	VONKROGH 76
1.00-10.0	HASERT 73B
1.00-14.0	BALDOCEOLIN 75B
	BERTRANDCORE 75B
	FAISSNER 75B
2.00-30.0	BARANOV 77D
	BARANOV 77E
4.00-19.0	CERN-T-245
5.00-35.0	AKERLOF 77B
10.0-100.	FNAL-001A
	FNAL-531
	FNAL-564
13.0-120.	BENVENUTI 75G
13.0-140.	BARISH 75K
	BENVENUTI 74
	BENVENUTI 77E
	WANGERER 77
13.0-150.	BARISH 75C
14.0-140.	AUBERT 74G
	BURMOP 76
43.0-330.	FNAL-321A
140.	BOSETTI 76B
300.	FNAL-921A

NUMU

7	FNAL-155
	FNAL-336
0.-140.	SCIULLI 73
	SHIELDS 73
1.00-14.0	MUSSET 75B
	NGUYENKHAC 75B
13.0-140.	MERRITT 75
	MERRITT 77B
10.0-150.	MORNETT 77B

ANUMU E-

7	BLIETSCHAU 76
	VIALLE 74
0.-14.0	HASSAT 75
0.-100.	FNAL-390
0.-200.	FNAL-180
0.-400.	FNAL-310
1.00-5.00	BNL-605
1.00-14.0	BERTRANDCORE 75
	KLUBERG 74
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ANUMU E- (CONT.)

	MUSSET 74C
	SACTON 76B
2.00	VANDONINCK 76
4.00	BNL-585-639
10.0	BNL-585-639
10.0-100.	FNAL-253

ANUMU P

0.-3.00	BNL-532
0.-14.0	ESCOBES 75
0.-100.	FNAL-031A
	FNAL-390
0.-130.	FNAL-172
0.-200.	FNAL-180
	SCIULLI 74
0.-400.	FNAL-310
.250-2.50	DERRICK 73
.500-6.00	DERRICK 77B
.500-7.00	DERRICK 76B
1.00-8.00	BNL-585-639
1.00-14.0	CAZZOLI 76C
4.00	BNL-585-639
4.00-19.0	CERN-T-224
10.0	BNL-585-639
10.0-50.0	FNAL-32C
10.0-140.	BARISH 75H
14.0-150.	BALLAGH 77
14.0-140.	FARRAR 77C
28.0-43.0	FNAL-388
35.0-64.0	FNAL-388
50.0-150.	FNAL-380
91.0-95.0	FNAL-388
100.	FNAL-320
130.-275.	RUBBIA 74
131.-143.	FNAL-388

ANUMU N

0.-130.	FNAL-390
0.-130.	FNAL-172
0.-200.	FNAL-180
0.-400.	FNAL-310
1.00-8.00	BNL-585-639
1.00	BNL-585-639
4.00-19.0	CERN-T-224
10.0	BNL-585-639
14.0	BARISH 74G
125.	BARISH 74G

ANUMU NUCLEON

7	BENVENUTI 75E
0.-3.00	VIALLE 74
0.-30.0	ASRATYAN 75C
0.-11.0	HAGUENAUER 74B
0.-150.	BERGE 76
1.00-8.00	LUTZ 75
1.00-10.0	DEGRANGE 74
	VIALLE 75
1.00-12.0	FRANCOIS 77
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FOR e e COLLISIONS WE GIVE THE TOTAL CENTER-OF-MASS ENERGY, RATHER THAN THE EQUIVALENT LAB MOMENTUM

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.0813-.141	COOPER 75B	

E+ P

?	ATWOOD 74	
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4.93	AZEMOON 74	
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15.0	ROCK 70	
18.0	ROCK 70	

E+ N

?	BODEK 73B	

E+ NUCLEON

?	BRASSE 76	

E+ DEUT

13.9	ROCHESTER 75	

E+ C

?	HARTWIG 77	

E+ AL

?	HARTWIG 77	
1.50-18.0	DELL 69	

E+ AU

1.50-18.0	DELL 69	

E+ NUCLEUS

.550-4.00	YUAN 70	
1.00	LIM 74	
2.00	LIM 74	
4.00	LIM 74	
4.50	LIM 74	

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.800	BHATTACHARYY 73	
1.23	BHATTACHARYY 73	
1.70	BHATTACHARYY 73	
5.00	JAIN 70D	
	WIXON 70	
14.5	JAIN 69	
	JAIN 70D	
	WIXON 70	

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?	BLOCH 72B	
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6.00	CAMILLERI 69B	
	CAMILLERI 69C	
	KRAMER 69	
7.30	KOSTOULAS 73	
11.0	CAMILLERI 69B	
	CAMILLERI 69C	
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12.0	BRAUNSTEIN 72	
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16.0	BALLAM 73B	
	BALLAM 74	
	BALLAM 74B	
	CARROLL 73	
17.0	CAMILLERI 69B	
	CAMILLERI 69C	
	KRAMER 69	
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100.-250.	CERN-NA-002	
	CERN-NA-004	
200.	FNAL-398	
225.	FNAL-398	

MU- N

?	DELPAPA 77	
100.	FNAL-098	
100.-250.	CERN-NA-004	
200.	FNAL-098	

MU- NUCLEON

21.0	BUSHNIN 76	
150.	CHEN 76D	

MU- DEUT

0.	PLACCI 70	
7.30	KIM 74D	
225.	FNAL-398	

MU- BE

5.50-9.00	JOSTLEIN 74B	
12.0	BNL-632	

MU- C

7	BATUSOV 74C	
	HOLSTEIN 76B	
7.20	MAY 75	

MU- AL

7.20	MAY 75	

MU- SI

0.	BADERTSCHER 77	
.166	KRIEGER 69	

MU- CA

.166	KRIEGER 69	

MU- FE

5.00-100.	NANDI 74	
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90.0	FNAL-319	
150.	FOX 74B	
150.	FNAL-319	
240.	FNAL-319	

MU- CU

0.	SASHIN 68	
.100	BRYMAN 72	
7.20	MAY 75	
12.0	BNL-632	

MU- BR

	VAISENBERG 70B	

MU- AG

	VAISENBERG 70B	

MU- SN

7.20	MAY 75	

MU- NUCLEUS

?	JAIN 73E	
3.00	JAIN 77	
8.00	JAIN 77	
10.1	JAIN 71	
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	JAIN 77	
12.0	BNL-632	
14.2	JAIN 70B	
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15.8	HICKEY 71	
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	JAIN 72B	
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	JAIN 73E	
	JAIN 74C	
56.3	CHANG 76F	
150.	CHANG 76F	
	FNAL-362	

MU+ E-

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14.3	HEUSCH 75G	
56.0	TAYLOR 75	
150.	ANDERSON 76M	
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	TAYLOR 75	

MU+ N

14.0	BUNNELL 77B	
14.3	ANDERSON 76N	

MU+ NUCLEON

7.20	MAY 75B	
21.0	BUSHNIN 76	
56.0	WATANABE 75	
56.0	CHANG 75D	
150.	WATANABE 75	
150.	CHANG 75D	
	CHEN 76D	

MU+ DEUT

7.20	MELISSINOS 75B	
147.	ANDERSON 76D	
	MEISTERBERG 76	
150.	ANDERSON 76M	

MU+ BE

5.50-9.00	JOSTLEIN 74B	
12.0	BNL-632	

MU+ C

7.20	MAY 75B	
	MELISSINOS 75B	

MU+ AL

7.20	MAY 75B	
	MELISSINOS 75B	

MU+ FE

7	FNAL-203A	
.425-.725	CHANG 75D	
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90.0	FNAL-319	
150.	FOX 74B	
150.	FNAL-319	
	FOX 74C	
	WATANABE 75B	
225.	FNAL-391	
240.	FNAL-319	

MU+ CU

7.20	MAY 75B	
7.30	MELISSINOS 75B	
12.0	BNL-632	

MU+ SN

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150.	CHANG 76F	

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150.	CHEN 75F	

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8.00-500.	AYRE 71	
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150.	HAND 74B	

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12.0	LAKIN 71	

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	DEROSNY 67	

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	HARRISON 72B	
	LYNCH 73B	
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	MATTHEWS 71C	
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	CH 69	
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	BUGG 73B	
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	PALER 71C	
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	GORIN 72C	
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100.	CARROLL 76E	
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PI+ HE

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.129	KOETKE 70	
.130-.201	JOHNSON 76D	
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.140	KOETKE 70	
.150	KOETKE 70	
.152	ALBU 73	
.154-.307	BALESTRA 76	
.156	BARBER 73	
.189	FALOMKIN 72	
.192	ALBU 76	
.195	FALCMKIN 74	
.207	BALESTRA 75	
	BALESTRA 75B	
	BALESTRA 76	
.236	ALBU 76	
.248	ALBU 76	
.256	ALBU 73	
.261	ALBU 76	
.265	BALESTRA 75	
	BALESTRA 75B	
	BALESTRA 76	
.610	HEAD 68	
1.00-3.00	ANL-E-406	
1.46	GAILLE 77	
1.72	GAILLE 77	

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1.86	GAILLE 77	

PI+ LI

.128-.417	BRESSANI 69	
.148-.434	CARROLL 76	
.176	NADEZHDIN 76	

PI+ BE

?	ALTHOFF 73B	
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150.	ANDERSON 75B	
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PI+ BGR

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PI+ C

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.0935	JOHNSON 77B	
.0963	JOHNSON 77B	
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.113	JOHNSON 77B	
.127	JOHNSON 77B	
.127	JOHNSON 77B	
.128	JOHNSON 77B	
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.163	BARBINI 75	
.176	BARBINI 75	
.215-1.93	BONETTI 69	
.225	FNAL-444	
.331	JACKSON 77	
1.00	SEGLER 70	
1.00-3.00	ANL-E-406	
2.01	GOBBI 72	
2.90	VORDEV 73	
	VORDEV 75	
	VORDEV 75B	

PI+ O

.0400	MALBROUGH 77	
.0500	MALBROUGH 77	
.128-.417	BRESSANI 69	
.385	ROHLIN 72	

PI+ NE

1.00-3.00	ANL-E-406	
3.50	CHAUDHARY 73	
10.5	ELLIOTT 74	

PI+ AL

.148-.434	CARROLL 76	
.192	JACKSON 77	
.328	JACKSON 77	
.500	BEISER 76	
1.00	BEISER 76	
	SEGLER 70	
2.00	BEISER 76	
3.00	BEISER 76	
9.50	ALESHIN 76C	
9.92	BLIEDEN 75	
10.0	GREEN 71	
19.2	GREEN 71	
50.0	MASUDA 76F	
100.	MASUDA 76F	
225.	ANDERSON 76K	

PI+ O

.0400	MALBROUGH 77	
.0500	MALBROUGH 77	
.128-.417	BRESSANI 69	
.385	ROHLIN 72	

PI+ NE

1.00-3.00	ANL-E-406	
3.50	CHAUDHARY 73	
10.5	ELLIOTT 74	

PI+ AL

.148-.434	CARROLL 76	
.192	JACKSON 77	
.328	JACKSON 77	
.500	BEISER 76	
1.00	BEISER 76	
	SEGLER 70	
2.00	BEISER 76	
3.00	BEISER 76	
9.50	ALESHIN 76C	
9.92	BLIEDEN 75	
10.0	GREEN 71	
19.2	GREEN 71	
50.0	MASUDA 76F	
100.	MASUDA 76F	
225.	ANDERSON 76K	

PI+ FE

?	MASSALSKI 71	
.148-.434	CARROLL 76	
.200	BEISER 76	
1.00	BEISER 76	
2.00	BEISER 76	
3.00	BEISER 76	

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.192	JACKSON 77	
.328	JACKSON 77	

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9.92	BLIEDEN 75	
10.0	GREEN 71	
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3.50	MULLER 75	
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PI+ PB		
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1.00	BEISER 76	
	SEGLER 70	
2.20	BEISER 76	
3.30	BEISER 76	
9.92	BLIEDEN 75	
10.0	GREEN 71	
19.2	GREEN 71	
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100.	MASUDA 76F	
300.	FNAL-304	
PI+ U		
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MAUNG 70	.140-1.49	GOLDHABER 62		CARROLL 68B	2.53	MUSGRAVE 74
.170 BUNYATOV 74B	.150-.600	LEA 68		CARROLL 68F	2.53-3.20	ABRAMS 70
	.175-1.45	BURNSTEIN 74B		MARTIN 77B		MUSGRAVE 74
PIP(II=1)	.200-.600	LEA 66		TEWKSBURY 69	2.50-6.00	BAKER 63B
	.321	BURNSTEIN 74	1.00-3.30	ABRAMS 70B	2.50-12.6	LINGLIN 73
.170 BUNYATOV 74B	.360-.720	COCCONI 57	1.00-7.00	LUNDBY 69	2.50-12.7	BINGHAM 72
	.360-.720	PETERSON 70B	1.00-200.	DRONKERS 75		BINGHAM 72B
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	.360-.720	BOWEN 70		CHUNG 75B	>2.50	HENRI 71
7 DURUSOY 73B	.400-.730	PETERSON 70B	1.20	BAILLON 75C	2.53	ABRAMS 70D
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	.430-.940	MICHAEL 73	1.21	HALL 69	2.53-3.20	MUSGRAVE 74
K+ E-	.432	BIRMINGHAM 71	1.21	BERTHON 73	2.53-12.7	FIRESTONE 72C
	.432-.939	ADAMS 73		HALL 70B	2.60	BAILLON 75C
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	.450-.600	CARRERAS 71	1.22-2.48	ANDERSSON 69		PATTON 75B
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	.479	FRAM 73	1.29	BERTHON 73		MUSGRAVE 74
7 ESTABROOKS 77	.500	ADAMS 73		LESCUDY 75		PATTON 75B
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7 HENRI 69	.588	BURNSTEIN 74B	1.33-2.58	EHRLICH 71C		WHITMORE 71
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7 WAGNER 74	.735-.785	FILIPPAS 67	1.50	BAILLON 75B		SALLSTROM 68
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170.	CARROLL 76E	1
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N CD			EROZDLIMSKII 70B
-----			EROZDLIMSKII 70C
5.70	PARKER 70B		EROZDLIMSKII 70D
12.0-14.0	CARITHERS 75		EROZLIMSKII 71
30.0-300.	FNAL-438		MILLER 74B
34.0-273.	JONES 74B		STEINBERG 76
	RAMANAMURTHY 75		WEINZIERL 71
34.1-270.	LONGO 75	0.	DRESS 76
**********			STEINBERG 76
N SN		1.E-04-.0314	
----			DOBROZEMSKY 75
27.0	BABAEV 73	.0314	SIMMONS 71
36.0	BABAEV 73	**********	
54.0	BABAEV 73	AN P	

		0.-.800	AML-E-303

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AN P (CONT.)		AP P (CONT.)		AP P (CONT.)		AP P (CONT.)		AP P (CONT.)	
.0500-.700	ENL-626			KALGGEROPOUL 74C		.690-2.43	EISENHANDLER 76	1.09-3.45	EM 72B
.200-1.90	GUNDERSEN 75			KOZIOWSKI 71		.696	KONNO 72	1.10	BURNS 73
.250-.750	REEDER 75			MARECHAL 69		.700	AGUILARBENIT 69B		BURNS 74B
.250-.800	SCHERER 74			MICHAEL 75G			AGUILARBENIT 69C		BURNS 75
.300-2.50	FRANKLIN 69			MOHRING 76			AGUILARBENIT 69D		EUPNS 75B
1.48	FETT 72			MONTANET 71			AGUILARBENIT 74	1.10	DUBOC 71B
3.00	DEKA 69			PAWLEWICZ 70			AGUILARBENIT 77		GOLDBERG 71
6.65	DENISOV 71D			ROOS 76B			CERRADA 75		MAROWSKI 72
13.3	DENISOV 71D			SKELLY 72			DEFOIX 71	1.10-1.20	DUBOC 71
50.0-300.	FNAL-305			SMITH 72			HIROSE 71		DUBOC 71C
**********				WADE 76			LORSTAD 69	1.10-1.44	DECRESPIGNDE 71
AN N				WILLIAMS 76		.700	NAMATSU 76		HANLON 72
-----		0.-.450		BNL-708		.700-.750	AGUILARBENIT 74		LIVERPOOL 72
6.65	DENISOV 71D	0.-.800		CLINE 71B			BOGDANSKI 75	1.10-1.47	BRIAND 71
13.3	DENISOV 71D	0.-1.20		DEFOIX 75			CHAUDHARY 74	1.10-1.80	ELIOFF 69
50.0-300.	FNAL-305	0.-2.50		GREENHUT 75B		.7. .760	AGUILARBENIT 77B	1.10-2.50	BAUDILLIER 76
**********		0.-300.		EINHORN 74C		.730-1.10	BURNS 75E	1.11	GAY 75
AN DEUT		0.-500.		GIDDENS 74			MANDELKERN 71	1.11-1.52	KALBFLEISCH 69
------		0.-.600		ANL-E-368			POOS 76B		KALBFLEISCH 71
6.65	DENISOV 71D	0.-.900		ANL-E-409		.700-1.20	AGUILARBENIT 69	1.13	ANGELINI 76
13.3	DENISOV 71D	0.-.900		ANL-E-303		.700-2.37	BARISH 69B		COLEBOURNE 74
**********		0.-1.00		CERN 75			YOH 70	1.14-1.49	PEASLEE 75B
AN FE		0.-2.90		MINDMA 74		.700-2.40	NICHOLSON 69	1.15	DUBOC 71B
-----		0.-10.0		FRANZEN 73			NICHOLSON 69B		GAY 75
25.0	BOLOTOV 74D	.100-.550		BIZZARRI 71B			NICHOLSON 71	1.18	BARLOW 67
35.0	BOLOTOV 74D			CLINE 71			NICHOLSON 73		DOBRZYNSKI 66B
**********		.100-.750		ENGLISH 73		.703-2.37	YOH 69B	1.20	ASTIER 67
AN NUCLEUS		.100-.800		BENVENUTI 71		.715	DEFOIX 73		CLAYTON 65
----------		.100-1000		MORRISON 72		.720	DEFOIX 72		COLEGROVE 70
.0043-1.70	BESCM 77	.137		GOLDBERG 69		.720-2.62	FONG 68		COUSINOU 72
50.0-300.	FNAL-305	.150-.280		HOSSAIN 65		.725	DEFOIX 76B		DANOLAU 65
**********		.190-.650		AGUILARBENIT 77B		.735	AGUILARBENIT 74		DANOLAU 68
AP P		.190-.750		DALKAROV 72			CERRADA 75		DEFOIX 68
-----		.200-.700		DRIS 75			SCHREMPP 75B		DOBRZYNSKI 66
?	AGUILARBENIT 74	.200-1.00		GUNDERSEN 75		.732	ALSTONGARNJO 75B		DONALD 68
	ALSPECTOR 73	.232		MIRISE 72		.737-2.20	COHEN 72B		DONALD 68B
	ANSORGE 75B	.250-.800		RUTZ 73		.753	AGUILARBENIT 74		DONALD 69
	ASTBURY 74			SCHERER 74			AGUILARBENIT 77		DONALD 69B
	ASTIER 69B	.265-.985		ALSTONGARNJO 75B			CERRADA 75		DUBOC 72
	BARKAS 57			BNL-634			KALGGEROPOUL 75		FRODESEN 69
	BERRYHILL 68	.270-.560		ALSTONGARNJO 75C			LOWENSTEIN 75		FRODESEN 70
	BNL-660	.276-.563		BNL-666		.760	AGUILARBENIT 77B		JEANNET 71
	CARLSEN 73	.300-.600		BIZZARRI 73		.767	ALSTONGARNJO 75B		MAKOWSKI 72
	CERN-MA-C01	.300-.700		CLINE 68C		.772	BURNS 73		MAKOWSKI 72
	CERRADA 75	.300-.750		CARSON 72			BURNS 74B		MEINKAEPT TTE
	CESC-1A 76			FRESEN 75			BURNS 75B	1.20-2.00	DEMARZO 75B
	EMEN 76C	.300-.800		BENVENUTI 72		.790-2.43	CARTER 77D		DEMARZO 75C
	GERRICK 75			BRUSH 74			EISENHANDLER 75	1.22-1.35	HANDLER 75D
	EVERETT 75			CLAPP 75			KALMUS 75	1.20-2.00	DEMARZO 75B
	FETT 75	.300-1.00		CHALOUPKA 76		.803-2.40	EISENHANDLER 73		DEMARZO 75C
	FNAL-236A	.301-.737		CARTER 77C			EISENHANDLER 74	1.22-1.35	HANDLER 75C
	FOLEY 69E	.330-.610		BIZZARRI 69B		.805-2.43	CARTER 77	1.20-1.60	COOPER 68C
	FOLEY 65	.346-1.77		ARMENTEROS 60			CARTER 77B	1.20-3.00	ENGLISH 66
	FRY 75B	.360-1.05		CARROLL 74		.813	ALSTONGARNJO 75B	1.20-1.46	BACON 73
	GALBRAITH 65	.362-.526		MONTANET 75		.861	BURNS 73	1.21-1.36	VALLET 71
	GREGORY 73B	.366		ALSTONGARNJO 75B			BURNS 74B	1.22-1.35	HANDLER 75B
	MINFICHS 61	.370		EKSPONG 59			BURNS 75B		HANDLER 75D
	JU 72	.396		GOLDBERG 69		.900-2.50	ALBROM 72	1.23	GAY 75
	KALMUS 75	.400		ALOUM 75		.927	ALSTONGARNJO 75B	1.23-1.43	BACON 71
	KALGGEROPOUL 74			BNL-662		.940	BURNS 70		DONALD 70
	KITAGAKI 74	.400-.600		DRIS 75B		.943	BURNS 71	1.23-1.35	HANDLER 75
	SCHULTZ 70B	.400-.900		CERN-5-149			BURNS 73	1.24-1.62	AMBATS 74
	SIMAK 75	.400-.800		ALSTONGARNJO 75B			BURNS 74B		ESCOBER 70B
	SPENCER 70	.406-.841		BRUCKNER 78			BURNS 75	1.26-1.65	ALLISCH 70B
	WADE 76B	.460		BNL-662			BURNS 75B	1.30	AITKENHEAD 74
	WAGNER 74	.460-.590		AGNEW 60		.943-1.10	BURNS 75D		GAY 75
	WHITMORE 75B	.464		DANOLAU 74		.965	ALSTONGARNJO 75B	1.36	GAY 75
3.	ASTIER 69			KELLY 76B		.973-3.13	CUTTS 74	1.38	BOGDANSKI 76B
	BASSCMPIERRE 76	.475		ALSTCGARNJO 75E			STORER 72	1.40	JENNI 75
	BASSOMPIERRE 76B	.500		ALOUM 75		1.00	ANGELINI 76	1.44	GAY 75
	BASSOMPIERRE 76C			BARCHI 59		1.00-1.60	ALSTCNGARNJO 74	1.50-2.04	DONALD 76B
	BASSOMPIERRE 77	.504		ALSTCNGARNJO 75E			HUESMAN 74		VUILLEMIN 72
	BIZZARRI 69	.550		BNL-662		1.00-2.00	YOH 70B		VUILLEMIN 76
	BIZZARRI 71	.558		ALSTCNGARNJO 75B		1.00-2.10	YOH 71	1.47-2.40	MARTILL 69
	BIZZARRI 71E	.575-5.35		AMALDI 64		1.00-2.50	BARISH 66	1.50	VUILLEMIN 75
	BLOCH 70	.583		ALSTCNGARNJO 75B		1.00-3.00	BRIEMAN 69B	1.50-2.00	BRENZIKOFER 75B
	BNL-643	.650-1.10		BURNS 73B			STORER 72	1.50-2.04	BRENZIKOFER 74
	CERN-5-135	.655		ALSTCNGARNJO 75B			STORER 74		DONALD 74
	CERN-5-142	.670-1.12		BURNS 75C		1.00-3.17	PITTMAN 72		DONALD 76B
	CERN-5-151			SCHULTZ 75		1.00-3.33	ABRAMS 67C		JAYET 74
	CHUNG 71	.678		ALSTCNGARNJO 75B			ABRAMS 70B		VUILLEMIN 74
	DEFOIX 74	.679		AGUILARBENIT 74		1.00-50.0	DUNDRALS 75		VUILLEMIN 74B
	DEFOIX 74B			CERRADA 75		1.00-233.	WHITMORE 75B		VUILLEMIN 74C
	DEVONS 71			ONSUGI 73		1.04	BURNS 73		VUILLEMIN 75B
	DEVONS 73	.686		BURNS 73			BURNS 74B		VUILLEMIN 76
	DIAZ 70			BURNS 74B			BURNS 75	1.50-2.05	BRENZIKOFER 74
	DRIS 75B			BURNS 75B			BURNS 75B	1.50-3.50	DM 75
	ESPIGAT 71	.686-1.10		BURNS 75C		1.04	ANGELINI 76	1.60	ARNOLD 75C
	ESPIGAT 72	.700		AGUILARBENIT 77B		1.05-1.91	DUBOC 74		FETT 75
	FOSTER 68B			CERRADA 75		1.05	GAY 75	1.61-1.65	DM 70B
	FRANKIEL 72	.700-.750		CERRADA 75		1.13-1.40	ROSSELET 75		PARKER 71
	GHESQUIERE 74	.706-1.10		BURNS 74		1.10-1.44	DECRESPINDEB 71	1.61-2.90	EASTMAN 73
	IHAO 76F			DONAHUE 75			ROSSELET 75		MA 73B
	JAMES 68			MANDELKERN 71		1.10-2.00	THORNTON 76		MA 73C
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1.59-1.63	BUTTON 61	2.69	DOMINGO 67	4.60	EVERETT 74		JASSELETTE 71
	LYNCH 61		DOMINGO 67C		EVERETT 74C		KITAGAKI 748
1.60	ALIGRAN 76	2.70	CRAWLEY 67		GREGORY 74		MANDZY 71
	ETKIN 71		FISHER 67		MASON 758	7.30	VANAPELDOORN 75
	FETT 75		FISHER 70		WARREN 75	7.20-12.0	FOLEY 63B
	FETT 77B		SCHROEDER 69	5.00	CERN-S-144	7.30	CERN-T-237
	HINRICHS 62		SEARS 68		CHABAUD 72C		VANAPELDOORN 74
1.60-2.20	CHAPMAN 68		SEARS 69		CHABAUD 72D		VANAPELDOORN 74E
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	CHAPMAN 72	2.74	ANDERSSON 69B		EIDE 73		SCHLEMPP 75B
	DAVIDSON 72B	2.80	BACON 69		FRENCH 75	7.90	CERN-WA-029
	LYS 70		BACON 70		LEE 73B		LEDU 73
	RING 70		BOASE 70		LUNDBY 72	7.98-8.02	BIRNBAUM 65C
1.61	BUTTON 62B	2.85	CRAWLEY 73E		SCHREMPP 75B	8.00	BEIER 760
	BUTTON 62C		HAFEN 73B		TREILLE 71		BEUSCH 70
	LYNCH 63	2.90	JESPERSEN 65	5.00-9.03	ASTBURY 66B		BIRNBAUM 69C
	LYNCH 63B		RADLINSKI 70		ASTBURY 66C		JENNI 77
	MAGLIC 61		SCHALK 69		POLGAR 68		LEDU 73
	MAGLIC 61B	3.00	BOECK 64	5.00-13.7	VONDARDEL 60B	8.00-16.0	BIRNBAUM 70B
	STEVENSON 62		BRABSON 72	5.10	BASTIEN 74	8.10	BNL-654
	XUONG 61		BROU 73	5.70	ACCENSI 66		CARLSSEN 76
	XUONG 61B		CERN 62		ALLESBORELLI 66		EVERETT 74B
	XUONG 62		DANYSZ 67		ALLESBORELLI 67	9.00	CARLSSEN 73
	XUONG 62B		DANYSZ 67B		ALLESBORELLI 67B		CARLSSEN 73B
1.62-2.20	LYS 66		GOLDSCHMIDT 62		ALLESBORELLI 67C		CARLSSON 73C
	LYS 73		HOFMOKL 64		ATHERTON 69		CHOUDHURY 74E
1.63	DAVIDSON 74		JACCO 77		ATHERTON 70		SLAC-RE-064
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1.63-2.20	CHAPMAN 70	3.00-3.60	ESCOUBES 63		ATHERTON 71C		CARLSSON 76
	FALCONER 69	3.00-4.00	CZYZEWSKI 66		ATHERTON 73		EVERETT 74C
1.64	EMRLICH 72		FRENCH 67		ATHERTON 74		GREGORY 74
1.73-2.97	DAUM 68B		MUSGRAVE 65		ATHERTON 74B		WARREN 75
1.75	DEMARZO 74	3.00-6.00	AMBATS 72		ATHERTON 76	9.13	WALCK 75
1.77	DAVIDSON 74		AMBATS 74		ATHERTON 76B	9.20	GREGORY 73
	GREEN 74	3.00-10.0	VONDARDEL 60		BOCKMANN 65	9.67-2660	SIDHU 74
1.80	ATWOOD 70	3.25	FERBEL 62B		BOCKMANN 66	9.70	GREAK 68
	JENNI 75	3.25	FERBEL 62		BOECK 65	10.0	BEIER 760
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1.83	DAVIDSON 74		RAJARAMAN 71		BOHM 74K		CERN-S-144
	GREEN 74	3.25-3.69	BALTAY 63		BOHM 75		JENNI 77
1.88	DAVIDSON 74		BALTAY 63C		BRAUN 71C		OLIVIER 71
	GREEN 74	3.28	SVENSSON 65		BRAUN 71E		REIBAL 73
1.95	CHAUDHARY 74B	3.28-3.66	BALTAY 65B		BRAUN 73E		CERN-EP-109
	DAVIDSON 74		FERBEL 65		BRAUN 73H	10.0-12.0	BNL-661
	GREEN 74		FERBEL 65D		BRAUN 74B	10.0-14.0	BORGHINI 71D
1.99	BUTTON 60		FERBEL 66		BRAUN 75	10.0-70.0	NAKAZUMI 75B
2.00	CHAUDHARY 74E		FERBEL 69		BRAUN 76	10.*	BRANDENBURG 75
	RKEL-115	3.30	BROWN 62		CVACH 74		CARNEGIE 75B
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2.19	KWAN 69C		CARLSON 69		FRODESEN 70		BERTRAND 77
	KWAK 74		DEBRAY 73		GAJDICAR 69		BORECKA 71
2.20	DAVIDSON 74	3.60	ATHERTON 70B		GANGULI 73B		CERN-T-243
	GREEN 74		ATHERTON 71B		LESTIENNE 73		LACH 73
	KWAK 72		ATHERTON 72		RAMFT 68	13.3	DENISOV 71D
	STRINGER 70		ATHERTON 740		ZACEK 74	14.0	OLIVIER 71
	STRINGER 71		BALTAY 64C	5.80	OWEN 69	14.7	DAO 74
2.30	ALLISON 72		BARTKE 74B	5.80-7.90	ASHMORE 68		DAO 74B
	ALLISON 73		DEBRAY 70B	6.00	BEIER 760		DAO 74C
	CRAWLEY 74		DEHNE 69		BNL-601		GORIN 73
	FIELDS 71		DEHNE 69B		BORGHINI 73		LACH 73
	FIELDS 71B		DELAVAISSIER 71		FOLUGE 75	15.0	BEIER 760
	FIELDS 72B		DELAVAISSIER 72		JENNI 77		BNL-671
	ROOS 76B		DONALD 76		OLIVIER 71		CERN-WA-029
2.32	ALLISON 73		FRENCH 74		PETERSON 70		GORIN 73
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	RHINES 71	3.66	BALTAY 66	GALBRAITH 65			CERN-EP-007
2.33	CRAWLEY 73		KATZ 67	6.20	BURAN 74		CERN-WA-010
2.40	JESPERSEN 69	3.69	BALTAY 63B		BURAN 74C	20.0-40.0	BABAEV 73C
	RADLINSKI 70		SVENSSON 65		BURAN 75	20.0-50.0	ALLADY 69B
	SCHALK 69	3.70-400.	WHITMORE 75C		BURAN 76B	20.0-60.0	DENISOV 71B
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30.0-60.0	FNAL-344		AYRES 76B		BRAUN 76	1.60-2.60	EASTMAN 72
30.0-200.	LACH 75		AYRES 76C		BRAUN 76B	1.63-2.20	FALCONER 69
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35.0	BOLOTOV 74D		FNAL-557	14.6	BRAUN 76		BACON 69
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40.0	ANTIPOV 72F	300.	FNAL-557		FRIDMAN 75	3.50	IJAZ 70
	ANTIPOV 73P	400.	FNAL-557		MICHALOWMENT 75		IJAZ 72
	ANTIPOV 74B		LALOUM 74C	15.0-60.0	DENISOV 73B		REYNOLDS 70
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	FNAL-324	-----			CARROLL 76E		BRAUN 73G
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	SCHWEMPP 75B		BERRYHILL 68	100.	CARROLL 74C	5.55	BRAUN 70B
50.0	AKERLOF 75		BRAUN 70B		CARROLL 76E		BRAUN 70C
	AKERLOF 76		CARC 75		FNAL-345		BRAUN 71B
	ANDERSON 76C		GALBRAITH 65	120.	CARROLL 76E		BRAUN 72
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?

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ANUE E-

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WILLIAMS 77

ANUE NUCLEON

1.00-10.0 FRANZINETTI 74

NUMU E-

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NUMU N

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0.-140. CLINE 76F
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1.00-10.0 BARISH 73
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1.00-14.0 MORFIN 75
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165. BARISH 76G

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FOR e⁺e⁻ COLLISIONS WE GIVE THE TOTAL CENTER-OF-MASS ENERGY, RATHER THAN THE EQUIVALENT LAB MOMENTUM

E- E-

.554 AVERDUNG 73

E- E+

1.60-2.00 ALLESSORELLI 71C

E- P

7 BERKELMAN 72
BERKELMAN 74
BERKELMAN 77
BLOOM 75B
BRASSE 74
CASSEL 78
CLEGG 74
DAYLER 76
MEYER 74E
MOFFEIT 74
PERL 74B
SOEDING 75
SPITZER 77
TALMAN 74
>0. GABATHULER 77
0.-52.8 HOHLER 76D
0.-7.00 CORDS 77
.300 AVERDUNG 73
.597-10.2 SOEDING 75
2.73 SOEDING 75
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E- DEUT

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4.50-19.5 TAYLOR 75C
20.5 HEUSCH 76C

E- C

.300 AVERDUNG 73
5.10 CORDS 77
5.40 CORDS 77

E- NG

.300 AVERDUNG 73

E- AL

5.10 CORDS 77
5.40 CORDS 77

E- SI

.300 AVERDUNG 73

E- PH

.300 AVERDUNG 73

E- SU

.300 AVERDUNG 75

E- AR

.300 AVERDUNG 73

E- FE

.300 AVERDUNG 73

E- NI

.300 AVERDUNG 73

E- ZN

.300 AVERDUNG 73

E- ZR

.300 AVERDUNG 73

E- MO

.300 AVERDUNG 73

E- PB

.300 AVERDUNG 73

E-

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FOR e⁺e⁻ COLLISIONS WE GIVE THE TOTAL CENTER-OF-MASS ENERGY, RATHER THAN THE EQUIVALENT LAB MOMENTUM

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.910-1.06 STRAUCH 74
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1.00-8.00 LUTH 77
1.00-1.40 SCHWITTERS 76
1.00-1.50 CHINOWSKY 74
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MU+ MU-

7 TSAI 73

MU+ P

14.0 HEUSCH 76C
56.0 WILSON 75B
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100.	LOVELESS 75B
150.	LOVELESS 75B
200.	LOVELESS 75B

AP DEUT

?	BRACCI 73
	KYCIA 74
	KYCIA 74B
0.	BOGDANOVA 75
0.-300.	FRIDMAN 77
>.300	KALOGEROPOUL 74B
4.72	FRICMAN 76B
>5.00	GIACOMELLI 76D
5.55	FRIDMAN 76B
	FRIDMAN 77
5.20	FRIDMAN 76B
10.0-200.	LOVELESS 75B
10.0-250.	WETHERELL 75
14.6	FRIDMAN 76B
50.0	KYCIA 74B
	LOVELESS 75B
50.0-200.	CODL 74B
100.	KYCIA 74B
	LOVELESS 75B
150.	KYCIA 74B
	LOVELESS 75B
200.	KYCIA 74B
	LOVELESS 75B

AP HE

?	BRACCI 73

AP

--

?	MORRISON 70B
	PEASLEE 73

NUCLEON NUCLEON

1.10	STEPHENSON 75B
1.40-1.93	STEPHENSON 75B

PI(I=1/2)

?	HERNDON 70
1.30-2.00	HERNDON 74

PI(I=3/2)

?	HERNDON 70
1.30-2.00	HERNDON 74

LAMBDA P

6.00-21.0	GIACOMELLI 72

LAMBDA N

6.00-21.0	GIACOMELLI 72

LAMBDA NUCLEON

?	*POVH 76B*

PILAM(I=1)

.392-1.54	LANIUS 76

KN(I=0)

.500-2.00	ALEXANDER 75D
.600-1.50	GIACOMELLI 76C
1.00-3.00	ALEXANDER 75D

KN(I=1)

.500-2.00	ALEXANDER 75D
.600-1.50	GIACOMELLI 76C
1.00-3.00	ALEXANDER 75D

DEUT BE

3.52	SCHROEDER 75B
5.81	SCHROEDER 75B

DEUT C

3.52	SCHROEDER 75B

T BE

5.25	SCHROEDER 75B

T

-

?	PONDRON 76

HE BE

7.00	SCHROEDER 75B

HE C

7.00	SCHROEDER 75B
11.6	SCHROEDER 75B

O BE

46.2	SCHROEDER 75B

NUCLEUS NUCLEUS

20.0-30.0	WECKMAN 74

QUARK

>0.	LANDSBERG 74B

COSMIC NUCLEON

?	DAS 77
>200.	SLAVATINSKII 75
1000-1.E+06	GAISSER 76

COSMIC NUCLEUS

?	HOSHINO 75B
70.0	GIBBS 74
100.-10000	GAISSER 74B
100.-20000	GAISSER 74B
100.-30000	SATO 76
1000	GAISSER 76D
10000	FIALKOWSKI 74
10000-1.E+06	
	GAISSER 77
>10000	GAISSER 77
	NIKOLSKII 70
100000	COLLINS 73
>100000	MCCUSKER 75
2.E+07	*GAISSER 76D*

COSMIC

?	SREEKANTAN 72

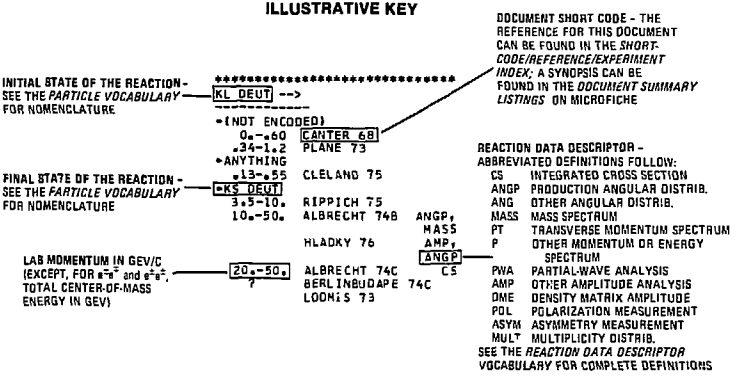
HADRON NUCLEON

?	LEDERMAN 76
	CREAR 72
	SODING 72
0.-1500	SIVERS 75B
1.00-10000	KANE 75B
5.00-70.0	CHLIAPNIKOV 76C
10.0-500.	LEITH 75

REACTION/MOMENTUM INDEX

Use this Index to locate documents discussing specific reactions, including final states, at a given beam momentum. A more complete discussion of this Index follows this illustrative key.

ILLUSTRATIVE KEY



1) Discussion

There are over 9100 distinct reactions in the database. Reactions are ordered first by beam- and target-particle type, then by number of particle names in the reaction (note that some particle names refer to groups of particles, as is discussed in the Particle Vocabulary, Section III.A), then lexicographically by the final-state-particle types, that is, treating the first listed final state particle as highest order, etc. The order of listing of particles within a final state is chosen to read in a natural manner. Finally, documents referring to a given beam, target, and final state are listed in order of beam momentum, which is given as equivalent beam momentum in GeV/c for a fixed target, except for e^+e^- and e^+e^+ collisions for which the total center-of-mass energy in GeV is given.

A + or − sign separated from other elements by blanks refers to the sum or difference of whole final states, not to particle charges. For example, PI+ P --> 2PRONG − PI+ P indicates the inelastic two-charged-prong reaction.

Immediately following this page is an ordered and numbered list of all the reactions in the index. The reaction number can be used to help locate the proper page in the full index for a desired reaction, via the reaction number range given at the top of each page.

2) Ambiguities

Reaction ambiguities include the ambiguities from particle names (see the Particle Vocabulary, Section III.A), plus some contextual ambiguities. For example, reactions with nucleons inside nuclei might be encoded several ways. Thus, the reaction PI+ D --> P(SPECT) P PI+ PI− is ambiguous with PI+ D --> 2P PI+ PI− and PI+ N --> P PI+ PI− (physically, as well as in the encoding, we might add). Reactions involving the "particles" DD (diffractive dissociation) and NON-RES (non-resonant) are often ambiguous. For example, either of the reactions PI− P --> N DD<PI+ PI−> and PI− P --> PI− DD<N PI+> might have been encoded simply as PI− P --> N PI+ PI−. Reactions with nuclear targets might be encoded with the specific nucleus, such as BE, or with the generic name NUCLEUS if the exact nucleus is uncertain. Reactions described by topology are often quite ambiguous. We advise users to scan the reaction list for all reactions which might include the one sought.

REACTION/MOMENTUM INDEX — LIST OF REACTIONS

[1] GAMMA GAMMA --> (NOT ENCODED)
[2] GAMMA GAMMA --> E+ E-
[3] GAMMA GAMMA --> MU+ MU-
[4] GAMMA E- --> (NOT ENCODED)
[5] GAMMA E- --> GAMMA E-
[6] GAMMA E- --> GAMMA ANYTHING
[7] GAMMA E- --> E- NUCLEUS
[8] GAMMA E- --> 2E- E+
[9] GAMMA P --> (NOT ENCODED)
[10] GAMMA P --> HADRONS
[11] GAMMA P --> PRONG
[12] GAMMA P --> NEPRONG1
[13] GAMMA P --> ANYTHING
[14] GAMMA P --> GAMMA P
[15] GAMMA P --> GAMMA ANYTHING
[16] GAMMA P --> PI+ N
[17] GAMMA P --> PI+ DELO
[18] GAMMA P --> PI+ ANYTHING
[19] GAMMA P --> PIO P
[20] GAMMA P --> PIO DEL+
[21] GAMMA P --> PIO ANYTHING
[22] GAMMA P --> PI- DEL++
[23] GAMMA P --> PI- ANYTHING
[24] GAMMA P --> ETA P
[25] GAMMA P --> ETA ANYTHING
[26] GAMMA P --> RHO+ N
[27] GAMMA P --> RHO+ DELO
[28] GAMMA P --> RHOPRIME
[29] GAMMA P --> RHOO N(1688F15)+
[30] GAMMA P --> RHOO DEL+
[31] GAMMA P --> RHOO ANYTHING
[32] GAMMA P --> PI- DEL++
[33] GAMMA P --> OMEGA P
[34] GAMMA P --> OMEGA DEL+
[35] GAMMA P --> OMEGA ANYTHING
[36] GAMMA P --> ETAPRIME P
[37] GAMMA P --> X(960) P
[38] GAMMA P --> PHI P
[39] GAMMA P --> A1(1300)- DEL++
[40] GAMMA P --> W(1116)10 P
[41] GAMMA P --> F(1235)0 P
[42] GAMMA P --> RHOPRIME(1250)0 P
[43] GAMMA P --> F P
[44] GAMMA P --> A2(1310)+ N
[45] GAMMA P --> A2(1310)+ DEL++
[46] GAMMA P --> W(1370)0 P
[47] GAMMA P --> W(1650)0 P
[48] GAMMA P --> RHOPRIME(1600)0 P
[49] GAMMA P --> W(1750)0 P
[50] GAMMA P --> J/PSI(3100)0 P
[51] GAMMA P --> J/PSI(3100)0 ANYTHING
[52] GAMMA P --> PSI(3700)0 ANYTHING
[53] GAMMA P --> K+ LAMBDA
[54] GAMMA P --> K+ LAM(1520D03)
[55] GAMMA P --> K+ SIGMA+
[56] GAMMA P --> K+ NEUTRAL(S)
[57] GAMMA P --> K+ ANYTHING
[58] GAMMA P --> KO SIGMA+
[59] GAMMA P --> K- ANYTHING
[60] GAMMA P --> P MM.GE.2
[61] GAMMA P --> P ANYTHING
[62] GAMMA P --> ANYTHING STRANGE
[63] GAMMA P --> ANYTHING VEE
[64] GAMMA P --> 2GAMMA ANYTHING
[65] GAMMA P --> MU- MU+ ANYTHING
[66] GAMMA P --> 2 2GAMMA
[67] GAMMA P --> P E- E+
[68] GAMMA P --> P PI+ PI-
[69] GAMMA P --> P PIO
[70] GAMMA P --> P PIO PI-
[71] GAMMA P --> P RHO+ PI-
[72] GAMMA P --> P RHOO PIO
[73] GAMMA P --> P RHO- PI+
[74] GAMMA P --> P OMEGA ANYTHING
[75] GAMMA P --> P K+ K-
[76] GAMMA P --> 2P AP
[77] GAMMA P --> N PI+ PIO(S)
[78] GAMMA P --> N PI+ PI-
[79] GAMMA P --> N RHO+ PI+
[80] GAMMA P --> DEL++ PIO PI-
[81] GAMMA P --> DEL++ RHOO PI-
[82] GAMMA P --> DEL++ PI+ PI-
[83] GAMMA P --> DEL- 2PI+
[84] GAMMA P --> 3PRONG
[85] GAMMA P --> 3GAMMA ANYTHING
[86] GAMMA P --> P PI+ PIO PI-
[87] GAMMA P --> P PI+ PI- PIOS
[88] GAMMA P --> P PI+ PI- MM.GE.2
[89] GAMMA P --> P PI+ PI- NEUTRAL(S)
[90] GAMMA P --> P ETA PI+ PI-
[91] GAMMA P --> P RHOO PI+ PI-
[92] GAMMA P --> P OMEGA PI+ PI-
[93] GAMMA P --> P PI+ PI- (1600)0 PI+ PI-
[94] GAMMA P --> N 2PI+ PI-
[95] GAMMA P --> DEL++ PI+ 2PI-
[96] GAMMA P --> DELO 2PI+ PI-
[97] GAMMA P --> P 2PI+ 2PI-
[98] GAMMA P --> P RHOO PI+ PIO PI-
[99] GAMMA P --> P N+ N- PI+ PI-
[100] GAMMA P --> N 2PI+ PI- MM.GE.2
[101] GAMMA P --> DEL++ PI+ PIO 2PI-
[102] GAMMA P --> DEL- 3PI+ PI-
[103] GAMMA P --> 3PRONG
[104] GAMMA P --> P 2PI+ PIO 2PI-
[105] GAMMA P --> P 2PI+ 2PI- PIOS
[106] GAMMA P --> P 2PI+ 2PI- MM.GE.2
[107] GAMMA P --> N 3PI+ 2PI-
[108] GAMMA P --> P 3PI+ 3PI-
[109] GAMMA P --> P K+ K- 2PI+ 2PI-
[110] GAMMA P --> N 3PI+ 2PI- PIO(S)
[111] GAMMA P --> N 3PI+ 2PI- MM.GE.2
[112] GAMMA P --> 4PRONG
[113] GAMMA P --> N 4PI+ 3PI-
[114] GAMMA P --> N 4PI+ 3PI- PIOS
[115] GAMMA P --> N 4PI+ 3PI- PIO(S)
[116] GAMMA P --> P 4PI+ 4PI-
[117] GAMMA P --> N 4PI+ 3PI- PIO(S)
[118] GAMMA P --> 5PRONG
[119] GAMMA P --> P 4PI+ PI0 4PI-
[120] GAMMA P --> N 5PI+ 4PI-
[121] GAMMA P --> CMEGA P + RHOO P
[122] GAMMA P --> CMEGA P + P RHOO PIO
[123] GAMMA P --> K+ LAMBDA + K+ SIGMA0
[124] DAMMA P --> K+ SIGC(2385P1310 + K+
LAM(1405S01)
[125] GAMMA P --> ADD CHARMED-BARYON + D- CHARMED-BARYON
[126] GAMMA P --> P MM.GE.2 + P K+ K-
[127] GAMMA P --> PI+ PI0 ANYTHING + PI0
PI- ANYTHING
[128] GAMMA N --> (NOT ENCODED)
[129] GAMMA N --> PI+
[130] GAMMA N --> N(1688F15)0
[131] GAMMA N --> HADRONS
[132] GAMMA N --> STRANGEO
[133] GAMMA N --> NECHARGED1
[134] GAMMA N --> OPRONG
[135] GAMMA N --> NEUTRALS
[136] GAMMA N --> ANYTHING
[137] GAMMA N --> PI+ N
[138] GAMMA N --> PI+ DEL-
[139] GAMMA N --> PIO N
[140] GAMMA N --> PIO DELO
[141] GAMMA N --> PI- P
[142] GAMMA N --> PI- DEL+
[143] GAMMA N --> PI- ANYTHING
[144] GAMMA N --> RHOO N
[145] GAMMA N --> RHO- P
[146] GAMMA N --> PHO- ANYTHING
[147] GAMMA N --> J/PSI(3100) N
[148] GAMMA N --> K+ SIGMA-
[149] GAMMA N --> K+ SIGC(2385P13)-
[150] GAMMA N --> 2PRONG
[151] GAMMA N --> ANYTHING STRANGE
[152] GAMMA A --> P PIO PI-
[153] GAMMA N --> P RHOO PI-
[154] GAMMA N --> 3PRONG
[155] GAMMA N --> N PI+ PI-
[156] GAMMA N --> P PI+ 2PI-
[157] GAMMA N --> 4PRONG
[158] GAMMA N --> P PI+ PIO 2PI-
[159] GAMMA N --> N 2PI+ 2PI-
[160] GAMMA N --> 6PRONG
[161] GAMMA N --> 5PRONG
[162] GAMMA N --> RHO+ ANYTHING + RHO- ANYTHING
[163] DAMMA N --> PI+ PIO ANYTHING + PIO PI- ANYTHING
[164] GAMMA N --> P 3PI+ 3PI-
[165] GAMMA N --> P 3PI+ 3PI- PIOS
[166] GAMMA NUCLEUN --> (NOT ENCODED)
[167] GAMMA NUCLEUN --> PION NUCLEUN
[168] GAMMA NUCLEUN --> PI+ NUCLEON
[169] GAMMA NUCLEUN --> PIO NUCLEON
[170] GAMMA NUCLEUN --> PI- NUCLEON
[171] GAMMA NUCLEUN --> PI+ NEUTRING
[172] GAMMA NUCLEUN --> ETA NUCLEON
[173] GAMMA NUCLEUN --> PHI NUCLEON
[174] GAMMA NUCLEUN --> J/PSI(3100)0 NUCLEON
[175] GAMMA NUCLEUN --> CHARM ANYTHING
[176] GAMMA NUCLEUN --> TACHYON ANYTHING
[177] GAMMA NUCLEUN --> E- E+ ANYTHING
[178] GAMMA NUCLEUN --> NUCLEON MU- MU+ HADRONS + 2MU- HADRONS +
[179] GAMMA P --> (NOT ENCODED)
[180] GAMMA DEUT --> PRONG
[181] GAMMA DEUT --> N(PRONG)
[182] GAMMA DEUT --> ANYTHING
[183] GAMMA DEUT --> GAMMA DEUT
[184] GAMMA DEUT --> PI+ ANYTHING
[185] GAMMA DEUT --> PIO DEUT
[186] GAMMA DEUT --> PI- ANYTHING
[187] GAMMA DEUT --> ETA DEUT
[188] GAMMA DEUT --> RHO+ ANYTHING
[189] GAMMA DEUT --> RHOO DEUT
[190] GAMMA DEUT --> RHO- ANYTHING
[191] GAMMA DEUT --> OMEGA DEUT
[192] GAMMA DEUT --> OMEGA ANYTHING
[193] GAMMA DEUT --> PHI P
[194] GAMMA DEUT --> RHOPRIME(1600)0 DEUT
[195] GAMMA DEUT --> J/PSI(3100)0
ANYTHING
[196] GAMMA DEUT --> PSI(3700)0 ANYTHING
[197] GAMMA DEUT --> N P
[198] GAMMA DEUT --> DEL++ ANYTHING
[199] GAMMA DEUT --> 2PRONG
[200] GAMMA DEUT --> ANYTHING STRANGEO
[201] GAMMA DEUT --> ANYTHING STRANGE
[202] GAMMA DEUT --> E- E+ ANYTHING
[203] GAMMA DEUT --> MU- MU+ ANYTHING
[204] GAMMA DEUT --> P(SPECT) P PI-
[205] GAMMA DEUT --> P(SPECT) P RHO-
[206] GAMMA DEUT --> P(SPECT) N PIO
[207] GAMMA DEUT --> P(SPECT) N RHOO
[208] GAMMA DEUT --> P(SPECT) DEL+ PI+
[209] GAMMA DEUT --> N(SPECT) P PI+
[210] GAMMA DEUT --> N(SPECT) P RHOO
[211] GAMMA DEUT --> N(SPECT) DEL++ PI-
[212] GAMMA DEUT --> 2P PI-
[213] GAMMA DEUT --> 2P RHO-
[214] GAMMA DEUT --> P N GAMMA
[215] GAMMA DEUT --> P N PIO
[216] GAMMA DEUT --> P N RHOO
[217] GAMMA DEUT --> P N OMEGA
[218] GAMMA DEUT --> P DEL- RHO+
[219] GAMMA DEUT --> 2N PI-
[220] GAMMA DEUT --> DEUT PI+ PI-
[221] GAMMA DEUT --> DEUT OMEGA ANYTHING
[222] GAMMA DEUT --> DEUT K+ K-
[223] GAMMA DEUT --> DEUT P(SPECT) RHOO
[224] GAMMA DEUT --> 3PRONG
[225] GAMMA DEUT --> PI+ PIO PI-
[226] GAMMA DEUT --> P(SPECT) P PIO PI-
[227] GAMMA DEUT --> P(SPECT) N PI+ PI-
[228] GAMMA DEUT --> N(SPECT) P PI+ PI-
[229] GAMMA DEUT --> 2P PIO GAMMA
[230] GAMMA DEUT --> 2P PIO PI-
[231] GAMMA DEUT --> 2P PI+ PI-
[232] GAMMA DEUT --> 2N PIO GAMMA
[233] GAMMA DEUT --> DEUT PI+ PIO PI-
[234] GAMMA DEUT --> DEUT P(SPECT) PI+ PI-
[235] GAMMA DEUT --> 4PRONG
[236] GAMMA DEUT --> 2GAMMA 2PRONG
[237] GAMMA DEUT --> 2P PI+ 2PI-
[238] GAMMA DEUT --> DEUT 2PI+ 2PI-
[239] GAMMA DEUT --> 5PRONG
[240] GAMMA DEUT --> 2P PI+ PIO 2PI-
[241] GAMMA DEUT --> P N 2PI+ 2PI-
[242] GAMMA DEUT --> 6PRONG
[243] GAMMA DEUT --> 3PRONG
[244] GAMMA DEUT --> 8PRONG
[245] GAMMA DEUT --> 9PRONG
[246] GAMMA DEUT --> RHOO NON-RES < P N > + RHOO DEUT
[247] GAMMA DEUT --> 2PRONG + 3PRONG
[248] GAMMA DEUT --> 4PRONG + 5PRONG
[249] GAMMA DEUT --> 7PRONG
[250] GAMMA DEUT --> P(SPECT) SIGMA- K+ + N(SPECT) LAMBDA K+ + N(SPECT) SIGMA+ K+
[251] GAMMA HE3 --> (NOT ENCODED)
[252] GAMMA HE3 --> PION ANYTHING
[253] GAMMA HE3 --> 3P PI-
[254] GAMMA HE3 --> PIO HE3
[255] GAMMA HE3 --> P DEUT
[256] GAMMA HE3 --> PI+ PI- ANYTHING
[257] GAMMA HE3 --> HE3 PI+ PI-
[258] GAMMA HE3 --> 3P PI-
[259] GAMMA ME --> (NOT ENCODED)
[260] GAMMA ME --> HE
[261] GAMMA HE --> PIO ANYTHING
[262] GAMMA HE --> 2DEUT
[263] GAMMA HE --> HE E+ E-
[264] GAMMA LI --> (NOT ENCODED)
[265] GAMMA LI --> GAMMA LI
[266] GAMMA LI --> GAMMA ANYTHING
[267] GAMMA LI --> PION ANYTHING
[268] GAMMA LI --> PI+ HE
[269] GAMMA LI --> PI+ ANYTHING
[270] GAMMA LI --> PIONS AS
[271] GAMMA BE --> (NOT ENCODED)
[272] GAMMA BE --> ANYTHING
[273] GAMMA BE --> PIONS AS
[274] GAMMA BE --> PI+ ANYTHING
[275] GAMMA BE --> PIO BE
[276] GAMMA BE --> PIO ANYTHING
[277] GAMMA BE --> PI- ANYTHING
[278] GAMMA BE --> ETA ANYTHING
[279] GAMMA BE --> RHOO BE
[280] GAMMA BE --> RHOO ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[281] GAMMA BE --> CMEGA BE
[282] GAMMA BE --> JPSI(3100) BE
[283] GAMMA BE --> JPSI(3100) ANYTHING
[284] GAMMA BE --> PSI(3700)0 ANYTHING
[285] GAMMA BE --> F 1L
[286] GAMMA BE --> ANYTHING VEE
[287] GAMMA BE --> 2GAMMA ANYTHING
[288] GAMMA BE --> GAMMA CHARGED ANYTHING
[289] GAMMA BE --> E- E+ ANYTHING
[290] GAMMA BE --> MU- E+ ANYTHING
[291] GAMMA BE --> MU- MU+ ANYTHING
[292] GAMMA BE --> MU+ E- ANYTHING
[293] GAMMA BE --> ZHVY-LEPTON ANYTHING
[294] GAMMA BE --> PI+ K- ANYTHING
[295] GAMMA BE --> K+ K- ANYTHING
[296] GAMMA BE --> P AP ANYTHING
[297] GAMMA BE --> LAMBDA ALAMBDA ANYTHING
[298] GAMMA BE --> ALAMBDA PION(S) ANYTHING
[299] GAMMA BE --> BE PI+ PI-
[300] GAMMA BE --> ZCHARM ANYTHING
[301] GAMMA BE --> ZCHARGED ANYTHING
[302] GAMMA BE --> 2E- 2E+ ANYTHING
[303] GAMMA BE --> ALAMBDA 2PI+ PI- PRONGS
[304] GAMMA BE --> ALAMBDA PI+ 2PI- FRCAGS
[305] GAMMA BE --> BE 2PI+ 2PI-
[306] GAMMA BE --> BE 3PI+ 3PI-
[307] GAMMA BE --> MU- E+ ANYTHING + MU+ E- ANYTHING
[308] GAMMA BOR --> (NOT ENCODED)
[309] GAMMA BOR --> 2E- 2E+ ANYTHING
[310] GAMMA C --> (NOT ENCODED)
[311] GAMMA C --> HADRONS
[312] GAMMA C --> ANYTHING
[313] GAMMA C --> GAMMA C
[314] GAMMA C --> GAMMA ANYTHING
[315] GAMMA C --> ANYTHING
[316] GAMMA C --> MU- MU+ ANYTHING
[317] GAMMA C --> PION ANYTHING
[318] GAMMA C --> P P ANYTHING
[319] GAMMA C --> K+ K- ANYTHING
[320] GAMMA C --> PI- ANYTHING
[321] GAMMA C --> ETA C
[322] GAMMA C --> ETA ANYTHING
[323] GAMMA C --> RHOO C
[324] GAMMA C --> RHOO ANYTHING
[325] GAMMA C --> CHARGE ANYTHING
[326] GAMMA C --> PHI C
[327] GAMMA C --> PHI ANYTHING
[328] GAMMA C --> JPSI(3130)0 ANYTHING
[329] GAMMA C --> P BOR
[330] GAMMA C --> P ANYTHING
[331] GAMMA C --> DEUT ANYTHING
[332] GAMMA C --> PI+ ANYTHING
[333] GAMMA C --> MU- MU+ ANYTHING
[334] GAMMA C --> PI+ PI- ANYTHING
[335] GAMMA C --> P I+ ANYTHING
[336] GAMMA C --> C PI+ PI-
[337] GAMMA C --> NIT P PI-
[338] GAMMA C --> 2E- 2E+ ANYTHING
[339] GAMMA C --> P + PI+ + PI-
[340] GAMMA NIT --> PION ANYTHING
[341] GAMMA NG --> (NOT ENCODED)
[342] GAMMA AL --> (NOT ENCODED)
[343] GAMMA AL --> ANYTHING
[344] GAMMA AL --> GAMMA AL
[345] GAMMA AL --> GAMMA ANYTHING
[346] GAMMA AL --> PI+ NG
[347] GAMMA AL --> PI+ ANYTHING
[348] GAMMA AL --> PIO AL
[349] GAMMA AL --> PIO ANYTHING
[350] GAMMA AL --> PI- ANYTHING
[351] GAMMA AL --> ETA ANYTHING
[352] GAMMA AL --> RHOO AL
[353] GAMMA AL --> RHOO ANYTHING
[354] GAMMA AL --> CMEGA ANYTHING
[355] GAMMA AL --> P ANYTHING
[356] GAMMA AL --> LONGLIVED ANYTHING
[357] GAMMA AL --> PI+ PI- ANYTHING
[358] GAMMA AL --> AL PI+ PI-
[359] GAMMA AL --> 2E- 2E+ ANYTHING
[360] GAMMA AL --> P + PI+ + PI-
[361] GAMMA SU --> (NOT ENCODED)
[362] GAMMA CA --> (NOT ENCODED)
[363] GAMMA TI --> (NOT ENCODED)
[364] GAMMA TI --> ANYTHING
[365] GAMMA YA --> PI+ TI
[366] GAMMA YA --> PI- CA
[367] GAMMA FE --> LONGLIVED ANYTHING
[368] GAMMA FE --> PI+ ANYTHING + PI- ANYTHING
[369] GAMMA NI --> PI+ ANYTHING + PI- ANYTHING
[370] GAMMA CU --> (NOT ENCODED)
[371] GAMMA CU --> ANYTHING

[372] GAMMA CU --> GAMMA CU
[373] GAMMA CU --> GAMMA ANYTHING
[374] GAMMA CU --> PI+ ANYTHING
[375] GAMMA CU --> PI0 CU
[376] GAMMA CU --> PI0 ANYTHING
[377] GAMMA CU --> PI- ANYTHING
[378] GAMMA CU --> ETA CU
[379] GAMMA CU --> ETA ANYTHING
[380] GAMMA CU --> RHOO CU
[381] GAMMA CU --> RHOO ANYTHING
[382] GAMMA CU --> OMEGA CU
[383] GAMMA CU --> OMEGA ANYTHING
[384] GAMMA CU --> P ANYTHING
[385] GAMMA CU --> QUARK(2/3) ANYTHING
[386] GAMMA CU --> QUARK(-1/3) ANYTHING
[387] GAMMA CU --> ZGAMMA ANYTHING
[388] GAMMA CU --> PI+ PI- ANYTHING
[389] GAMMA CU --> PI0 GAMMA ANYTHING
[390] GAMMA CU --> ETA GAMMA ANYTHING
[391] GAMMA CU --> CU PI+ PI-
[392] GAMMA CU --> 2E- 2E+ ANYTHING
[393] GAMMA CU --> P + PI+ + PI-
[394] GAMMA ZN --> (NOT ENCODED)
[395] GAMMA ZN --> OMEGA ANYTHING
[396] GAMMA NB --> ANYTHING
[397] GAMMA AG --> (NOT ENCODED)
[398] GAMMA AG --> ANYTHING
[399] GAMMA AG --> PI+ ANYTHING
[400] GAMMA AG --> PI0 AG
[401] GAMMA AG --> PI0 ANYTHING
[402] GAMMA AG --> RHOO ANYTHING
[403] GAMMA AG --> ETA AG
[404] GAMMA AG --> ETA ANYTHING
[405] GAMMA AG --> RHOO AG
[406] GAMMA AG --> OMEGA ANYTHING
[407] GAMMA AG --> PI+ PI- ANYTHING
[408] GAMMA AG --> P + PI+ + PI-
[409] GAMMA IN --> (NOT ENCODED)
[410] GAMMA IN --> (NOT ENCODED)
[411] GAMMA SN --> ANYTHING
[412] GAMMA SN --> PI+ ANYTHING
[413] GAMMA SN --> PI- ANYTHING
[414] GAMMA SN --> P ANYTHING
[415] GAMMA SN --> SN PI+ PI-
[416] GAMMA XE --> (NOT ENCODED)
[417] GAMMA XE --> SHOWER
[418] GAMMA XE --> E- E+ ANYTHING
[419] GAMMA TA --> (NOT ENCODED)
[420] GAMMA TA --> ANYTHING
[421] GAMMA TA --> OMEGA ANYTHING
[422] GAMMA TA --> PSI(3100) ANYTHING
[423] GAMMA TA --> TA PI+ PI-
[424] GAMMA W --> (NOT ENCODED)
[425] GAMMA AU --> (NOT ENCODED)
[426] GAMMA AU --> ANYTHING
[427] GAMMA AU --> RHOO AU
[428] GAMMA AU --> PI+ PI- ANYTHING
[429] GAMMA PB --> (NOT ENCODED)
[430] GAMMA PB --> ANYTHING
[431] GAMMA PB --> GAMMA PB
[432] GAMMA PB --> GAMMA ANYTHING
[433] GAMMA PB --> PI+ ANYTHING
[434] GAMMA PB --> PI0 ANYTHING
[435] GAMMA PB --> PI- ANYTHING
[436] GAMMA PB --> ETA PB
[437] GAMMA PB --> ETA ANYTHING
[438] GAMMA PB --> OMEGA ANYTHING
[439] GAMMA PB --> JPSI(3100) ANYTHING
[440] GAMMA PB --> P ANYTHING
[441] GAMMA PB --> MU- MU+ ANYTHING
[442] GAMMA PB --> PB PI+ PI-
[443] GAMMA PB --> P + PI+ + PI-
[444] GAMMA U --> (NOT ENCODED)
[445] GAMMA U --> PI0 U
[446] GAMMA U --> PI0 ANYTHING
[447] GAMMA U --> ETA ANYTHING
[448] GAMMA U --> ZGAMMA ANYTHING
[449] GAMMA NUCLEUS --> (NOT ENCODED)
[450] GAMMA NUCLEUS --> ANYTHING
[451] GAMMA NUCLEUS --> GAMMA NUCLEUS
[452] GAMMA NUCLEUS --> P ANYTHING
[453] GAMMA NUCLEUS --> PI(N(S)) ANYTHING
[454] GAMMA NUCLEUS --> PI+ ANYTHING
[455] GAMMA NUCLEUS --> PI- ANYTHING
[456] GAMMA NUCLEUS --> ETA ANYTHING
[457] GAMMA NUCLEUS --> ETA ANYTHING
[458] GAMMA NUCLEUS --> RHOO NUCLEUS
[459] GAMMA NUCLEUS --> PHI NUCLEUS
[460] GAMMA NUCLEUS --> CMEGA NUCLEUS
[461] GAMMA NUCLEUS --> OMEGA ANYTHING
[462] GAMMA NUCLEUS --> PHI NUCLEUS
[463] GAMMA NUCLEUS --> P ANYTHING
[464] GAMMA NUCLEUS --> NUCLEUS NEUTRAL
[465] GAMMA NUCLEUS --> E- E+ ANYTHING
[466] GAMMA NUCLEUS --> MU- MU+ ANYTHING
[467] GAMMA NUCLEUS --> HVY-LEPTON HVY-LEPTON ANYTHING
[468] GAMMA NUCLEUS --> PI0 PI- ANYTHING
[469] GAMMA NUCLEUS --> PI- GAMMA ANYTHING

[470] GAMMA NUCLEUS --> NUCLEUS E- E+
[471] GAMMA NUCLEUS --> NUCLEUS PI+ PI-
[472] GAMMA NUCLEUS --> W+ W- ANYTHING
[473] GAMMA NUCLEUS --> MU- ANYTHING + MU+ ANYTHING
[474] GAMMA S --> 2E- 2E+ ANYTHING
[475] NU E- --> (NOT ENCODED)
[476] NU P --> (NOT ENCODED)
[477] NU P --> N(PRONG)
[478] NU P --> ANYTHING
[479] NU P --> N PI+
[480] NU P --> MU- DEL++
[481] NU P --> MU- STRANGE
[482] NU P --> MU- ANYTHING
[483] NU P --> MU- PION HADRON(S)
[484] NU P --> PION ANYTHING
[485] NU P --> KS ANYTHING
[486] NU P --> LAMBDA ANYTHING
[487] NU P --> ALAMBDA ANYTHING
[488] NU P --> N(PRONG) VEE
[489] NU P --> ANYTHING STRANGE
[490] NU P --> MU- STRANGE(S) PRONG(S)
[491] NU P --> P PI+ MU-
[492] NU P --> P PI0 NU
[493] NU P --> N PI+ NU
[494] NU P --> LAMBDA KS ANYTHING
[495] NU P --> MU- HADRON+ HADRON- ANYTHING
[496] NU P --> P PI+ PI- NU
[497] NU P --> P K0 PI+ MU-
[498] NU P --> 3VEE ANYTHING
[499] NU P --> P 2PI+ PI- MU-
[500] NU P --> N 2PI+ PI0(S) MU-
[501] NU P --> P 2PI+ PI0 PI- MU-
[502] NU P --> P 2PI+ 2PI- NU
[503] NU P --> N 3PI+ PI- MU-
[504] NU P --> LAMBDA 3PI+ PI- MU-
[505] NU P --> P P PI0 PI- MU- E+ NUE
[506] NU P --> P PI+ MU- NEUTRALS + N 2PI+ MU- NEUTRALS
[507] NU N --> P PI0(S) PI- MU- + N 3PI+ PI- MU-
[508] NU P --> MU- VEE + MU- 2VEE + MU- 3VEE
[509] NU N --> (NOT ENCODED)
[510] NU N --> ANYTHING
[511] NU N --> MU- P
[512] NU N --> MU- STRANGE
[513] NU N --> MU- ANYTHING
[514] NU N --> ANYTHING STRANGE
[515] NU N --> MU- STRANGE PRONG(S)
[516] NU N --> P PI0(S) MU-
[517] NU N --> P PI0S MU-
[518] NU N --> P PI0 MU-
[519] NU N --> P PI- MU-
[520] NU N --> P RHOO MU-
[521] NU N --> N PI+ MU-
[522] NU N --> N PI0 MU-
[523] NU N --> LAMBDA KS MU-
[524] NU N --> P PI+ PI- MU-
[525] NU N --> P PI0(S) MU-
[526] NU N --> N PI+ PI- MU-
[527] NU N --> P PI+ PI0 PI- MU-
[528] NU N --> N 2PI+ PI- MU-
[529] NU N --> P 2PI+ PI- MU-
[530] NU N --> N 2PI+ PI0 PI- MU-
[531] NU N --> N 2PI+ PI- PI0(S) MU-
[532] NU N --> NU- NEUTRALS + N PI+ MU- NEUTRALS
[533] NU N --> P PI0 MU- + N PI+ MU-
[534] NU N --> MU- VEE + MU- 2VEE + MU- 3VEE
[535] NU NUCLEON --> (NOT ENCODED)
[536] NU NUCLEON --> ANYTHING
[537] NU NUCLEON --> NU HADRONS
[538] NU NUCLEON --> NU ANYTHING
[539] NU NUCLEON --> MU- HADRONS
[540] NU NUCLEON --> MU- ANYTHING
[541] NU NUCLEON --> MU+ HADRONS
[542] NU NUCLEON --> MUON ANYTHING
[543] NU NUCLEON --> HVY-LEPTON HADRONS
[544] NU NUCLEON --> ANYTHING HADRONS
[545] NU NUCLEON --> E- HADRONS VEE
[546] NU NUCLEON --> NU- E+ ANYTHING
[547] NU NUCLEON --> 2MU- ANYTHING
[548] NU NUCLEON --> MU- MU+ HADRONS
[549] NU NUCLEON --> MU- MU+ ANYTHING
[550] NU NUCLEON --> W+ HADRONS
[551] NU NUCLEON --> 2MU+ ANYTHING
[552] NU NUCLEON --> 2MUON ANYTHING
[553] NU NUCLEON --> NUCLEON PI0 NU
[554] NU NUCLEON --> NUCLEON PI0 MU-
[555] NU NUCLEON --> 2MU- MU+ ANYTHING
[556] NU NUCLEON --> 3MUON ANYTHING
[557] NU NUCLEON --> MU- ANYTHING + MU+ ANYTHING
[558] NU DEUT --> (NOT ENCODED)
[559] NU DEUT --> 2P PI-
[560] NU DEUT --> N DEL++ MU-

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[561] NU DEUT --> P(SPECT) P PI- NU
[562] NU DEUT --> P(SPECT) LAMBDA K+ MU-
[563] NU DEUT --> P N PI+ MU-
[564] NU DEUT --> LAMBDA P(+) MU- NEUTRAL(S)
[565] NU DEUT --> K0 P(+) PI- MU- NEUTRAL(S)
[566] NU DEUT --> P(SPECT) SIGMA* K+ PI-(+) KU-
[567] NU C --> (NOT ENCODED)
[568] NU AL --> (NOT ENCODED)
[569] NU FE --> (NOT ENCODED)
[570] NU FE --> MU- MU+ ANYTHING
[571] NU FE --> 2MU- MU+ ANYTHING
[572] NU FE --> MU- 2MU+ ANYTHING
[573] NU FE --> 3MUON ANYTHING
[574] NU PB --> (NOT ENCODED)
[575] NU NUCLEUS --> (NOT ENCODED)
[576] NU NUCLEUS --> UNSPEC
[577] NU NUCLEUS --> NU NUCLEUS
[578] NU NUCLEUS --> KAON ANYTHING
[579] NU NUCLEUS --> CHARM ANYTHING
[580] NU NUCLEUS --> NU HADRONS STRANE(S)
[581] NU NUCLEUS --> MU- MU+ ANYTHING
[582] NU NUCLEUS --> MU+ HADRONS STRANGE(S)
[583] NU NUCLEUS --> LAMBDA NU ANYTHING
[584] NU NUCLEUS --> SIGMA0 NU ANYTHING
[585] NU NUCLEUS --> HADRONS + NU HADRONS
[586] ANU NU --> MU- MU+ NEUTRALS
[587] ANU E- --> (NOT ENCODED)
[588] ANU P --> (NOT ENCODED)
[589] ANU P --> N(PRONG)
[590] ANU P --> ANYTHING
[591] ANU P --> ANU
[592] ANU P --> MU+ HADRON(S)
[593] ANU P --> MU+ N(PRONG)
[594] ANU P --> MU+ ANYTHING
[595] ANU P --> PI0(S) MU+ ANYTHING
[596] ANU P --> K+ MU+ ANYTHING
[597] ANU P --> K0 MU+ ANYTHING
[598] ANU P --> K- MU+ ANYTHING
[599] ANU P --> P PI0 ANU
[600] ANU P --> P PI- MU+
[601] ANU P --> N PI0 MU+
[602] ANU P --> LAMBDA MU+ ANYTHING
[603] ANU P --> LAMBDA K+ MU+ ANYTHING
[604] ANU P --> LAMBDA K0 MU+ ANYTHING
[605] ANU P --> LAMBDA K- MU+ ANYTHING
[606] ANU N --> (NOT ENCODED)
[607] ANU N --> P PI- ANU
[608] ANU N --> N PI0 ANU
[609] ANU N --> N PI- MU+
[610] ANU NUCLEON --> (NOT ENCODED)
[611] ANU NUCLEON --> ANYTHING STRANE(S)
[612] ANU NUCLEON --> ANU NUCLEON
[613] ANU NUCLEON --> ANU HADRONS
[614] ANU NUCLEON --> ANU ANYTHING
[615] ANU NUCLEON --> MU- ANYTHING
[616] ANU NUCLEON --> MU+ HADRONS
[617] ANU NUCLEON --> MU+ ANYTHING
[618] ANU NUCLEON --> MUON ANYTHING
[619] ANU NUCLEON --> ANYTHING HADRONS
[620] ANU NUCLEON --> 2MU- ANYTHING
[621] ANU NUCLEON --> MU- MU+ ANYTHING
[622] ANU NUCLEON --> 2MU+ ANYTHING
[623] ANU NUCLEON --> NUCLEON PI0 ANU
[624] ANU NUCLEON --> NUCLEON PI0 MU+
[625] ANU NUCLEON --> MU- 2MU+ ANYTHING
[626] ANU NUCLEON --> MU- ANYTHING + MU+ ANYTHING
[627] ANU DEUT --> (NOT ENCODED)
[628] ANU FE --> 2MU- MU+ ANYTHING
[629] ANU FE --> MU- 2MU+ ANYTHING
[630] ANU NUCLEUS --> (NOT ENCODED)
[631] ANU NUCLEUS --> ANU NUCLEUS
[632] ANU NUCLEUS --> MU+ ANYTHING
[633] ANU NUCLEUS --> ANU HADRONS STRANE(S)
[634] ANU NUCLEUS --> MU- MU+ ANYTHING
[635] ANU NUCLEUS --> MU- HADRONS STRANE(S)
[636] ANU NUCLEUS --> HADRONS + ANU HADRONS
[637] NU-UNSPEC NUCLEON --> (NOT ENCODED)
[638] NU-UNSPEC NUCLEON --> N(PRONG)
[639] NU-UNSPEC NUCLEON --> LEPTON ANYTHING
[640] NU-UNSPEC NUCLEON --> ANYTHING VEE
[641] NU-UNSPEC NUCLEON --> 3MUON ANYTHING
[642] NU-UNSPEC NUCLEUS --> MONOPOLE ANYTHING
[643] NU-UNSPEC NUCLEUS --> NEUTRAL(S) CHARGED
[644] NU-UNSPEC NUCLEUS --> 2MUON ANYTHING

[645] NUE E- --> NUE E-
[646] NUE P --> NUE P
[647] NUE P --> E- HADRONS
[648] NUE P --> MU- HADRONS
[649] NUE P --> CHARM MU-
[650] NUE P --> 2MUON HADRONS
[651] NUE P --> P PI+ E-
[652] NUE P --> P K0 PI+ MU-
[653] NUE P --> N 2PI+ E-
[654] NUE P --> LAMBDA PI+ MU- ANYTHING
[655] NUE P --> LAMBDA K+ PI+ MU-
[656] NUE P --> N LAMBDA KL 2PI+ MU-
[657] NUE P --> LAMBDA 3PI+ PI- MU-
[658] NUE N --> E- HADRONS
[659] NUE N --> LAMBDA K+ MU-
[660] NUE N --> SIGMA* K+ PI- MU-
[661] NUE NUCLEON --> NUE HADRONS
[662] NUE NUCLEON --> MU- HADRONS
[663] NUE NUCLEON --> ANYTHING STRANGE
[664] NUE NUCLEON --> NUCLEON PI0 NUE
[665] NUE NUCLEON --> NUCLEON PI0 MU-
[666] NUE NUCLEON --> K0 MU- E+ ANYTHING
[667] NUE NE --> E- HADRONS
[668] NUE NE --> P ANYTHING
[669] NUE NUCLEUS --> E- PRONGS
[670] ANUE E- --> ANUE E-
[671] ANUE P --> E+ HADRONS
[672] ANUE P --> E+ ANYTHING
[673] ANUE P --> MU+ HADRONS
[674] ANUE P --> E+ HADRONS
[675] ANUE NUCLEON --> ANUE HADRONS
[676] ANUE NUCLEON --> E+ PRONGS
[677] ANUE NUCLEON --> MU+ HADRONS
[678] ANUE NUCLEON --> NUCLEON PI0 ANUE
[679] ANUE NUCLEON --> NUCLEON PI0 MU+
[680] ANUE NE --> E+ HADRONS
[681] ANUE NE --> P ANYTHING
[682] NUMU E- --> NUE MU-
[683] NUMU E- --> NUMU E-
[684] NUMU E- --> E- NUMU HADRON(S)
[685] NUMU P --> (NOT ENCODED)
[686] NUMU P --> ANYTHING
[687] NUMU P --> NU ANYTHING
[688] NUMU P --> NUMU P
[689] NUMU P --> NUMU DEL+
[690] NUMU P --> NUMU HADRONS
[691] NUMU P --> NUMU HADRON(S)
[692] NUMU P --> NUMU ANYTHING
[693] NUMU P --> MU- DEL++
[694] NUMU P --> MU- HADRONS
[695] NUMU P --> MU- ANYTHING
[696] NUMU P --> CHARM MU-
[697] NUMU P --> NU HADRON+ ANYTHING
[698] NUMU P --> MU- HADRON+ ANYTHING
[699] NUMU P --> MU- E- ANYTHING
[700] NUMU P --> MU- HADRON(S)
[701] NUMU P --> P NU ANYTHING
[702] NUMU P --> P MU- MU+
[703] NUMU P --> P PI+ MU-
[704] NUMU P --> P PI0 NUMU
[705] NUMU P --> P RHO+ MU-
[706] NUMU P --> P A1(1)(20)+ MU-
[707] NUMU P --> P K+ MU-
[708] NUMU P --> N PI+ NUMU
[709] NUMU P --> DEL++ RHO0 MU-
[710] NUMU P --> DEL++ OMEGA NU
[711] NUMU P --> DEL++ RHO+ MU-
[712] NUMU P --> LAMBDA K+ NUMU
[713] NUMU P --> SIGMA+ PI+ MU-
[714] NUMU P --> SIGMA+ K+ MU-
[715] NUMU P --> SIGP1385P13)+ MU- ANYTHING
[716] NUMU P --> Y*(UNSPEC)+ K+ MU-
[717] NUMU P --> E- E+ NUMU HADRONS
[718] NUMU P --> E+ NUMU NUE HADRONS
[719] NUMU P --> MU- E+ NUE HADRONS
[720] NUMU P --> 2MU- MU+ ANYTHING
[721] NUMU P --> MU- MU+ NUMU HADRONS
[722] NUMU P --> MU+ 2NUMU HADRONS
[723] NUMU P --> P PI+ PI0 MU-
[724] NUMU P --> P PI+ PI- NU
[725] NUMU P --> P PI+ PI- NUMU
[726] NUMU P --> P K+ K- NU
[727] NUMU P --> P K0 PI+ NU
[728] NUMU P --> N 2PI+ MU-
[729] NUMU P --> LAMBDA PI+ MU- ANYTHING
[730] NUMU P --> SIGMA+ AK0 PI+ MU- ANYTHING
[731] NUMU P --> A10 2K+ MU-
[732] NUMU P --> P 2PI+ PI- MU-
[733] NUMU P --> P PI+ 2PI0 MU-
[734] NUMU P --> P RHO0 PI+ MU- NEUTRAL(S)
[735] NUMU P --> P K+ K0 PI0 MU-
[736] NUMU P --> N 2PI+ PI0 MU-
[737] NUMU P --> P 2PI+ PI0 PI- MU-
[738] NUMU P --> P 2PI+ PI- MU- NEUTRAL(S)

[740] NUMU P --> LAMBDA 3PI+ PI- MU-
[741] NUMU P --> CC ANYTHING + MU+ E- ANYTHING
[742] NUMU P --> MU- HADRON+ ANYTHING + MU- HADRON- ANYTHING
[743] NUMU N --> (NOT ENCODED)
[744] NUMU N --> ANYTHING
[745] NUMU N --> NUMU N
[746] NUMU N --> NUMU DEL+
[747] NUMU N --> NUMU HADRONS
[748] NUMU N --> NUMU ANYTHING
[749] NUMU N --> E- P
[750] NUMU N --> MU- P
[751] NUMU N --> MU- DEL+
[752] NUMU N --> MU- SIGMA+
[753] NUMU N --> MU- HADRONS
[754] NUMU N --> MU- E+ ANY
[755] NUMU N --> MU- E- ANYTHING
[756] NUMU N --> MU- CHARM ANYTHING
[757] NUMU N --> P PI0 MU-
[758] NUMU N --> P PI- NUMU
[759] NUMU N --> N PI+ MU-
[760] NUMU N --> N PI0 NUMU
[761] NUMU N --> LAMBDA K+ MU-
[762] NUMU N --> LAMBDA K+ MU-
[763] NUMU N --> LAMBDA K0 NUMU
[764] NUMU N --> SIGMA+ K0 MU-
[765] NUMU N --> SIGMA0 PI+ MU-
[766] NUMU N --> SIGMA0 K+ MU-
[767] NUMU N --> P PI+ MU-
[768] NUMU N --> LAMBDA PI+ MU- ANYTHING
[769] NUMU N --> SIGMA- 2PI+ MU-
[770] NUMU N --> P PI+ 2PI- NUMU
[771] NUMU N --> LAMBDA PI+ PI- MU- ANYTHING
[772] NUMU N --> SIGMA+ PI+ PI- MU- ANYTHING
[773] NUMU NUCLEON --> (NOT ENCODED)
[774] NUMU NUCLEON --> STRANGE
[775] NUMU NUCLEON --> ANYTHING
[776] NUMU NUCLEON --> NU ANYTHING
[777] NUMU NUCLEON --> NUMU NUCLEON
[778] NUMU NUCLEON --> NUMU HADRONS
[779] NUMU NUCLEON --> NUMU HADRON(S)
[780] NUMU NUCLEON --> LEPTON HADRONS
[781] NUMU NUCLEON --> E+ HADRONS
[782] NUMU NUCLEON --> MU- ANYTHING
[783] NUMU NUCLEON --> MU- NUCLEON
[784] NUMU NUCLEON --> MU- HADRONS
[785] NUMU NUCLEON --> MU- HADRON(S)
[786] NUMU NUCLEON --> MU- ANYTHING
[787] NUMU NUCLEON --> MU+ ANYTHING
[788] NUMU NUCLEON --> K+ ANYTHING
[789] NUMU NUCLEON --> K0 ANYTHING
[790] NUMU NUCLEON --> CHARM ANYTHING
[791] NUMU NUCLEON --> ANYTHING STRANGE
[792] NUMU NUCLEON --> E- VEE ANYTHING
[793] NUMU NUCLEON --> E+ HADRONS VEE
[794] NUMU NUCLEON --> MU- E- HADRONS
[795] NUMU NUCLEON --> MU- E- ANYTHING
[796] NUMU NUCLEON --> MU- E+ HADRONS
[797] NUMU NUCLEON --> MU- E+ ANYTHING
[798] NUMU NUCLEON --> 2MU- ANYTHING
[799] NUMU NUCLEON --> MU- MU+ ANYTHING
[800] NUMU NUCLEON --> 2MU+ ANYTHING
[801] NUMU NUCLEON --> K+ &K0 ANYTHING
[802] NUMU NUCLEON --> NUCLEON NUMU NEUTRAL(S)
[803] NUMU NUCLEON --> NUCLEON PI0 NUMU
[804] NUMU NUCLEON --> NUCLEON PI0 MU-
[805] NUMU NUCLEON --> NUCLEON PI- NUMU
[806] NUMU NUCLEON --> LAMBDA K+ ANYTHING
[807] NUMU NUCLEON --> LAMBDA K0 ANYTHING
[808] NUMU NUCLEON --> MU- E- HADRONS VEE
[809] NUMU NUCLEON --> MU- E+ HADRONS VEE
[810] NUMU NUCLEON --> MU- E+ VEE ANYTHING
[811] NUMU NUCLEON --> 2MU- ANUMU ANYTHING
[812] NUMU N--LEON --> 2MU- MU+ ANYTHING
[813] NUMU NUCLEON --> MU- MU+ NUMU ANYTHING
[814] NUMU NUCLEON --> K0 MU- E+ ANYTHING
[815] NUMU NUCLEON --> NUCLEON MU- MU+ NUMU
[816] NUMU NUCLEON --> LAMBDA MU- E+ ANYTHING
[817] NUMU NUCLEON --> - MU- + ANYTHING
[818] NUMU NUCLEON --> ANYTHING - MUON ANYTHING
[819] NUMU NUCLEON --> NU E- E+ ANYTHING - MU- E+ VEE ANYTHING
[820] NUMU NUCLEON --> 3MU- + 2MU- MU+ + MU- 2MU+ + 3MU+

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[821] NUMU DEUT --> (NOT ENCODED)
[822] NUMU DEUT --> MU- PRONG
[823] NUMU DEUT --> MU- ANYTHING
[824] NUMU DEUT --> MU- HADRON(S) STRANGE(S)
[825] NUMU DEUT --> MU- 2PRONG
[826] NUMU DEUT --> PI+ NUMU ANYTHING
[827] NUMU DEUT --> PI- NUMU ANYTHING
[828] NUMU DEUT --> P(SPECT) P MU-
[829] NUMU DEUT --> MU- 3PRONG
[830] NUMU DEUT --> P(SPECT) P PIO NU-
[831] NUMU DEUT --> P(SPECT) P K0 MU-
[832] NUMU DEUT --> P(SPECT) N PI+ MU-
[833] NUMU DEUT --> P(SPECT) LAMBDA K+ MU-
[834] NUMU DEUT --> P(SPECT) LAMBDA K0 NUMU
[835] NUMU DEUT --> N(SPECT) P PI+ MU-
[836] NUMU DEUT --> MU- 4PRONG
[837] NUMU DEUT --> P(SPECT) LAMBDA K0 PI+ MU-
[838] NUMU DEUT --> MU- 5PRONG
[839] NUMU DEUT --> MU- 6PRONG
[840] NUMU DEUT --> N(SPECT) P PI+ PI- MU- E+ NUE
[841] NUMU DEUT --> P(SPECT) P PI+ PIO PI- MU- E+ NUE
[842] NUMU CL2 --> E- NITL2
[843] NUMU NE --> (NOT ENCODED)
[844] NUMU NE --> ANYTHING
[845] NUMU NE --> NUMU HADRON(S)
[846] NUMU NE --> NUMU ANYTHING
[847] NUMU NE --> MU- HADRONS
[848] NUMU NE --> MU- ANYTHING
[849] NUMU NE --> HYV-LEPTON- ANYTHING
[850] NUMU NE --> HYV-LEPTON+ ANYTHING
[851] NUMU NE --> MU- E+ HADRONS
[852] NUMU NE --> MU- E+ N(PRONG)
[853] NUMU NE --> NE MU- K+
[854] NUMU NE --> NE MU- S+
[855] NUMU NE --> MU- E+ HADRON(S) YE(S)
[856] NUMU NE --> 2MU- MU+ ANYTHING
[857] NUMU NE --> NE MU- E+ NUE
[858] NUMU NE --> AE MU- MU+ NUMU
[859] NUMU FE --> NUMU ANYTHING
[860] NUMU FE --> MU- HADRONS
[861] NUMU FE --> PU- ANYTHING
[862] NUMU FE --> MU- E+ NUMU
[863] NUMU FE --> MU- MU+ ANYTHING
[864] NUMU PB --> PB E- E+ NUMU
[865] NUMU PB --> PB MU- MU+ NUE
[866] NUMU PB --> PB MU- MU+ NUMU
[867] NUMU NUCLEUS --> (NOT ENCODED)
[868] NUMU NUCLEUS --> HADRONS
[869] NUMU NUCLEUS --> ANYTHING
[870] NUMU NUCLEUS --> NUMU HADRONS
[871] NUMU NUCLEUS --> MU- NUCLEONS
[872] NUMU NUCLEUS --> MU- PRONGS
[873] NUMU NUCLEUS --> MU- ANYTHING
[874] NUMU NUCLEUS --> MUON ANYTHING
[875] NUMU NUCLEUS --> PIO NUCLEONS
[876] NUMU NUCLEUS --> CHARM PRONG(S)
[877] NUMU NUCLEUS --> CHARM ANYTHING
[878] NUMU NUCLEUS --> LONGLIVED ANYTHING
[879] NUMU NUCLEUS --> ANUMU HADRONS STRANGE(S)
[880] NUMU NUCLEUS --> MU- E+ ANYTHING
[881] NUMU NUCLEUS --> MU- HADRONS STRANGE(S)
[882] NUMU NUCLEUS --> 2MUON ANYTHING
[883] NUMU NUCLEUS --> NUCLEUS MU- K+
[884] NUMU NUCLEUS --> CHARM PRONG ANYTHING
[885] NUMU NUCLEUS --> MU- E+ STRANGE ANYTHING
[886] NUMU NUCLEUS --> NUCLEUS MU- MU+ NUMU
[887] NUMU NUCLEUS --> K0 MU- E+ NUE NEUTRALS
[888] NUMU NUCLEUS --> P K0 PI+ PIO PI- MU- E+ NUE NEUTRALS
[889] NUMU NUCLEUS --> P K0 PI+ PIO 2PI- MU- E+ NUE NEUTRALS
[890] NUMU NUCLEUS --> P N K0 3PI+ PIO 2PI- MU- E+ NUE NEUTRALS
[891] ANUMU E- --> ANUE MU-
[892] ANUMU E- --> ANUMU E-
[893] ANUMU E- --> E- ANUMU HADRONS(S)
[894] ANUMU P --> (NOT ENCODED)
[895] ANUMU P --> NIPIO
[896] ANUMU P --> STRANGE
[897] ANUMU P --> PRONG(S)
[898] ANUMU P --> ANYTHING
[899] ANUMU P --> ANUMU P
[900] ANUMU P --> ANUMU DEL+
[901] ANUMU P --> ANUMU SIGMA+
[902] ANUMU P --> ANUMU HADRONS

[903] ANUMU P --> ANUMU HADRONS(S)
[904] ANUMU P --> ANUMU ANYTHING
[905] ANUMU P --> MU+ N
[906] ANUMU P --> MU+ DELO
[907] ANUMU P --> MU+ LAMBDA
[908] ANUMU P --> MU+ SIGMA0
[909] ANUMU P --> MU+ Y*(UNSPECIF
[910] ANUMU P --> MU+ XI0
[911] ANUMU P --> MU+ HADRONS
[912] ANUMU P --> MU+ ANYTHING
[913] ANUMU P --> HYV-LEPTON N
[914] ANUMU P --> MU+ E- HADRONS
[915] ANUMU P --> P MU- CHARM
[916] ANUMU P --> P PI- MU+
[917] ANUMU P --> P RHO- MU+
[918] ANUMU P --> P K- MU+
[919] ANUMU P --> N ETA MU+
[920] ANUMU P --> N RHO0 MU+
[921] ANUMU P --> N OMEGA MU+
[922] ANUMU P --> N PHI MU+
[923] ANUMU P --> N K0 MU+
[924] ANUMU P --> DEL+ RHO0- MU+
[925] ANUMU P --> DELO ETA MU+
[926] ANUMU P --> DELO RHO0 MU+
[927] ANUMU P --> DELO OMEGA MU+
[928] ANUMU P --> DELO PHI MU+
[929] ANUMU P --> LAMBDA MU+ CHARM
[930] ANUMU P --> LAMBDA PIO MU+
[931] ANUMU P --> LAMBDA K0 MU+
[932] ANUMU P --> LAMBDA AKO MU+
[933] ANUMU P --> SIGMA+ ANUMU ANYTHING
[934] ANUMU P --> SIGMA+ CHARM
[935] ANUMU P --> SIGMA+ PI- MU+
[936] ANUMU P --> SIGMA+ K- MU+
[937] ANUMU P --> SIGMAO MU+ CHARM
[938] ANUMU P --> SIGMAO K0 MU+
[939] ANUMU P --> SIGMAO AK0 MU+
[940] ANUMU P --> SIGMA- PI+ MU+
[941] ANUMU P --> SIGMA- K+ MU+
[942] ANUMU P --> Y*(UNSPEC)+ MU+ CHARM
[943] ANUMU P --> Y*(UNSPEC)0 MU+ CHARM
[944] ANUMU P --> XI- PI+ MU+
[945] ANUMU P --> OMEGA- K+ MU+
[946] ANUMU P --> MU- 2MU+ ANYTHING
[947] ANUMU P --> P PI0 PI- MU+
[948] ANUMU P --> P K0 PI- MU+
[949] ANUMU P --> P AK0 PI- MU+
[950] ANUMU P --> P K- PI0 MU+
[951] ANUMU P --> SIGMA+ MU- ANUE
[952] ANUMU P --> N MU- 2MU+
[953] ANUMU P --> N K- PI+ MU+
[954] ANUMU P --> LAMBDA K+ MU+
[955] ANUMU P --> P PI+ 2PI- MU+
[956] ANUMU P --> N MU- 2MU+ NUMU ANUMU
[957] ANUMU P --> CC ANYTHING + MU+ E- ANYTHING
[958] ANUMU N --> (NOT ENCODED)
[959] ANUMU N --> ANYTHING
[960] ANUMU N --> ANUMU DELO
[961] ANUMU N --> ANUMU LAMBDA
[962] ANUMU N --> ANUMU HADRONS
[963] ANUMU N --> MU+
[964] ANUMU N --> MU+ SIGMA-
[965] ANUMU N --> MU+ SIGI(385P13)-
[966] ANUMU N --> MU+ SIGI(UNSPEC)-
[967] ANUMU N --> MU+ K-
[968] ANUMU N --> MU+ HADRONS
[969] ANUMU N --> MU+ ANYTHING
[970] ANUMU N --> MU+ CAMMA HADRONS
[971] ANUMU N --> MU+ CHARGED ANYTHING
[972] ANUMU N --> MU+ NEUTRAL ANYTHING
[973] ANUMU N --> N MU+ CHARM
[974] ANUMU N --> LAMBDA ANUMU ANYTHING
[975] ANUMU N --> LAMBDA MU+ CHARM
[976] ANUMU N --> LAMBDA K- MU+
[977] ANUMU N --> SIGMAO MU+ CHARM
[978] ANUMU N --> SIGMAO K- MU+
[979] ANUMU N --> SIGMA- MU+ CHARM
[980] ANUMU N --> SIGMA- AKO MU+
[981] ANUMU N --> Y*(UNSPECIO MU+ CHARM
[982] ANUMU N --> Y*(UNSPEC)- MU+ CHARM
[983] ANUMU N --> P 2PI- MU+
[984] ANUMU N --> P K- E+ MU+
[985] ANUMU NUCLEON --> STRANGE
[986] ANUMU NUCLEON --> ANYTHING
[987] ANUMU NUCLEON --> ANUMU ANYTHING
[988] ANUMU NUCLEON --> ANUMU NUCLEON
[989] ANUMU NUCLEON --> ANUMU HADRONS
[990] ANUMU NUCLEON --> ANUMU HADRON(S)
[991] ANUMU NUCLEON --> LEPTON HADRONS
[992] ANUMU NUCLEON --> MU+ NUCLEON
[993] ANUMU NUCLEON --> MU+ HADRONS
[994] ANUMU NUCLEON --> MU+ ANYTHING
[995] ANUMU NUCLEON --> MUON ANYTHING
[996] ANUMU NUCLEON --> MU- MU+ ANYTHING
[997] ANUMU NUCLEON --> NUCLEON NUMU NEUTRAL(S)
[998] ANUMU NUCLEON --> NUCLEON PIO ANUMU

[999] ANUMU NUCLEON --> NUCLEON PI- ANUMU
[1000] ANUMU NUCLEON --> MU- MU+ ANUMU ANYTHING
[1001] ANUMU NUCLEON --> MU- 2MU+ ANYTHING
[1002] ANUMU NUCLEON --> 2MU+ NUMU ANYTHING
[1003] ANUMU NUCLEON --> - MU+ + ANYTHING
[1004] ANUMU NUCLEON --> E- ANYTHING + E+ ANYTHING
[1005] ANUMU NUCLEON --> MU- E- ANYTHING + MU+ E+ ANYTHING
[1006] ANUMU NUCLEON --> MU- E+ ANYTHING + MU+ E- ANYTHING
[1007] ANUMU DEU --> STRANGE
[1008] ANUMU DEUT --> ANUMU DEUT
[1009] ANUMU DEUT --> MU+ ANYTHING
[1010] ANUMU DEUT --> HYV-LEPTON HADRON(S)
[1011] ANUMU DEUT --> PI+ ANUMU ANYTHING
[1012] ANUMU DEUT --> PI- ANUMU ANYTHING
[1013] ANUMU NE --> ANYTHING
[1014] ANUMU NE --> ANUMU HADRON(S)
[1015] ANUMU NE --> ANUMU ANYTHING
[1016] ANUMU NE --> MU+ F
[1017] ANUMU NE --> MU+ ANYTHING
[1018] ANUMU NE --> NE RHO- MU+
[1019] ANUMU NE --> NE A1(1100)- MU+
[1020] ANUMU NE --> NE B(1235)- MU+
[1021] ANUMU NE --> MU- MU+ ANUMU
[1022] ANUMU NE --> MU- 2MU+ ANYTHING
[1023] ANUMU NE --> MU+ E- ANUE ANYTHING
[1024] ANUMU FE --> ANUMU ANYTHING
[1025] ANUMU FE --> MU+ HADRONS
[1026] ANUMU FE --> MU+ ANYTHING
[1027] ANUMU FE --> 2MU+ ANYTHING
[1028] ANUMU FE --> 2MUON ANYTHING
[1029] ANUMU FE --> 3MUON ANYTHING
[1030] ANUMU NUCLEUS --> (NOT ENCODED)
[1031] ANUMU NUCLEUS --> HADRONS
[1032] ANUMU NUCLEUS --> ANYTHING
[1033] ANUMU NUCLEUS --> MU- ANYTHING
[1034] ANUMU NUCLEUS --> MU+ NUCLEONS
[1035] ANUMU NUCLEUS --> MU+ ANYTHING
[1036] ANUMU NUCLEUS --> MUON ANYTHING
[1037] ANUMU NUCLEUS --> PIO NUCLEONS
[1038] ANUMU NUCLEUS --> CHARM ANYTHING
[1039] ANUMU NUCLEUS --> CHARM PRONG(S)
[1040] ANUMU NUCLEUS --> LONGLIVED ANYTHING
[1041] ANUMU NUCLEUS --> ANUMU HADRONS STRANGE(S)
[1042] ANUMU NUCLEUS --> MU- MU+ ANYTHING
[1043] ANUMU NUCLEUS --> MU+ HADRONS STRANGE(S)
[1044] ANUMU NUCLEUS --> 2MUON ANYTHING
[1045] ANUMU NUCLEUS --> CHARM PRONG ANYTHING
[1046] ANUMU NUCLEUS --> K0 MU+ ZGAMMA ANYTHING
[1047] ANUMU NUCLEUS --> LAMBDA MU+ ZGAMMA ANYTHING
[1048] ANUMU NUCLEUS --> MU- E+ ANYTHING + 2MU+ ANYTHING
[1049] ANUMU NUCLEUS --> MU- MU+ ANYTHING + 2MU+ ANYTHING
[1050] E- E- --> (NOT ENCODED)
[1051] E- E- --> 2E-
[1052] E- E- --> 2E- GAMMA
[1053] E- E+ --> (NOT ENCODED)
[1054] E- E+ --> GJPSI(3100)
[1055] E- E+ --> PSI(37000)
[1056] E- E+ --> ANYTHING
[1057] E- E+ --> 2GAMMA
[1058] E- E+ --> E+ E-
[1059] E- P --> (NOT ENCODED)
[1060] E- P --> HADRONS
[1061] E- P --> N(PRONG)
[1062] E- P --> ANYTHING
[1063] E- P --> INELASTIC
[1064] E- P --> MM ANYTHING
[1065] E- P --> E- P
[1066] E- P --> E- NI1520(13)+
[1067] E- P --> E- NI(2200)+
[1068] E- P --> E- NI(5355)1)+
[1069] E- P --> E- NI(7008)+
[1070] E- P --> E- P
[1071] E- P --> E- NIC*GD-HADRON)
[1072] E- P --> E- NIHADRON)
[1073] E- P --> E- HADRONS
[1074] E- P --> E- HADRONS(S)
[1075] E- P --> E- NICHARGED)
[1076] E- P --> E- PRONG
[1077] E- P --> E- NIPRONG)
[1078] E- P --> E- ANYTHING
[1079] E- P --> E+ HADRONS
[1080] E- P --> E+ P

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[1081] E- P --> PI+ ANYTHING
[1082] E- P --> PI- ANYTHING
[1083] E- P --> K+ ANYTHING
[1084] E- P --> P ANYTHING
[1085] E- P --> N ANYTHING
[1086] E- P --> E- GAMMA ANYTHING
[1087] E- P --> E- E+ ANYTHING
[1088] E- P --> E- HADRON ANYTHING
[1089] E- P --> PI+ E- ANYTHING
[1090] E- P --> PI0 E- ANYTHING
[1091] E- P --> PI- E- ANYTHING
[1092] E- P --> K+ E- ANYTHING
[1093] E- P --> P E- GAMMA
[1094] E- P --> P E- MM.GE.0
[1095] E- P --> P E- ANYTHING
[1096] E- P --> P PI+ E-
[1097] E- P --> P PI0 E-
[1098] E- P --> P PI- E-
[1099] E- P --> P RHO0 E-
[1100] E- P --> P CHEGA E-
[1101] E- P --> P PHI E-
[1102] E- P --> N E- ANYTHING
[1103] E- P --> N PI+ E-
[1104] E- P --> NUCLEON PION E-
[1105] E- P --> DEL++ PI- E-
[1106] E- P --> DELO PI+ E-
[1107] E- P --> DELO PIO E-
[1108] E- P --> LAMBDA K+ E-
[1109] E- P --> LAM(1405)D1) K+ E-
[1110] E- P --> LAM(1520)D03) K+ E-
[1111] E- P --> SIGMA0 K+ E-
[1112] E- P --> SIG(1385P13)0 K+ E-
[1113] E- P --> 2E- E+ ANYTHING
[1114] E- P --> E- 3PRONG
[1115] E- P --> P PI+ PI- E-
[1116] E- P --> P K+ K- E-
[1117] E- P --> P PI+ P0 PI- E-
[1118] E- P --> E- 5PRONG
[1119] E- P --> E- 7PRONG
[1120] E- P --> ANYTHING -- E- P
[1121] E- P --> P PI+ PI- + N PI+ E-
[1122] E- P --> P ONEGA E- + P RHO0 E-
[1123] E- N --> (NOT ENCODED)
[1124] E- N --> N(PRONG)
[1125] E- N --> E- CELO
[1126] E- N --> E- OPRONG
[1127] E- N --> E- ANYTHING
[1128] E- N --> E- HADRONS
[1129] E- N --> PI+ ANYTHING
[1130] E- N --> PI- ANYTHING
[1131] E- N --> P ANYTHING
[1132] E- N --> E- HADRON ANYTHING
[1133] E- N --> E- 2PRONG
[1134] E- N --> P PI- E- ANYTHING
[1135] E- N --> PI- E- ANYTHING
[1136] E- N --> P E- ANYTHING
[1137] E- N --> P PI- E-
[1138] E- N --> N E- ANYTHING
[1139] E- N --> N PIO E-
[1140] E- N --> N RHO0 E-
[1141] E- N --> E- 4PRONG
[1142] E- N --> E- 6PRONG
[1143] E- NUCLEON --> (NOT ENCODED)
[1144] E- NUCLEON --> PION ANYTHING
[1145] E- NUCLEON --> K+ ANYTHING
[1146] E- NUCLEON --> K- ANYTHING
[1147] E- NUCLEON --> NUCLEON RHO0 E-
[1148] E- NUCLEON --> NUCLEON ONEGA E-
[1149] E- DEUT --> (NOT ENCODED)
[1150] E- DEUT --> ANYTHING
[1151] E- DEUT --> E- 3PRONG
[1152] E- DEUT --> E- HADRONS
[1153] E- DEUT --> E- MI PRONG)
[1154] E- DEUT --> E- ANYTHING
[1155] E- DEUT --> E- HADRONS
[1156] E- DEUT --> E+ ANYTHING
[1157] E- DEUT --> PI- ANYTHING
[1158] E- DEUT --> DEUT ANYTHING
[1159] E- DEUT --> E- HADRON ANYTHING
[1160] E- DEUT --> P E- ANYTHING
[1161] E- DEUT --> P N E-
[1162] E- DEUT --> N E- ANYTHING
[1163] E- DEUT --> CEUT E- ANYTHING
[1164] E- DEUT --> P(SPECT) E- CHARGED ANYTHING
[1165] E- DEUT --> P(SPECT) P PI- E-
[1166] E- DEUT --> N(SPECT) N PI+ E-
[1167] E- DEUT --> P N PIO E-
[1168] E- DEUT --> P(SPECT) N(1520)D10 E- + N(SPECT) N(1520)D1+ E-
[1169] E- DEUT --> P(SPECT) N(1700)D10 E- + N(SPECT) N(1700)D1+ E-
[1170] E- DEUT --> P(SPECT) DELO E- + N(SPECT) DEL+ E-
[1171] E- HE3 --> E- HE3
[1172] E- HE --> E- HE
[1173] E- LI --> (NOT ENCODED)
[1174] E- LI --> E- ANYTHING
[1175] E- BE --> (NOT ENCODED)

[1176] E- BE --> E- ANYTHING
[1177] E- BE --> K5 ANYTHING
[1178] E- BE --> KL ANYTHING
[1179] E- BE --> N ANYTHING
[1180] E- C --> (NOT ENCODED)
[1181] E- C --> ANYTHING
[1182] E- C --> INELASTIC
[1183] E- C --> GAMMA ANYTHING
[1184] E- C --> E- C
[1185] E- C --> E- ANYTHING
[1186] E- C --> INELASTIC
[1187] E- C --> PI- ANYTHING
[1188] E- C --> MU- MU+ ANYTHING
[1189] E- MG --> E- GAMMA
[1190] E- MG --> E- ANYTHING
[1191] E- AL --> (NOT ENCODED)
[1192] E- AL --> ANYTHING
[1193] E- AL --> INELASTIC
[1194] E- AL --> E- ANYTHING
[1195] E- AL --> E- INELASTIC
[1196] E- AL --> PG PI+ E-
[1197] E- SI --> (NOT ENCODED)
[1198] E- SI --> E- ANYTHING
[1199] E- SI --> SI E- GAMMA
[1200] E- CA --> E- ANYTHING
[1201] E- VA --> TI PI+ E-
[1202] E- VA --> MN E-
[1203] E- FE --> CHARGED
[1204] E- NI --> (NOT ENCODED)
[1205] E- NI --> E- ANYTHING
[1206] E- CU --> (NOT ENCODED)
[1207] E- CU --> ANYTHING
[1208] E- CU --> E- ANYTHING
[1209] E- CU --> K+ ANYTHING
[1210] E- Y --> E- ANYTHING
[1211] E- MO --> (NOT ENCODED)
[1212] E- AG --> (NOT ENCODED)
[1213] E- SN --> (NOT ENCODED)
[1214] E- SN --> E- ANYTHING
[1215] E- TA --> (NOT ENCODED)
[1216] E- TA --> E- ANYTHING
[1217] E- TA --> E- ANYTHING
[1218] E- W7 --> (NOT ENCODED)
[1219] E- AU --> (NOT ENCODED)
[1220] E- AU --> E- ANYTHING
[1221] E- PB --> (NOT ENCODED)
[1222] E- PB --> GAMMA ANYTHING
[1223] E- PB --> E- ANYTHING
[1224] E- U --> CHARGED
[1225] E- NUCLEUS --> (NOT ENCODED)
[1226] E- NUCLEUS --> KNOWER
[1227] E- NUCLEUS --> INELASTIC
[1228] E- NUCLEUS --> E- HADRONS)
[1229] E- NUCLEUS --> MU- ANYTHING
[1230] E- NUCLEUS --> NUCLEUS E- GAMMA
[1231] E- NUCLEUS --> 2E- E+ ANYTHING
[1232] E+ ANU --> (NOT ENCODED)
[1233] E+ E- --> (NOT ENCODED)
[1234] E+ E- --> H(GAMMA)
[1235] E+ E- --> PIONS
[1236] E+ E- --> PIONS(700)
[1237] E+ E- --> RHO0
[1238] E+ E- --> OMEGA
[1239] E+ E- --> ETA
[1240] E+ E- --> RHOPRIME(125O)0
[1241] E+ E- --> RHOPRIME(1600)0
[1242] E+ E- --> V(1765)0
[1243] E+ E- --> V(1780)0
[1244] E+ E- --> V(1E40)0
[1245] E+ E- --> J/PSI(3100)0
[1246] E+ E- --> PSI(3700)0
[1247] E+ E- --> PSI(3772)0
[1248] E+ E- --> PSI(4100)0
[1249] E+ E- --> CO
[1250] E+ E- --> MICHGO-HADRON)
[1251] E+ E- --> HADRON
[1252] E+ E- --> N(HADRON)
[1253] E+ E- --> HADRONS
[1254] E+ E- --> HADRONS(5)
[1255] E+ E- --> CHARGED
[1256] E+ E- --> (NOT ENCODED)
[1257] E+ E- --> GT.4PRONG
[1258] E+ E- --> GT.3PRONG
[1259] E+ E- --> GT.2PRONG
[1260] E+ E- --> N(PRONG)
[1261] E+ E- --> NEUTRALS
[1262] E+ E- --> ANYTHING
[1263] E+ E- --> GAMMA
[1264] E+ E- --> GAMMA PIO
[1265] E+ E- --> GAMMA ETA
[1266] E+ E- --> GAMMA ETAPRIME
[1267] E+ E- --> GAMMA PCI3300-350)0
[1268] E+ E- --> GAMMA CHI(3415)
[1269] E+ E- --> GAMMA CHI(3550)
[1270] E+ E- --> GAMMA CHI(3550)
[1271] E+ E- --> GAMMA HADRONS
[1272] E+ E- --> GAMMA .GT.2PRONG
[1273] E+ E- --> GAMMA ANYTHING
[1274] E+ E- --> MEGAMMAI PRONG

[1275] E+ E- --> GAMMAS PRONG
[1276] E+ E- --> LEPTON(S) HADRON(S)
[1277] E+ E- --> LEPTONS HADRONS
[1278] E+ E- --> E- PRONG
[1279] E+ E- --> E- ANYTHING
[1280] E+ E- --> E+ E-
[1281] E+ E- --> E+ ANYTHING
[1282] E+ E- --> MU- ANYTHING
[1283] E+ E- --> MU+ MU-
[1284] E+ E- --> MU+ ANYTHING
[1285] E+ E- --> HVY-LEPTENO ANYTHING
[1286] E+ E- --> HVY-LEPTON+ HVY-LEPTON-
[1287] E+ E- --> 2HVY-LEPTON
[1288] E+ E- --> HVY-LEPTON ANYTHING
[1289] E+ E- --> TAU+ TAU-
[1290] E+ E- --> PION(S) ANYTHING
[1291] E+ E- --> PIGN ANYTHING
[1292] E+ E- --> PI+ RHO-
[1293] E+ E- --> PI+ ANYTHING
[1294] E+ E- --> 2PIO
[1295] E+ E- --> PIO RHOO
[1296] E+ E- --> PIO CHEGA
[1297] E+ E- --> PIO ANYTHING
[1298] E+ E- --> PI- PI+
[1299] E+ E- --> PI- RHO+
[1300] E+ E- --> PI- ANYTHING
[1301] E+ E- --> ETA CHEGA
[1302] E+ E- --> ETA J/PSI(3100)
[1303] E+ E- --> ETA ANYTHING
[1304] E+ E- --> J/PSI(3100)0 HADRONS
[1305] E+ E- --> J/PSI(3100)0 ANYTHING
[1306] E+ E- --> PSI(3700)0 ANYTHING
[1307] E+ E- --> KAON(S) ANYTHING
[1308] E+ E- --> KAONS ANYTHING
[1309] E+ E- --> K+ ANYTHING
[1310] E+ E- --> KO PRONG(S)
[1311] E+ E- --> KS ANYTHING
[1312] E+ E- --> KL KS
[1313] E+ E- --> K- K+
[1314] E+ E- --> K- ANYTHING
[1315] E+ E- --> KAON ANYTHING
[1316] E+ E- --> D+ ANYTHING
[1317] E+ E- --> DO D*(2010)0
[1318] E+ E- --> DO ANYTHING
[1319] E+ E- --> ADO DO
[1320] E+ E- --> D- D+
[1321] E+ E- --> D*(2010)+ ANYTHING
[1322] E+ E- --> AD*(2010)0 D*(2010)0
[1323] E+ E- --> P ANYTHING
[1324] E+ E- --> AN ANYTHING
[1325] E+ E- --> AP P
[1326] E+ E- --> AP ANYTHING
[1327] E+ E- --> LAMBDA MM.GE.2
[1328] E+ E- --> ALAMBDA LAMBDA
[1329] E+ E- --> BARYON ANYTHING
[1330] E+ E- --> 2HADRON
[1331] E+ E- --> .GT.4PRONG CHARGED
[1332] E+ E- --> 2PRONG
[1333] E+ E- --> ANYTHING HADRON
[1334] E+ E- --> ANYTHING CHARGED
[1335] E+ E- --> 3GAMMA
[1336] E+ E- --> 2GAMMA ANYTHING
[1337] E+ E- --> GAMMA 2PRONG
[1338] E+ E- --> GAMMA 3PRONG
[1339] E+ E- --> E- E+ GAMMA
[1340] E+ E- --> E- E+ NI PRONG)
[1341] E+ E- --> E- E+ NEUTRALS
[1342] E+ E- --> E- E+ ANYTHING
[1343] E+ E- --> E- HADRON(S) ANYTHING
[1344] E+ E- --> E+ HADRON(S) ANYTHING
[1345] E+ E- --> MU- E+ MM.GE.2
[1346] E+ E- --> MU- E- ANYTHING
[1347] E+ E- --> MU- MU+ PRONG(S)
[1348] E+ E- --> MU- MU+ NEUTRALS)
[1349] E+ E- --> MU- MU+ ANYTHING
[1350] E+ E- --> MU+ E- MM.GE.2
[1351] E+ E- --> MU+ E- ANYTHING
[1352] E+ E- --> HVY-LEPTON- HVY-LEPTON+ ANYTHING
[1353] E+ E- --> PIO(S) GAMMA(S) ANYTHING
[1354] E+ E- --> 2PI+ ANYTHING
[1355] E+ E- --> PI+ PIO PI-
[1356] E+ E- --> PI+ PI- GAMMA
[1357] E+ E- --> PI+ PI- PIO(S)
[1358] E+ E- --> PI+ PI- PRONG(S)
[1359] E+ E- --> PI+ PI- MM.GE.2
[1360] E+ E- --> PI+ PI- ANYTHING
[1361] E+ E- --> KPI- ANYTHING
[1362] E+ E- --> RHOO PI+ PI-
[1363] E+ E- --> ONEGA PI+ PI-
[1364] E+ E- --> ETAPRIME E- E+
[1365] E+ E- --> F PI+ PI-
[1366] E+ E- --> J/PSI(3100)0 2GAMMA
[1367] E+ E- --> J/PSI(3100)0 GAMMA ANYTHING
[1368] E+ E- --> J/PSI(3100)0 PI+ PI-
[1369] E+ E- --> K+ PI- ANYTHING
[1370] E+ E- --> K+ K- ANYTHING
[1371] E+ E- --> K+ K- ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[1372] E+ E- --> 2KS ANYTHING
[1373] E+ E- --> KS K- PI+
[1374] E+ E- --> K- PI+ ANYTHING
[1375] E+ E- --> K- PI- ANYTHING
[1376] E+ E- --> AD*(2010)0 DD ANYTHING
[1377] E+ E- --> P AP GAMMA
[1378] E+ E- --> P AP PI0
[1379] E+ E- --> P AP ANYTHING
[1380] E+ E- --> 2CHGD-HADRON HADRON(S)
[1381] E+ E- --> HADRON+ HADRON- ANYTHING
[1382] E+ E- --> 2HADRON HADRON(S)
[1383] E+ E- --> 3PRONG
[1384] E+ E- --> 3GAMMA ANYTHING
[1385] E+ E- --> 2GAMMA 2PRONG
[1386] E+ E- --> GAMMA 3PRONG
[1387] E+ E- --> 0GAMMA 3PRONG
[1388] E+ E- --> ZLEPTON ZHADRON
[1389] E+ E- --> 3E- ANYTHING
[1390] E+ E- --> 2E- 2E+
[1391] E+ E- --> 2E- HADRONS ANYTHING
[1392] E+ E- --> 2E- 2GAMMA
[1393] E+ E- --> E- E+ HADRONS ANYTHING
[1394] E+ E- --> 2E+ HADRONS ANYTHING
[1395] E+ E- --> MU- MU+ GAMMA
[1396] E+ E- --> MU- MU+ E- E+
[1397] E+ E- --> 2PI+ 2PI-
[1398] E+ E- --> PI+ PI- PI-
[1399] E+ E- --> PI+ PI- 2GAMMA
[1400] E+ E- --> PI+ PI- E- E+
[1401] E+ E- --> PI+ PI- MU- MU+
[1402] E+ E- --> K+ K- PI+ PI-
[1403] E+ E- --> KS PI+ PI- ANYTHING
[1404] E+ E- --> P AP PI+ PI-
[1405] E+ E- --> 4PRONG
[1406] E+ E- --> 3GAMMA 2PRONG
[1407] E+ E- --> 2GAMMA 3PRONG
[1408] E+ E- --> GAMMA 4PRONG
[1409] E+ E- --> 0GAMMA 4PRONG
[1410] E+ E- --> 2PI+ PI0 2PI-
[1411] E+ E- --> 2PI+ 2PI- GAMMA
[1412] E+ E- --> 2PI+ 2PI- PI0(S)
[1413] E+ E- --> 2PI+ 2PI- MM-GE-2
[1414] E+ E- --> 2PI+ 2PI- ANYTHING
[1415] E+ E- --> 0HOD 2PI+ 2PI-
[1416] E+ E- --> F 2PI+ 2PI-
[1417] E+ E- --> K+ PI+ 2PI- ANYTHING
[1418] E+ E- --> K+ K- 3PI- ANYTHING
[1419] E+ E- --> K+ K- PI+ PI- GAMMA
[1420] E+ E- --> K- 2PI+ PI- ANYTHING
[1421] E+ E- --> P AP PI+ PI- GAMMA
[1422] E+ E- --> ANGELS ANYTHING
[1423] E+ E- --> 3GAMMA 3PRONG
[1424] E+ E- --> 2GAMMA 4PRONG
[1425] E+ E- --> GAMMA 5PRONG
[1426] E+ E- --> 0GAMMA 5PRONG
[1427] E+ E- --> 3PI+ 3PI-
[1428] E+ E- --> 6PRONG
[1429] E+ E- --> 5GAMMA 2PRONG
[1430] E+ E- --> 4GAMMA 3PRONG
[1431] E+ E- --> 3GAMMA 4PRONG
[1432] E+ E- --> 2GAMMA 5PRONG
[1433] E+ E- --> GAMMA 6PRONG
[1434] E+ E- --> 0GAMMA 6PRONG
[1435] E+ E- --> 3PI+ PI0 3PI-
[1436] E+ E- --> 3PI+ 3PI- GAMMA
[1437] E+ E- --> 3PI+ 3PI- PI0(S)
[1438] E+ E- --> 3PI+ 3PI- ANYTHING
[1439] E+ E- --> 6GAMMA 2PRONG
[1440] E+ E- --> 5GAMMA 3PRONG
[1441] E+ E- --> 4GAMMA 4PRONG
[1442] E+ E- --> 3GAMMA 5PRONG
[1443] E+ E- --> 2GAMMA 6PRONG
[1444] E+ E- --> GAMMA 7PRONG
[1445] E+ E- --> 0GAMMA 7PRONG
[1446] E+ E- --> 8PRONG
[1447] E+ E- --> 7GAMMA 2PRONG
[1448] E+ E- --> 6GAMMA 3PRONG
[1449] E+ E- --> 5GAMMA 4PRONG
[1450] E+ E- --> 4GAMMA 5PRONG
[1451] E+ E- --> 3GAMMA 6PRONG
[1452] E+ E- --> 2GAMMA 7PRONG
[1453] E+ E- --> GAMMA 8PRONG
[1454] E+ E- --> 0GAMMA 8PRONG
[1455] E+ E- --> 4PI+ PI0 4PI-
[1456] E+ E- --> 4PI+ 4PI- PI0(S)
[1457] E+ E- --> 7GAMMA 3PRONG
[1458] E+ E- --> 6GAMMA 4PRONG
[1459] E+ E- --> 5GAMMA 5PRONG
[1460] E+ E- --> 4GAMMA 6PRONG
[1461] E+ E- --> 3GAMMA 7PRONG
[1462] E+ E- --> 2GAMMA 8PRONG
[1463] E+ E- --> GAMMA 9PRONG
[1464] E+ E- --> 0GAMMA 9PRONG
[1465] E+ E- --> 7GAMMA 4PRONG
[1466] E+ E- --> 6GAMMA 5PRONG
[1467] E+ E- --> 5GAMMA 6PRONG
[1468] E+ E- --> 4GAMMA 7PRONG
[1469] E+ E- --> 3GAMMA 8PRONG
[1470] E+ E- --> 2GAMMA 9PRONG

[1471] E+ E- --> GAMMA 10PRONG
[1472] E+ E- --> 0GAMMA 10PRONG
[1473] E+ E- --> 7GAMMA 3PRONG
[1474] E+ E- --> 6GAMMA 4PRONG
[1475] E+ E- --> 5GAMMA 7PRONG
[1476] E+ E- --> 4GAMMA 8PRONG
[1477] E+ E- --> 3GAMMA 9PRONG
[1478] E+ E- --> 2GAMMA 10PRONG
[1479] E+ E- --> 7GAMMA 6PRONG
[1480] E+ E- --> 6GAMMA 7PRONG
[1481] E+ E- --> 5GAMMA 8PRONG
[1482] E+ E- --> 4GAMMA 9PRONG
[1483] E+ E- --> 3GAMMA 10PRONG
[1484] E+ E- --> 7GAMMA 7PRONG
[1485] E+ E- --> 6GAMMA 8PRONG
[1486] E+ E- --> 5GAMMA 9PRONG
[1487] E+ E- --> 4GAMMA 10PRONG
[1 88] E+ E- --> 7GAMMA 8PRONG
[1489] E+ E- --> 6GAMMA 9PRONG
[1490] E+ E- --> 5GAMMA 10PRONG
[1491] E+ E- --> 7GAMMA 9PRONG
[1492] E+ E- --> 6GAMMA 10PRONG
[1493] E+ E- --> 7GAMMA 10PRONG
[1494] E+ E- --> CC + MU+ E-
[1495] E+ E- --> E- .GT.2PRONG + E+
.GT.2PRONG
[1496] E+ E- --> MU- PRONG + MU+ PRONG
[1497] E+ E- --> MU- ANYTHING + MU+
ANYTHING
[1498] E+ E- --> MU+ E- + E+ MU-
[1499] E+ E- --> PI+ ANYTHING + PI-
ANYTHING
[1500] E+ E- --> K+ ANYTHING + K-
ANYTHING
[1501] E+ E- --> D+ ANYTHING + D-
ANYTHING
[1502] E+ E- --> DD ANYTHING + ADD
ANYTHING
[1503] E+ E- --> AD*(2010)0 DD + ADD
D*(2010)0
[1504] E+ E- --> D*(2010)- D+ + D-
D*(2010)+
[1505] E+ E- --> AD*(2150)0 DD + ADD
D*(2150)0
[150A] E+ E- --> P ANYTHING + AP ANYTHING
[1507] E+ E- --> LAMBDA ANYTHING +
ALAMBDA ANYTHING
[1508] E+ E- --> ANYTHING TAU+ + ANYTHING
TAU-
[1509] E+ E- --> ANYTHING HADRON+ +
ANYTHING HADRON-
[1510] E+ E- --> MU- E+ NU(S) + MU+ E-
NU(S)
[1511] E+ E- --> MU- E+ NEUTRALS + MU+ E-
NEUTRALS
[1512] E+ E- --> MU- E+ ANYTHING + MU+ E-
ANYTHING
[1513] E+ E- --> MU- CHARGED NEUTRALS(S) +
MU+ CHARGED NEUTRAL(S)
[1514] E+ E- --> P1+ E- .GT.2PRONG + P1-
E+ .GT.2PRONG
[1515] E+ E- --> P1+ E- NEUTRALS + P1- E+
NEUTRALS
[1516] E+ E- --> K+ E- .GT.2PRONG + K- E+
.GT.2PRONG
[1517] E+ E- --> K+ E- NEUTRALS + K- E+
NEUTRALS
[1518] E+ E- --> K+ K- PI- ANYTHING + K- PI+
ANYTHING
[1519] E+ E- --> K+ KS ANYTHING + KS K-
ANYTHING
[1520] E+ E- --> K+ .- GAMMA + PI+ PI-
GAMMA
[1521] E+ E- --> K5 E- ANYTHING + K5 E+
ANYTHING
[1522] E+ E- --> K5 PI+ ANYTHING + K5 PI-
ANYTHING
[1523] E+ E- --> 2PRONG + 4PRONG
[1524] E+ E- --> GAMMA 3PRONG + GAMMA
4PRONG
[1525] E+ E- --> 2P1+ PI- E- + P1+ 2P1-
E+
[1526] E+ E- --> 2P1+ P1- ANYTHING + P1+
2P1- ANYTHING
[1527] E+ E- --> K+ P1+ P1- ANYTHING + K-
P1+ P1- ANYTHING
[1528] E+ E- --> K+ 2P1- ANYTHING + K-
P1+ ANYTHING
[1529] E+ E- --> K+ RHO0 P1- ANYTHING + K-
K- RHO0 P1+ ANYTHING
[1530] E+ E- --> K+ K- P1+ ANYTHING + K+
K- P1- ANYTHING
[1531] E+ E- --> KS MU- E+ NEUTRALS + KS
MU+ E- NEUTRALS
[1532] E+ E- --> F+ ETA P1- GAMMA + F-
ETA P1+ GAMMA
[1533] E+ E- --> K+ P1+ 2P1- GAMMA + K-
2P1+ P1- GAMMA
[1534] E+ E- --> K- K+ + P1- P1+ + MU+
MU-

[1535] E+ E- --> AP P + MU+ MU- + E+ E-
[1536] E+ E- --> 2K+ 2P1- ANYTHING + K+
K- P1+ P1- ANYTHING + 2K- 2P1+
ANYTHING
[1537] E+ E- --> MU- E- ANYTHING + MU- E+
ANYTHING + MU+ E- ANYTHING + MU+
E+ ANYTHING
[1538] E+ E- --> 2E+
[1539] E+ E- --> P --> (NOT ENCODED)
[1540] E+ E- --> P --> INELASTIC
[1541] E+ E- --> P --> E- ANYTHING
[1542] E+ E- --> P --> E+ P
[1543] E+ E- --> P --> E+ ANYTHING
[1544] E+ E- --> P --> N ANYTHING
[1545] E+ E- --> P --> E+ GAMMA ANYTHING
[1546] E+ E- --> P --> K+ E+ ANYTHING
[1547] E+ E- --> P --> P PI0 E+
[1548] E+ E- --> P --> N PI+ E+
[1549] E+ E- --> P --> LAMBDA K+ E+
[1550] E+ E- --> P --> LAM(1520)0 K+ E+
[1551] E+ E- --> P --> SIGMA0 K+ E+
[1552] E+ E- --> P --> E- E+ ANYTHING
[1553] E+ E- --> P --> SIGI(385P13)0 K+ E+ +
LAM(1455)0 K+ E+
[1554] E+ N --> E+ ANYTHING
[1555] E+ NUCLEON --> (NOT ENCODED)
[1556] E+ DEUT --> E- 2PRONG
[1557] E+ DEUT --> E+ ANYTHING
[1558] E+ C --> E+ INELASTIC
[1559] E+ AL --> (NOT ENCODED)
[1560] E+ AU --> E+ INELASTIC
[1561] E+ AU --> (NOT ENCODED)
[1562] E+ NUCLEUS --> (NOT ENCODED)
[1563] E+ NUCLEUS --> E- E+ ANYTHING
[1564] MU- E- --> (NOT ENCODED)
[1565] MU- E- --> E- MU-
[1566] MU- P --> (NOT ENCODED)
[1567] MU- P --> MU- P
[1568] MU- P --> MU- HADRONS
[1569] MU- P --> MU- HADRON(S)
[1570] MU- P --> MU- ANYTHING
[1571] MU- P --> RHO0 MU- ANYTHING
[1572] MU- P --> RHOPRIME(1600)0 MU-
ANYTHING
[1573] MU- P --> P RHO0 MU-
[1574] MU- P --> P OMEGA MU-
[1575] MU- P --> P ETA MU-
[1576] MU- P --> P RHOPRIME(1600)0 MU-
[1577] MU- P --> P PI+ PI- MU-
[1578] MU- P --> P PI+ PI0 PI- MU-
[1579] MU- P --> P 2PI+ 2PI- MU-
[1580] MU- N --> (NOT ENCODED)
[1581] MU- N --> MU- HADRON(S)
[1582] MU- NUCLEON --> ANYTHING
[1583] MU- NUCLEON --> MU- ANYTHING
[1584] MU- NUCLEON --> 2MU- ANYTHING
[1585] MU- NUCLEON --> MU+ ANYTHING
[1586] MU- NUCLEON --> 3MU- ANYTHING
[1587] MU- NUCLEON --> 2MU+ MU- ANYTHING
[1588] MU- NUCLEON --> MU- 2MU+ ANYTHING
[1589] MU- DEUT --> (NOT ENCODED)
[1590] MU- DEUT --> MU- ANYTHING
[1591] MU- DEUT --> RHO0 MU- ANYTHING
[1592] MU- DEUT --> RHOPRIME(1600)0 MU-
ANYTHING
[1593] MU- BE --> MU- ANYTHING
[1594] MU- BE --> MU- GAMMA ANYTHING
[1595] MU- C --> MU- MM
[1596] MU- C --> MU- ANYTHING
[1597] MU- C --> ZHE T N MU
[1598] MU- SU --> (NOT ENCODED)
[1599] MU- SU --> (NOT ENCODED)
[1600] MU- SU --> E- SU
[1601] MU- FE --> (NOT ENCODED)
[1602] MU- FE --> PRONG
[1603] MU- FE --> MU- ANYTHING
[1604] MU- FE --> 2PRONG
[1605] MU- CU --> (NOT ENCODED)
[1606] MU- CU --> E+ CO
[1607] MU- CU --> MU- ANYTHING
[1608] MU- PB --> (NOT ENCODED)
[1609] MU- AG --> (NOT ENCODED)
[1610] MU- SN --> MU- ANYTHING
[1611] MU- PB --> (NOT ENCODED)
[1612] MU- PB --> MU- ANYTHING
[1613] MU- NUCLEUS --> (NOT ENCODED)
[1614] MU- NUCLEUS --> INELASTIC
[1615] MU- NUCLEUS --> MU- ANYTHING
[1616] MU- NUCLEUS --> E- E+ ANYTHING
[1617] MU- NUCLEUS --> 2MU- MU+ ANYTHING
[1618] MU+ E- --> (NOT ENCODED)
[1619] MU+ P --> (NOT ENCODED)
[1620] MU+ P --> MI PRONG)
[1621] MU+ P --> INELASTIC
[1622] MU+ P --> MU+ P
[1623] MU+ P --> MU+ CHARGED
[1624] MU+ P --> MU+ .GT.2PRONG
[1625] MU+ P --> MU+ P+
[1626] MU+ P --> MU+ MI PRONG)

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[1627] MU+ P --> MU+ ANYTHING
[1628] MU+ P --> P ANYTHING
[1629] MU+ P --> MU+ CHARGED+ ANYTHING
[1630] MU+ P --> MU+ CHARGED- ANYTHING
[1631] MU+ P --> PI- MU+ ANYTHING
[1632] MU+ P --> P RHO0 MU+
[1633] MU+ P --> P OMEGA MU+
[1634] MU+ P --> MU+ HADRON+ HADRON- ANYTHING
[1635] MU+ P --> MU+ P PI+ PI- MU+
[1636] MU+ P --> P PI+ PI- MU+
[1637] MU+ P --> P 2PI0 PI- MU+
[1638] MU+ P --> MU+ 3PI0
[1639] MU+ P --> MU+ 2PRONG
[1640] MU+ N --> MU+ HADRONS
[1641] MU+ N --> MU+ HADRON+ HADRON- ANYTHING
[1642] MU+ NUCLEON --> INELASTIC
[1643] MU+ NUCLEON --> MU+ ANYTHING
[1644] MU+ NUCLEON --> MU+ MU+ ANYTHING
[1645] MU+ NUCLEON --> 2MU+ ANYTHING
[1646] MU+ NUCLEON --> 2MU- MU+ ANYTHING
[1647] MU+ NUCLEON --> MU- 2MU+ ANYTHING
[1648] MU+ NUCLEON --> 3MU+ ANYTHING
[1649] MU+ DEUT --> MU+ ANYTHING
[1650] MU+ DEUT --> ANYTHING HADRON
[1651] MU+ BE --> MU+ ANYTHING
[1652] MU+ BE --> MU+ GAMMA ANYTHING
[1653] MU+ C --> MU+ ANYTHING
[1654] MU+ C --> MU- MU+ MU+ ANYTHING
[1655] MU+ AL --> MU+ ANYTHING
[1656] MU+ AL --> > MU+ AL + MU+ ANYTHING
[1657] MU+ FE --> PRONG
[1658] MU+ FE --> MU+ ANYTHING
[1659] MU+ FE --> MUV-LEPTON ANYTHING
[1660] MU+ FE --> 2PRONG
[1661] MU+ FE --> MU- 2MU+ ANYTHING
[1662] MU+ CU --> MU+ ANYTHING
[1663] MU+ CU --> > MU+ CU + MU+ ANYTHING
[1664] MU+ SN --> > MU+ SN + MU+ ANYTHING
[1665] MU+ PB --> MU+ ANYTHING
[1666] MU+ PB --> > MU+ PB + MU+ ANYTHING
[1667] MU+ NUCLEUS --> (NOT ENCODED)
[1668] MU+ NUCLEUS --> MU- 2MU+ ANYTHING
[1669] MUON E- --> (NOT ENCODED)
[1670] MUON P --> (NOT ENCODED)
[1671] MUON P --> NIPRONG
[1672] MUON P --> MUON P
[1673] MUON P --> MUON HADRONS
[1674] MUON P --> MUON PRONG
[1675] MUON P --> MUON ANYTHING
[1676] MUON P --> P ANYTHING
[1677] MUON P --> MUON NEUTRALS ANYTHING
[1678] MUON P --> P RHO0 MUON
[1679] MUON P --> P PI+ PI- MUON
[1680] MUON NUCLEON --> (NOT ENCODED)
[1681] MUON NUCLEON --> MUON ANYTHING
[1682] MUON NUCLEON --> RHO0 ANYTHING
[1683] MUON NUCLEON --> 2MU0N ANYTHING
[1684] MUON NUCLEON --> 3MU0N ANYTHING
[1685] MUON QELT --> (NOT ENCODED)
[1686] MUON C --> (NOT ENCODED)
[1687] MUON O --> SHE N MUON
[1688] MUON MG --> N ANYTHING
[1689] MUON AL --> (NOT ENCODED)
[1690] MUON SI --> N ANYTHING
[1691] MUON FE --> (NOT ENCODED)
[1692] MUON FE --> MUON ANYTHING
[1693] MUON CU --> (NOT ENCODED)
[1694] MUON CD --> (NOT ENCODED)
[1695] MUON PB --> (NOT ENCODED)
[1696] MUON PB --> N ANYTHING
[1697] MUON NUCLEUS --> (NOT ENCODED)
[1698] MUON NUCLEUS --> ANYTHING
[1699] MUON NUCLEUS --> E- E+ ANYTHING
[1700] PION E- --> (NOT ENCODED)
[1701] PION PION --> (NOT ENCODED)
[1702] PION PION --> 2PION
[1703] PION PION --> KACN KACN
[1704] PION P --> (NOT ENCODED)
[1705] PION P --> PION P
[1706] PION P --> P QQ < PI+ PI- PION >
[1707] PION P --> QQ < PI+ PI- PION > QQ < NUCLEON PION >
[1708] PION P --> P SPION
[1709] PION NUCLEON --> (NOT ENCODED)
[1710] PION NUCLEON --> MUON ANYTHING
[1711] PION NUCLEON --> NUCLEON 2PION
[1712] PION NUCLEON --> PSI(3730)C MU- MU+ ANYTHING
[1713] PION DEUT --> (NOT ENCODED)
[1714] PION QELT --> PION DEUT
[1715] PION HE --> (NOT ENCODED)
[1716] PION BE --> (NOT ENCODED)
[1717] PION C --> (NOT ENCODED)
[1718] PION NE --> (NOT ENCODED)
[1719] PION AL --> (NOT ENCODED)
[1720] PION TI --> (NOT ENCODED)
[1721] PION FE --> (NOT ENCODED)
[1722] PION CU --> (NOT ENCODED)
[1723] PION XE --> (NOT ENCODED)
[1724] PION CD --> (NOT ENCODED)
[1725] PION PB --> (NOT ENCODED)
[1726] PION U --> (NOT ENCODED)
[1727] PION NUCLEUS --> (NOT ENCODED)
[1728] PION NUCLEUS --> NCHARGED
[1729] PION NUCLEUS --> PRONG
[1730] PI+ E- --> E- PI+
[1731] PI+ PI+ --> (NOT ENCODED)
[1732] PI+ PI+ --> 2PI+
[1733] PI+ PI+ --> 3PI+ PI-
[1734] PI+ PI- --> (NOT ENCODED)
[1735] PI+ PI- --> (NOT ENCODED)
[1736] PI+ PI- --> 2PI0
[1737] PI+ PI- --> PI0 OMEGA
[1738] PI+ PI- --> PI+
[1739] PI+ PI- --> 2KS
[1740] PI+ PI- --> AKO KO
[1741] PI+ P --> (NOT ENCODED)
[1742] PI+ P --> DEL(1265)0++
[1743] PI+ P --> >LT>7PRONG
[1744] PI+ P --> STRANGE
[1745] PI+ P --> >3PRONG
[1746] PI+ P --> CHARGED
[1747] PI+ P --> NICHARGED
[1748] PI+ P --> >GT>5PRONG
[1749] PI+ P --> >GT>3PRONG
[1750] PI+ P --> NEPRONG
[1751] PI+ P --> NEUTRALS
[1752] PI+ P --> INELASTIC
[1753] PI+ P --> QQ < ANYTHING >
[1754] PI+ P --> NO-STRANGE
[1755] PI+ P --> GAMMA ANYTHING
[1756] PI+ P --> N(GAMMA) ANYTHING
[1757] PI+ P --> GAMMA(S) ANYTHING
[1758] PI+ P --> E+ ANYTHING
[1759] PI+ P --> MU- ANYTHING
[1760] PI+ P --> MU+ ANYTHING
[1761] PI+ P --> PI(CN)S ANYTHING
[1762] PI+ P --> PI(CN)S NUCLEON
[1763] PI+ P --> PION PI(N)I+3/2I
[1764] PI+ P --> PION PI(N)I+3/2I
[1765] PI+ P --> PI0(S) ANYTHING
[1766] PI+ P --> N(PI0) PRONG
[1767] PI+ P --> PI0 ANYTHING
[1768] PI+ P --> N(PI0) PRONG
[1769] PI+ P --> N(PI0) ANYTHING
[1770] PI+ P --> N(PI-) ANYTHING
[1771] PI+ P --> PI+ PRONG
[1772] PI+ P --> PI+ N(1473)0+
[1773] PI+ P --> PI+ N(1520)03)+
[1774] PI+ P --> PI+ N(1520)0+
[1775] PI+ P --> PI+ N(1680)5)+
[1776] PI+ P --> PI+ N(1700)0+
[1777] PI+ P --> PI+ N(1780)1I)+
[1778] PI+ P --> PI+ N(1780)3I)+
[1779] PI+ P --> PI+ PI(N)I+1/2I
[1780] PI+ P --> PI+ DEL+
[1781] PI+ P --> PI+ PI(N)I+3/2I
[1782] PI+ P --> PI+ N*(UNSPEC)+
[1783] PI+ P --> PI+ PRONG
[1784] PI+ P --> PI+ P
[1785] PI+ P --> PI+ P
[1786] PI+ P --> PI+ QQ < P PI0 >
[1787] PI+ P --> PI+ QQ < N PI+ >
[1788] PI+ P --> PI+ QQ < DELTA++ PI- >
[1789] PI+ P --> PI+ QQ < DEL++ PI- >
[1790] PI+ P --> PI0 PI(N)I+1/2I
[1791] PI+ P --> PI0 DEL++
[1792] PI+ P --> PI+ N(1688)6)+
[1793] PI+ P --> PI0 N(PRONG)I
[1794] PI+ P --> PI0 ANYTHING
[1795] PI+ P --> PI0 ANYTHING
[1796] PI+ P --> PI- EXOTIC-NUCLEON
[1797] PI+ P --> PI- PRONG
[1798] PI+ P --> PI- ANYTHING
[1799] PI+ P --> ETA DEL++
[1800] PI+ P --> ETA CHARGED
[1801] PI+ P --> ETA ANYTHING
[1802] PI+ P --> ETA < MU- MU+ > ANYTHING
[1803] PI+ P --> N(PHI0) ANYTHING
[1804] PI+ P --> RHO+ P
[1805] PI+ P --> RHO+ DEL+
[1806] PI+ P --> RHO0 DEL++
[1807] PI+ P --> RHO0 DEL(1880)I++
[1808] PI+ P --> RHO0 DEL(1905)5I++
[1809] PI+ P --> RHO0 DEL(1950)F37I++
[1810] PI+ P --> RHO0 DEL(1950)H9)++
[1811] PI+ P --> RHO0 DEL(UNSPEC)++
[1812] PI+ P --> RHO0 CHARGED
[1813] PI+ P --> RHO0 ANYTHING
[1814] PI+ P --> OMEGA DEL++
[1815] PI+ P --> OMEGA DEL(1880)8I++
[1816] PI+ P --> OMEGA DEL(1890)F35)++
[1817] PI+ P --> OMEGA DEL(UNSPEC)++
[1818] PI+ P --> OMEGA CHARGED
[1819] PI+ P --> OMEGA ANYTHING
[1820] PI+ P --> OMEGA < MU- MU+ > ANYTHING
[1821] PI+ P --> ETAPRIME DEL++
[1822] PI+ P --> ETAPRIME DEL(UNSPEC)++
[1823] PI+ P --> ETAPRIME ANYTHING
[1824] PI+ P --> H(990) DEL++
[1825] PI+ P --> H(994) DEL(UNSPEC)++
[1826] PI+ P --> PHI DEL++
[1827] PI+ P --> PHI ANYTHING
[1828] PI+ P --> A1(1100)+ P
[1829] PI+ P --> A1(1100)+ QQ < P PI0 >
[1830] PI+ P --> A1(1100)+ QQ < N PI+ >
[1831] PI+ P --> A1(1100)0 DEL++
[1832] PI+ P --> A1,5(1170)+ P
[1833] PI+ P --> A1(1235)++ P
[1834] PI+ P --> B(1235)0 DEL++
[1835] PI+ P --> N(F) ANYTHING
[1836] PI+ P --> F DEL++
[1837] PI+ P --> F DEL(1880)8)++
[1838] PI+ P --> F DEL(1950)F37)++
[1839] PI+ P --> F ANYTHING
[1840] PI+ P --> D(1285) DEL++
[1841] PI+ P --> A2(1310)+ P
[1842] PI+ P --> A2(1310)0 DEL++
[1843] PI+ P --> A2(1310)0 ANYTHING
[1844] PI+ P --> RHOPPI(E(1600)+ P
[1845] PI+ P --> A3(1640)+ P
[1846] PI+ P --> OMEGA(1675) DEL++
[1847] PI+ P --> OMEGA ANYTHING
[1848] PI+ P --> G(1680)0 DEL++
[1849] PI+ P --> G(1680)0 ANYTHING
[1850] PI+ P --> N(1900)F P
[1851] PI+ P --> S(1930)- P
[1852] PI+ P --> T(2300)++ P
[1853] PI+ P --> K+ K*(892)0 P
[1854] PI+ P --> S(2340)+ P
[1855] PI+ P --> U(2360)+ P
[1856] PI+ P --> X(2500-3800)I P
[1857] PI+ P --> N(K5) PRONG
[1858] PI+ P --> K+ SIGMA+
[1859] PI+ P --> K+ SIG(1385P13)+
[1860] PI+ P --> K+ SIG(1660)0+
[1861] PI+ P --> K+ SIG(1670)0+
[1862] PI+ P --> K+ SIG(1690)0+
[1863] PI+ P --> K+ SIG(1915)F25)+
[1864] PI+ P --> K+ ANYTHING
[1865] PI+ P --> KO ANYTHING
[1866] PI+ P --> KS ANYTHING
[1867] PI+ P --> K- N(2100)
[1868] PI+ P --> K*(892)+ SIGMA+
[1869] PI+ P --> K*(892)+ SIG(1385P13)+
[1870] PI+ P --> K*(892)+ N
[1871] PI+ P --> K*(892)+ SIG(1660)0+
[1872] PI+ P --> K*(892)+ PRONG
[1873] PI+ P --> K*(892)+ ANYTHING
[1874] PI+ P --> K*(892)+ ANYTHING
[1875] PI+ P --> K*(1420)+ SIGMA+
[1876] PI+ P --> K*(1420)+ SIG(1385P13)+
[1877] PI+ P --> K*(1420)+ SIG(1670)0+
[1878] PI+ P --> K*(1420)+ SIG(1690)0+
[1879] PI+ P --> ADD SIGMA/C(2430)++
[1880] PI+ P --> EXOTIC-MESON N
[1881] PI+ P --> EXOTIC-MESON LAMBDA
[1882] PI+ P --> P PRONG
[1883] PI+ P --> P ANYTHING
[1884] PI+ P --> P QQ < P PI0 P+ >
[1885] PI+ P --> P QQ < 2PI+ PI- >
[1886] PI+ P --> P QQ < K+ K- PI+ >
[1887] PI+ P --> P ANYTHING
[1888] PI+ P --> AP ANYTHING
[1889] PI+ P --> DEL++ PRONG
[1890] PI+ P --> DEL++ ALPHA(AG)
[1891] PI+ P --> DEL++ ANYTHING
[1892] PI+ P --> DEL(1880)E++ ANYTHING
[1893] PI+ P --> LAMBDA ANYTHING
[1894] PI+ P --> ALAMBDA ANYTHING
[1895] PI+ P --> SIG(1385P13)+ PRONG
[1896] PI+ P --> SIG(1385P13)+ ANYTHING
[1897] PI+ P --> SIG(1385P13)- ANYTHING
[1898] PI+ P --> HYPERON ANYTHING
[1899] PI+ P --> DEUT ANYTHING
[1900] PI+ P --> DEUT ANYTHING
[1901] PI+ P --> CHARM ANYTHING
[1902] PI+ P --> CHARM ANYTHING
[1903] PI+ P --> UNSPEC STRANGE
[1904] PI+ P --> CHARGED
[1905] PI+ P --> 2PRONG
[1906] PI+ P --> ANYTHING HADRON(S)
[1907] PI+ P --> ANYTHING STRANGE
[1908] PI+ P --> ANYTHING STRANGES
[1909] PI+ P --> ANYTHING STRANGE(S)
[1910] PI+ P --> ANYTHING VEE(S)
[1911] PI+ P --> ANYTHING PRONG
[1912] PI+ P --> ANYTHING N(PRONG)
[1913] PI+ P --> ANYTHING PRONG(S)
[1914] PI+ P --> QQ < P PI0 > QQ < 2PI+ PI- >
[1915] PI+ P --> QQ < N PI+ > QQ < 2PI+ PI- >
[1916] PI+ P --> ZGAMMA ANYTHING
[1917] PI+ P --> GAMMA 2PRONG

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[1918] PI+ P --> GAMMA hPRONGI NEUTRAL(S)
[1919] PI+ P --> GAMMA(S) 2PRONG
[1920] PI+ P --> E- E+ ANYTHING
[1921] PI+ P --> MM- NU+ ANYTHING
[1922] PI+ P --> 2KU+ ANYTHING
[1923] PI+ P --> PIO(S) 2CHARGED
[1924] PI+ P --> 2PI+ MM,GE,2
[1925] PI+ P --> 2PI+ MM,GE,1
[1926] PI+ P --> 2PI+ NEUTRALS
[1927] PI+ P --> 3PI+ ANYTHING
[1928] PI+ P --> PI+ PI- ANYTHING
[1929] PI+ P --> PIO HADRON(S) ANYTHING
[1930] PI+ P --> 2KO 2PRONG
[1931] PI+ P --> 2PI- ANYTHING
[1932] PI+ P --> RHO0 2PRONG
[1933] PI+ P --> F 2PRONG
[1934] PI+ P --> GI1B010 2PRONG
[1935] PI+ P --> KL AKO ANYTHING
[1936] PI+ P --> KS 3I+ ANYTHING
[1937] PI+ P --> KS 2I- ANYTHING
[1938] PI+ P --> 2KS ANYTHING
[1939] PI+ P --> KS 2PRONG
[1940] PI+ P --> KAON KAON ,GT,2PRONG
[1941] PI+ P --> KAON KAON OPRONG
[1942] PI+ P --> KAON KAON PRONG
[1943] PI+ P --> KAON KAON ANYTHING
[1944] PI+ P --> PI+ GAMMA
[1945] PI+ P --> P PI+ GAMMA(S)
[1946] PI+ P --> P PI+ PION(S)
[1947] PI+ P --> P PI+ PI-
[1948] PI+ P --> P PI+ MM,GE,2
[1949] PI+ P --> P PI+ MM,GE,1
[1950] PI+ P --> P PI+ NEUTRAL(S)
[1951] PI+ P --> P PI+ NEUTRALS(S)
[1952] PI+ P --> P PI+ ANYTHING
[1953] PI+ P --> P ETA GAMMA
[1954] PI+ P --> P ETA PI+
[1955] PI+ P --> P ETA CHARGED
[1956] PI+ P --> P RHO+ RHO0
[1957] PI+ P --> P RHO+ PI-
[1958] PI+ P --> P RHO0 CHARGED
[1959] PI+ P --> P CHEGA PI+
[1960] PI+ P --> P OMEGA CHARGED
[1961] PI+ P --> P ETAPRIME PI+
[1962] PI+ P --> P S=(993) PI+
[1963] PI+ P --> P PHI PI+
[1964] PI+ P --> P A2(1310)+ PIO
[1965] PI+ P --> P F PI+
[1966] PI+ P --> P D1(285) PI+
[1967] PI+ P --> P A2(1310)+ PIO
[1968] PI+ P --> P A2(13)D)O PI+
[1969] PI+ P --> P FPRIME PI+
[1970] PI+ P --> P G1(1676)I PI+
[1971] PI+ P --> P G1(1820)O PI+
[1972] PI+ P --> P K+ KS
[1973] PI+ P --> P K+ AKO
[1974] PI+ P --> P K+(892)O+ AKO
[1975] PI+ P --> P AK+(89210 K+
[1976] PI+ P --> 2P AN
[1977] PI+ P --> 2P PI-
[1978] PI+ P --> P AP DEL++
[1979] PI+ P --> N 2PI+
[1980] PI+ P --> N 2PI+ PIO
[1981] PI+ P --> N A2(1310)I+ PI-
[1982] PI+ P --> N 2CHARGED+
[1983] PI+ P --> DEL++ 2GAMMA
[1984] PI+ P --> DEL++ PI+ PI-
[1985] PI+ P --> DEL++ PIO GAMMA
[1986] PI+ P --> DEL++ 2PIO
[1987] PI+ P --> DEL++ PI- N(PRONG)
[1988] PI+ P --> DEL++ PI+ GAMMA
[1989] PI+ P --> DEL++ RHO0 PIO
[1990] PI+ P --> DEL++ 2RHO0
[1991] PI+ P --> DEL++ CHEGA GAMMA
[1992] PI+ P --> DEL++ K+ K-
[1993] PI+ P --> DEL++ KO AKO
[1994] PI+ P --> DEL++ 2KS
[1995] PI+ P --> DEL++ KS KL
[1996] PI+ P --> DEL++ 2PRONG
[1997] PI+ P --> DEL++ AKO
[1998] PI+ P --> DELO 2PI+
[1999] PI+ P --> DEL(1&7CD)3)++ PI+ PI-
[2000] PI+ P --> DEL(1690P)3)++ KC AKO
[2001] PI+ P --> DEL(1905)++ PI+ PI-
[2002] PI+ P --> DEL(1950F37)++ PI+ PI-
[2003] PI+ P --> DEL(UNSPEC)++ 2PIO
[2004] PI+ P --> LAMBDA ANYTHING
[2005] PI+ P --> LAMBDA K+ PI+
[2006] PI+ P --> LAMBCA K+ RHO+
[2007] PI+ P --> LAMBDA KA ANYTHING
[2008] PI+ P --> LAMBDA KAON ,GT,2PRONG
[2009] PI+ P --> LAMBCA KAON OPRONG
[2010] PI+ P --> LAMBDA KAON PRONG
[2011] PI+ P --> LAMBDA KAON ANYTHING
[2012] PI+ P --> LAMBDA K*(892)+ PI+
[2013] PI+ P --> LAMBDA K*(142G)I+ PI+
[2014] PI+ P --> ZLAMBDA ANYTHING
[2015] PI+ P --> LAMBDA ALAMBDA ANYTHING

[2016] PI+ P --> LAMBDA 2PRONG
[2017] PI+ P --> ALAMBCA KS ANYTHING
[2018] PI+ P --> ALAMBDA 2PRONG
[2019] PI+ P --> LAM(1520D33) K+ PI+
[2020] PI+ P --> SIGMA+ K+ PIOS
[2021] PI+ P --> SIGMA+ K+ PIO
[2022] PI+ P --> SIGMA+ K+ RHOO
[2023] PI+ P --> SIGMA+ K+ MM,GE,2
[2024] PI+ P --> SIGMA+ K+ ANYTHING
[2025] PI+ P --> SIGMA+ KO PI+
[2026] PI+ P --> SIGMA+ KAON ,GT,2PRONG
[2027] PI+ P --> SIGMA+ KAON ,GT,2PRONG
[2028] PI+ P --> SIGMA+ KAON OPRONG
[2029] PI+ P --> SIGMA+ KAON PRONG
[2030] PI+ P --> SIGMA+ KAON ANYTHING
[2031] PI+ P --> SIGMA+ K*(892)3 PI+
[2032] PI+ P --> SIGMA+ 2PRONG
[2033] PI+ P --> SIGMA+ K+ PI-
[2034] PI+ P --> SIGMA- K+ ANYTHING
[2035] PI+ P --> SIGMA- KO ANYTHING
[2036] PI+ P --> SIGMA- KAON ,GT,2PRONG
[2037] PI+ P --> SIGMA- KAON OPRONG
[2038] PI+ P --> SIGMA- KAON PRONG
[2039] PI+ P --> SIGMA- KAON ANYTHING
[2040] PI+ P --> SIGMA- 2PRONG
[2041] PI+ P --> SIG(1385P13)+ K+ PIO
[2042] PI+ P --> SIG(1385P13)+ K+ MM,GE,2
[2043] PI+ P --> SIG(1385P13)+ KO PI+
[2044] PI+ P --> SIG(1385P13)O K+ PI+
[2045] PI+ P --> SIG(16738)I+ K+ PIO
[2046] PI+ P --> SIG(UNSPEC)+ K+ PIO
[2047] PI+ P --> HYPERON KAON ANYTHING
[2048] PI+ P --> HYPERON K* PION
[2049] PI+ P --> 2STRANGE PRONGS
[2050] PI+ P --> 3PRONG
[2051] PI+ P --> PI+ PIO PI- CHARGED
[2052] PI+ P --> PI+ 3PIO
[2053] PI+ P --> PI- 3PRONG
[2054] PI+ P --> K+ AKO PI+ MM,GE,2
[2055] PI+ P --> 2KS 2PI+
[2056] PI+ P --> 2KS OPRONG
[2057] PI+ P --> KAON KAON 2PRONG
[2058] PI+ P --> K*(892)+ 3PRONG
[2059] PI+ P --> P PI+ GAMMA(S) ANYTHING
[2060] PI+ P --> P 2PI+ PI-
[2061] PI+ P --> P PI+ 2PIO
[2062] PI+ P --> P PI+ VEE(S) ANYTHING
[2063] PI+ P --> P RHO+ PI+ PI-
[2064] PI+ P --> P RHO0 2PION
[2065] PI+ P --> P RHO0 PI+ PIO
[2066] PI+ P --> P RHO0 2PI+ 2PI-
[2067] PI+ P --> P RHO- 2PI+
[2068] PI+ P --> P OMEGA PI+ PIO
[2069] PI+ P --> P OMEGA PI+ PI-
[2070] PI+ P --> P A2(1310)- 2PI+
[2071] PI+ P --> P PI+ 2PI+ PI-
[2072] PI+ P --> P A2(13)5)+ PI+ PI-
[2073] PI+ P --> P A2(13)5)- 2PI+
[2074] PI+ P --> P A2(13)5)+ PIOS
[2075] PI+ P --> P K+ AKO PIO
[2076] PI+ P --> P K+ AKO MM,GE,2
[2077] PI+ P --> P K+ K- PI+
[2078] PI+ P --> P K+ AKO PI-
[2079] PI+ P --> P K+ K- 2PI+
[2080] PI+ P --> P KO AKO PI+
[2081] PI+ P --> P 2KS PIOS
[2082] PI+ P --> P 2KS PI+
[2083] PI+ P --> P 2KS PI-
[2084] PI+ P --> 2P AP PI+
[2085] PI+ P --> P NEUTRON(S) PI+
[2086] PI+ P --> P LAMBDA ALAMBDA PI+
[2087] PI+ P --> P 3PRONG
[2088] PI+ P --> N 2PI+ PIO
[2089] PI+ P --> N 2PI+ PIOS
[2090] PI+ P --> N K+ AKO PI+
[2091] PI+ P --> N(1520)I+ 2PI+ PI-
[2092] PI+ P --> N(1700)I+ 2PI+ PI-
[2093] PI+ P --> DEL++ PI+ PIO PI-
[2094] PI+ P --> DEL++ PI+ PI- MM,GE,2
[2095] PI+ P --> DEL++ 2PI+ PI-
[2096] PI+ P --> DEL++ CHEGA PI+ PI-
[2097] PI+ P --> DEL+ 2PI+ PI-
[2098] PI+ P --> DELO 2PI+ PIO
[2099] PI+ P --> LAMBDA 2PI+ MM,GE,2
[2100] PI+ P --> LAMBDA K+ PI+ PIO
[2101] PI+ P --> LAMBDA K+ PI+ PI-
[2102] PI+ P --> LAMBDA K+ PI+ MM,GE,2
[2103] PI+ P --> LAMBDA K+ RHO0 PI+
[2104] PI+ P --> LAMBDA K0 2PI+
[2105] PI+ P --> LAMBDA KS 2PI+
[2106] PI+ P --> LAMBDA KS 2PRONG
[2107] PI+ P --> LAMBDA KL 2PI+
[2108] PI+ P --> LAMBDA KAON 2PRONG
[2109] PI+ P --> LAMBDA K*(892)+ PI+ PIO
[2110] PI+ P --> LAMBDA K*(892)O 2PI+
[2111] PI+ P --> ZLAMBDA 2PRONG
[2112] PI+ P --> LAMBDA ALAMBDA 2PRONG
[2113] PI+ P --> ALAMEDA KS 2PRONG

[2114] PI+ P --> SIGMA+ K+ PI+ PI-
[2115] PI+ P --> SIGMA+ KO PI+ PIOS
[2116] PI+ P --> SIGMA+ KO PI+ PIO
[2117] PI+ P --> SIGMA+ KO PI+ MM,GE,2
[2118] PI+ P --> SIGMA+ KO 2PRONG
[2119] PI+ P --> SIGMA+ KAON 2PRONG
[2120] PI+ P --> SIGMAO KO 2PI+
[2121] PI+ P --> SIGMAO KO PI+ PI-
[2122] PI+ P --> SIGMA- K+ 2PI+
[2123] PI+ P --> SIGMA- KAON 2PRONG
[2124] PI+ P --> SIG(1385P13)+ K+ PI+ PIO
[2125] PI+ P --> SIG(1385P13)+ KO PI+ PIO
[2126] PI+ P --> SIG(1385P13)+ 3PRONG
[2127] PI+ P --> SIG(1385P13)- K+ 2PI+
[2128] PI+ P --> SIG(UNSPEC)+ K+ PI+ PI-
[2129] PI+ P --> 4CHARGED
[2130] PI+ P --> 4PRONG
[2131] PI+ P --> GAMMA 4PRONG
[2132] PI+ P --> GAMMA(S) 4PRENG
[2133] PI+ P --> PIO(S) 4CHARGED
[2134] PI+ P --> 3PI+ PI- MM,GE,2
[2135] PI+ P --> 3PI+ PI- MM,GE,1
[2136] PI+ P --> 3PI+ PI- NEUTRALS
[2137] PI+ P --> P(2) 4PRONG
[2138] PI+ P --> RHO0 4PRONG
[2139] PI+ P --> F 4PRONG
[2140] PI+ P --> GI1680)0 4PRENG
[2141] PI+ P --> KO AKO PI+ PI- ANYTHING
[2142] PI+ P --> KS 4PRONG
[2143] PI+ P --> P PI+ E+ E- GAMMA
[2144] PI+ P --> P 2PI+ PIO PI-
[2145] PI+ P --> P 2PI+ PI- MM,GE,2
[2146] PI+ P --> P 2PI+ PI- MM,GE,1
[2147] PI+ P --> P 2PI+ PI- NEUTRALS
[2148] PI+ P --> P 2PI+ PI- NEUTRALS(S)
[2149] PI+ P --> P PI+ 3PIO
[2150] PI+ P --> P ETA 3PI+ PI-
[2151] PI+ P --> P ETA 3CHARGED
[2152] PI+ P --> P RHO0 2PI+ PI-
[2153] PI+ P --> P RHO0 3CHARGED
[2154] PI+ P --> P OMEGA 2PI+ PI-
[2155] PI+ P --> P OMEGA 3CHARGED
[2156] PI+ P --> P A1(1100)+ PI+ PIO PI-
[2157] PI+ P --> P A1(1100)O 2PI+ PI-
[2158] PI+ P --> P A1(1100)- 2PI+ PI+
[2159] PI+ P --> P F 2PI+ PI-
[2160] PI+ P --> P A2(1310)+ PI+ PIO PI-
[2161] PI+ P --> P A2(1310)O 2PI+ PI-
[2162] PI+ P --> P A2(1310)- 2PI+ PIO
[2163] PI+ P --> P K+ KS PI+ PI-
[2164] PI+ P --> P K+ AKO PI+ PI-
[2165] PI+ P --> P K+ K- PI+ PIOS
[2166] PI+ P --> P K+ K- PI+ PIO
[2167] PI+ P --> P K+ AKO PI+ PIO
[2168] PI+ P --> P KO AKO PI+ MM,GE,2
[2169] PI+ P --> P KO K- 2PI+
[2170] PI+ P --> P 2KS PI+ PIO
[2171] PI+ P --> P 2KS PI+ 2PI-
[2172] PI+ P --> N 3PI+ PI-
[2173] PI+ P --> N 2PI+ PIO PI-
[2174] PI+ P --> N 2PI+ K- 2PI+
[2175] PI+ P --> N KO AKO 2PI+
[2176] PI+ P --> N 2KS 2PI+
[2177] PI+ P --> N(1520)I+ 2PI+ PIO PI-
[2178] PI+ P --> N(1520)I+ 2PI+ PI- MM,GE,2
[2179] PI+ P --> N(1700)I+ 2PI+ PIO PI-
[2180] PI+ P --> N(1700)I+ 3PI+ PI- DEL++ 2PI+ 2PI-
[2181] PI+ P --> N(1688F15)I+ 2PI+ PIO PI- MM,GE,1
[2182] PI+ P --> N(1700)I+ 3PI+ PI-
[2183] PI+ P --> DEL++ 2PI+ 2PI-
[2184] PI+ P --> DEL++ PI+ 2PIO PI-
[2185] PI+ P --> DEL++ 4PRONG
[2186] PI+ P --> DELO 3PI+ PI-
[2187] PI+ P --> LAMBDA K+ 2PI+ PI-
[2188] PI+ P --> LAMBDA K0 2PI+ PIO
[2189] PI+ P --> LAMBDA K0 2PI+ PI- MM,GE,2
[2190] PI+ P --> LAMBDA 4PRONG
[2191] PI+ P --> ALAMBDA 4PRONG
[2192] PI+ P --> SIGMA+ K+ PI+ PIO PI-
[2193] PI+ P --> SIGMA+ K+ PI+ PIOS
[2194] PI+ P --> SIGMA+ K+ PI+ PI- MM,GE,2
[2195] PI+ P --> SIGMA+ K+ 4PRONG
[2196] PI+ P --> SIGMA+ 4PRONG
[2197] PI+ P --> SIGMAO K+ 2PI+ PI-
[2198] PI+ P --> SIGMA- K+ 2PI+ PIO
[2199] PI+ P --> SIGMA- K+ 2PI+ PIO
[2200] PI+ P --> SIGMA- KO 3PI+
[2201] PI+ P --> SIGMA- 4PRONG
[2202] PI+ P --> 4(CHARGED) ANYTHING
[2203] PI+ P --> 5PRONG
[2204] PI+ P --> PI+ 5PRONG
[2205] PI+ P --> PI- 5PRONG
[2206] PI+ P --> KO 4PRONG NEUTRAL(S)
[2207] PI+ P --> 2KS 4PRONG
[2208] PI+ P --> K*(892)+ 5PRONG
[2209] PI+ P --> P 3PI+ 2PI-

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[2210] PI+ P --> P 2PI+ 2PI0 PI-
[2211] PI+ P --> P 2PI+ PI- GAMMA(S) ANYTHING
[2212] PI+ P --> P 2PI+ PI- VEE(S) ANYTHING
[2213] PI+ P --> P ETA 2PI+ PI0 PI-
[2214] PI+ P --> P RHO+ 2PI+ 2PI-
[2215] PI+ P --> P RHO0 2PI+ PI0 PI-
[2216] PI+ P --> P RHO- 3PI+ PI-
[2217] PI+ P --> P F 2PI+ PI0 PI-
[2218] PI+ P --> P A2(1310)+ 2PI+ 2PI-
[2219] PI+ P --> P A2(1310)- 3PI+ PI-
[2220] PI+ P --> P K*+ AK0 PI+ PI- PI0S
[2221] PI+ P --> P K+ AK0 PI+ PI- PI0S
[2222] PI+ P --> P K0 AK0 2PI+ PI-
[2223] PI+ P --> P K0 K- 2PI+ PI0S
[2224] PI+ P --> P K0 K- 2PI+ PI0
[2225] PI+ P --> P 2K0S 2PI+ PI-
[2226] PI+ P --> P K0S K0L 2PI+ PI-
[2227] PI+ P --> P NEUTRON(S) 2PI+ PI- ANYTHING
[2228] PI+ P --> P 5PRONG
[2229] PI+ P --> N RHO0 3PI+ PI-
[2230] PI+ P --> N F 3PI+ PI-
[2231] PI+ P --> N K+ AK0 2PI+ PI-
[2232] PI+ P --> N K+ K- 2PI+ PI0(S)
[2233] PI+ P --> N K0 AK0 2PI+ PI0(S)
[2234] PI+ P --> N K0 K- 3PI+
[2235] PI+ P --> N(1520)1310 3PI+ PI- MM.GE.1
[2236] PI+ P --> N(1520)B) 3PI+ 2PI-
[2237] PI+ P --> N(1520)610 3PI+ PI0 PI-
[2238] PI+ P --> N(1700)B) 3PI+ 2PI-
[2239] PI+ P --> N(1700)B)0 3PI+ PI0 PI-
[2240] PI+ P --> N(1700)B)0 3PI+ PI- MM.GE.2
[2241] PI+ P --> DEL++ 2PI+ PI0 2PI-
[2242] PI+ P --> DEL+ 3PI+ 2PI-
[2243] PI+ P --> DEL0 3PI+ PI0 PI-
[2244] PI+ P --> DEL- 4PI+ 2PI-
[2245] PI+ P --> LAMBDA K+ 2PI+ PI0 PI-
[2246] PI+ P --> LAMBDA K+ 2PI+ PI- MM.GE.2
[2247] PI+ P --> LAMBDA K0 3PI+ PI-
[2248] PI+ P --> LAMBDA K0 4PRONG
[2249] PI+ P --> SIGMA+ K0 4PRONG
[2250] PI+ P --> LAMBDA ALAMBDA 4PRONG
[2251] PI+ P --> ALAMBDA K0 4PRONG
[2252] PI+ P --> SIGMA+ K0 2PI+ 2PI-
[2253] PI+ P --> SIGMA+ K0 2PI+ PI0 PI-
[2254] PI+ P --> SIGMA+ K0 2PI+ PI- PI0S
[2255] PI+ P --> SIGMA+ K0 2PI+ PI- MM.GE.2
[2256] PI+ P --> SIGMA+ K5 4PRONG
[2257] PI+ P --> SIGMA0 K0 3PI+ PI-
[2258] PI+ P --> SIGMA- K0 3PI+ PI-
[2259] PI+ P --> SIGMA- K0 3PI+ PI0S
[2260] PI+ P --> SIGMA- K0 3PI+ PI0
[2261] PI+ P --> SIGMA- K5 4PRONG
[2262] PI+ P --> SIGMA 4PRONG NEUTRAL(S)
[2263] PI+ P --> SIGI385P13)+ 5PRONG
[2264] PI+ P --> 6CHARGED
[2265] PI+ P --> 6PRONG
[2266] PI+ P --> GAMMA 6PRONG
[2267] PI+ P --> GAMMA(S) 6PRONG
[2268] PI+ P --> PI0(S) 6CHARGED
[2269] PI+ P --> 4PI+ 2P 3PI- MM.GE.2
[2270] PI+ P --> 4PI+ 2PI- MM.GE.1
[2271] PI+ P --> 4PI+ 2PI- NEUTRALS
[2272] PI+ P --> PI0 6PRONG
[2273] PI+ P --> RHO0 6PRONG
[2274] PI+ P --> F 6PRONG
[2275] PI+ P --> K5 6PRONG
[2276] PI+ P --> P 3PI+ PI0 2PI-
[2277] PI+ P --> P 3PI+ 2PI- MM.GE.2
[2278] PI+ P --> P 3PI+ 2PI- MM.GE.1
[2279] PI+ P --> P 3PI+ 2PI- NEUTRALS
[2280] PI+ P --> P 2PI+ 3PI0 PI-
[2281] PI+ P --> P ETA 3PI+ 2PI-
[2282] PI+ P --> P OMEGA 3PI+ 2PI-
[2283] PI+ P --> P RHO0 3PI+ 2PI-
[2284] PI+ P --> P RHO0 5CHARGED
[2285] PI+ P --> P OMEGA 5PRONG
[2286] PI+ P --> P F 3PI+ 2PI-
[2287] PI+ P --> P F 3PI+ PI-
[2288] PI+ P --> P A2(1310)+ 2PI+ PI0 2PI-
[2289] PI+ P --> P A2(1310)0 3PI+ 2PI-
[2290] PI+ P --> P A2(1310)- 3PI+ PI0 PI-
[2291] PI+ P --> P K*+ AK0 2PI+ 2PI-
[2292] PI+ P --> P K0 K- 3PI+ PI-
[2293] PI+ P --> P 2K5 2PI+ PI0 PI-
[2294] PI+ P --> P 2K5 2PI+ PI- PI0S
[2295] PI+ P --> N 4PI+ 2PI-
[2296] PI+ P --> N 3PI+ PI0 2PI-
[2297] PI+ P --> N K+ AK0 2PI+ PI- PI0(S)
[2298] PI+ P --> N K0 K- 3PI+ PI0(S)
[2299] PI+ P --> N K0 K- 3PI+ PI0S
[2300] PI+ P --> N 2K5 3PI+ PI-
[2301] PI+ P --> DEL++ 3PI+ 3PI-
[2302] PI+ P --> DEL++ 6PRONG
[2303] PI+ P --> LAMBDA K+ 3PI+ 2PI-
[2304] PI+ P --> LAMBDA K0 3PI+ PI0 PI-
[2305] PI+ P --> LAMBDA K0 3PI+ PI- MM.GE.2
[2306] PI+ P --> LAMBDA 6PRONG
[2307] PI+ P --> ALAMBDA 6PRONG
[2308] PI+ P --> SIGMA+ K+ 2PI+ PI0 2PI-
[2309] PI+ P --> SIGMA+ K0 3PI+ 2PI-
[2310] PI+ P --> SIGMA+ 6PRONG
[2311] PI+ P --> SIGMA0 K+ 3PI+ 2PI-
[2312] PI+ P --> SIGMA- K+ 3PI+ PI0 PI-
[2313] PI+ P --> SIGMA- K0 4PI+ PI-
[2314] PI+ P --> SIGMA- 6PRONG
[2315] PI+ P --> 6(CHARGED) ANYTHING
[2316] PI+ P --> PI+ 7PRONG
[2317] PI+ P --> PI- 7PRONG
[2318] PI+ P --> 2K5 6PRONG
[2319] PI+ P --> N(1692)+ 5PRONG
[2320] PI+ P --> P 4PI+ 3PI-
[2321] PI+ P --> P RHO+ 3PI+ 3PI-
[2322] PI+ P --> P RHO0 3PI+ PI0 2PI-
[2323] PI+ P --> P RHO- 4PI+ 2PI-
[2324] PI+ P --> P K+ AK0 2PI+ PI0 2PI-
[2325] PI+ P --> P K0 K- 3PI+ PI0 PI-
[2326] PI+ P --> P 2K0 3PI+ 2PI-
[2327] PI+ P --> P K5 K- 3PI+ 2PI-
[2328] PI+ P --> P 7PRONG
[2329] PI+ P --> N K+ AK0 3PI+ 2PI-
[2330] PI+ P --> N K0 AK0 3PI+ PI- PI0S
[2331] PI+ P --> N K0 K- 4PI+ PI-
[2332] PI+ P --> DEL++ 4PI+ 3PI-
[2333] PI+ P --> LAMBDA K+ 3PI+ PI0 2PI-
[2334] PI+ P --> LAMBDA K0 4PI+ 2PI-
[2335] PI+ P --> LAMBDA K5 4PRONG
[2336] PI+ P --> ALAMBDA 4PRONG
[2337] PI+ P --> LAMBDA ALAMBDA 6PRONG
[2338] PI+ P --> ALAMBDA K5 4PRONG
[2339] PI+ P --> SIGMA+ K0 3PI+ PI0 2PI-
[2340] PI+ P --> SIGMA+ K5 6PRONG
[2341] PI+ P --> SIGMA0 K0 4PRONG
[2342] PI+ P --> SIGMA- K0 4PI+ PI0 PI-
[2343] PI+ P --> SIGMA- K5 6PRONG
[2344] PI+ P --> SIGI1385P13)+ 7PRONG
[2345] PI+ P --> 8CHARGED
[2346] PI+ P --> 8PRONG
[2347] PI+ P --> GAMMA 8PRONG
[2348] PI+ P --> GAMMA(S) 8PRONG
[2349] PI+ P --> PI0(S) 8CHARGED
[2350] PI+ P --> PI0 8PRONG
[2351] PI+ P --> RHO0 8PRONG
[2352] PI+ P --> F 8PRONG
[2353] PI+ P --> K5 8PRONG
[2354] PI+ P --> P 4PI+ PI0 3PI-
[2355] PI+ P --> P 4PI+ 3PI- MM.GE.2
[2356] PI+ P --> P ETA 7CHARGED
[2357] PI+ P --> P OMEGA 4PI+ 3PI-
[2358] PI+ P --> P OMEGA 7CHARGED
[2359] PI+ P --> P 2K5 4PI+ PI0 2PI-
[2360] PI+ P --> N 5PI+ 3PI-
[2361] PI+ P --> DEL++ 8PRONG
[2362] PI+ P --> LAMBDA K0 4PI+ PI0 2PI-
[2363] PI+ P --> LAMBDA 8PRONG
[2364] PI+ P --> ALAMBDA 8PRONG
[2365] PI+ P --> SIGMA+ 8PRONG
[2366] PI+ P --> SIGMA- 8PRONG
[2367] PI+ P --> PI+ 9PRONG
[2368] PI+ P --> PI- 9PRONG
[2369] PI+ P --> 2K5 8PRONG
[2370] PI+ P --> P 5PI+ 4PI-
[2371] PI+ P --> P RHO0 7CHARGED NEUTRALS
[2372] PI+ P --> P 9PRONG
[2373] PI+ P --> LAMBDA K5 8PRONG
[2374] PI+ P --> ZLAMBDA 8PRONG
[2375] PI+ P --> LAMBDA ALAMBDA 8PRONG
[2376] PI+ P --> ALAMBDA K5 8PRONG
[2377] PI+ P --> SIGMA+ K5 8PRONG
[2378] PI+ P --> SIGMA- K5 8PRONG
[2379] PI+ P --> 10PRONG
[2380] PI+ P --> GAMMA 10PRONG
[2381] PI+ P --> GAMMA(S) 10PRONG
[2382] PI+ P --> 6PI+ 4PI- MM.GE.2
[2383] PI+ P --> PI0 10PRONG
[2384] PI+ P --> RHO0 10PRONG
[2385] PI+ P --> F 10PRONG
[2386] PI+ P --> K5 10PRONG
[2387] PI+ P --> P 5PI+ PI0 4PI-
[2388] PI+ P --> P 5PI+ 4PI- PI0S
[2389] PI+ P --> P 5PI+ 4PI- MM.GE.2
[2390] PI+ P --> N 6PI+ 4PI-
[2391] PI+ P --> DEL++ 10PRONG
[2392] PI+ P --> LAMBDA 10PRONG
[2393] PI+ P --> ALAMBDA 10PRONG
[2394] PI+ P --> P(1) 11PRONG
[2395] PI+ P --> PI- 11PRONG
[2396] PI+ P --> 2K5 10PRONG
[2397] PI+ P --> P 6PI+ 5PI-
[2398] PI+ P --> P 11PRONG
[2399] PI+ P --> N 6PI+ 4PI- PI0S
[2400] PI+ P --> LAMBDA K5 10PRONG
[2401] PI+ P --> ZLAMBDA 10PRONG
[2402] PI+ P --> LAMBDA ALAMBDA 12PRONG
[2403] PI+ P --> ALAMBDA K5 10PRONG
[2404] PI+ P --> 12PRONG
[2405] PI+ P --> GAMMA(S) 12PRONG
[2406] PI+ P --> PI0 12PRONG
[2407] PI+ P --> RHO0 12PRONG
[2408] PI+ P --> F 12PRONG
[2409] PI+ P --> K5 12PRONG
[2410] PI+ P --> P 6PI+ PI0 5PI-
[2411] PI+ P --> SIGMA+ 12PRONG
[2412] PI+ P --> PI+ 13PRONG
[2413] PI+ P --> 14PRONG
[2414] PI+ P --> 16PRONG
[2415] PI+ P --> 18PRONG
[2416] PI+ P --> 20PRONG
[2417] PI+ P --> ANYTHING - PI+ P
[2418] PI+ P --> MU- HADRONS + MU+ HADRONS
[2419] PI+ P --> - PI+ P + PI+ ANYTHING
[2420] PI+ P --> A2(1310)0 DEL++ + F DEL++
[2421] PI+ P --> P PRONG - PI+ P
[2422] PI+ P --> 2PRONG + 5PRONG
[2423] PI+ P --> MU- ANU HADRONS + MU+ NU HADRONS
[2424] PI+ P --> K+ AK0 ANYTHING + K0 K- ANYTHING + K0 AK0 ANYTHING
[2425] PI+ P --> K+ K- ANYTHING + K0 AK0 ANYTHING
[2426] PI+ P --> P PI+ PI0 + N 2PI+
[2427] PI+ P --> P PI+ MM.GE.2 + 2PI+ MM.GE.2
[2428] PI+ P --> P PI+ MM.GE.1 + 2PI+ MM.GE.1
[2429] PI+ P --> N(1780)P11 + PI+ PI0 + N(1780)P11 0 PI+
[2430] PI+ P --> LAMBDA K+ PI+ + SIGMA0 K+ PI+
[2431] PI+ P --> LAMBDA K+ ANYTHING + SIGMA0 K+ ANYTHING
[2432] PI+ P --> LAMBDA K0 ANYTHING + SIGMA0 K0 ANYTHING
[2433] PI+ P --> P A1(1100)+ PI+ PI- + P A1(1100)+ 2PI+
[2434] PI+ P --> P B(1235)+ PI+ PI- + P B(1235)- 2PI+
[2435] PI+ P --> P A2(1310)+ PI+ PI- + P A2(1310)- 2PI+
[2436] PI+ P --> LAMBDA K+ PI+ PI0(S) + SIGMA0 K+ PI+ PI0(S)
[2437] PI+ P --> LAMBDA K+ PI+ PI0 + LAMBDA K0 2PI+
[2438] PI+ P --> LAMBDA K0 2PI+ + SIGMA0 K0 2PI+
[2439] PI+ P --> P 2PI+ PI- MM.GE.2 + 3PI+ PI- MM.GE.2
[2440] PI+ P --> P A1(1100)+ PI+ PI0 PI- + P A1(1100)+ 2PI+ PI0
[2441] PI+ P --> P A2(1310)+ PI+ PI0 PI- + P A2(1310)- 2PI+ PI0
[2442] PI+ P --> P K+ AK0 PI+ PI- + P K0 K- 2PI+
[2443] PI+ P --> LAMBDA K+ 2PI+ PI- + LAMBDA K+ 2PI+ PI-
[2444] PI+ P --> LAMBDA K0 2PI+ PI0(S) + SIGMA0 K0 2PI+ PI0(S)
[2445] PI+ P --> LAMBDA K+ 2PI+ PI- + SIGMA0 K+ 2PI+ PI- PI0(S)
[2446] PI+ P --> LAMBDA K0 3PI+ PI- + SIGMA0 K0 3PI+ PI-
[2447] PI+ P --> P 4PI+ 3PI- MM.GE.1 + 5PI+ 3PI- MM.GE.2
[2448] PI+ P --> P 5PI+ 4PI- MM.GE.2 + 6PI+ 4PI- MM.GE.2
[2449] PI+ P --> - PI+ P + PI+ PRONG
[2450] PI+ P --> - PI+ P + 2PRONG
[2451] PI+ P --> 3PRONG + 4PRONG
[2452] PI+ P --> 5PRONG + 6PRONG + 7PRONG
[2453] PI+ P --> 2PRONG + 3PRONG + 4PRONG + 5PRONG
[2454] PI+ N --> (NOT ENCODED)
[2455] PI+ N --> RHO0
[2456] PI+ N --> STRANGE
[2457] PI+ N --> 2PRONG
[2458] PI+ N --> N(1P)RHO(3)
[2459] PI+ N --> ANYTHING
[2460] PI+ N --> INELASTIC
[2461] PI+ N --> GAMMA P
[2462] PI+ N --> OGAMMA P
[2463] PI+ N --> PI+ N
[2464] PI+ N --> PI+ N(1470)P11
[2465] PI+ N --> PI+ N(1520)D13)
[2466] PI+ N --> PI+ N(1688)F15)
[2467] PI+ N --> PI+ DEL++
[2468] PI+ N --> PI+ ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[2465] PI+ N --> PIO P
[2470] PI+ N --> PI- DEL++
[2471] PI+ N --> ETA P
[2472] PI+ N --> EPSILON(700) P
[2473] PI+ N --> RHO0 DELO
[2474] PI+ N --> RHO+ P
[2475] PI+ N --> RHO0 N
[2476] PI+ N --> RHO0 DEL++
[2477] PI+ N --> RHO0 DEL+
[2478] PI+ N --> RHO0 ANYTHING
[2479] PI+ N --> OMEGA P
[2482] PI+ N --> PHI P N
[2481] PI+ N --> ETAPRIME P
[2482] PI+ N --> H(1690) P
[2483] PI+ N --> G(1691) P
[2484] PHI P
[2485] PI+ N --> A1(1100)0 P
[2486] PI+ N --> EPSILON(1200) P
[2487] PI+ N --> PHI P
[2488] PI+ N --> F DEL+
[2489] PI+ N --> C(1285) P
[2490] PI+ N --> A2(1310)+ N
[2491] PI+ N --> A2(1310)0 DEL0
[2492] PI+ N --> A2(1310)0 P
[2493] PI+ N --> E(1420) P
[2494] PI+ N --> FPRIME P
[2495] PI+ N --> CHEGA(1675) P
[2496] PI+ N --> G(1680)+ N
[2497] PI+ N --> G(1680)0 P
[2498] PI+ N --> G(1670)0 DEL+
[2499] PI+ N --> U(23.0)0 P
[2500] PI+ N --> K+ SIGMA
[2501] PI+ N --> K+ LAM(1405)01
[2502] PI+ N --> K+ LAM(1520)03
[2503] PI+ N --> K+ SIGMA0
[2504] PI+ N --> K+ SIG(1385)P13)0
[2505] PI+ N --> K0 SIGMA+
[2506] PI+ N --> K0 SIG(1385)P13)+
[2507] PI+ N --> K+ SIGMA- LAMBDA
[2508] PI+ N --> K+(892)+ SIGMA0
[2509] PI+ N --> P .GT.2GAMMA
[2510] PI+ N --> P .GT.3GAMMA
[2511] PI+ N --> P .GT.8GAMMA
[2512] PI+ N --> P .GT.5GAMMA
[2513] PI+ N --> P .GT.4GAMMA
[2514] PI+ N --> P .GT.6GAMMA
[2515] PI+ N --> P .GT.2GAMMA
[2516] PI+ N --> P .GT.1GAMMA
[2517] PI+ N --> MM.GE.2
[2518] PI+ N --> P NEUTRAL(S)
[2515] PI+ N --> 2PRONG
[2520] PI+ N --> NU- PI+ ANYTHING
[2521] PI+ N --> PI+ PI- ANYTHING
[2522] PI- N --> KACN KACN ANYTHING
[2523] PI+ N --> P 2GAMMA
[2524] PI+ N --> P PI+ PI-
[2525] PI+ N --> P 2P10
[2526] PI+ N --> P ETA P10
[2527] PI+ N --> P RHO0 P1-
[2528] PI+ N --> P RH00 P10
[2529] PI+ N --> P RH0- PI+
[2530] PI+ N --> P A2(1310)- PI+
[2531] PI+ N --> P K+ K-
[2532] PI+ N --> P K0 AK0
[2533] PI+ N --> P 2K5
[2534] PI+ N --> P K+ KL
[2535] PI+ N --> N RH00 PI+
[2536] PI+ N --> N K+ K5
[2537] PI+ N --> N K0 AK0
[2538] PI+ N --> DEL++ PI0 PI-
[2539] PI+ N --> DEL+ PI+ PI-
[2540] PI+ N --> DEL0 PI+ PI0
[2541] PI+ N --> CEL-- 2P1+
[2542] PI+ N --> LAMBDA K+ PI0
[2543] PI+ N --> LAMBDA K0 PI+
[2544] PI+ N --> SIGMA+ K+ PI-
[2545] PI+ N --> SIGMA+ K0 PI0
[2546] PI+ N --> SIGMA0 K0 PI+
[2547] PI+ N --> SIGMA- K+ PI+
[2548] PI+ N --> SIG(1385)P13)+ K+ PI-
[2549] PI+ N --> SIG(1385)P13)- K+ PI+
[2550] PI+ N --> HYPERON RADN ANYTHING
[2551] PI+ N --> 3GAMMA
[2552] PI+ N --> P PI+ PI0 PI-
[2553] PI+ N --> P PI+ PI- PI0S
[2554] PI+ N --> P PI+ PI- MM.GE.1
[2555] PI+ N --> P PI0 2GAMMA
[2556] PI+ N --> P 3PI0
[2557] PI+ N --> P PI+ PI0 PI-
[2558] PI+ N --> P RH00 PI+ PI-
[2559] PI+ N --> P OMEGA PI+ PI-
[2560] PI+ N --> P K+ K5 PI-
[2562] PI+ N --> P 2K5 PI0
[2562] PI+ N --> P K5 K- PI+
[2563] PI+ N --> N 2PI+ PI-
[2564] PI+ N --> DEL++ PI+ 2PI-
[2565] PI+ N --> CEL0 2P1+ PI-
[2566] PI+ N --> LAMBDA K+ PI+ PI-
[2567] PI+ N --> LAMBDA K0 PI+ PI0

[2568] PI+ N --> SIGMA+ K+ PI0 PI-
[2569] PI+ N --> SIGMA+ K0 PI+ PI-
[2570] PI+ N --> SIGMA- K+ PI+ PI0
[2571] PI+ N --> SIGMA- K0 2PI+
[2572] PI+ N --> 4PRONG
[2573] PI+ N --> P 4GAMMA
[2574] PI+ N --> P 2PI+ 2PI-
[2575] PI+ N --> P K+ K5 PI0 PI-
[2576] PI+ N --> P K0 K5 PI+ PI-
[2577] PI+ N --> P 2K5 PI+ PI-
[2578] PI+ N --> P K5 K- PI+ PI0
[2579] PI+ N --> P K+ K- PI+ PI-
[2580] PI+ N --> N K+ K- 2PI+
[2581] PI+ N --> LAMBDA K+ PI+ PI0 PI-
[2582] PI+ N --> LAMBDA K0 2PI+ PI-
[2583] PI+ N --> SIGMA+ K0 PI+ PI0 PI-
[2584] PI+ N --> SIGMA- K0 2PI+ PI0
[2585] PI+ N --> 5PRONG
[2586] PI+ N --> P 2PI+ PI0 2PI-
[2587] PI+ N --> P 2P10 2PI- MM.GE.2
[2588] PI+ N --> P 2K5 PI+ PI0 PI-
[2589] PI+ N --> N 3PI+ 2PI-
[2590] PI+ N --> LAMBDA K0 2PI+ PI0 PI-
[2591] PI+ N --> 6PRONG
[2592] PI+ N --> 2PI+ 2PI3 2PI- ANYTHING
[2593] PI+ N --> P 6GAMMA
[2594] PI+ N --> 8PRONG
[2595] PI+ N --> 10PRONG
[2596] PI+ N --> 12PRONG
[2597] PI+ N --> 14PRONG
[2598] PI+ N --> 16PRONG
[2599] PI+ N --> 18PRONG
[2600] PI+ N --> 20PRONG
[2601] PI+ N --> 22PRONG
[2602] PI+ N --> 24PRONG
[2603] PI+ N --> CHEGA + P + RHO0 P
[2604] PI+ N --> A2(1310)0 P + P
[2605] PI+ N --> P DELTA(973)+ PI- + P
DELTA(973)+ PI+
[2606] PI+ N --> LAMBDA K+ PI+ PI- +
SIGMA0 K+ PI+ PI-
[2607] PI+ N --> P PI+ PI- PI0 2PI- + P 2PI+
2PI- GAMMA
[2608] PI+ NUCLEON --> (NOT ENCODED)
[2609] PI+ NUCLEON --> PI+ NUCLEON
[2610] PI+ NUCLEON --> 2PI+ PI- ANYTHING
[2611] PI+ NUCLEON --> ANYTHING CHARGED
[2612] PI+ NUCLEON --> NUCLEON OMEGA PI+
PI0
[2613] PI+ NUCLEON --> NUCLEON 2PI+ 2PI-
PI-
[2614] PI+ NUCLEON --> NUCLEON 2PI+ +
NUCLEON PI+ PI-
[2615] PI+ DEUT --> (NOT ENCODED)
[2616] PI+ DEUT --> ANTISTRANGEON
[2617] PI+ DEUT --> .GT.3PRONG
[2618] PI+ DEUT --> .GT.2PRONG
[2619] PI+ DEUT --> CHEGA
[2620] PI+ DEUT --> ANYTHING
[2621] PI+ DEUT --> PI+ DEUT
[2622] PI+ DEUT --> PI+ ANYTHING
[2623] PI+ DEUT --> PI- ANYTHING
[2624] PI+ DEUT --> A1(1100)+ DEUT
[2625] PI+ DEUT --> A2(1310)+ DEUT
[2626] PI+ DEUT --> A3(1680)+ DEUT
[2627] PI+ DEUT --> K+ ANYTHING
[2628] PI+ DEUT --> K- ANYTHING
[2629] PI+ DEUT --> 2P
[2630] PI+ DEUT --> P ANYTHING
[2631] PI+ DEUT --> AP ANYTHING
[2632] PI+ DEUT --> DELO DEL++
[2633] PI+ DEUT --> DEUT ANYTHING
[2634] PI+ DEUT --> CHARM ANYTHING
[2635] PI+ DEUT --> VEE MADRONS
[2636] PI+ DEUT --> 2PRONG
[2637] PI+ DEUT --> ANYTHING STRANGES
[2638] PI+ DEUT --> ANYTHING STRANGE(S)
[2639] PI+ DEUT --> PI- ANYTHING
[2640] PI+ DEUT --> K+ PI- ANYTHING
[2641] PI+ DEUT --> 2K5 ANYTHING
[2642] PI+ DEUT --> P(SPECT) PI- NEPRONG
[2643] PI+ DEUT --> P(SPECT) P PIO
[2644] PI+ DEUT --> P(SPECT) P ETA
[2645] PI+ DEUT --> P(SPECT) P RHO
[2646] PI+ DEUT --> P(SPECT) P OMEGA
[2647] PI+ DEUT --> P(SPECT) P ETAPRIME
[L..48] PI+ DEUT --> P(SPECT) P H(990)
[2648] PI+ DEUT --> P(SPECT) P A1(1100)0
[2650] PI+ DEUT --> P(SPECT) P F
[2651] PI+ DEUT --> P(SPECT) P A2(1310)0
[2652] PI+ DEUT --> P(SPECT) P
ONEGA(1675)
[2653] PI+ DEUT --> P(SPECT) P G(1680)0
[2654] PI+ DEUT --> P(SPECT) P MM.GE.2
[2655] PI+ DEUT --> P(SPECT) P NEUTRAL(S)
[2656] PI+ DEUT --> P(SPECT) DEL++ RHO-

[2655] PI+ DEUT --> P(SPECT) CELO RHO+
[2660] PI+ DEUT --> P(SPECT) LAMBDA K*(892)+
[2661] PI+ DEUT --> N(SPECT) P PI+
[2662] PI+ DEUT --> N(SPECT) P
N(1511)0+
[2663] PI+ DEUT --> N(SPECT) P A2(1310)+
[2664] PI+ DEUT --> N(SPECT) P A3(1640)+
[2665] PI+ DEUT --> 2P PI0
[2666] PI+ DEUT --> 2P ETA
[2667] PI+ DEUT --> 2P EPSILON(700)
[2668] PI+ DEUT --> 2P RHO0
[2669] PI+ DEUT --> 2P F
[2670] PI+ DEUT --> 2P OMEGA(1675)
[2671] PI+ DEUT --> 2P MM.GE.2
[2672] PI+ DEUT --> P LAMBDA K+
[2673] PI+ DEUT --> P SIGMA+ K0
[2674] PI+ DEUT --> P SIGMA0 K+
[2675] PI+ DEUT --> DEL++ DEL- PI+
[2676] PI+ DEUT --> LAMBDA K5 ANYTHING
[2677] PI+ DEUT --> LAMBDA ALAMBDA
ANYTHING
[2678] PI+ DEUT --> DEUT ETA PI+
[2679] PI+ DEUT --> DEUT RH00 PI+
[2680] PI+ DEUT --> DEUT+(2170)0 2PI+
[2681] PI+ DEUT --> DEUT+(2170)++ PI- PI-
[2682] PI+ DEUT --> 3PRONG
[2683] PI+ DEUT --> 3PI- ANYTHING
[2684] PI+ DEUT --> K+ PI+ PI- ANYTHING
[2685] PI+ DEUT --> D0 PI+ PI- ANYTHING
[2686] PI+ DEUT --> P(SPECT) K5 PI+
MM.GE.2
[2687] PI+ DEUT --> P(SPECT) P PI+ PI-
[2688] PI+ DEUT --> P(SPECT) P 2P10
[2689] PI+ DEUT --> P(SPECT) P ETA P10
[2690] PI+ DEUT --> P(SPECT) P 2ETA
[2691] PI+ DEUT --> P(SPECT) P RH0+ PI-
[2692] PI+ DEUT --> P(SPECT) P RH00 P10
[2693] PI+ DEUT --> P(SPECT) P RH0- PI+
[2694] PI+ DEUT --> P(SPECT) P F P10
[2695] PI+ DEUT --> P(SPECT) P K+ K-
[2696] PI+ DEUT --> P(SPECT) DEL++ P10 PI-
MM.GE.2
[2697] PI+ DEUT --> P(SPECT) DEL+ PI+ PI-
[2698] PI+ DEUT --> P(SPECT) DELO PI+ P10
[2699] PI+ DEUT --> P(SPECT) LAMBDA K+
MM.GE.2
[2700] PI+ DEUT --> N(SPECT) P PI+ PI0
[2701] PI+ DEUT --> 2P PI+ PI-
[2702] PI+ DEUT --> 2P 2P10
[2703] PI+ DEUT --> 2P 2K5
[2704] PI+ DEUT --> 2P K5 KL
[2705] PI+ DEUT --> P N K+ AK0
[2706] PI+ DEUT --> P LAMBDA K+ P10
[2707] PI+ DEUT --> P LAMBDA K0 PI+
[2708] PI+ DEUT --> P SIGMA0 K0 PI+
[2709] PI+ DEUT --> N LAMBDA K+ PI+
[2710] PI+ DEUT --> N SIGMA+ K0 PI+
[2711] PI+ DEUT --> DEUT 2PI+ PI-
[2712] PI+ DEUT --> DEUT PI+ 2P10
[2713] PI+ DEUT --> 4CHARGED
[2714] PI+ DEUT --> 4PRONG
[2715] PI+ DEUT --> API- ANYTHING
[2716] PI+ DEUT --> P(SPECT) P PI+ PI0
PI-
MM.GE.2
[2717] PI+ DEUT --> P(SPECT) P PI+ PI-
PI-
[2719] PI+ DEUT --> P(SPECT) P RH00 PI+
PI-
[2720] PI+ DEUT --> P(SPECT) P F PI+ PI-
[2721] PI+ DEUT --> P(SPECT) P 4PI+ PI-
[2722] PI+ DEUT --> P(SPECT) DEL++ PI+
2PI-
[2723] PI+ DEUT --> N(SPECT) P 2PI+ PI-
[2724] PI+ DEUT --> 2P PI+ PI0 PI-
[2725] PI+ DEUT --> P N 2PI+ PI-
[2726] PI+ DEUT --> P LAMBDA K+ PI+ PI-
[2727] PI+ DEUT --> P LAMBDA K0 PI+ PI0
[2728] PI+ DEUT --> DEUT 2PI+ PI0 PI-
[2729] PI+ DEUT --> 5PRONG
[2730] PI+ DEUT --> 3PI+ ANYTHING
[2731] PI+ DEUT --> P(SPECT) P 2PI+ 2PI-
[2732] PI+ DEUT --> P(SPECT) P PI+ 2P10
PI-
[2734] PI+ DEUT --> P(SPECT) P F PI+ PI0
PI-
[2735] PI+ DEUT --> P(SPECT) DEL++ PI+
P10 2PI-
[2736] PI+ DEUT --> P(SPECT) LAMBDA 2PI+
PI- MM.GE.2
[2737] PI+ DEUT --> P(SPECT) LAMBDA K0
2PI+ PI-
[2738] PI+ DEUT --> 2P 2PI+ 2PI-
[2739] PI+ DEUT --> DEUT 3PI+ 2PI-
[2740] PI+ DEUT --> 6PRONG

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[2741] PI+ DEUT --> 6PI- ANYTHING
[2742] PI+ DEUT --> P(SIPECT) 3PI+ 2PI- MM,GE,Z
[2743] PI+ DEUT --> P(SIPECT) P 2PI+ PI0 2PI-
[2744] PI+ DEUT --> P(SIPECT) P 2PI+ 2PI- MM+GE+Z
[2745] PI+ DEUT --> P(SIPECT) N 3PI+ 2PI-
[2746] PI+ DEUT --> P 3PI+ 2PI- MM,GE,Z
[2747] PI+ DEUT --> 2P 2PI+ 2PI- MM+GE+Z
[2748] PI+ DEUT --> P N 3PI+ 2PI-
[2749] PI+ DEUT --> DEUT+2PI+ PI- --> A3(16A0)+ DEUT
[2750] PI+ DEUT --> 7PRONG
[2751] PI+ DEUT --> P(SIPECT) P KS 2PI+ 2PI- MM+GE,Z
[2752] PI+ DEUT --> 8PRONG
[2753] PI+ DEUT --> 9PRONG
[2754] PI+ DEUT --> 10PRONG
[2755] PI+ DEUT --> 11PRONG
[2756] PI+ DEUT --> 12PRONG
[2757] PI+ DEUT --> 13PRONG
[2758] PI+ DEUT --> 14PRONG
[2759] PI+ DEUT --> 15PRONG
[2760] PI+ DEUT --> 16PRONG
[2761] PI+ DEUT --> 17PRONG
[2762] PI+ DEUT --> 18PRONG
[2763] PI+ DEUT --> 19PRONG
[2764] PI+ DEUT --> 20PRONG
[2765] PI+ DEUT --> 21PRONG
[2766] PI+ DEUT --> 22PRONG
[2767] PI+ DEUT --> 23PRONG
[2768] PI+ DEUT --> 24PRONG
[2769] PI+ DEUT --> ~ ,GT,6PRONG + ,GT,2PRONG
[2770] PI+ DEUT --> PRONG + 2PRONG
[2771] PI+ DEUT --> 2P OMEGA + 2P RHOO
[2772] PI+ DEUT --> P(SIPECT) P K+ AKO PI-I + P(SIPECT) P KO K- PI+
[2773] PI+ DEUT --> P(SIPECT) N 2KS PI+ + P(SIPECT) P 2KS PI-
[2774] PI+ DEUT --> 2P 2PI+ PI0 2PI- + 2PI 2PI+ 2PI- GAMMA
[2775] PI+ HE3 --> PI+ HE3
[2776] PI+ HE --> (NOT ENCODED)
[2777] PI+ HE --> ANYTHING
[2778] PI+ HE --> PI+ HE
[2779] PI+ HE --> HE3 P PIO
[2780] PI+ HE --> HE3 N PI+
[2781] PI+ HE --> T P PI+
[2782] PI+ HE --> 4PRONG
[2783] PI+ HE --> 4P PI-
[2784] PI+ HE --> 2P 2N PI+
[2785] PI+ HE --> P HE3 + HE3 P PIO
[2786] PI+ HE --> T P PI+ + 2DEUT PI+
[2787] PI+ HE --> DEUT P N PI+ + 2P 2N PI-
[2788] PI+ HE --> DEUT 2P + 3P N + 3P N PIO
[2789] PI+ LI --> (NOT ENCODED)
[2790] PI+ LI --> ANYTHING
[2791] PI+ BE --> (NOT ENCODED)
[2792] PI+ BE --> PI+ ANYTHING
[2793] PI+ BE --> JPSI(3100)0 ANYTHING
[2794] PI+ BE --> P ANYTHING
[2795] PI+ BE --> MU- MU+ ANYTHING
[2796] PI+ BOR --> PIO P
[2797] PI+ C --> (NOT ENCODED)
[2798] PI+ C --> ANYTHING
[2799] PI+ C --> PI+ C
[2800] PI+ C --> PI+ C(14,44)
[2801] PI+ C --> PI+ C*
[2802] PI+ C --> PIO NIT
[2803] PI+ C --> P ANYTHING
[2804] PI+ C --> DELT ANYTHING
[2805] PI+ C --> MU- MU+ ANYTHING
[2806] PI+ C --> P PIO ANG
[2807] PI+ O --> (NOT ENCODED)
[2808] PI+ O --> PI+ O
[2809] PI+ NE --> (NOT ENCODED)
[2810] PI+ NE --> RNDO ANYTHING
[2811] PI+ NE --> P ANYTHING
[2812] PI+ NE --> PI+ PI- ANYTHING
[2813] PI+ AL --> (NCT ENCODED)
[2814] PI+ AL --> NICHARGED)
[2815] PI+ AL --> ANYTHING
[2816] PI+ AL --> PI+ AL
[2817] PI+ AL --> PI+ ANYTHING
[2818] PI+ AL --> PI- ANYTHING
[2819] PI+ AL --> P ANYTHING
[2820] PI+ AL --> DEUT ANYTHING
[2821] PI+ FE --> (NOT ENCODED)
[2822] PI+ FE --> NICHARGED)
[2823] PI+ FE --> ANYTHING
[2824] PI+ NI --> P ANYTHING
[2825] PI+ NI --> DEUT ANYTHING
[2826] PI+ CU --> (NOT ENCODED)
[2827] PI+ CU --> PI+ CU
[2828] PI+ CL --> JPSI(3100)0 ANYTHING
[2829] PI+ CU --> MU- MU+ ANYTHING
[2830] PI+ SN --> ANYTHING
[2831] PI+ SN --> JPSI(3100)0 ANYTHING
[2832] PI+ SN --> MU- MU+ ANYTHING
[2833] PI+ XE --> (NOT ENCODED)
[2834] PI+ XE --> NIPRONG
[2835] PI+ XE --> ANYTHING
[2836] PI+ XE --> GAMMA PID
[2837] PI+ XE --> NIPIOI CHARGED
[2838] PI+ XE --> NIPIOI ANYTHING
[2839] PI+ XE --> PI+ XE
[2840] PI+ XE --> PI+ ANYTHING
[2841] PI+ XE --> 2PIO
[2842] PI+ XE --> PIO ETA
[2843] PI+ XE --> PIC ANYTHING
[2844] PI+ XE --> ETA ANYTHING
[2845] PI+ XE --> P ,LT,4PRONG
[2846] PI+ XE --> P ,GT,6PRONG
[2847] PI+ XE --> PROTON(S) ANYTHING
[2848] PI+ XE --> 2GAMMA NIPRONG)
[2849] PI+ XE --> 2GAMMA ANYTHING
[2850] PI+ XE --> NIPIOI 2CHARGED
[2851] PI+ XE --> PIO 2GAMMA
[2852] PI+ XE --> 2PIO GAMMA
[2853] PI+ XE --> 3PIO
[2854] PI+ XE --> P PIO FRAG
[2855] PI+ XE --> NUCLEUS P PI)
[2856] PI+ XE --> NIPIOI 3CHARGED
[2857] PI+ XE --> NIPIOI 4CHARGED
[2858] PI+ XE --> NIPIOI 5CHARGED
[2859] PI+ XE --> NIPIOI 6CHARGED
[2860] PI+ XE --> NIPIOI 7CHARGED
[2861] PI+ XE --> NIPIOI 8CHARGED
[2862] PI+ XE --> NIPIOI 9CHARGED
[2863] PI+ XE --> NIPIOI 10CHARGED
[2864] PI+ XE --> NIPIOI 11CHARGED
[2865] PI+ XE --> NIPIOI 12CHARGED
[2866] PI+ XE --> NIPIOI 13CHARGED
[2867] PI+ TA --> P ANYTHING
[2868] PI+ W --> (NOT ENCODED) ANYTHING
[2869] PI+ W --> (NOT ENCODED)
[2870] PI+ PB --> (NOT ENCODED)
[2871] PI+ PB --> NICHARGED)
[2872] PI+ PB --> ANYTHING
[2873] PI+ PB --> PIONS PB
[2874] PI+ PB --> NIPIONI ANYTHING
[2875] PI+ PB --> PI+ PB
[2876] PI+ PB --> PI+ ANYTHING
[2877] PI+ PB --> PI- ANYTHING
[2878] PI+ U --> P ANYTHING
[2879] PI+ U --> (NOT ENCODED)
[2880] PI+ U --> PIONS U
[2881] PI+ U --> NIPION) ANYTHING
[2882] PI+ U --> PI+ U
[2883] PI+ U --> PI+ ANYTHING
[2884] PI+ U --> PI- ANYTHING
[2885] PI+ U --> ANYTHING
[2886] PI+ NUCLEUS --> (NOT ENCODED)
[2887] PI+ NUCLEUS --> NIPRONG)
[2888] PI+ NUCLEUS --> ELASTIC
[2889] PI+ NUCLEUS --> GAMMA ANYTHING
[2890] PI+ NUCLEUS --> E- ANYTHING
[2891] PI+ NUCLEUS --> E+ ANYTHING
[2892] PI+ NUCLEUS --> NEUTRINO ANYTHING
[2893] PI+ NUCLEUS --> MU+ ANYTHING
[2894] PI+ NUCLEUS --> PI+ ANYTHING
[2895] PI+ NUCLEUS --> PI- ANYTHING
[2896] PI+ NUCLEUS --> ETA ANYTHING
[2897] PI+ NUCLEUS --> B(12351)+ NUCLEUS
[2898] PI+ NUCLEUS --> G(1680)+ NUCLEUS
[2899] PI+ NUCLEUS --> JPSI(3100)0 ANYTHING
[2900] PI+ NUCLEUS --> K+ ANYTHING
[2901] PI+ NUCLEUS --> K- ANYTHING
[2902] PI+ NUCLEUS --> P ANYTHING
[2903] PI+ NUCLEUS --> AP ANYTHING
[2904] PI+ NUCLEUS --> DEUT ANYTHING
[2905] PI+ NUCLEUS --> ADEUT ANYTHING
[2906] PI+ NUCLEUS --> ANYTHING HADRONS
[2907] PI+ NUCLEUS --> 2GAMMA ANYTHING
[2908] PI+ NUCLEUS --> MU+ ANYTHING
[2909] PI+ NUCLEUS --> PI0 GAMMA ANYTHING
[2910] PI+ NUCLEUS --> 2PIO ANYTHING
[2911] PI+ NUCLEUS --> K+ PI- ANYTHING
[2912] PI+ NUCLEUS --> K- PI+ ANYTHING
[2913] PI+ NUCLEUS --> NUCLEUS PI+ PIO
[2914] PI+ NUCLEUS --> NUCLEUS 2PIO
[2915] PI+ NUCLEUS --> MU- 2MU+ ANYTHING
[2916] PI+ NUCLEUS --> 3MUON ANYTHING
[2917] PI+ NUCLEUS --> PI0 2GAMMA ANYTHING
[2918] PI+ NUCLEUS --> 2PIO GAMMA ANYTHING
[2919] PI+ NUCLEUS --> 3PIO ANYTHING
[2920] PI+ NUCLEUS --> NUCLEUS 2PI+ PI-
[2921] PI+ NUCLEUS --> NUCLEUS PI+ 2PIO
[2922] PI+ NUCLEUS --> 2MU- 2MU+ ANYTHING
[2923] PI+ NUCLEUS --> 4MUON ANYTHING
[2924] PI+ NUCLEUS --> NUCLEUS 2PI+ PIO
[2925] PI+ NUCLEUS --> NUCLEUS 3PI+ 2PI-
[2926] PI+ UNSPEC --> (NOT ENCODED)
[2927] PIO PIO --> (NOT ENCODED)
[2928] PIO PIO --> 2PIO
[2929] PIO P --> RNDO P
[2930] PIO NUCLEON --> (NOT ENCODED)
[2931] PIO HE3 --> (NOT ENCODED)
[2932] PI- E- --> (NOT ENCODED)
[2933] PI- E- --> E- PI-
[2934] PI- PI+ --> (NOT ENCODED)
[2935] PI- PI+ --> PI- PI+
[2936] PI- PI+ --> K- K+
[2937] PI- P --> (NOT ENCCED)
[2938] PI- PIO --> PI- PIO
[2939] PI- PI- --> (NOT ENCODED)
[2940] PI- PI- --> THELASTIC
[2941] PI- P --> 2PI-
[2942] PI- P --> GAMMA ANYTHING
[2943] PI- P --> (NOT ENCODED)
[2944] PI- P --> NEUTRON
[2945] PI- P --> N(K5)
[2946] PI- P --> N
[2947] PI- P --> DELt+
[2948] PI- P --> DEL(2850)0
[2949] PI- P --> DEL(3230)0
[2950] PI- P --> NILAMBDA)
[2951] PI- P --> NIALAMBDA)
[2952] PI- P --> ,LT,7PRONG
[2953] PI- P --> STRANGE
[2954] PI- P --> STRANGES
[2955] PI- P --> CHARGED
[2956] PI- P --> NICHARGED)
[2957] PI- P --> ,GT,13PRONG
[2958] PI- P --> ,GT,11PRONG
[2959] PI- P --> ,GT,10PRONG
[2960] PI- P --> ,GT,9PRONG
[2961] PI- P --> ,GT,8PRONG
[2962] PI- P --> ,GT,2PRONG
[2963] PI- P --> OPRONG
[2964] PI- P --> PRONG
[2965] PI- P --> NIPRONG)
[2966] PI- P --> PRONGS
[2967] PI- P --> NEUTRALS
[2968] PI- P --> NEUTRALIS)
[2969] PI- P --> ANYTHING
[2970] PI- P --> INELASTIC
[2971] PI- P --> DD < 4PRONG >
[2972] PI- P --> DD < 4PRONG >
[2973] PI- P --> DD < ANYTHING >
[2974] PI- P --> DD < -1.0000*(P PI-) + (2PRONG) >
[2975] PI- P --> DD < 6PRONG >
[2976] PI- P --> GAMMA P
[2977] PI- P --> GAMMA N
[2978] PI- P --> GAMMA ,LT,5PRONG
[2979] PI- P --> GAMMA HADRONS
[2980] PI- P --> GAMMA ,GT,2PRONG
[2981] PI- P --> GAMMA ,GT,13PRONG
[2982] PI- P --> GAMMA ANYTHING
[2983] PI- P --> NEUTRAL ANYTHING
[2984] PI- P --> NIGAMMA) ,GT,5PRONG
[2985] PI- P --> NIGAMMA) OPRONG
[2986] PI- P --> NIGAMMA) ANYTHING
[2987] PI- P --> GAMMAS N
[2988] PI- P --> GAMMA(S) ANYTHING
[2989] PI- P --> E- HADRONS
[2990] PI- P --> E- ANYTHING
[2991] PI- P --> E+ HADRONS
[2992] PI- P --> E+ ANYTHING
[2993] PI- P --> MU- HADRONS
[2994] PI- P --> MU- ANYTHING
[2995] PI- P --> MU+ HADRONS
[2996] PI- P --> MU+ ANYTHING
[2997] PI- P --> PION(S) ANYTHING
[3000] PI- P --> PION PIN1=1/2)
[2998] PI- P --> PION PIN1=3/2)
[3001] PI- P --> PION(S) ANYTHING
[3002] PI- P --> PIO(S) NIPRONG)
[3003] PI- P --> PIO(S) ANYTHING
[3004] PI- P --> NIPI- ANYTHING
[3035] PI- P --> NIPIO) NICHARGED)
[3006] PI- P --> NIPIO) ,GT,9PRONG
[3007] PI- P --> NIPIO) ANYTHING
[3008] PI- P --> NIPI-) ANYTHING
[3009] PI- P --> PIN1=1/2)
[3010] PI- P --> PIN1= CEL+
[3011] PI- P --> PIN1=3/2)
[3012] PI- P --> PRONG
[3013] PI- P --> PI ANYTHING
[3014] PI- P --> PIO N
[3015] PI- P --> PIO N(1520)(3)0
[3016] PI- P --> PIO N(1520)3C
[3017] PI- P --> PIO N(1670)(5)0
[3018] PI- P --> PIO N(1688)F(15)0
[3019] PI- P --> PIO N(1700)3C
[3020] PI- P --> PIO PIN1=1/2)
[3021] PI- P --> PIO CEL0
[3022] PI- P --> PIO PIN1=3/2)

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[3023] PI- P --> PI0 K0(UNSPEC)0 | [3118] PI- P --> GMEGA(1675) N | [3215] PI- P --> NEUTRALS VEE
[3024] PI- P --> PI0 CHARGED | [3119] PI- P --> GI(1680)3 N | [3216] PI- P --> ANYTHING STRANGE0
[3025] PI- P --> PI0 NEUTRAL(S) | [3120] PI- P --> GI(1680)3 N | [3217] PI- P --> ANYTHING STRANGE
[3026] PI- P --> PI0 ANYTHING | [3121] PI- P --> GI(1680)- P | [3218] PI- P --> ANYTHING STRANGES
[3027] PI- P --> PI- P | [3122] PI- P --> A5(1770)- P | [3219] PI- P --> ANYTHING STRANGE(S)
[3028] PI- P --> PI- N | [3123] PI- P --> APRIME(18300)- P | [3220] PI- P --> ANYTHING VEE
[3029] PI- P --> N(1470)0+ | [3124] PI- P --> A4(1900)- P | [3221] PI- P --> ANYTHING VEE(S)
[3030] PI- P --> N(1520)13+ | [3125] PI- P --> H(2040) N | [3222] PI- P --> ANYTHING CHARGEE+
[3031] PI- P --> N(1520)1+ | [3126] PI- P --> X(2830) N | [3223] PI- P --> ANYTHING CHARGEE-
[3032] PI- P --> N(1688F15)+ | [3127] PI- P --> MESON(2953)- ANYTHING | [3224] PI- P --> ANYTHING CHARGEE
[3033] PI- P --> N(1700B)+ | [3128] PI- P --> J/PSI(3100)0 N | [3225] PI- P --> ANYTHING NEICHARGE0+1
[3034] PI- P --> DEL+ | [3129] PI- P --> PI0(1520)-- DEL++ | [3226] PI- P --> ANYTHING NEICHARGE0-1
[3035] PI- P --> N+(LNSPEC)+ | [3130] PI- P --> K5(5) ANYTHING | [3227] PI- P --> ANYTHING NEICHARGE0
[3036] PI- P --> PI- P,GT.1PRONG | [3131] PI- P --> N1K5) QPRONG | [3228] PI- P --> ANYTHING NEIPRONG
[3037] PI- P --> PRONG | [3132] PI- P --> K*(55) ANYTHING | [3229] PI- P --> ANYTHING CHARGEE+ ANYTHING
[3038] PI- P --> NEUTRAL(S) | [3133] PI- P --> K+ SIGMA- | [3230] PI- P --> DD < CHARGEE- > ANYTHING
[3039] PI- P --> PI- ANYTHING | [3134] PI- P --> K+ SIG(1385P13)- | [3231] PI- P --> DD < (CHARGED-) + (
[3040] PI- P --> DD < (2PRONG) + (4PRONG) > | [3135] PI- P --> K+ HYPERON | 3CHARGED+) > ANYTHING
[3041] PI- P --> PI- DD < PI+ NEUTRALS > | [3136] PI- P --> K+ ANYTHING | [3232] PI- P --> DD < 2CHARGED- > ANYTHING
[3042] PI- P --> PI- DD < N PI+ > | [3137] PI- P --> KO LAMBDA | [3233] PI- P --> DD < 4CHARGED- > ANYTHING
[3043] PI- P --> PI- DD < 2PI+ PI- NEUTRALS > | [3138] PI- P --> KO SIGMA | [3234] PI- P --> DD < 3CHARGED+ > ANYTHING
[3044] PI- P --> PI- DD < DEL++ PI- > | [3139] PI- P --> KO SIG(1385P13)0 | [3235] PI- P --> DD < 4CHARGED+ > ANYTHING
[3045] PI- P --> PI- DD < P PI+ PI- NEUTRALS > | [3140] PI- P --> KO HYPERON | [3236] PI- P --> DD < 3CHARGED- > ANYTHING
[3046] PI- P --> PI- DD < P PI0 > | [3141] PI- P --> KO ANYTHING,KO ANYTHING | [3237] PI- P --> DD < 2CHARGED+ > ANYTHING
[3047] PI- P --> PI- DD < P PI+ PI- > | [3142] PI- P --> K5 LAM(1520)03 | [3238] PI- P --> DD < (2CHARGED-) + (4CHARGED+) > ANYTHING
[3048] PI- P --> ETA P | [3143] PI- P --> K5 SIGMA0 | [3239] PI- P --> DD < NICHARGED0 >
[3049] PI- P --> ETA N | [3144] PI- P --> K5 SIG(1385P13)0 | [3240] PI- P --> DD < NEUTRALS > ANYTHING
[3050] PI- P --> ETA < 2GAMMA > N | [3145] PI- P --> K5 HYPERON | [3241] PI- P --> DD < P PI- > DD < P PI+ PI- >
[3051] PI- P --> ETA < 2GAMMA > N | [3146] PI- P --> K5 N1PRENG1 | [3242] PI- P --> DD < P NEUTRALS > DD < P PI+ NEUTRALS > DD < P PI+ PI- >
[3052] PI- P --> ETA NEUTRAL(S) | [3147] PI- P --> K5 MH,GE+2 | [3243] PI- P --> DD < P PI+ > DD < 2PI- > DD < 2PI+ NEUTRALS > DD < 2PI+ PI- NEUTRALS >
[3053] PI- P --> ETA ANYTHING | [3148] PI- P --> K5 ANYTHING | [3244] PI- P --> DD < N PI+ NEUTRALS > DD < N PI+ PI- >
[3054] PI- P --> ETA ANYTHING,GT.1MU+ ANYTHING | [3149] PI- P --> KL HYPERON | [3245] PI- P --> DD < N PI+ > DD < P PI+ 2PI- >
[3055] PI- P --> EPSILON(700) N | [3150] PI- P --> KL ANYTHING | [3246] PI- P --> DD < P PI0 > DD < P PI+ 2PI- >
[3056] PI- P --> RHO0 P | [3151] PI- P --> K- ANYTHING | [3247] PI- P --> 2GAMMA HADRONS
[3057] PI- P --> RHO0 N | [3152] PI- P --> K*(892)0 SIG(1385P13)- | [3248] PI- P --> 2GAMMA ANYTHING
[3058] PI- P --> RHO0 N(1520)13+ | [3153] PI- P --> K*(892)0 LAMBDA | [3249] PI- P --> GAMMA CHARGED ANYTHING
[3059] PI- P --> RHO0 N(1520)1+ | [3154] PI- P --> K*(892)0 SIGMA0 | [3250] PI- P --> GAMMA 2PRONG
[3060] PI- P --> RHO0 N(1670D15)0 | [3155] PI- P --> K*(892)0 HYPERON | [3251] PI- P --> GAMMA NEUTRAL ANYTHING
[3061] PI- P --> RHO0 N(1688F15)0 | [3156] PI- P --> K*(892)0 ANYTHING | [3252] PI- P --> NEGAMMA CHARGEE+ CHARGED-
[3062] PI- P --> RHO0 N(1700B)0 | [3157] PI- P --> C1(240-)40010 LAMBDA | [3253] PI- P --> NEGAMMA2 2PRONG
[3063] PI- P --> RHO0 DEL0 | [3158] PI- P --> K*(1423)+ SIG(1385P13)- | [3254] PI- P --> GAMMA(S) 2PRONG
[3064] PI- P --> RHO0 DEL+2PRONG | [3159] PI- P --> K*(UNSPEC)0 DEL++ | [3255] PI- P --> E- GAMMA HADRONS
[3065] PI- P --> RHO0 .GT.4PRONG | [3160] PI- P --> K*(UNSPEC)0 K*(UNSPEC)0 | [3256] PI- P --> E- E+ HADRONS
[3066] PI- P --> RHO0 NEUTRALS | [3161] PI- P --> EXOTIC-MESON P | [3257] PI- P --> E- E+ ANYTHING
[3067] PI- P --> RHO0 ANYTHING | [3162] PI- P --> EXOTIC-MESON N | [3258] PI- P --> E- VEE ANYTHING
[3068] PI- P --> RHC0 DD < P PI- > | [3163] PI- P --> EXOTIC-MESON ANYTHING | [3259] PI- P --> E+ GAMMA HADRONS
[3069] PI- P --> RHO- P | [3164] PI- P --> P PRONG | [3260] MU- GAMMA HADRONS
[3070] PI- P --> RHO- DEL+ | [3165] PI- P --> P N(1700)3 | [3261] PI- P --> MU- E+ HADRONS
[3071] PI- P --> RHO- K0(UNSPEC)+ | [3166] PI- P --> P NEUTRAL(S) | [3262] PI- P --> MU- MU+ HADRONS
[3072] PI- P --> CMEGA N | [3167] PI- P --> P ANYTHING | [3263] PI- P --> MU- MU+ ANYTHING
[3073] PI- P --> CMEGA N(1470D0)0 | [3168] PI- P --> P DD < PI+ 2PI- > | [3264] PI- P --> MU- NEUTRAL ANYTHING
[3074] PI- P --> CMEGA .GT.2PRONG | [3169] PI- P --> P DD < PI+ 2PI- NEUTRALS > | [3265] PI- P --> MU+ GAMMA HADRONS
[3075] PI- P --> CMEGA .GT.1QPRONG | [3170] PI- P --> P DD < (2PRONG) + (4PRONG) > | [3266] PI- P --> MU+ E- HADRONS
[3076] PI- P --> CMEGA .GT.4PRONG | [3171] PI- P --> P DD < PI- NEUTRALS > | [3267] PI- P --> MU+ MU- HADRONS
[3077] PI- P --> CMEGA .GT.4PRONG | [3172] PI- P --> P DD < ANYTHING > | [3268] PI- P --> MU+ MU+ HADRONS
[3078] PI- P --> CMEGA NEUTRAL(S) | [3173] PI- P --> P DD < K- PI- > | [3269] PI- P --> MU+ NEUTRAL ANYTHING
[3079] PI- P --> CMEGA ANYTHING | [3174] PI- P --> N MH,GE+2 | [3270] MUON E- ANYTHING
[3080] PI- P --> CMEGA < MU- MU+ > ANYTHING | [3175] PI- P --> N NEUTRAL(S) | [3271] PI- P --> 2PION NEUTRAL(S)
[3081] PI- P --> N(540) N | [3176] PI- P --> N ANYTHING | [3272] PI- P --> PI+ GAMMA ANYTHING
[3082] PI- P --> N(953) N | [3177] PI- P --> AP DEUT | [3273] PI- P --> 2PI+ ANYTHING
[3083] PI- P --> ETAPRIME N | [3178] PI- P --> AP ANYTHING | [3274] PI- P --> NEUTRON 2PRONG
[3084] PI- P --> ETAPRIME < 2GAMMA > N | [3179] PI- P --> ANTIPROTON ANYTHING | [3275] PI- P --> PI+ NEUTRALS
[3085] PI- P --> ETAPRIME ANYTHING | [3180] PI- P --> N(1688F15)+ ANYTHING | [3276] PI- P --> PI+ PI- ANYTHING
[3086] PI- P --> N(1680) N | [3181] PI- P --> N(1688F15)+ ANYTHING | [3277] PI- P --> 2PRONG
[3087] PI- P --> DELTA(1700)0 N | [3182] PI- P --> N(1688F15)0 ANYTHING | [3278] PI- P --> 2PION CHARGED
[3088] PI- P --> DELTA(970)- P | [3183] PI- P --> DEL++ ANYTHING | [3279] PI- P --> PI- GAMMA ANYTHING
[3089] PI- P --> N(990) N | [3184] PI- P --> DEL0 ANYTHING | [3280] PI- P --> 2PI- ANYTHING
[3090] PI- P --> N(993) N | [3185] PI- P --> LAMBDA 2PRONG | [3281] PI- P --> 2PRONG
[3091] PI- P --> PHI N | [3186] PI- P --> LAMBDA N(PRONG) | [3282] PI- P --> RHO0 2PRONG
[3092] PI- P --> PHI ANYTHING | [3187] PI- P --> LAMBDA ANYTHING | [3283] PI- P --> N(K5) 2PRONG
[3093] PI- P --> N(1033) N | [3188] PI- P --> ALAMEDA ANYTHING | [3284] PI- P --> K+ ANYTHING
[3094] PI- P --> ETA(1080) N | [3189] PI- P --> N(LAMBDA) 2PRONG | [3285] PI- P --> 2K+ ANYTHING
[3095] PI- P --> A1(1100)0 N | [3190] PI- P --> N(LAMBDA) ANYTHING | [3286] PI- P --> K+ K0 ANYTHING
[3096] PI- P --> A1(1100)- P | [3191] PI- P --> SIGMA+ ANYTHING | [3287] PI- P --> K+ MH,GE+2
[3097] PI- P --> A1(1100)- DD < P PI0 > | [3192] PI- P --> SIGMA0 ANYTHING | [3288] PI- P --> K+ K- ANYTHING
[3098] PI- P --> A1(1100)- DD < N PI+ > | [3193] PI- P --> SIGMA- ANYTHING | [3289] PI- P --> K+ K+ ANYTHING
[3099] PI- P --> N(2190) N | [3194] PI- P --> SIG(1385P13)+ ANYTHING | [3290] PI- P --> K+ ANYTHING,KO ANYTHING
[3100] PI- P --> N(2190)(35)- P | [3195] PI- P --> SIG(1365P13)- ANYTHING | [3291] PI- P --> K+ K0 NEUTRAL(S)
[3101] PI- P --> P P | [3196] PI- P --> SIG(1480B)+ ANYTHING | [3292] PI- P --> K0 AKO ANYTHING
[3102] PI- P --> P N | [3197] PI- P --> XI- ANYTHING | [3293] PI- P --> K0 K- ANYTHING
[3103] PI- P --> P N(1520C)13+ | [3198] PI- P --> CEUT ANYTHING | [3294] PI- P --> K5 PI+ ANYTHING
[3104] PI- P --> P N(1520B)0 | [3199] PI- P --> OMEGA- ANYTHING | [3295] PI- P --> K5 PI- ANYTHING
[3105] PI- P --> P N(1670D15)0 | [3200] PI- P --> DIBARYON ANYTHING | [3296] PI- P --> 2K5 NEUTRAL(S)
[3106] PI- P --> P N(1688F15)0 | [3201] PI- P --> CHARM ANYTHING | [3297] PI- P --> 2K5 NEUTRALS
[3107] PI- P --> P N(1700B)0 | [3202] PI- P --> 2CHARGED | [3298] PI- P --> 2K5 ANYTHING
[3108] PI- P --> P CEL0 | [3203] PI- P --> CHARGED CHARGED+ | [3299] PI- P --> K+ MH,GE+2
[3109] PI- P --> P ANYTHING | [3204] PI- P --> 2CHARGED | [3300] PI- P --> K+ K- ANYTHING
[3110] PI- P --> P DD < P PI- > | [3205] PI- P --> .GT.1QPRONG N(VEE) | [3301] PI- P --> K+ 2ANYTHING
[3111] PI- P --> C(1285) N | [3206] PI- P --> QPRONG STRANGE | [3302] PI- P --> K0 AK0 QPRONG
[3112] PI- P --> A2(13010 N | [3207] PI- P --> CPRONG VEE | [3303] PI- P --> K0 AK0 NEUTRAL(S)
[3113] PI- P --> A2(1313)0 ANYTHING | [3208] PI- P --> QPRONG N(VEE) | [3304] PI- P --> K0 AK0 ANYTHING
[3114] PI- P --> A2(1313)- P | [3211] PI- P --> MH,GE+2 .GT.7PRONG | [3305] PI- P --> K0 K- ANYTHING
[3115] PI- P --> E(1420) N | [3212] PI- P --> MH,GE+2 .GT.6PRONG | [3306] PI- P --> K0 K+ ANYTHING
[3116] PI- P --> APRIME N | [3213] PI- P --> MH,GE+2 .GT.5PRONG | [3307] PI- P --> 2K0 NEUTRAL(S)
[3117] PI- P --> A3(1640)- P | [3214] PI- P --> MH,GE+2 .GT.2PRONG | [3308] PI- P --> 2K0 ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[3299] PI- P --> PS KL ANYTHING
[3300] PI- P --> KS 2PRONG
[3301] PI- P --> K- PI+ ANYTHING
[3302] PI- P --> K- 2ANYTHING
[3303] PI- P --> DD ADD ANYTHING
[3304] PI- P --> P 2GAMMA
[3305] PI- P --> P MU- ANYTHING
[3306] PI- P --> P MU+ ANYTHING
[3307] PI- P --> P MUON ANYTHING
[3308] PI- P --> P PI+ NEUTRAL(S)
[3309] PI- P --> P PI+ ANYTHING
[3310] PI- P --> P PIO PI-
[3311] PI- P --> PI- GAMMA
[3312] PI- P --> P PI- PION(S)
[3313] PI- P --> P PION
[3314] PI- P --> PI- MM=GE.1
[3315] PI- P --> P PI- NEUTRALS
[3316] PI- P --> P PI- NEUTRAL(S)
[3317] PI- P --> P PI- ANYTHING
[3318] PI- P --> P ETA PI-
[3319] PI- P --> P ETA CHARGED
[3320] PI- P --> P EPSILON(700) PI-
[3321] PI- P --> P PHOO PI-
[3322] PI- P --> P PHOO PHO-
[3323] PI- P --> P PHOO CHARGED
[3324] PI- P --> P OMEGA PI-
[3325] PI- P --> P OMEGA CHARGED
[3326] PI- P --> P ETAPRIME PI-
[3327] PI- P --> P PHI ANYTHING
[3328] PI- P --> P F PI-
[3329] PI- P --> P A2(1310) PI-
[3330] PI- P --> P A2(1310)- PIO
[3331] PI- P --> P G(1680)0 PI-
[3332] PI- P --> P H(1920)0 PI-
[3333] PI- P --> P ANN(2200)0 PI-
[3334] PI- P --> P ANN(2200)0 PI-
[3335] PI- P --> P ANN(2200)0 PI-
[3336] PI- P --> P KO ANYTHING
[3337] PI- P --> P KO K-
[3338] PI- P --> P KS K-
[3339] PI- P --> P KL K-
[3340] PI- P --> P K- GAMMA
[3341] PI- P --> P K*(UNSPECIFIED)
K*(UNSPECI-
[3342] PI- P --> P N AP
[3343] PI- P --> P AP N(1470)0
[3344] PI- P --> P AP DELO
[3345] PI- P --> P 2PRONG
[3346] PI- P --> N 2GAMMA
[3347] PI- P --> N GAMMA NEUTRAL(S)
[3348] PI- P --> N OGAMMA NEUTRAL(S)
[3349] PI- P --> N E- E+
[3350] PI- P --> N PI+ PI-
[3351] PI- P --> N PI+ ANYTHING
[3352] PI- P --> N PIO GAMMA
[3353] PI- P --> N 2PIO
[3354] PI- P --> N PI- ANYTHING
[3355] PI- P --> N 2ETA
[3356] PI- P --> N OMEGA GAMMA
[3357] PI- P --> N K+ K-
[3358] PI- P --> N KO AKO
[3359] PI- P --> N 2KS
[3360] PI- P --> N K*(UNSPECIFIED
AK*(UNSPECIFIED
[3361] PI- P --> N OO ADD
[3362] PI- P --> N LAMBDA ALAMBDA
[3363] PI- P --> N(1470)0 PI+ ANYTHING
[3364] PI- P --> DEL++ 2PI-
[3365] PI- P --> DEL++ PI- ANYTHING
[3366] PI- P --> DELO PI+ PI-
[3367] PI- P --> DELO 2PIO
[3368] PI- P --> AM(1236)0+ OMEGA PI-
[3369] PI- P --> LAMBDA PI+ PI-
[3370] PI- P --> LAMBDA PI+ ANYTHING
[3371] PI- P --> LAMBDA PI- ANYTHING
[3372] PI- P --> LAMBDA K+ PI-
[3373] PI- P --> LAMBDA K+ ANYTHING
[3374] PI- P --> LAMBDA KO PIO
[3375] PI- P --> LAMBDA KO OPRONG
[3376] PI- P --> LAMBDA KO NEUTRALS
[3377] PI- P --> LAMBDA KO NEUTRAL(S)
[3378] PI- P --> LAMBDA KO ANYTHING
[3379] PI- P --> LAMBDA KS NEUTRALS
[3380] PI- P --> LAMBDA KS ANYTHING
[3381] PI- P --> LAMBDA K*(892)+ PI-
[3382] PI- P --> LAMBDA K*(1420)+ PI-
[3383] PI- P --> LAMBDA ALAMBDA NEUTRALS
[3384] PI- P --> LAMBDA ALAMBDA
NEUTRAL(S)
[3385] PI- P --> LAMBDA ALAMBDA ANYTHING
[3386] PI- P --> LAMBDA 2PRONG
[3387] PI- P --> ALAMBDA PI+ ANYTHING
[3388] PI- P --> ALAMBDA PI- ANYTHING
[3389] PI- P --> ALAMBDA KS NEUTRALS
[3390] PI- P --> ALAMBDA KS ANYTHING
[3391] PI- P --> N(LAMBDA)2 2PRONG
[3392] PI- P --> SIGMA+ K+ ANYTHING
[3393] PI- P --> SIGMA+ KO PI-
[3394] PI- P --> SIGMA+ KO ANYTHING

[3395] PI- P --> SIGMA- K+ PIO
[3396] PI- P --> SIGMA- K+ ANYTHING
[3397] PI- P --> SIGMA- KO PI+
[3398] PI- P --> SIGMA- KO ANYTHING
[3399] PI- P --> SIGMA- 2ANYTHING
[3400] PI- P --> Y*(UNSPEC) K*(UNSPEC)
PIONS
[3401] PI- P --> XI- K+ KO
[3402] PI- P --> HYPERON KAON PION
[3403] PI- P --> 2CHARM ANYTHING
[3404] PI- P --> KINK- 2PRONG
[3405] PI- P --> KINK- 2PRONG
[3406] PI- P --> NISTRANGE) 2ANYTHING
[3407] PI- P --> 2VEE OPRONG
[3408] PI- P --> 2VEE NEUTRALS
[3409] PI- P --> VEE 2PRONG
[3410] PI- P --> N(VEE) 2PRONG
[3411] PI- P --> 2CHARGED- ANYTHING
[3412] PI- P --> CHARGED+ CHARGED-
ANYTHING
[3413] PI- P --> 2CHARGED- ANYTHING
[3414] PI- P --> 2CHARGED ANYTHING
[3415] PI- P --> N(CHARGED) 2ANYTHING
[3416] PI- P --> 3PRONG
[3417] PI- P --> 3PRONG NEUTRALS
[3418] PI- P --> 3GAMMA ANYTHING
[3419] PI- P --> 2GAMMA CHARGED ANYTHING
[3420] PI- P --> 3MUON ANYTHING
[3421] PI- P --> 3PION NEUTRAL(S)
[3422] PI- P --> 2PI+ PI- ANYTHING
[3423] PI- P --> 2PIOPIO
[3424] PI- P --> PI+ PIO PI- CHARGED
[3425] PI- P --> PI+ PI- N(PI+) ANYTHING
[3426] PI- P --> PI+ PI- N(PI-) ANYTHING
[3427] PI- P --> PI+ PI- 2PIO
[3428] PI- P --> PI+ PI- 2PRONG
[3429] PI- P --> PI+ 3PRONG
[3430] PI- P --> 3PIO CHARGED
[3431] PI- P --> 3PIO ANYTHING
[3432] PI- P --> 2PI- 2PRONG
[3433] PI- P --> PI- 3PRONG
[3434] PI- P --> N(K-) ANYTHING
[3435] PI- P --> N(K-) 3ANYTHING
[3436] PI- P --> KO AKO 2PRONG
[3437] PI- P --> PI+ PI- ANYTHING
[3438] PI- P --> 3GAMMA
[3439] PI- P --> P 2MU- ANYTHING
[3440] PI- P --> P 2MUON ANYTHING
[3441] PI- P --> P 2MU+ ANYTHING
[3442] PI- P --> P 3PION
[3443] PI- P --> P 2PI+ PI-
[3444] PI- P --> P PI+ 2PI-
[3445] PI- P --> P PI+ PI- ANYTHING
[3446] PI- P --> P PI+ 2PRONG
[3447] PI- P --> P 2PIO PI-
[3448] PI- P --> P PI- 2GAMMA
[3449] PI- P --> P 2PI- ANYTHING
[3450] PI- P --> P RHO+ PI-
[3451] PI- P --> P RHOO PIO PI-
[3452] PI- P --> P PHO- PI+ PI-
[3453] PI- P --> K+ K- PI-
[3454] PI- P --> P KO K- PI-
[3455] PI- P --> P 2KS PI-
[3456] PI- P --> P 2P AP PI-
[3457] PI- P --> P 2AP PI-
[3458] PI- P --> P 3PRONG
[3459] PI- P --> N 2GAMMA NEUTRAL(S)
[3460] PI- P --> N PI+ PIO PI-
[3461] PI- P --> N PI+ PI- GAMMA
[3462] PI- P --> N PI+ PI- PIO(S)
[3463] PI- P --> N PI+ PI- MM=GE.1
[3464] PI- P --> N PIO PI- PI-
[3465] PI- P --> N RHOO PI+ PI-
[3466] PI- P --> N OMEGA PI+ PI-
[3467] PI- P --> N K+ AKO PI-
[3468] PI- P --> N KO K+ PI-
[3469] PI- P --> N 2KS PIO
[3470] PI- P --> DEL++ PIO 2PI-
[3471] PI- P --> DEL++ PI+ 2PI-
[3472] PI- P --> DEL++ RHOO 2PI-
[3473] PI- P --> DEL++ OMEGA 2PI-
[3474] PI- P --> DEL++ P 2P 2PI-
[3475] PI- P --> DEL- 2PI+ PI-
[3476] PI- P --> LAMBDA PI+ PI- ANYTHING
[3477] PI- P --> LAMBDA K+ PIO PI-
[3478] PI- P --> LAMBDA K+ PI- NEUTRAL(S)
[3479] PI- P --> LAMBDA KO PI+ PI-
[3480] PI- P --> LAMBDA KO 2PRONG
[3481] PI- P --> LAMBDA KS N(PRONG)
ANYTHING
[3482] PI- P --> LAMBDA ALAMBDA 2PRONG
[3483] PI- P --> ALAMBDA PI+ PI- ANYTHING
[3484] PI- P --> SIGMA+ K+ 2PI-
[3485] PI- P --> SIGMA+ KO PIO PI-
[3486] PI- P --> SIGMA+ K+ PI+ PI-
[3487] PI- P --> SIGMA+ KO PI+ PIO
[3488] PI- P --> STRANGE 3PRONG
[3489] PI- P --> 2VEE 2PRONG
[3490] PI- P --> 4PRONG

[3491] PI- P --> 4GAMMA ANYTHING
[3492] PI- P --> GAMMA 4PRONG
[3493] PI- P --> N(GAMMA) 4PRONG
[3494] PI- P --> GAMMA(S) 4PRONG
[3495] PI- P --> 2MUON E- VEE ANYTHING
[3496] PI- P --> 4PION NEUTRAL(S)
[3497] PI- P --> PI0(S) 4CHARGED
[3498] PI- P --> NIPIO) 4PRONG
[3499] PI- P --> 2PI+ 2PI- NEUTRALS
[3500] PI- P --> 2PI+ 2PI- NEUTRAL(S)
[3501] PI- P --> 2PI+ 2PI- ANYTHING
[3502] PI- P --> PI+ PI- 2GAMMA MM=GE.2
[3503] PI- P --> PI+ 4PRONG
[3504] PI- P --> 4PIO CHARGED
[3505] PI- P --> PI- 3CHARGED NEUTRAL(S)
[3506] PI- P --> PI- 4PRONG
[3507] PI- P --> RHOO 4PRONG
[3508] PI- P --> N(K*) 4PRONG
[3509] PI- P --> KO AKO PI+ PI- ANYTHING
[3510] PI- P --> KS 4PRONG
[3511] PI- P --> P 4GAMMA
[3512] PI- P --> P PI+ PIO 2PI-
[3513] PI- P --> P PI+ 2PI- PIOS
[3514] PI- P --> P PI+ 2PI- NEUTRALS
[3515] PI- P --> P PI+ 2PI- ANYTHING
[3516] PI- P --> P 3PIO PI-
[3517] PI- P --> P PI- 3GAMMA
[3518] PI- P --> P ETA 2PRONG
[3519] PI- P --> P ETA 3CHARGED
[3520] PI- P --> P RHOO PI+ 2PI-
[3521] PI- P --> P RHOO 3CHARGED
[3522] PI- P --> P OMEGA PI+ 2PI-
[3523] PI- P --> P OMEGA 3CHARGED
[3524] PI- P --> P PHI PI+ 2PI-
[3525] PI- P --> P F PI+ PI-
[3526] PI- P --> P K+ K- PIO PI-
[3527] PI- P --> P K+ K- RHOO PI-
[3528] PI- P --> P KO K+ PHO PI-
[3529] PI- P --> P KO K- PI+ PI-
[3530] PI- P --> P 2KS PIO PI-
[3531] PI- P --> P KS K- PI+ PI-
[3532] PI- P --> P 2P AP PIO PI-
[3533] PI- P --> P N AP PI+ PI-
[3534] PI- P --> P APRONG
[3535] PI- P --> N 4GAMMA
[3536] PI- P --> N 3GAMMA NEUTRAL(S)
[3537] PI- P --> N 2PI+ 2PI-
[3538] PI- P --> N PI+ 2PI- PIO
[3539] PI- P --> N PI+ PIO PI- GAMMA
[3540] PI- P --> N PI+ PI- 2GAMMA
[3541] PI- P --> N K+ K- PI+ PI-
[3542] PI- P --> N 2KS PI+ PI-
[3543] PI- P --> N 2KS 2PIO
[3544] PI- P --> DEL++ PI+ 3PI-
[3545] PI- P --> LAMBDA K+ 2PI- 2PI-
[3546] PI- P --> LAMBDA K+ 2PIO PI-
[3547] PI- P --> LAMBDA K+ KO PI-
NEUTRALS
[3548] PI- P --> LAMBDA KO PI+ PIO PI-
[3549] PI- P --> LAMBDA KO PI+ PI-
NEUTRAL(S)
[3550] PI- P --> SIGMA+ LAMBDA 4PRONG
[3551] PI- P --> N(LAMBDA)2 4PRONG
[3552] PI- P --> SIGMA+ K+ PIO 2PI-
[3553] PI- P --> SIGMA+ K+ PI+ 2PI-
[3554] PI- P --> SIGMA+ KO PI+ PIO PI-
[3555] PI- P --> SIGMA- K+ PI+ PIO PI-
[3556] PI- P --> SIGMA- KO 2PI+ PI-
[3557] PI- P --> KINK+ 4PRONG
[3558] PI- P --> KINK- 4PRONG
[3559] PI- P --> VEE 4PRONG
[3560] PI- P --> 2VEE 4PRONG
[3561] PI- P --> 5PRONG
[3562] PI- P --> 4PRONG NEUTRALS
[3563] PI- P --> 3GAMMA ANYTHING
[3564] PI- P --> 3PION NEUTRAL(S)
[3565] PI- P --> PI+ PI- 4PRONG
[3566] PI- P --> PI+ 5PRONG
[3567] PI- P --> 2PI+ 3PI-
[3568] PI- P --> 2PI- 4PRONG
[3569] PI- P --> PI- 5PRONG
[3570] PI- P --> 3PI- AND ANYTHING
[3571] PI- P --> KS 4PRONG ANYTHING
[3572] PI- P --> P 2PI+ 3PI-
[3573] PI- P --> P PI+ PIO 2PI-
[3574] PI- P --> P APIO PI-
[3575] PI- P --> P RHOO PI+ PIO 2PI-
[3576] PI- P --> P 2K+ 2K- PI-
[3577] PI- P --> P K+ K- PIO 2PI-
[3578] PI- P --> P K+ K- PI+ 2PI-
[3579] PI- P --> P 2KS PI+ 2PI-
[3580] PI- P --> P 2P AP PI+ 2PI-
[3581] PI- P --> P 5PRONG
[3582] PI- P --> N 4GAMMA NEUTRAL(S)
[3583] PI- P --> N 2PI+ PIO 2PI-
[3584] PI- P --> N 2PI+ 2PI- PI0(S)
[3585] PI- P --> N 2PI+ 2PI- PIOS
[3586] PI- P --> N PI+ 3PIO PI-
[3587] PI- P --> N PI+ PI- 3GAMMA

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[3588] PI- P --> N K+ KS PI+ 2PI-
[3589] PI- P --> N K+ AKO PI+ 2PI-
[3590] PI- P --> N KO K- 2PI+ PI-
[3591] PI- P --> DEL++ PI- PIO 3PI-
[3592] PI- P --> LAMBDA K+ PI- PIO 2PI-
[3593] PI- P --> LAMBDA KO 2PI+ PI-
[3594] PI- P --> LAMBDA 2KO PI+ PI-
NEUTRALS
[3595] PI- P --> LAMBDA KO 4PRONG
[3596] PI- P --> LAMBDA ALAMBDA 4PPCHG
[3597] PI- P --> SIGMA+ KO PI+ PIO 2PI-
[3598] PI- P --> STRANGE 5PRONG
[3599] PI- P --> 5PRONG
[3600] PI- P --> 6GAMMA ANYTHING
[3601] PI- P --> GAMMA 6PRONG
[3602] PI- P --> NIGAMMA1 6PRONG
[3603] PI- P --> GAMMA1S 6PRONG
[3604] PI- P --> 6PION NEUTRAL(S)
[3605] PI- P --> PIO(S) PI- P --> PIO(S)
2CHARGED
[3606] PI- P --> PIO(S) 6CHARGED
[3607] PI- P --> NIPI01 6PRONG
[3608] PI- P --> PI+ 6PRONG
[3609] PI- P --> PI- 5CHARGED NEUTRAL(S)
[3610] PI- P --> PI- 6PRONG
[3611] PI- P --> RHO0 6PRONG
[3612] PI- P --> PI+ PI0 3PI-
[3613] PI- P --> N1KS1 6PRONG
[3614] PI- P --> KS 6PRONG
[3615] PI- P --> P PI+ PI0 3PI-
[3616] PI- P --> P 2PI+ 3PI- NEUTRALS
[3617] PI- P --> P 2PI+ 3PI- ANYTHING
[3618] PI- P --> P PI+ 3PI+ 3PI-
[3619] PI- P --> P 5PIO PI-
[3620] PI- P --> P ETA 2PI+ 3PI-
[3621] PI- P --> P ETA 5CHARGED
[3622] PI- P --> P RHO PI+ PI- 3PI-
[3623] PI- P --> P RHO0 5CHARGED
[3624] PI- P --> P OMEGA 5CHARGED
[3625] PI- P --> P K+ K- PI- 3PI-
[3626] PI- P --> P KO K- 2PI+ 2PI-
[3627] PI- P --> P 6PRONG
[3628] PI- P --> P 6GAMMA
[3629] PI- P --> N 5GAMMA NEUTRAL(S)
[3630] PI- P --> N 3PI+ 3PI-
[3631] PI- P --> N 2PI+ 2PI0 2PI-
[3632] PI- P --> N PI+ PI0 3PI-
[3633] PI- P --> N PI+ PI- 4GAMMA
[3634] PI- P --> N K+ K- 2PI+ 2PI-
[3635] PI- P --> LAMBDA 4PRONG
[3636] PI- P --> NILAMBDA1 6PRONG
[3637] PI- P --> VEE 6PRONG
[3638] PI- P --> NIVEE1 6PRONG
[3639] PI- P --> 7PRONG
[3640] PI- P --> 6PRONG NEUTRALS
[3641] PI- P --> 7GAMMA ANYTHING
[3642] PI- P --> 7PION NEUTRAL(S)
[3643] PI- P --> PI+ PI- 6PRONG
[3644] PI- P --> PI+ 7PRONG
[3645] PI- P --> 8PRONG
[3646] PI- P --> KO AKO 6PRONG
[3647] PI- P --> P 3PI+ 4PI-
[3648] PI- P --> P 2PI+ 3PI- 3PI-
[3649] PI- P --> P PI+ 4PI0 2PI-
[3650] PI- P --> P 7PRONG
[3651] PI- P --> N 6GAMMA NEUTRAL(S)
[3652] PI- P --> N 2PI+ 4PI- 3PI-
[3653] PI- P --> N 2PI+ 3PI0 2PI-
[3654] PI- P --> N PI+ 5PI0 PI-
[3655] PI- P --> LAMBDA KO 6PRONG
[3656] PI- P --> LAMBDA 2PI0 3PI-
[3657] PI- P --> 8PRONG
[3658] PI- P --> 8GAMMA ANYTHING
[3659] PI- P --> 8PION NEUTRAL(S)
[3660] PI- P --> NIGAMMA1 8PRONG
[3661] PI- P --> GAMMA(S) 8PRONG
[3662] PI- P --> GAMMA1S NEUTRAL(S)
[3663] PI- P --> PIO(S) 8CHARGED
[3664] PI- P --> NIPI01 8PRONG
[3665] PI- P --> 8PION
[3666] PI- P --> PI- 8PRONG
[3667] PI- P --> RHO0 8PRONG
[3668] PI- P --> N1KS1 8PRONG
[3669] PI- P --> KS 8PRONG
[3670] PI- P --> P 3PI+ PI0 4PI-
[3671] PI- P --> P ETA 3PI+ 4PI-
[3672] PI- P --> P RHO0 7CHARGED
[3673] PI- P --> P 8PRONG
[3674] PI- P --> N 7GAMMA NEUTRAL(S)
[3675] PI- P --> N 4PI+ 4PI-
[3676] PI- P --> N K+ K- 3PI+ 3PI-
[3677] PI- P --> LAMBDA 8PRONG
[3678] PI- P --> NILAMBDA1 8PRONG
[3679] PI- P --> VEE 8PRONG
[3680] PI- P --> NIVEE1 8PRONG
[3681] PI- P --> 9PRONG
[3682] PI- P --> 9PION NEUTRAL(S)
[3683] PI- P --> PI+ PI- 8PRONG
[3684] PI- P --> PI+ 9PRONG

[3685] PI- P --> 2PI- 8PRONG
[3686] PI- P --> KO AKO 8PRONG
[3687] PI- P --> P 4PI+ 5PI-
[3688] PI- P --> P ETA 7CHARGED NEUTRALS
[3689] PI- P --> P OMEGA 7CHARGED
NEUTRALS
[3690] PI- P --> P 9PRONG
[3691] PI- P --> N 8GAMMA NEUTRAL(S)
[3692] PI- P --> LAMBDA KO 8PRONG
[3693] PI- P --> 10PRONG
[3694] PI- P --> NIGAMMA2 10PRONG
[3695] PI- P --> GAMMA1S1 10PRONG
[3696] PI- P --> 10PION NEUTRAL(S)
[3697] PI- P --> PI+ 10PRONG
[3698] PI- P --> PI- 10PRONG
[3699] PI- P --> RHO0 10PRONG
[3700] PI- P --> N1KS1 10PRONG
[3701] PI- P --> KS 10PRONG
[3702] PI- P --> P 10PRONG
[3703] PI- P --> LAMBDA 10PRONG
[3704] PI- P --> VEE 10PRONG
[3705] PI- P --> 11PRONG
[3706] PI- P --> 11PION NEUTRAL(S)
[3707] PI- P --> PI+ PI- 10PRONG
[3708] PI- P --> PI+ 11PRONG
[3709] PI- P --> 2PI- 10PRONG
[3710] PI- P --> KO AKO 10PRONG
[3711] PI- P --> P 5PI+ 6PI-
[3712] PI- P --> LAMBDA KO 12PRONG
[3713] PI- P --> P 2PI+ 4PI-
[3714] PI- P --> NIGAMMA2 12PRONG
[3715] PI- P --> GAMMA1S1 12PRONG
[3716] PI- P --> 12PION NEUTRAL(S)
[3717] PI- P --> N1KS1 12PRONG
[3718] PI- P --> KO 2AKO 10PRONG
[3719] PI- P --> KS 2PRONG
[3720] PI- P --> LAMBDA 12PRONG
[3721] PI- P --> VEE 12PRONG
[3722] PI- P --> 13PRONG
[3723] PI- P --> 13PION NEUTRAL(S)
[3724] PI- P --> PI+ 13PRONG
[3725] PI- P --> KO AKO 12PRONG
[3726] PI- P --> P 6PI+ 7PI-
[3727] PI- P --> P 13PRONG
[3728] PI- P --> LAMBDA KO 12PRONG
[3729] PI- P --> LAMBDA 12PRONG ANYTHING
[3730] PI- P --> 14PRONG
[3731] PI- P --> NIGAMMA4 14PRONG
[3732] PI- P --> 14PION NEUTRAL(S)
[3733] PI- P --> PI+ PI- 14PRONG
[3734] PI- P --> KS 14PRONG
[3735] PI- P --> LAMBDA 14PRONG
[3736] PI- P --> VEE 14PRONG
[3737] PI- P --> 15PRONG
[3738] PI- P --> 15PION NEUTRAL(S)
[3739] PI- P --> KO AKO 14PRONG
[3740] PI- P --> LAMBDA 15PRONG
[3741] PI- P --> 16PION NEUTRAL(S)
[3742] PI- P --> N1KS1 16PRONG
[3743] PI- P --> KS 16PRONG
[3744] PI- P --> LAMBDA 16PRONG
[3745] PI- P --> VEE 16PRONG
[3746] PI- P --> 17PRONG
[3747] PI- P --> 17PION NEUTRAL(S)
[3748] PI- P --> KO AKO 16PRONG
[3749] PI- P --> 18PRONG
[3750] PI- P --> 18PION NEUTRAL(S)
[3751] PI- P --> 19PRONG
[3752] PI- P --> 19PION NEUTRAL(S)
[3753] PI- P --> 20PRONG
[3754] PI- P --> 20PION NEUTRAL(S)
[3755] PI- P --> 21PRONG
[3756] PI- P --> 21PION NEUTRAL(S)
[3757] PI- P --> 22PRONG
[3758] PI- P --> 22PION NEUTRAL(S)
[3759] PI- P --> 23PRONG
[3760] PI- P --> 23PION NEUTRAL(S)
[3761] PI- P --> 24PRONG
[3762] PI- P --> 24PION NEUTRAL(S)
[3763] PI- P --> 25PRONG
[3764] PI- P --> 25PION NEUTRAL(S)
[3765] PI- P --> 26PRONG
[3766] PI- P --> 28PRONG
[3767] PI- P --> 30PRONG
[3768] PI- P --> ANYTHING - PI- P
[3769] PI- P --> GAMMA 2PRONG + GAMMA
2PRONG
[3770] PI- P --> PI+ PRONG - PI- P
[3771] PI- P --> PI+ ANYTHING + PI-
ANYTHING
[3772] PI- P --> PIO N + GAMMA N
[3773] PI- P --> PIO ANYTHING + GAMMA
ANYTHING
[3774] PI- P --> - PI- P + 2PRONG
[3775] PI- P --> PI- PRONG + PI- 3PRONG
[3776] PI- P --> OMEGA N + RHO0 N
[3777] PI- P --> N1AKO1 ANYTHING + N1KS1
3ANYTHING

[3778] PI- P --> KO LAMBDA + KO SIGMA0

[3779] PI- P --> KO ANYTHING + AKO
ANYTHING
[3780] PI- P --> KS SIG(1385P1310 + KS
LAM(1405S01)
[3781] PI- P --> K+(695210 LAMBDA +
K+(695210 SIGMA0
[3782] PI- P --> K+(1420)0 LAMBDA +
K+(1420)0 SIGMA0
[3783] PI- P --> P PRONG - PI- P
[3784] PI- P --> P ANYTHING - PI- P
[3785] PI- P --> PI+ GAMMA ANYTHING + PI-
GAMMA ANYTHING
[3786] PI- P --> 2PI+ ANYTHING + 2PI-
ANYTHING
[3787] PI- P --> 2PI+ ANYTHING + P 2PI-
ANYTHING
[3788] PI- P --> PI- 2PRONG + PI- 4PRONG
[3789] PI- P --> P MU- ANYTHING + P MU+
ANYTHING
[3790] PI- P --> P 2PRONG + P 4PRONG
[3791] PI- P --> N 2PI0 + N PI0 GAMMA
[3792] PI- P --> P KO AKO PI- NEUTRAL(S)
+ KO AKO PI+ PI- NEUTRAL(S)
[3793] PI- P --> GAMMA 10PRONG + GAMMA
12PRONG
[3794] PI- P --> - PI- P + 2PRONG
[3795] PI- P --> NIPI+1 NUCLEON + N(PI0)
NUCLEON + N(PI-1 NUCLEON
[3796] PI- P --> P PI0 PI- + N PI+ PI- +
N 2PI0
[3797] PI- N --> (NOT ENCODED)
[3798] PI- N --> SHOWER
[3799] PI- N --> (NEUTRALS ONLY)
[3800] PI- N --> PRONG
[3801] PI- N --> N(PRONG)
[3802] PI- N --> ANYTHING
[3803] PI- N --> N(NEUTRALS)
[3804] PI- N --> STAR
[3805] PI- N --> GAMMA N
[3806] PI- N --> GAMMA HADRONS
[3807] PI- N --> GAMMA ANYTHING
[3808] PI- N --> NIGAMMA1 +GT.5PRONG
[3809] PI- N --> NIGAMMA1 PRONG
[3810] PI- N --> NIGAMMA1 ANYTHING
[3811] PI- N --> E- HADRONS
[3812] PI- N --> E+ HADRONS
[3813] PI- N --> MU- HADRONS
[3814] PI- N --> MU+ HADRONS
[3815] PI- N --> NIPI+1 ANYTHING
[3816] PI- N --> NIPI-1 (NEGATIVES)
[3817] PI- N --> NIPI01 +GT.6PRONG
[3818] PI- N --> NIPI01 ANYTHING
[3819] PI- N --> NIPI-2 ANYTHING
[3820] PI- N --> PI+ ANYTHING
[3821] PI- N --> PI0 ANYTHING
[3822] PI- N --> PI- N
[3823] PI- N --> N1700B1+
[3824] PI- N --> PI- ANYTHING
[3825] PI- N --> RHO0 DEL-
[3826] PI- N --> A1(1090)0 DEL-
[3827] PI- N --> F DEL-
[3828] PI- N --> KS(S) ANYTHING
[3829] PI- N --> N1KS1 PRONG
[3830] PI- N --> KO ANTIBARYON
[3831] PI- N --> KO ANYTHING
[3832] PI- N --> KS ANYTHING
[3833] PI- N --> K+ MESON ANYTHING
[3834] PI- N --> N1N1 ANYTHING
[3835] PI- N --> LAMBDA ANYTHING
[3836] PI- N --> N(LAMBDA) PRONG
[3837] PI- N --> ANYTHING VEE
[3838] PI- N --> ANYTHING VEE(S)
[3839] PI- N --> ANYTHING NICHARGED+1
[3840] PI- N --> ANYTHING NICHARGED-1
[3841] PI- N --> ANYTHING NICHARGED1
[3842] PI- N --> 2GAMMA HADRONS
[3843] PI- N --> 2GAMMA ANYTHING
[3844] PI- N --> GAMMA NEUTRAL ANYTHING
[3845] PI- N --> NIGAMMA1 2PRONG
[3846] PI- N --> E- GAMMA HADRONS
[3847] PI- N --> E+ GAMMA HADRONS
[3848] PI- N --> E+ GAMMA HADRONS
[3849] PI- N --> MU- GAMMA HADRONS
[3850] PI- N --> MU+ E- HADRONS
[3851] PI- N --> MU- MU+ HADRONS
[3852] PI- N --> MU- MU+ ANYTHING
[3853] PI- N --> MU+ GAMMA HADRONS
[3854] PI- N --> MU+ E- HADRONS
[3855] PI- N --> NIPI01 2PRONG
[3856] PI- N --> PI+ GAMMA ANYTHING
[3857] PI- N --> 2PI+ ANYTHING
[3858] PI- N --> PI+ PI- ANYTHING
[3859] PI- N --> PI- GAMMA ANYTHING
[3860] PI- N --> 2PI- ANYTHING
[3861] PI- N --> P 2PI-
[3862] PI- N --> P PI- ANYTHING
[3863] PI- N --> N 2GAMMA
[3864] PI- N --> N RHO0 PI-
[3865] PI- N --> N F PI-

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[3866] PI- N --> N SIGMA- KO
[3867] PI- N --> DEL- PI+ PI-
[3868] PI- N --> 2CHARGEC ANYTHING
[3869] PI- N --> 3PRONG
[3870] PI- N --> 3GAMMA ANYTHING
[3871] PI- N --> GAMMA 2PRONG
[3872] PI- N --> N(GAMMA) 3PRONG
[3873] PI- N --> N(K$) 3PRONG
[3874] PI- N --> K$ 3PRONG
[3875] PI- N --> N 3GAMMA
[3876] PI- N --> N PI+ 2PI-
[3877] PI- N --> LAMBDA 3PRONG
[3878] PI- N --> N(LAMBDA) 3PRONG
[3879] PI- N --> 4GAMMA ANYTHING
[3880] PI- N --> N(GAMMA) 4PRONG
[3881] PI- N --> N(PI0) 4PRONG
[3882] PI- N --> P PI+ 3PI-
[3883] PI- N --> 2P AP 2PI-
[3884] PI- N --> N 4GAMMA
[3885] PI- N --> 5PRONG
[3886] PI- N --> GAMMA 5PRONG
[3887] PI- N --> N(GAMMA) 5PRONG
[3888] PI- N --> N(K$) 5PRONG
[3889] PI- N --> K$ 5PRONG
[3890] PI- N --> LAMBDA 5PRONG
[3891] PI- N --> N(LAMBDA) 5PRONG
[3892] PI- N --> N(GAMMA) 6PRONG
[3893] PI- N --> N(PI0) 6PRONG
[3894] PI- N --> 7PRONG
[3895] PI- N --> GAMMA 7PRONG
[3896] PI- N --> N(GAMMA) 7PRONG
[3897] PI- N --> N(K$) 7PRONG
[3898] PI- N --> K$ 7PRONG
[3899] PI- N --> LAMBDA 7PRONG
[3900] PI- N --> N(LAMBDA) 7PRONG
[3901] PI- N --> N(GAMMA) 8PRONG
[3902] PI- N --> N(PI0) 8PRONG
[3903] PI- N --> 9PRONG
[3904] PI- N --> GAMMA 8PRONG
[3905] PI- N --> N(GAMMA) 9PRONG
[3906] PI- N --> K$ 9PRONG
[3907] PI- N --> LAMBDA 9PRONG
[3908] PI- N --> 11PRONG
[3909] PI- N --> GAMMA 11PRONG
[3910] PI- N --> N(GAMMA) 11PRONG
[3911] PI- N --> K$ 11PRONG
[3912] PI- N --> LAMBDA 11PRONG
[3913] PI- N --> 13PRONG
[3914] PI- N --> GAMMA 13PRONG
[3915] PI- N --> K$ 13PRONG
[3916] PI- N --> LAMBDA 13PRONG
[3917] PI- N --> 15PRONG
[3918] PI- N --> GAMMA 15PRONG
[3919] PI- N --> K$ 15PRONG
[3920] PI- N --> LAMBDA 15PRONG
[3921] PI- N --> GAMMA 17PRONG
[3922] PI- N --> K$ 17PRONG
[3923] PI- N --> LAMBDA 17PRONG
[3924] PI- N --> GAMMA 19PRONG
[3925] PI- N --> K$ 19PRONG
[3926] PI- N --> LAMBDA 19PRONG
[3927] PI- N --> GAMMA 21PRONG
[3928] PI- N --> LAMBDA 21PRONG
[3929] PI- N --> GAMMA 23PRONG
[3930] PI- N --> N(FRAGI + SHOWER
[3931] PI- NUCLEON --> (NOT ENCODED)
[3932] PI- NUCLEON --> PROTON
[3933] PI- NUCLEON --> MUON ANYTHING
[3934] PI- NUCLEON --> PI+ N(FRAGI)
[3935] PI- NUCLEON --> PI+ ANYTHING
[3936] PI- NUCLEON --> PI- NUCLEON
[3937] PI- NUCLEON --> PI- N(FRAG)
[3938] PI- NUCLEON --> PI- ANYTHING
[3939] PI- NUCLEON --> JPS(3310)ANYTHING
[3940] PI- NUCLEON --> KO ANYTHING
[3941] PI- NUCLEON --> LAMBDA ANYTHING
[3942] PI- NUCLEON --> K$ ANYTHING
[3943] PI- NUCLEON --> CHARM ANYTHING
[3944] PI- NUCLEON --> 2PRONG
[3945] PI- NUCLEON --> ANYTHING NIVEE)
[3946] PI- NUCLEON --> ANYTHING CHARGED
[3947] PI- NUCLEON --> 2MUON ANYTHING
[3948] PI- NUCLEON --> K+ PI- ANYTHING
[3949] PI- NUCLEON --> K- PI+ ANYTHING
[3950] PI- NUCLEON --> 2CHARM ANYTHING
[3951] PI- NUCLEON --> 3PRONG
[3952] PI- NUCLEON --> MU- MU+ NIVEE)
ANYTHING
[3953] PI- NUCLEON --> 4PRONG
[3954] PI- NUCLEON --> 5PRONG
[3955] PI- NUCLEON --> 6PRONG
[3956] PI- NUCLEON --> 7PRONG
[3957] PI- NUCLEON --> 8PRONG
[3958] PI- NUCLEON --> 9PRONG
[3959] PI- NUCLEON --> 10PRONG
[3960] PI- NUCLEON --> 11PRONG
[3961] PI- NUCLEON --> 12PRONG
[3962] PI- NUCLEON --> 13PRONG

[3963] PI- NUCLEON --> 14PRONG
[3964] PI- NUCLEON --> 15PRONG
[3965] PI- NUCLEON --> 16PRONG
[3966] PI- NUCLEON --> NUCLEON PI+ PI- + NUCLEON 2PI-
[3967] PI- DEUT --> (NOT ENCODED)
[3968] PI- DEUT --> GT.2PRONG
[3969] PI- DEUT --> N(PRONG)
[3970] PI- DEUT --> ANYTHING
[3971] PI- DEUT --> GAMMA N(NEUTRAL)
[3972] PI- DEUT --> GAMMA ANYTHING
[3973] PI- DEUT --> N(GAMMA) >GT.1PRONG
[3974] PI- DEUT --> N(GAMMA) 3PRONG
[3975] PI- DEUT --> N(GAMMA) PRONG
[3976] PI- DEUT --> N(GAMMA) ANYTHING
[3977] PI- DEUT --> GAMMA(S) ANYTHING
[3978] PI- DEUT --> N(PI0) ANYTHING
[3979] PI- DEUT --> PI0 ANYTHING
[3980] PI- DEUT --> PI- DEUT
[3981] PI- DEUT --> PI- DEUT**(2S00)+
[3982] PI- DEUT --> A1(1103)- DEUT
[3983] PI- DEUT --> B1(235)- DEUT
[3984] PI- DEUT --> A3(1649)- DEUT
[3985] PI- DEUT --> A4(1962)- DEUT
[3986] PI- DEUT --> K$(S) ANYTHING
[3987] PI- DEUT --> N(K$) >GT.1PRONG
[3988] PI- DEUT --> N(K$) 2PRONG
[3989] PI- DEUT --> N(K$) PRONG
[3990] PI- DEUT --> N(K$) ANYTHING
[3991] PI- DEUT --> K$ N(NEUTRALS)
[3992] PI- DEUT --> K$ ANYTHING
[3993] PI- DEUT --> P ANYTHING
[3994] PI- DEUT --> AP
[3995] PI- DEUT --> PROTON(S) ANYTHING
[3996] PI- DEUT --> DEL- P
[3997] PI- DEUT --> LAMBDA N(NEUTRALS)
[3998] PI- DEUT --> LAMBDA ANYTHING
[3999] PI- DEUT --> ALAMBDA ANYTHING
[4000] PI- DEUT --> N(LAMBDA) >GT.1PRONG
[4001] PI- DEUT --> N(LAMBDA) 3PRONG
[4002] PI- DEUT --> N(LAMBDA) PRONG
[4003] PI- DEUT --> N(LAMBDA) ANYTHING
[4004] PI- DEUT --> LAMBDA(S) ANYTHING
[4005] PI- DEUT --> DEUT ANYTHING
[4006] PI- DEUT --> DEUT DO < PI+ 2PI- >
[4007] PI- DEUT --> DEUT DO < 2PI+ 3PI- >
[4008] PI- DEUT --> CHAS) ANYTHING
[4009] PI- DEUT --> ANYTHING NIVEE)
[4010] PI- DEUT --> ANYTHING VEE(S)
[4011] PI- DEUT --> ANYTHING N(PRONG)
[4012] PI- DEUT --> ANYTHING NEUTRAL(S)
[4013] PI- DEUT --> GAMMA >GT.6PRONG ANYTHING
[4014] PI- DEUT --> GAMMA 2PRONG ANYTHING
[4015] PI- DEUT --> GAMMA PRONG ANYTHING
[4016] PI- DEUT --> N(GAMMA) 2PRONG
[4017] PI- DEUT --> GAMMA(S) >GT.6PRONG ANYTHING
[4018] PI- DEUT --> GAMMA(S) 3PRONG
[4019] PI- DEUT --> GAMMA(S) PRONG
[4020] PI- DEUT --> GAMMA(S) ANYTHING
[4021] PI- DEUT --> GAMMA(S) ANYTHING
[4022] PI- DEUT --> K$(S) >GT.6PRONG ANYTHING
[4023] PI- DEUT --> K$(S) 9PRONG ANYTHING
[4024] PI- DEUT --> K$(S) PRONG ANYTHING
[4025] PI- DEUT --> K$(S) ANYTHING
[4026] PI- DEUT --> K$(S) ANYTHING
[4027] PI- DEUT --> N(K$) 2PRONG
[4028] PI- DEUT --> K$ >GT.6PRONG ANYTHING
[4029] PI- DEUT --> K$ 9PRONG ANYTHING
[4030] PI- DEUT --> K$ PRONG ANYTHING
[4031] PI- DEUT --> P(SPECT) N PI-
[4032] PI- DEUT --> P(SPECT) N(1520)D13
PI-
[4033] PI- DEUT --> P(SPECT) N(1700)D13
PI-
[4034] PI- DEUT --> P N PI-
[4035] PI- DEUT --> P N(1520)D13 PI-
[4036] PI- DEUT --> P N(1700)D13 PI-
[4037] PI- DEUT --> 2N GAMMA
[4038] PI- DEUT --> DEL++ DEL- PI-
[4039] PI- DEUT --> LAMBDA >GT.6PRONG ANYTHING
[4040] PI- DEUT --> LAMBDA 3PRONG ANYTHING
[4041] PI- DEUT --> LAMBDA PRONG ANYTHING
[4042] PI- DEUT --> N(LAMBDA) 2PRONG
[4043] PI- DEUT --> LAMBDA(S) >GT.6PRONG ANYTHING

[4045] PI- DEUT --> LAMBDA(S) PRONG ANYTHING
[4046] PI- DEUT --> LAMBDA(S) ANYTHING
DOD-PRONG
[4047] PI- DEUT --> LAMBDA(S) ANYTHING
EVEN-PRONG
[4048] PI- DEUT --> DEUT*(2170)0 PI+ PI-
[4049] PI- DEUT --> DEUT*(2170)++ 2PI-
[4050] PI- DEUT --> VEE(S) >GT.6PRONG ANYTHING
[4051] PI- DEUT --> VEE(S) DPRONG ANYTHING
[4052] PI- DEUT --> VEE(S) PRONG ANYTHING
[4053] PI- DEUT --> VEE(S) ANYTHING
DOD-PRONG
[4054] PI- DEUT --> VEE(S) ANYTHING
EVEN-PRONG
[4055] PI- DEUT --> 3PRONG
[4056] PI- DEUT --> GAMMA 3PRONG
[4057] PI- DEUT --> GAMMA 2PRONG ANYTHING
[4058] PI- DEUT --> N(GAMMA) 3PRONG
[4059] PI- DEUT --> GAMMA(S) 2PRONG
ANYTHING
[4060] PI- DEUT --> K$(S) 2PRONG ANYTHING
[4061] PI- DEUT --> N(K$) 3PRONG
[4062] PI- DEUT --> K$ 3PRONG
[4063] PI- DEUT --> K$ 2PRONG ANYTHING
[4064] PI- DEUT --> P(SPECT) P 2PI-
[4065] PI- DEUT --> 2P 2PI-
[4066] PI- DEUT --> 2N PI+ PI-
[4067] PI- DEUT --> LAMBDA 3PRONG
[4068] PI- DEUT --> LAMBDA 2PRONG
ANYTHING
[4069] PI- DEUT --> N(LAMBDA) 3PRONG
[4070] PI- DEUT --> LAMBDA(S) 2PRONG
ANYTHING
[4071] PI- DEUT --> DEUT PI+ 2PI-
[4072] PI- DEUT --> VEE(S) 2PRONG
ANYTHING
[4073] PI- DEUT --> 4PRONG
[4074] PI- DEUT --> GAMMA 4PRONG
[4075] PI- DEUT --> GAMMA 3PRONG ANYTHING
[4076] PI- DEUT --> N(GAMMA) 4PRONG
[4077] PI- DEUT --> GAMMA(S) 3PRONG
ANYTHING
[4078] PI- DEUT --> K$(S) 3PRONG ANYTHING
[4079] PI- DEUT --> CHAS) 4PRONG
[4080] PI- DEUT --> K$ 4PRONG
[4081] PI- DEUT --> K$ 3PRONG ANYTHING
[4082] PI- DEUT --> 2N PI+ 2PI-
[4083] PI- DEUT --> LAMBDA 4PRONG
[4084] PI- DEUT --> LAMBDA 3PRONG
ANYTHING
[4085] PI- DEUT --> N(LAMBDA) 4PRONG
[4086] PI- DEUT --> LAMBDA(S) 3PRONG
ANYTHING
[4087] PI- DEUT --> VEE(S) 3PRONG
ANYTHING
[4088] PI- DEUT --> 5PRONG
[4089] PI- DEUT --> GAMMA 5PRONG
[4090] PI- DEUT --> GAMMA 4PRONG ANYTHING
[4091] PI- DEUT --> N(GAMMA) 5PRONG
[4092] PI- DEUT --> GAMMA(S) 4PRONG
[4093] PI- DEUT --> K$(S) 4PRONG ANYTHING
[4094] PI- DEUT --> N(K$) 5PRONG
[4095] PI- DEUT --> K$ 5PRONG
[4096] PI- DEUT --> K$ 4PRONG ANYTHING
[4097] PI- DEUT --> P(SPECT) 2P AP 2PI-
[4098] PI- DEUT --> LAMBDA 5PRONG
[4099] PI- DEUT --> LAMBDA 4PRONG
ANYTHING
[4100] PI- DEUT --> N(LAMBDA) 5PRONG
[4101] PI- DEUT --> LAMBDA(S) 4PRONG
ANYTHING
[4102] PI- DEUT --> DEUT 2PI+ 3PI-
[4103] PI- DEUT --> VEE(S) 4PRONG
ANYTHING
[4104] PI- DEUT --> 6PRONG
[4105] PI- DEUT --> GAMMA 6PRONG
[4106] PI- DEUT --> GAMMA 5PRONG ANYTHING
[4107] PI- DEUT --> N(GAMMA) 6PRONG
[4108] PI- DEUT --> GAMMA(S) 5PRONG
ANYTHING
[4109] PI- DEUT --> K$(S) 5PRONG ANYTHING
[4110] PI- DEUT --> N(K$) 6PRONG
[4111] PI- DEUT --> K$ 6PRONG
[4112] PI- DEUT --> K$ 5PRONG ANYTHING
[4113] PI- DEUT --> LAMBDA 6PRONG
[4114] PI- DEUT --> LAMBDA 5PRONG
ANYTHING
[4115] PI- DEUT --> N(LAMBDA) 6PRONG
[4116] PI- DEUT --> LAMBDA(S) 5PRONG
ANYTHING
[4117] PI- DEUT --> VEE(S) 5PRONG
ANYTHING
[4118] PI- DEUT --> 7PRONG
[4119] PI- DEUT --> GAMMA 7PRONG
[4120] PI- DEUT --> GAMMA 6PRONG ANYTHING

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[4121] PI- DEUT --> N(GAMMA) 7PRONG
[4122] PI- DEUT --> GAMMA(S) 6PRONG
ANYTHING
[4123] PI- DEUT --> K$(S) 6PRONG ANYTHING
[4124] PI- DEUT --> N(K$) 7PRONG
[4125] PI- DEUT --> K$ 7PRONG
[4126] PI- DEUT --> K$ 6PRONG ANYTHING
[4127] PI- DEUT --> LAMBDA 7PRONG
[4128] PI- DEUT --> LAMBDA 6PRONG
ANYTHING
[4129] PI- DEUT --> N(LAMBDA) 7PRONG
[4130] PI- DEUT --> LAMBDA(S) 6PRONG
ANYTHING
[4131] PI- DEUT --> VEE(S) 6PRONG
ANYTHING
[4132] PI- DEUT --> 8PRONG
[4133] PI- DEUT --> GAMMA 8PRONG
[4134] PI- DEUT --> GAMMA 7PRONG ANYTHING
[4135] PI- DEUT --> N(GAMMA) 8PRONG
[4136] PI- DEUT --> GAMMA(S) 7PRONG
ANYTHING
[4137] PI- DEUT --> K$(S) 7PRONG ANYTHING
[4138] PI- DEUT --> N(K$) 8PRONG
[4139] PI- DEUT --> K$ 8PRONG
[4140] PI- DEUT --> K$ 7PRONG ANYTHING
[4141] PI- DEUT --> LAMBDA 8PRONG
[4142] PI- DEUT --> LAMBDA 7PRONG
ANYTHING
[4143] PI- DEUT --> N(LAMBDA) 8PRONG
[4144] PI- DEUT --> LAMBDA(S) 7PRONG
ANYTHING
[4145] PI- DEUT --> VEE(S) 7PRONG
ANYTHING
[4146] PI- DEUT --> 9PRONG
[4147] PI- DEUT --> GAMMA 9PRONG
[4148] PI- DEUT --> GAMMA 8PRONG ANYTHING
[4149] PI- DEUT --> N(GAMMA) 9PRONG
[4150] PI- DEUT --> GAMMA(S) 8PRONG
ANYTHING
[4151] PI- DEUT --> K$(S) 8PRONG ANYTHING
[4152] PI- DEUT --> N(K$) 9PRONG
[4153] PI- DEUT --> K$ 8PRONG ANYTHING
[4154] PI- DEUT --> LAMBDA 9PRONG
[4155] PI- DEUT --> LAMBDA 8PRONG
ANYTHING
[4156] PI- DEUT --> LAMBDA(S) 8PRONG
ANYTHING
[4157] PI- DEUT --> VEE(S) 8PRONG
ANYTHING
[4158] PI- DEUT --> 10PRONG
[4159] PI- DEUT --> GAMMA 10PRONG
[4160] PI- DEUT --> GAMMA 9PRONG ANYTHING
[4161] PI- DEUT --> N(GAMMA) 10PRONG
[4162] PI- DEUT --> GAMMA(S) 9PRONG
ANYTHING
[4163] PI- DEUT --> N(K$) 10PRONG
[4164] PI- DEUT --> K$ 10PRONG
[4165] PI- DEUT --> LAMBDA 10PRONG
[4166] PI- DEUT --> N(LAMBDA) 10PRONG
[4167] PI- DEUT --> 11PRONG
[4168] PI- DEUT --> GAMMA 11PRONG
[4169] PI- DEUT --> GAMMA 10PRONG
ANYTHING
[4170] PI- DEUT --> GAMMA(S) 10PRONG
ANYTHING
[4171] PI- DEUT --> K$ 11PRONG
[4172] PI- DEUT --> LAMBDA 11PRONG
[4173] PI- DEUT --> 12PRONG
[4174] PI- DEUT --> GAMMA 12PRONG
[4175] PI- DEUT --> K$ 12PRONG
[4176] PI- DEUT --> LAMBDA 12PRONG
[4177] PI- DEUT --> 13PRONG
[4178] PI- DEUT --> GAMMA 13PRONG
[4179] PI- DEUT --> K$ 13PRONG
[4180] PI- DEUT --> LAMBDA 13PRONG
[4181] PI- DEUT --> 14PRONG
[4182] PI- DEUT --> GAMMA 14PRONG
[4183] PI- DEUT --> K$ 14PRONG
[4184] PI- DEUT --> LAMBDA 14PRONG
[4185] PI- DEUT --> 15PRONG
[4186] PI- DEUT --> GAMMA 15PRONG
[4187] PI- DEUT --> K$ 15PRONG
[4188] PI- DEUT --> LAMBDA 15PRONG
[4189] PI- DEUT --> 16PRONG
[4190] PI- DEUT --> GAMMA 16PRONG
[4191] PI- DEUT --> K$ 16PRONG
[4192] PI- DEUT --> LAMBDA 16PRONG
[4193] PI- DEUT --> 17PRONG
[4194] PI- DEUT --> GAMMA 17PRONG
[4195] PI- DEUT --> K$ 17PRONG
[4196] PI- DEUT --> LAMBDA 17PRONG
[4197] PI- DEUT --> 18PRONG
[4198] PI- DEUT --> GAMMA 18PRONG
[4199] PI- DEUT --> K$ 18PRONG
[4200] PI- DEUT --> LAMBDA 18PRONG
[4201] PI- DEUT --> 19PRONG
[4202] PI- DEUT --> GAMMA 19PRONG
[4203] PI- DEUT --> K$ 19PRONG
[4204] PI- DEUT --> LAMBDA 19PRONG

[4205] PI- DEUT --> 20PRONG
[4206] PI- DEUT --> GAMMA 20PRONG
[4207] PI- DEUT --> K$ 20PRONG
[4208] PI- DEUT --> LAMBDA 20PRONG
[4209] PI- DEUT --> 21PRONG
[4210] PI- DEUT --> GAMMA 21PRONG
[4211] PI- DEUT --> K$ 21PRONG
[4212] PI- DEUT --> LAMBDA 21PRONG
[4213] PI- DEUT --> 22PRONG
[4214] PI- DEUT --> GAMMA 22PRONG
[4215] PI- DEUT --> LAMBDA 22PRONG
[4216] PI- DEUT --> 23PRONG
[4217] PI- DEUT --> GAMMA 23PRONG
[4218] PI- DEUT --> 24PRONG
[4219] PI- DEUT --> GAMMA 24PRONG
[4220] PI- DEUT --> 25PRONG
[4221] PI- DEUT --> 26PRONG
[4222] PI- DEUT --> 27PRONG
[4223] PI- DEUT --> 28PRONG
[4224] PI- DEUT --> 29PRONG
[4225] PI- DEUT --> 30PRONG
[4226] PI- DEUT --> 2N OMEGA + 2N RHOC
[4227] PI- HE3 --> PI- HE3
[4228] PI- DEUT --> 3H GAMMA
[4229] PI- HE --> (NOT ENCODED)
[4230] PI- HE --> ANYTHING
[4231] PI- HE --> INELASTIC
[4232] PI- HE --> PI- HE
[4233] PI- HE --> HE ANYTHING
[4234] PI- HE --> HE3 N(UNSPECIF PI-
[4235] PI- HE --> N(UNSPECIF) PI-
[4236] PI- LI --> (NOT ENCODED)
[4237] PI- LI --> ANYTHING
[4238] PI- LI --> F19 NUCLEUS
[4239] PI- LI --> PI- LI
[4240] PI- LI --> ETA NUCLEUS
[4241] PI- BE --> (NOT ENCODED)
[4242] PI- BE --> ANYTHING
[4243] PI- BE --> PI- BE
[4244] PI- BE --> PHI ANYTHING
[4245] PI- BE --> (PSI(3010) ANYTHING
[4246] PI- BE --> MU- MU+ ANYTHING
[4247] PI- BE --> BE PI+ 2PI-
[4248] PI- BE --> 3PI-
[4249] PI- C --> (NOT ENCODED)
[4250] PI- C --> SHOWER
[4251] PI- C --> OPRONG
[4252] PI- C --> PRONG
[4253] PI- C --> N(PRONG)
[4254] PI- C --> ANYTHING
[4255] PI- C --> INELASTIC
[4256] PI- C --> GAMMA ANYTHING
[4257] PI- C --> N(GAMMA) .LT.4PRONG
[4258] PI- C --> N(GAMMA) .GT.13PRONG
[4259] PI- C --> N(K$) ANYTHING
[4260] PI- C --> MU+ ANYTHING
[4261] PI- C --> N(PI0) .LT.4PRONG
[4262] PI- C --> N(PI0) .GT.13PRONG
[4263] PI- C --> N(PI0) ANYTHING
[4264] PI- C --> PI0 NUCLEUS
[4265] PI- C --> ETA
[4266] PI- C --> PI- C=(4,44)
[4267] PI- C --> PI- ANYTHING
[4268] PI- C --> ETA NUCLEUS
[4269] PI- C --> K0
[4270] PI- C --> A1(1310)- C=(4,44)
[4271] PI- C --> A2(1310)- C=(4,44)
[4272] PI- C --> PRONG C=(4,44)
[4273] PI- C --> J/PSI(3100)0 ANYTHING
[4274] PI- C --> K$(S) ANYTHING
[4275] PI- C --> K$ ANYTHING
[4276] PI- C --> OP N(PRONG)
[4277] PI- C --> P N(PRONG)
[4278] PI- C --> P ANYTHING
[4279] PI- C --> N(K$) ANYTHING
[4280] PI- C --> N(K0) ANYTHING
[4281] PI- C --> PROTONS ANYTHING
[4282] PI- C --> LAMBDA ANYTHING
[4283] PI- C --> 2PRONG
[4284] PI- C --> NEUTRALS N(PRONG)
[4285] PI- C --> ANYTHING VEE
[4286] PI- C --> ANYTHING N(VEE)
[4287] PI- C --> ANYTHING N(CHARGED+)
[4288] PI- C --> ANYTHING N(CHARGED-)
[4289] PI- C --> ANYTHING N(CHARGED)
[4290] PI- C --> 2GAMMA ANYTHING
[4291] PI- C --> MU- MU+ ANYTHING
[4292] PI- C --> P PI+ ANYTHING
[4293] PI- C --> 2P N(PRONG)
[4294] PI- C --> 2P ANYTHING
[4295] PI- C --> P LAMBDA ANYTHING
[4296] PI- C --> 2LAMBDA ANYTHING
[4297] PI- C --> C PI0 PI-
[4298] PI- C --> 3PRONG
[4299] PI- C --> 3P N(PRONG)
[4300] PI- C --> C PI+ 2PI-
[4301] PI- C --> C 2PI0 PI-
[4302] PI- C --> C 3PI-
[4303] PI- C --> C=(4,44) PI+ 2PI-

[4304] PI- C --> 4PRONG
[4305] PI- C --> 4P N(PRONG)
[4306] PI- C --> N PI+ 2PI- ANYTHING
[4307] PI- C --> 5PRONG
[4308] PI- C --> 5P N(PRONG)
[4309] PI- C --> C 2PI+ 3PI-
[4310] PI- C --> C PI+ 2PI0 2PI-
[4311] PI- C --> 6PRONG
[4312] PI- C --> 6P N(PRONG)
[4313] PI- C --> 7PRONG
[4314] PI- C --> 8PRONG
[4315] PI- C --> 9PRONG
[4316] PI- C --> 10PRONG
[4317] PI- C --> 11PRONG
[4318] PI- C --> 12PRONG
[4319] PI- C --> 13PRONG
[4320] PI- C --> 14PRONG
[4321] PI- C --> 15PRONG
[4322] PI- C --> 16PRONG
[4323] PI- C --> 17PRONG
[4324] PI- C --> 18PRONG
[4325] PI- C --> 19PRONG
[4326] PI- C --> 20PRONG
[4327] PI- C --> 21PRONG
[4328] PI- C --> 22PRONG
[4329] PI- C --> 23PRONG
[4330] PI- C --> 24PRONG
[4331] PI- C --> N(PRONG) + SHOWER
[4332] PI- C --> N(GAMMA) 4PRENG +
N(GAMMA) 5PRONG
[4333] PI- C --> N(PI0) 4PRONG + N(PI0)
5PRONG
[4334] PI- C --> N(GAMMA) 6PRONG +
N(GAMMA) 7PRONG
[4335] PI- C --> N(PI0) 6PRONG + N(PI0)
7PRONG
[4336] PI- C --> N(GAMMA) 8PRONG +
N(GAMMA) 9PRONG
[4337] PI- C --> N(PI0) 8PRONG + N(PI0)
9PRONG
[4338] PI- C --> N(GAMMA) 10PRONG +
N(GAMMA) 11PRONG
[4339] PI- C --> N(PI0) 10PRONG + N(PI0)
11PRONG
[4340] PI- C --> N(GAMMA) 12PRONG +
N(GAMMA) 13PRONG
[4341] PI- C --> N(PI0) 12PRONG + N(PI0)
13PRONG
[4342] PI- O --> (NOT ENCODED)
[4343] PI- O --> SHOWER
[4344] PI- O --> GAMMA ANYTHING
[4345] PI- O --> PI- O
[4346] PI- O --> N(FRAG) + SHOWER
[4347] PI- FL --> (NOT ENCODED)
[4348] PI- NE --> (NOT ENCODED)
[4349] PI- NE --> N(PRONG)
[4350] PI- NE --> ANYTHING
[4351] PI- NE --> E- E+ ANYTHING
[4352] PI- NE --> P ANYTHING
[4353] PI- NE --> AP ANYTHING
[4354] PI- NE --> E- E+ ANYTHING
[4355] PI- NE --> P PI- ANYTHING
[4356] PI- NE --> NE RHO0 PI-
[4357] PI- NE --> NE A1(1100)- RHO0
[4358] PI- NE --> NE E- PI-
[4359] PI- NE --> NE N A1(1100)-
[4360] PI- NE --> NE PI+ 2PI-
[4361] PI- NE --> NE 2RHO0 PI-
[4362] PI- NE --> NE 2PI+ 3PI-
[4363] PI- NE --> NE 3PI+ 4PI-
[4364] PI- NE --> (NOT ENCODED)
[4365] PI- NG --> GAMMA ANYTHING
[4366] PI- AL --> (NOT ENCODED)
[4367] PI- AL --> HADRONS
[4368] PI- AL --> PRONG(S)
[4369] PI- AL --> PRONGS
[4370] PI- AL --> ANYTHING
[4371] PI- AL --> AG NUCLEUS
[4372] PI- AL --> PI- AL
[4373] PI- AL --> ETA NUCLEUS
[4374] PI- AL --> PI- AL
[4375] PI- AL --> P ANYTHING
[4376] PI- AL --> LAMEDA ANYTHING
[4377] PI- AL --> DEUT ANYTHING
[4378] PI- AL --> AL PI0 PI-
[4379] PI- AL --> AL PI+ 2PI-
[4380] PI- AL --> AL 3PI-
[4381] PI- SI --> SI PI+ 2PI-
[4382] PI- SI --> SI 3PI-
[4383] PI- CL --> (NOT ENCODED)
[4384] PI- AR --> (NOT ENCODED)
[4385] PI- CA --> (NOT ENCODED)
[4386] PI- CA --> GAMMA ANYTHING
[4387] PI- TI --> P ANYTHING
[4388] PI- TI --> TI PI+ 2PI-
[4389] PI- TI --> TI 3PI-
[4390] PI- FE --> (NOT ENCODED)
[4391] PI- FE --> CHARGED
[4392] PI- FE --> ANYTHING

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[4393] PI- FE --> J/PSI(3100)0 ANYTHING
[4394] PI- FE --> MU- MU+ ANYTHING
[4395] PI- NI --> P ANYTHING
[4396] PI- NI --> DEUT ANYTHING
[4397] PI- CU --> (NOT ENCODED)
[4398] PI- CU --> N(PRONG)
[4399] PI- CU --> ANYTHING
[4400] PI- CU --> MU- ANYTHING
[4401] PI- CU --> MU+ ANYTHING
[4402] PI- CU --> PI0 NUCLEUS
[4403] PI- CU --> PI- CU
[4404] PI- CU --> ETA NUCLEUS
[4405] PI- CU --> RHO- CU
[4406] PI- CU --> J/PSI(3100)0 ANYTHING
[4407] PI- CU --> K3 ANYTHING
[4408] PI- CU --> P ANYTHING
[4409] PI- CU --> N ANYTHING
[4410] PI- CU --> LAMBDA ANYTHING
[4411] PI- CU --> MU- MU+ ANYTHING
[4412] PI- CU --> CU PI0 PI-
[4413] PI- CU --> CU PI+ 2PI-
[4414] PI- CU --> CU 3PRONG
[4415] PI- ER --> (NOT ENCODED)
[4416] PI- BR --> SHOWER
[4417] PI- BR --> N(PRONG) + SHOWER
[4418] PI- NB --> GAMMA ANYTHING
[4419] PI- AG --> (NOT ENCODED)
[4420] PI- AG --> SHOWER
[4421] PI- AG --> N(PRONG)
[4422] PI- AG --> ANYTHING
[4423] PI- AS --> RHO- AG
[4424] PI- AS --> AG PI0 PI-
[4425] PI- AG --> AG PI+ 2PI-
[4426] PI- AG --> AG 3PI-
[4427] PI- AG --> N(PRONG) + SHOWER
[4428] PI- CD --> P ANYTHING
[4429] PI- SN --> ANYTHING
[4430] PI- SN --> PI- SN
[4431] PI- XE --> (NOT ENCODED)
[4432] PI- XE --> N(GAMMA)
[4433] PI- XE --> N(N)
[4434] PI- XE --> N(NUCLEI)
[4435] PI- XE --> N(PRONG)
[4436] PI- XE --> GAMMA CHARGED
[4437] PI- XE --> GAMMA ANYTHING
[4438] PI- XE --> 0GAMMA CHARGED
[4439] PI- XE --> N(GAMMA) 0PRONG
[4440] PI- XE --> N(GAMMA) PRONG
[4441] PI- XE --> PI0N N(P)
[4442] PI- XE --> PI+ ANYTHING
[4443] PI- XE --> PI0 ANYTHING
[4444] PI- XE --> K3 ANYTHING
[4445] PI- XE --> 0P ANYTHING
[4446] PI- XE --> P ANYTHING
[4447] PI- XE --> LAMBDA ANYTHING
[4448] PI- XE --> 2GAMMA CHARGED
[4449] PI- XE --> 2GAMMA ANYTHING
[4450] PI- XE --> N(GAMMA) 2PRONG
[4451] PI- XE --> PI0 0PRONG NEUTRALS
[4452] PI- XE --> 2P ANYTHING
[4453] PI- XE --> N(PI 2P0N
[4454] PI- XE --> 3GAMMA CHARGED
[4455] PI- XE --> N(GAMMA) 3PRONG
[4456] PI- XE --> PI0 2PRONG NEUTRALS
[4457] PI- XE --> 3P ANYTHING
[4458] PI- XE --> N(PI 4P0N
[4459] PI- XE --> NUCLEUS 2PI0 PI-
[4460] PI- XE --> NUCLEUS P 2PI0
[4461] PI- XE --> NUCLEUS NEUTRONS 2PI0
[4462] PI- XE --> NUCLEUS NEUTRONS ETA PI0
[4463] PI- XE --> 4GAMMA CHARGED
[4464] PI- XE --> N(GAMMA) 4PRONG
[4465] PI- XE --> PI0 3PRONG NEUTRALS
[4466] PI- XE --> 4P ANYTHING
[4467] PI- XE --> N(PI 4P0N
[4468] PI- XE --> 5GAMMA CHARGED
[4469] PI- XE --> N(GAMMA) 5PRONG
[4470] PI- XE --> PI0 4PRONG NEUTRALS
[4471] PI- XE --> 5P ANYTHING
[4472] PI- XE --> N(PI 5P0N
[4473] PI- XE --> NUCLEUS NEUTRONS 4GAMMA
[4474] PI- XE --> 6GAMMA CHARGED
[4475] PI- XE --> N(GAMMA) 6PRONG
[4476] PI- XE --> PI0 5PRONG NEUTRALS
[4477] PI- XE --> 6P ANYTHING
[4478] PI- XE --> N(PI 6P0N
[4479] PI- XE --> 7GAMMA CHARGED
[4480] PI- XE --> N(GAMMA) 7PRONG
[4481] PI- XE --> PI0 6PRONG NEUTRALS
[4482] PI- XE --> 7P ANYTHING
[4483] PI- XE --> N(PI 7P0N
[4484] PI- XE --> 8GAMMA CHARGED
[4485] PI- XE --> N(GAMMA) 8PRONG
[4486] PI- XE --> PI0 7PRONG NEUTRALS
[4487] PI- XE --> 8P ANYTHING
[4488] PI- XE --> N(PI 8P0N
[4489] PI- XE --> 9GAMMA CHARGED
[4490] PI- XE --> N(GAMMA) 9PRONG

[4491] PI- XE --> PI0 8PRONG NEUTRALS
[4492] PI- XE --> 9P ANYTHING
[4493] PI- XE --> LOGAMMA CHARGED
[4494] PI- XE --> N(GAMMA) 10PRONG
[4495] PI- XE --> PI0 9PRONG NEUTRALS
[4496] PI- XE --> 10P ANYTHING
[4497] PI- XE --> N(GAMMA) 11PRONG
[4498] PI- XE --> PI0 10PRONG NEUTRALS
[4499] PI- XE --> 11P ANYTHING
[4500] PI- XE --> N(GAMMA) 12PRONG
[4501] PI- XE --> PI0 11PRONG NEUTRALS
[4502] PI- XE --> 12P ANYTHING
[4503] PI- XE --> N(GAMMA) 13PRONG
[4504] PI- XE --> PI0 12PRONG NEUTRALS
[4505] PI- XE --> 13P ANYTHING
[4506] PI- XE --> N(GAMMA) 14PRONG
[4507] PI- XE --> PI0 13PRONG NEUTRALS
[4508] PI- XE --> N(GAMMA) 15PRONG
[4509] PI- XE --> PI0 14PRONG NEUTRALS
[4510] PI- XE --> N(GAMMA) 16PRONG
[4511] PI- XE --> PI0 15PRONG NEUTRALS
[4512] PI- XE --> PI0 16PRONG NEUTRALS
[4513] PI- TA --> P ANYTHING
[4514] PI- TA --> DEUT ANYTHING
[4515] PI- TA --> PI+ PI- 2PI-
[4516] PI- TA --> TA 3PI-
[4517] PI- WT --> (NOT ENCODED)
[4518] PI- WT --> MU- ANYTHING
[4519] PI- WT --> MU+ ANYTHING
[4520] PI- WT --> J/PSI(3100)0 ANYTHING
[4521] PI- WT --> LAMBDA ANYTHING
[4522] PI- WT --> MU- MU+ ANYTHING
[4523] PI- PB --> (NOT ENCODED)
[4524] PI- PB --> N(PRONG)
[4525] PI- PB --> ANYTHING
[4526] PI- PB --> PIONS PB
[4527] PI- PB --> N(PION) ANYTHING
[4528] PI- PB --> PI- ANYTHING
[4529] PI- PB --> PI- PB
[4530] PI- PB --> PI- ANYTHING
[4531] PI- PB --> RHO- PB
[4532] PI- PB --> P ANYTHING
[4533] PI- PB --> PB PI0 PI-
[4534] PI- PB --> PB PI+ 2PI-
[4535] PI- PB --> PB 3PI-
[4536] PI- U --> (NOT ENCODED)
[4537] PI- U --> CHARGED
[4538] PI- U --> N(PRONG)
[4539] PI- U --> ANYTHING
[4540] PI- U --> PIONS U
[4541] PI- U --> N(PION) ANYTHING
[4542] PI- U --> PI+ ANYTHING
[4543] PI- U --> PI- U
[4544] PI- U --> PI- ANYTHING
[4545] PI- U --> RHO- U
[4546] PI- U --> P ANYTHING
[4547] PI- U --> HE ANYTHING
[4548] PI- U --> HYPERONS ANYTHING
[4549] PI- U --> PI- MU+ ANYTHING
[4550] PI- U --> U PI0 PI-
[4551] PI- U --> U PI+ 2PI-
[4552] PI- NUCLEUS --> (NOT ENCODED)
[4553] PI- NUCLEUS --> <LT.6PRONG
[4554] PI- NUCLEUS --> STRANGE
[4555] PI- NUCLEUS --> N(CHARGED)
[4556] PI- NUCLEUS --> <GT.10PRONG
[4557] PI- NUCLEUS --> PRONG
[4558] PI- NUCLEUS --> N(PRONG)
[4559] PI- NUCLEUS --> HE ANYTHING
[4560] PI- NUCLEUS --> INELASTIC
[4561] PI- NUCLEUS --> E- ANYTHING
[4562] PI- NUCLEUS --> N(GAMMA)
[4563] PI- NUCLEUS --> MU- ANYTHING
[4564] PI- NUCLEUS --> MU+ ANYTHING
[4565] PI- NUCLEUS --> PIONS NUCLEUS
[4566] PI- NUCLEUS --> PI+ 2PRONG
[4567] PI- NUCLEUS --> PI+ ANYTHING
[4568] PI- NUCLEUS --> PI0 NUCLEUS
[4569] PI- NUCLEUS --> PI- NUCLEUS
[4570] PI- NUCLEUS --> PI- N(PRONG)
[4571] PI- NUCLEUS --> PI- ANYTHING
[4572] PI- NUCLEUS --> RHO0 NUCLEUS
[4573] PI- NUCLEUS --> RHO0 ANYTHING
[4574] PI- NUCLEUS --> RHO- NUCLEUS
[4575] PI- NUCLEUS --> A2(1310)- NUCLEUS
[4576] PI- NUCLEUS --> J/PSI(3100)0
HADRONS
[4577] PI- NUCLEUS --> J/PSI(3100)0
[4578] PI- NUCLEUS --> K+ ANYTHING
[4579] PI- NUCLEUS --> K3 ANYTHING
[4580] PI- NUCLEUS --> K- ANYTHING
[4581] PI- NUCLEUS --> P ANYTHING
[4582] PI- NUCLEUS --> AP ANYTHING
[4583] PI- NUCLEUS --> LAMBDA ANYTHING
[4584] PI- NUCLEUS --> DEUT ANYTHING
[4585] PI- NUCLEUS --> ADEUT ANYTHING
[4586] PI- NUCLEUS --> LI ANYTHING
[4587] PI- NUCLEUS --> HNUCLEUS ANYTHING

[4588] PI- NUCLEUS --> 2PRONG
[4589] PI- NUCLEUS --> ANYTHING SHOWER
[4590] PI- NUCLEUS --> ANYTHING FRAGS
[4591] PI- NUCLEUS --> ANYTHING FRAG
[4592] PI- NUCLEUS --> ANYTHING HADRONS
[4593] PI- NUCLEUS --> ANYTHING CHARGEC
[4594] PI- NUCLEUS --> ANYTHING
NEUTRALS(
[4595] PI- NUCLEUS --> 2GAMMA ANYTHING
[4596] PI- NUCLEUS --> MU- MU+ HADRONS
[4597] PI- NUCLEUS --> MU- MU+ N(PRONG)
[4598] PI- NUCLEUS --> MU- MU+ ANYTHING
[4599] PI- NUCLEUS --> MU- CHARM ANYTHING
[4600] PI- NUCLEUS --> MU- CHARGED
[4601] PI- NUCLEUS --> MU+ CHARM ANYTHING
[4602] PI- NUCLEUS --> MU+ CHARGEC
ANYTHING
[4603] PI- NUCLEUS --> 2PI+ ANYTHING
[4604] PI- NUCLEUS --> PI+ PI- ANYTHING
[4605] PI- NUCLEUS --> 2PI- ANYTHING
[4606] PI- NUCLEUS --> K+ PI- ANYTHING
[4607] PI- NUCLEUS --> K3 MU- ANYTHING
[4608] PI- NUCLEUS --> K3 MU+ ANYTHING
[4609] PI- NUCLEUS --> K- PI+ ANYTHING
[4610] PI- NUCLEUS --> LAMBDA MU-
ANYTHING
[4611] PI- NUCLEUS --> LAMBDA MU+
ANYTHING
[4612] PI- NUCLEUS --: NUCLEUS PI0 PI-
[4613] PI- NUCLEUS --> NUCLEUS PI- GAMMA
[4614] PI- NUCLEUS --> NUCLEUS ETA PI-
[4615] PI- NUCLEUS --> NUCLEUS KS K-
[4616] PI- NUCLEUS --> NUCLEUS PROTONS
NEUTRON
[4617] PI- NUCLEUS --> 3PRONG
[4618] PI- NUCLEUS --> 2MU- MU+ ANYTHING
[4619] PI- NUCLEUS --> MU- MU+ HADRONS
N(VEE)
[4620] PI- NUCLEUS --> MU- MU+ HADRONS
N(VEE)
[4621] PI- NUCLEUS --> K3 2MU- ANYTHING
[4622] PI- NUCLEUS --> K3 MU- MU+
ANYTHING
[4623] PI- NUCLEUS --> K3 2MU+ ANYTHING
[4624] PI- NUCLEUS --> LAMBDA 2MU-
ANYTHING
[4625] PI- NUCLEUS --> LAMBDA MU- MU+
ANYTHING
[4626] PI- NUCLEUS --> LAMBDA 2MU+
ANYTHING
[4627] PI- NUCLEUS --> NUCLEUS PI+ 2PI-
[4628] PI- NUCLEUS --> 4PRONG
[4629] PI- NUCLEUS --> 2MU- 2MU+ ANYTHING
[4630] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 0PRONG
[4631] PI- NUCLEUS --> NUCLEUS 2PI+ PI-
GAMMA(S)
[4632] PI- NUCLEUS --> NUCLEUS 2PI+ PI-
GAMMA(S)
[4633] PI- NUCLEUS --> 5PRONG
[4634] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 2PRONG
[4635] PI- NUCLEUS --> 6PRONG
[4636] PI- NUCLEUS --> 7PRONG
[4637] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 4PRONG
[4638] PI- NUCLEUS --> 8PRONG
[4639] PI- NUCLEUS --> 9PRONG
[4640] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 6PRONG
[4641] PI- NUCLEUS --> 10PRONG
[4642] PI- NUCLEUS --> 11PRONG
[4643] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 8PRONG
[4644] PI- NUCLEUS --> 12PRONG
[4645] PI- NUCLEUS --> 13PRONG
[4646] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 10PRONG
[4647] PI- NUCLEUS --> 14PRONG
[4648] PI- NUCLEUS --> 15PRONG
[4649] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 12PRONG
[4650] PI- NUCLEUS --> 16PRONG
[4651] PI- NUCLEUS --> 17PRONG
[4652] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 14PRONG
[4653] PI- NUCLEUS --> 18PRONG
[4654] PI- NUCLEUS --> 19PRONG
[4655] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 16PRONG
[4656] PI- NUCLEUS --> 20PRONG
[4657] PI- NUCLEUS --> 21PRONG
[4658] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 18PRONG
[4659] PI- NUCLEUS --> 22PRONG
[4660] PI- NUCLEUS --> 23PRONG
[4661] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 20PRONG

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[4662] PI- NUCLEUS --> 2APRONG
[4663] PI- NUCLEUS --> 2SPRONG
[4664] PI- NUCLEUS --> ML- MU+ HADRONS
VEE 2ZPRONG
[4665] PI- NUCLEUS --> 2EPRONG
[4666] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 2APRONG
[4667] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 2EPRONG
[4668] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 2SPRONG
[4669] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 3GPRONG
[4670] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 3ZPRONG
[4671] PI- NUCLEUS --> MU- MU+ HADRONS
VEE 3APRONG
[4672] PI- NUCLEUS --> D+ D- HADRONS + OOT
ADD HADRONS
[4673] PI- UNSPEC --> (NOT ENCODED)
[4674] ETA NUCLEON --> (NOT ENCODED)
[4675] ETA NUCLEON --> ANYTHING
[4676] ETA NUCLEON --> ETA NUCLEON
[4677] RHOO NUCLEON --> ANYTHING
[4678] RHOO DEUT --> ANYTHING
[4679] OMEGA DEUT --> ANYTHING
[4680] F NUCLEON --> ANYTHING
[4681] A3(1643)- PI+ --> (NOT ENCODED)
[4682] J/PSI(3100)3 NUCLEON --> (NOT
ENCODED)
[4683] JPSI(3100)0 NUCLEON --> ANYTHING
[4684] PIPI(I=0) --> (NOT ENCODED)
[4685] PIPI(I=1) --> (NOT ENCODED)
[4686] PIPI(I=2) --> (NOT ENCODED)
[4687] PIPI(I=2) --> ANYTHING
[4688] K- E- --> K- K+
[4689] K+ PI+ --> (NOT ENCODED)
[4690] K+ PI+ --> PI+ K+
[4691] K+ PI0 --> (NOT ENCODED)
[4692] K+ PI- --> (NOT ENCODED)
[4693] K+ PI- --> NEUTRALS
[4694] K+ PI- --> ANYTHING
[4695] K+ PI- --> PI+ K+
[4696] K+ PI- --> 2PRONG
[4697] K+ PI- --> 4PRONG
[4698] K+ K- --> K+ K-
[4699] K+ P --> (NOT ENCODED)
[4700] K+ P --> NICHARGEC
[4701] K+ P --> NIPRONGI
[4702] K+ P --> ANYTHING
[4703] K+ P --> INELASTIC
[4704] K+ P --> GAMMA ANYTHING
[4705] K+ P --> PI(S) ANYTHING
[4706] K+ P --> PI-(S) ANYTHING
[4707] K+ P --> NIPI+1 ANYTHING
[4708] K+ P --> NIPI01 ANYTHING
[4709] K+ P --> NIPI02 ANYTHING
[4710] K+ P --> PI+ ANYTHING
[4711] K+ P --> PI0 ANYTHING
[4712] K+ P --> PI- ANYTHING
[4713] K+ P --> PHI ANYTHING
[4714] K+ P --> N(K$) ANYTHING
[4715] K+ P --> K+ N
[4716] K+ P --> K+ N(1470)8+
[4717] K+ P --> K+ N(1520)8+
[4718] K+ P --> K+ N(1688)15+
[4719] K+ P --> K+ K- P 2PI0 P
[4720] K+ P --> K+ CEL+
[4721] K+ P --> K+ N*(LMSPEC)+
[4722] K+ P --> K+ N*(LMSPEC)0
[4723] K+ P --> K0 DEL++
[4724] K+ P --> K0 ANYTHING
[4725] K+ P --> K$ NIPRONG1
[4726] K+ P --> K$ ANYTHING
[4727] K+ P --> AK0 Z0(1780)+
[4728] K+ P --> K- P
[4729] K+ P --> K- ANYTHING
[4730] K+ P --> KAON PIDEL(I=1/2)
[4731] K+ P --> KAON PIDEL(I=3/2)
[4732] K+ P --> K*(892)0 N
[4733] K+ P --> K*(892)+ N(1470)8+
[4734] K+ P --> K*(892)+ N(1520)8+
[4735] K+ P --> K*(892)+ N(1590)8+
[4736] K+ P --> K*(892)+ N(1700)8+
[4737] K+ P --> K*(892)+ DEL+
[4738] K+ P --> K*(892)+ ANYTHING
[4739] K+ P --> K*(892)0 P
[4740] K+ P --> K*(89210 DEL(1880)8++
[4741] K+ P --> K*(89210 DEL(1950F37)++
[4742] K+ P --> K*(892)0 ANYTHING
[4743] K+ P --> K*(1225)+ P
[4744] K+ P --> QLUE(1240)+ P
[4745] K+ P --> QLUE(1240)0 DEL++
[4746] K+ P --> QI(1240-1400)+ P
[4747] K+ P --> QI(1240-1400)+ ANYTHING
[4748] K+ P --> QHIGH(1343)+ P
[4749] K+ P --> KPRIME(1400)+ P
[4750] K+ P --> K*(1420)+ P
[4751] K+ P --> K*(1420)+ DEL+

[4752] K+ P --> K*(1420)0 ANYTHING
[4753] K+ P --> K*(1420)0 DEL++
[4754] K+ P --> K*(1420)0 DEL(1950F37)++
[4755] K+ P --> K*(1420)0 ANYTHING
[4756] K+ P --> KN(1700)+ P
[4757] K+ P --> L(1770)+ P
[4758] K+ P --> K*(1780)+ P
[4759] K+ P --> KN(1800)+ P
[4760] K+ P --> K*PI(I=1/2) NUCLEON
[4761] K+ P --> K*PI(I=3/2) NUCLEON
[4762] K+ P --> P ANYTHING
[4763] K+ P --> P DD
[4764] K+ P --> AP ANYTHING
[4765] K+ P --> CEL++ ANYTHING
[4766] K+ P --> LAMBDA ANYTHING
[4767] K+ P --> ALAMBDA ANYTHING
[4768] K+ P --> NLAMBDA1 ANYTHING
[4769] K+ P --> SIGMA- PRONG
[4770] K+ P --> XI- ANYTHING
[4771] K+ P --> OMEGA ANYTHING
[4772] K+ P --> 2PRONG
[4773] K+ P --> GAMMA 2PRONG
[4774] K+ P --> NIPI0J 2PRONG
[4775] K+ P --> NIPI0J 2PRONG
[4776] K+ P --> 2PI0 ANYTHING
[4777] K+ P --> PI0 CHARGEDEX ANYTHING
[4778] K+ P --> 2PI0 ANYTHING
[4779] K+ P --> K0 PI+ ANYTHING
[4780] K+ P --> K0 PI- ANYTHING
[4781] K+ P --> K0 PI0 ANYTHING
[4782] K+ P --> KS PI+ ANYTHING
[4783] K+ P --> P K+ PI0
[4784] K+ P --> P K+ RHO0
[4785] K+ P --> P K+ OMEGA
[4786] K+ P --> P K+ PHI
[4787] K+ P --> P K0 PI+
[4788] K+ P --> P K0 RHO+
[4789] K+ P --> P K$ PI+
[4790] K+ P --> P K*(892)+ PI0
[4791] K+ P --> P K*(892)+ ETA
[4792] K+ P --> P K*(892)+ RHO0
[4793] K+ P --> P K*(892)+ OMEGA
[4794] K+ P --> P K*(892)0 PI+
[4795] K+ P --> P K*(892)$ PI-
[4796] K+ P --> P CLOW(1240)0 PI+
[4797] K+ P --> P K*(1420)0 PI+
[4798] K+ P --> P NN(1440)0 PI+
[4799] K+ P --> 2P ALAMBDA
[4800] K+ P --> 2P ASIGMA0
[4801] K+ P --> N K+ PI+
[4802] K+ P --> N K*(892)+ PI+
[4803] K+ P --> N K*(1420)+ PI+
[4804] K+ P --> NUCLEON KAON PION
[4805] K+ P --> N(1470)8+ K0 PI+
[4806] K+ P --> N(1520)8+ K0 PI+
[4807] K+ P --> N(1700)8+ K0 PI+
[4808] K+ P --> DEL++ OMEGA
[4809] K+ P --> DEL++ K+ PI-
[4810] K+ P --> DEL++ K0 PI0
[4811] K+ P --> DEL++ OMEGA
[4812] K+ P --> DEL++ K0 PHI
[4813] K+ P --> DEL++ K*(892)+ PI-
[4814] K+ P --> DEL++ K*(89210 OMEGA
[4815] K+ P --> DEL+ K0 PI+
[4816] K+ P --> DELO K+ PI+
[4817] K+ P --> LAMBDA 2K+
[4818] K+ P --> LAMBDA 2PRONG
[4819] K+ P --> ALAMBDA 2PRONG
[4820] K+ P --> SIGMA+ K+ K0
[4821] K+ P --> SIGMA+ 2K+
[4822] K+ P --> VEE 2PRONG
[4823] K+ P --> 2PRONG OVEE
[4824] K+ P --> PI- 3PRONG
[4825] K+ P --> K0 2PI+ NEUTRAL(S)
[4826] K+ P --> P K+ PI+ PI-
[4827] K+ P --> P 2K+ K-
[4828] K+ P --> P K+ K0 PIJ
[4829] K+ P --> P K0 PI+ PIOS
[4830] K+ P --> P K0 PI0 PI0
[4831] K+ P --> P K0 PI+ PI-
[4832] K+ P --> P K0 RHO0 PI+
[4833] K+ P --> P K0 OMEGA PI+
[4834] K+ P --> P K0 PHI PI+
[4835] K+ P --> P K*(892)+ PI+ PI-
[4836] K+ P --> 2P AP K+
[4837] K+ P --> 2P AP K-
[4838] K+ P --> 2P ALAMBDA PI0
[4839] K+ P --> 2P N ALAMBDA PI0
[4840] K+ P --> N K+ PI+ PI0
[4841] K+ P --> N 2K+ AK0
[4842] K+ P --> N K0 2PI+
[4843] K+ P --> NUCLEON KAON 2PION
[4844] K+ P --> DEL++ K0 PI+ PI-
[4845] K+ P --> LAMBDA 2K+ PI0
[4846] K+ P --> LAMBDA K+ K0 PI+
[4847] K+ P --> SIGMA0 K+ K0 PI+
[4848] K+ P --> SIGMA- 3PRONG
[4849] K+ P --> 2VEE 2PRONG
[4850] K+ P --> 4PRONG

[4851] K+ P --> GAMMA 4PRONG
[4852] K+ P --> NIPI0J 4PRONG
[4853] K+ P --> P K+ PI+ PI0 PI-
[4854] K+ P --> P K+ PI+ PI- MM,GE.2
[4855] K+ P --> P 2K+ K- PI0
[4856] K+ P --> P K+ K0 K- PI+
[4857] K+ P --> P K0 2PI+ PI-
[4858] K+ P --> P K0 PHI PI+ PI0
[4859] K+ P --> P K*(892)+ PI+ PI0 PI-
[4860] K+ P --> 2P ALAMBDA PI+ PI-
[4861] K+ P --> 2P ASIGMA0 PI+ PI-
[4862] K+ P --> N K+ 2PI+ PI-
[4863] K+ P --> DEL++ K0 PI+ PI0 PI-
[4864] K+ P --> LAMBDA 2K+ PI+ PI-
[4865] K+ P --> LAMBDA 3K+ K-
[4866] K+ P --> LAMBDA K+ K0 PI+ PI0
[4867] K+ P --> LAMBDA 2K0 2PI+
[4868] K+ P --> LAMBDA 4PRONG
[4869] K+ P --> ALAMBDA 4PRONG
[4870] K+ P --> SIGMA0 2K+ PI+ PI-
[4871] K+ P --> VEE 4PRONG
[4872] K+ P --> 4PRONG OVEE
[4873] K+ P --> 5PRONG
[4874] K+ P --> PI- 5PRONG
[4875] K+ P --> P K+ 2PI+ 2PI-
[4876] K+ P --> P K+ K0 K- PI+ PI0
[4877] K+ P --> P K0 2PI+ PI0 PI-
[4878] K+ P --> P K0 2PI+ PI- MM,GE.2
[4879] K+ P --> N K0 3PI+ PI-
[4880] K+ P --> LAMBDA K+ K0 2PI+ PI-
[4881] K+ P --> SIGMA- 5PRONG
[4882] K+ P --> 2VEE 4PRONG
[4883] K+ P --> 6PRONG
[4884] K+ P --> GAMMA 6PRONG
[4885] K+ P --> NIPI0J 6PRONG
[4886] K+ P --> LAMBDA 6PRONG
[4887] K+ P --> ALAMBDA 6PRONG
[4888] K+ P --> VEE 6PRONG
[4889] K+ P --> 6PRONG OVEE
[4890] K+ P --> PI- 7PRONG
[4891] K+ P --> SIGMA- 7PRONG
[4892] K+ P --> 8PRONG
[4893] K+ P --> GAMMA 8PRONG
[4894] K+ P --> LAMBDA 8PRONG
[4895] K+ P --> ALAMBDA 8PRONG
[4896] K+ P --> VEE 8PRONG
[4897] K+ P --> 8PRONG OVEE
[4898] K+ P --> PI- 9PRONG
[4899] K+ P --> 10PRONG
[4900] K+ P --> GAMMA 10PRONG
[4901] K+ P --> PI- 11PRONG
[4902] K+ P --> 12PRONG
[4903] K+ P --> GAMMA 12PRONG
[4904] K+ P --> 14PRONG
[4905] K+ P --> 16PRONG
[4906] K+ P --> 18PRONG
[4907] K+ P --> PI- ANYTHING + PI-
ANYTHING
[4908] K+ P --> K+ ANYTHING + PI+
ANYTHING
[4909] K+ P --> K0 ANYTHING + AK0
ANYTHING
[4910] K+ P --> K0 PI0 ANYTHING + AK0 PI0
ANYTHING
[4911] K+ P --> 2K0 ANYTHING + 2AK0
ANYTHING
[4912] P P --> K0 CHARGEX ANYTHING + AK0
CHARGED ANYTHING
[4913] K+ P --> K0 2PRONG + AK0 2PRONG
[4914] K+ P --> 2P ALAMBDA + 2P ASIGMA0
[4915] K+ P --> LAMBDA 2K+ + SIGMA0 2K+
[4916] K+ P --> LAMBDA K0 ANYTHING +
LAMBDA AK0 ANYTHING
[4917] K+ P --> LAMBDA K+ K0 PI+ + SIGMA0
K+ K0 PI+
[4918] K+ P --> K0 4PRONG + AK0 4PRONG
[4919] K+ P --> 2P ALAMBDA PI+ PI- + 2P
ASIGMA0 PI+ PI-
[4920] K+ P --> LAMBDA 2K+ PI+ PI- +
SIGMA0 2K+ PI+ PI-
[4921] K+ P --> K0 6PRONG + AK0 6PRONG
[4922] K+ P --> K0 8PRONG + AK0 8PRONG
[4923] K+ F --> K+ P + 2PRONG
[4924] K+ N --> (NOT ENCODED)
[4925] K+ N --> ANYTHING
[4926] K+ N --> K+ N
[4927] K+ N --> K+ N(1470)0
[4928] K+ N --> K+ N(1700)0
[4929] K+ N --> K+ DEL0
[4930] K+ N --> K- P
[4931] K+ N --> K0 N(1688P15)+
[4932] K+ N --> K0 DEL+
[4933] K+ N --> K0 P
[4934] K+ N --> K*(892)+ N
[4935] K+ N --> K*(89210 P
[4936] K+ N --> K*(1420)+ N
[4937] K+ N --> K*(1420)0 P
[4938] K+ N --> K*(1430)0 N
[4939] K+ N --> K*(1780)0 P

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

(4940) K+ N --> KN1I80010 P
(4941) K+ N --> EXOTIC-MESON ANYTHING
(4942) K+ N --> MU- MU+ ANYTHING
(4943) K+ N --> P K+ PI-
(4944) K+ N --> P KO PIO
(4945) K+ N --> P KO CMEGA
(4946) K+ N --> P K*(892)0 PIO
(4947) K+ N --> P ALAMBDA ANYTHING
(4948) K+ N --> N K+ PIO
(4949) K+ N --> N KO PIO
(4950) K+ N --> N KS PI+
(4951) K+ N --> NUCLEON KAON PION
(4952) K+ N --> P K* PIO PI-
(4953) K+ N --> P KO PIO PI+
(4954) K+ N --> P KS PIO PI-
(4955) K+ N --> N K* PI+ PI-
(4956) K+ N --> P K+ PI+ PI-
(4957) K+ N --> P KO PI+ PIO PI-
(4958) K+ N --> P K+ PI+ PIO 2PI-
(4959) K+ NUCLEON --> (NOT ENCODED)
(4960) K+ DEUT --> (NOT ENCODED)
(4961) K+ DEUT --> .GT.7PRONG
(4962) K+ DEUT --> ANYTHING
(4963) K+ DEUT --> INELASTIC
(4964) K+ DEUT --> PI+ ANYTHING
(4965) K+ DEUT --> PI- ANYTHING
(4966) K+ DEUT --> K+ DEUT
(4967) K+ DEUT --> K+ ANYTHING
(4968) K+ DEUT --> KS ANYTHING
(4969) K+ DEUT --> K- ANYTHING
(4970) K+ DEUT --> K*(892)+ DEUT
(4971) K+ DEUT --> QLOW(1240)+ DELT
(4972) K+ DEUT --> Q(1240-1400)+ DEUT
(4973) K+ DEUT --> PISPECT1 PRONG
(4974) K+ DEUT --> P ANYTHING
(4975) K+ DEUT --> AP ANYTHING
(4976) K+ DEUT --> ACMEGA+ ANYTHING
(4977) K+ DEUT --> DEUT ANYTHING
(4978) K+ DEUT --> 2PRONG
(4979) K+ DEUT --> P(SPECT) KO ANYTHING
(4980) K+ DELT --> P(SPECT) P KO
(4981) K+ DELT --> P(SPECT) P K*(892)0
(4982) K+ DELT --> P(SPECT) N K+
(4983) K+ DELT --> P(SPECT) N K*(892)+
(4984) K+ DEUT --> N(SPECT) P K+
(4985) K+ DEUT --> N(SPECT) P K*(892)+
(4986) K+ DEUT --> N(SPECT) DEL++ KO
(4987) K+ DEUT --> 2P KO
(4988) K+ DEUT --> 2P K*(892)0
(4989) K+ DEUT --> 2P ANYTHING
(4990) K+ DEUT --> 2PN P
(4991) K+ DEUT --> DEL++ DEL- K+
(4992) K+ DEUT --> DEUT KO PI+
(4993) K+ DEUT --> DEUT K*(892)0 PI+
(4994) K+ DEUT --> P(SPECT) P K+ PI-
(4995) K+ DEUT --> P(SPECT) P KO PIO
(4996) K+ DEUT --> P(SPECT) P KS PIO
(4997) K+ DEUT --> P(SPECT) N KO PI+
(4998) K+ DEUT --> P(SPECT) N KS PI+
(4999) K+ DEUT --> P(SPECT) 3PRONG
(5000) K+ DEUT --> N(SPECT) P KO PI+
(5001) K+ DELT --> 2P K+ PI-
(5002) K+ DEUT --> 2P KO PIO
(5003) K+ DEUT --> 2P N KO PI+
(5004) K+ DEUT --> 2NUCLEON KAON PION
(5005) K+ DEUT --> DEUT K+ PI+ PI-
(5006) K+ DEUT --> 4PRONG
(5007) K+ DEUT --> P(SPECT) P PI+ PI- ANYTHING
(5008) K+ DEUT --> P(SPECT) P KO PI+ PI-
(5009) K+ DEUT --> N(SPECT) P K+ PI+ PI-
(5010) K+ DEUT --> P N K+ PI+ PI-
(5011) K+ DEUT --> 2NUCLEON KAON 2PION
(5012) K+ DEUT --> P(SPECT) 5PRONG
(5013) K+ DEUT --> 2P K+ PI+ 2PI-
(5014) K+ DEUT --> 2P KO PI+ PIO PI-
(5015) K+ DEUT --> P N KO 2PI+ PI-
(5016) K+ DEUT --> 6PRONG
(5017) K+ DEUT --> 2P K+ PI+ PIO 2PI-
(5018) K+ DEUT --> 2P KO 2PI+ 2PI-
(5019) K+ DEUT --> P N K+ 2PI+ 2PI-
(5020) K+ DEUT --> K+ DEUT + P(SPECT) N K+ + N(SPECT) P K+
(5021) K+ HE --> (NOT ENCODED)
(5022) K+ BE --> (NOT ENCODED)
(5023) K+ C --> (NOT ENCODED)
(5024) K+ C --> ANYTHING
(5025) K+ C --> PI+ ANYTHING
(5026) K+ C --> K+ C
(5027) K+ C --> C K+ PI+ PI-
(5028) K+ NE --> (NOT ENCODED)
(5029) K+ AL --> AL K+ PI+ PI-
(5030) K+ TI --> TI K+ PI+ PI-
(5031) K+ CU --> (NOT ENCODED)
(5032) K+ CU --> ANYTHING
(5033) K+ CU --> J/PSI(3100)0 ANYTHING
(5034) K+ CU --> MU- MU+ ANYTHING
(5035) K+ AG --> AG K+ PI+ PI-
(5036) K+ PT --> K3 ANYTHING
(5037) K+ PB --> (NOT ENCODED)
(5038) K+ PB --> PB K+ PI+ PI-
(5039) K+ U --> (NOT ENCODED)
(5040) K+ NUCLEUS --> (NOT ENCODED)
(5041) K+ NUCLEUS --> NEPRONG1
(5042) K+ NUCLEUS --> INELASTIC
(5043) K+ NUCLEUS --> MU- ANYTHING
(5044) K+ NUCLEUS --> MU+ ANYTHING
(5045) K+ NUCLEUS --> J/PSI(3100)0 ANYTHING
(5046) K+ NUCLEUS --> K*(892)+ NUCLEUS
(5047) K+ NUCLEUS --> Q(1240-1400)+ NUCLEUS
(5048) K+ NUCLEUS --> ANYTHING HADRONS
(5049) K+ NUCLEUS --> ZGAMMA ANYTHING
(5050) K+ NUCLEUS --> MU- MU+ ANYTHING
(5051) K+ NUCLEUS --> K+ PI- ANYTHING
(5052) K+ NUCLEUS --> K- PI+ ANYTHING
(5053) K+ NUCLEUS --> NUCLEUS K+ PI+ PI-
(5054) K+ NUCLEUS --> (NOT ENCODED)
(5055) KO AKO --> AKO KO
(5056) KO P --> (NOT ENCODED)
(5057) KO P --> K+ N
(5058) KO P --> DELO
(5059) KO P --> K*(892)0 P
(5060) KO P --> P K+ PI-
(5061) KO PB --> (NOT ENCODED)
(5062) KO PE --> ANYTHING
(5063) KO CU --> (NOT ENCODED)
(5064) KO PB --> K*(892)0 PB
(5065) KS P --> ANYTHING
(5066) KS P --> KS P
(5067) KS DELT --> (NOT ENCODED)
(5068) KS CU --> (NOT ENCODED)
(5069) KL E- --> E- KS
(5070) KL P --> (NOT ENCODED)
(5071) KL P --> ANYTHING
(5072) KL P --> PI+ LAMBDA
(5073) KL P --> PI+ SIGMA0
(5074) KL P --> PI0 SIGMA+
(5075) KL P --> K S
(5076) KL P --> KS P
(5077) KL P --> KL P
(5078) KL P --> K*(892)0 P
(5079) KL P --> Q(1240-1400)0 P
(5080) KL P --> AC(1240-1400)0 P
(5081) KL P --> P K+ PI-
(5082) KL P --> P K+ PI-
(5083) KL P --> P K- PI+
(5084) KL K+ --> LAMBDA PI+ PI0
(5085) KL K+ --> P K0 PI+ PI-
(5086) KL P --> SIGMA0 PI+ PI0
(5087) KL P --> SIGMA- 2PI+
(5088) KL NUCLEON --> ANYTHING
(5089) KL NUCLEON --> KS NUCLEON
(5090) KL DELT --> (NOT ENCODED)
(5091) KL CU --> (NOT ENCODED)
(5092) KL OEUT --> KS DEUT
(5093) KL BOR --> (NOT ENCODED)
(5094) KL C --> (NOT ENCODED)
(5095) KL C --> K S
(5096) KL C --> K*(892)0 C
(5097) KL FE --> (NOT ENCODED)
(5098) KL AL --> (NOT ENCODED)
(5099) KL AL --> ANYTHING
(5100) KL AL --> KS AL
(5101) KL AL --> K*(892)0 AL
(5102) KL CU --> (NOT ENCODED)
(5103) KL CU --> (NCT ENCODED)
(5104) KL CU --> ANYTHING
(5105) KL CU --> J/PSI(3100)0 ANYTHING
(5106) KL CU --> KS CU
(5107) KL CU --> KS ANYTHING
(5108) KL CU --> K*(892)0 CU
(5109) KL CU --> MU- MU+ ANYTHING
(5110) KL CU --> PI+ PI- ANYTHING
(5111) KL CD --> K*(892)0 CD
(5112) KL SN --> ANYTHING
(5113) KL SN --> KS SN
(5114) KL PB --> (NOT ENCODED)
(5115) KL PB --> ANYTHING
(5116) KL PB --> KS PB
(5117) KL PB --> KS ANYTHING
(5118) KL PB --> K*(892)0 PB
(5119) KL PB --> PB K- PI+
(5120) KL U --> ANYTHING
(5121) KL U --> KS ANYTHING
(5122) KL U --> K*(892)0 U
(5123) KL NUCLEUS --> ANYTHING
(5124) KL NUCLEUS --> KS NUCLEUS
(5125) KL NUCLEUS --> KL NUCLEUS
(5126) KL NUCLEUS --> KL ANYTHING
(5127) AKO P --> (NOT ENCODED)
(5128) AKO P --> P- LAMBDA
(5129) AKO P --> PI+ LAM(1520)0)3
(5130) AKO P --> PI+ SIGMA0
(5131) AKO P --> K- OEL++
(5132) AKO P --> AK*(892)0 P
(5133) AKO P --> P K- PI+
(5134) AKO N --> (NOT ENCODED)
(5135) AKO NUCLEON --> (NOT ENCODED)
(5136) AKO OEUT --> ANYTHING
(5137) K+ E- --> E- K+
(5138) K- PION --> (NOT ENCODED)
(5139) K- PI+ --> PI+ K-
(5140) K- PI- --> (NOT ENCODED)
(5141) K- PI- --> ANYTHING
(5142) K- PI- --> PI- K-
(5143) K- PI- --> K- PI- ANYTHING
(5144) K- PI- --> K*(892)- PI- ANYTHING
(5145) K- PI- --> PI+ 2PI- ANYTHING
(5146) K- PI- --> AKO 2PI- ANYTHING
(5147) K- PI- --> P PIO PI- ANYTHING
(5148) K- PI- --> AKO PIO 2PI- ANYTHING
(5149) K- PI- --> ANYTHING - PI- K-
(5150) K- KO --> PI- ETA
(5151) K- KO --> K- KO
(5152) K- P --> (NOT ENCODED)
(5153) K- P --> LAM(1520)03)
(5154) K- P --> KNEI+03
(5155) K- P --> KNEI+11
(5156) K- P --> NCHADRON1
(5157) K- P --> STRANGE
(5158) K- P --> CHARGED
(5159) K- P --> NCHARGED1
(5160) K- P --> GT.4PRONG
(5161) K- P --> OPRONG
(5162) K- P --> NEPRONG1
(5163) K- P --> NEUTRAL1
(5164) K- P --> NEUTRAL5
(5165) K- P --> NEUTRAL(5)
(5166) K- P --> ANYTHING
(5167) K- P --> INELASTIC
(5168) K- P --> OD < ANYTHING >
(5169) K- P --> GAMMA HADRONS
(5170) K- P --> GAMMA OPRONG
(5171) K- P --> GAMMA NEPRONG1
(5172) K- P --> GAMMA ANYTHING
(5173) K- P --> NEGAMMA1 ANYTHING
(5174) K- P --> E- HADRONS
(5175) K- P --> E+ HADRONS
(5176) K- P --> MU- HADRONS
(5177) K- P --> PION(S) LAMBDA
(5178) K- P --> PION(S) LAMBDA
(5179) K- P --> PIONS LAMBDA
(5180) K- P --> NEPION1 LAMBDA
(5181) K- P --> PION SIGMA+
(5182) K- P --> PION ANYTHING
(5183) K- P --> NEPI+1 ANYTHING
(5184) K- P --> NEPI01 ANYTHING
(5185) K- P --> NEPI01 ANYTHING
(5186) K- P --> NEPI-1 ANYTHING
(5187) K- P --> PI+ SIGMA-
(5188) K- P --> PI+ SIGC1385P131)
(5189) K- P --> PI+ SIGC1670D131)
(5190) K- P --> PI+ SIGC1660B1)
(5191) K- P --> PI+ SIGC1660B1)
(5192) K- P --> PI+ SIGC1765D151)
(5193) K- P --> PI+ NEPRONG1
(5194) K- P --> PI+ ANYTHING
(5195) K- P --> PIO LAMBDA
(5196) K- P --> PIO LAM(1405S01)
(5197) K- P --> PIO LAM(1520DC31)
(5198) K- P --> PIO LAM(1815F05)
(5199) K- P --> PIO SIGMA0
(5200) K- P --> PIO SIGC1385P131)
(5201) K- P --> PIO SIGC1660D131)
(5202) K- P --> PIO SIGC1670D131)
(5203) K- P --> PIO SIGC1765D151)
(5204) K- P --> PIO NEPRONG1
(5205) K- P --> PIO ANYTHING
(5206) K- P --> PI- SIGMA+
(5207) K- P --> PI- SIGC1385P131+
(5208) K- P --> PI- SIGC1660P111+
(5209) K- P --> PI- SIGC1670D131+
(5210) K- P --> PI- SIGC1670B1+
(5211) K- P --> PI- SIGC1660B1+
(5212) K- P --> PI- SIGC1765D15)+
(5213) K- P --> PI- SIGC1770B1+
(5214) K- P --> PI- UNSPEC1+
(5215) K- P --> PI- *V(UNSPEC)+
(5216) K- P --> PI- NEPRONG1
(5217) K- P --> PI- ANYTHING
(5218) K- P --> ETA LAMBDA
(5219) K- P --> ETA LAM(1520DC3)
(5220) K- P --> ETA SIGMA0
(5221) K- P --> ETA NEPRONG1
(5222) K- P --> ETA ANYTHING
(5223) K- P --> RHO+ SIGMA-
(5224) K- P --> RHO+ SIGC1385P131-
(5225) K- P --> RHO0 LAMBDA
(5226) K- P --> RHO0 LAM(1405SC1)
(5227) K- P --> RHO0 LAM(1520D03)
(5228) K- P --> RHO0 SIGMA0
(5229) K- P --> RHO0 SIGC1385P130
(5230) K- P --> RHO0 SIGC1670B10
(5231) K- P --> RHO0 SIGC1660B10
(5232) K- P --> RHO- SIGMA+

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[5233] K- P --> PHO- SIG(1385P13)+
[5234] K- P --> RHO- SIG(1670B)+
[5235] K- P --> *RHO- SIG(1690)I+
[5236] K- P --> OMEGA LAMBDA
[5237] K- P --> OMEGA LAM(1520D03)
[5238] K- P --> OMEGA SIGMA0
[5239] K- P --> N(953) LAMBDA
[5240] K- P --> ETAPRIME LAMBDA
[5241] K- P --> DELTA(1701+ SIG(1385P13)-I
[5242] K- P --> DELTA(1701+ SIG(1385P13)+I
[5243] K- P --> PHI LAMBDA
[5244] K- P --> PHI LAM(1520D03)
[5245] K- P --> PHI LAM(UNSPEC)
[5246] K- P --> PHI SIGMA0
[5247] K- P --> PHI SIGI(385P1310
[5248] K- P --> PHI SIG(UNSPEC)10
[5249] K- P --> PHI *N(UNSPEC)I
[5250] K- P --> PHI ANYTHING
[5251] K- P --> A(11(00)I LAMBDA
[5252] K- P --> B(12(-)- SIGMA+
[5253] K- P --> F LAMBDA
[5254] K- P --> F SIGMA0
[5255] K- P --> D(12(85) LAMBDA
[5256] K- P --> SIG(1310) LAMBDA
[5257] K- P --> A2(1310)- SIGMA+
[5258] K- P --> FPRIME LAMBDA
[5259] K- P --> FPRIME SIGMA0
[5260] K- P --> FPRIPE ANYTHING
[5261] K- P --> F(11540)C LAMBDA
[5262] K- P --> OMEGA(1465 LAMBDA
[5263] K- P --> G(16800)I+ SIGMA-
[5264] K- P --> G(16800)0 LAMBDA
[5265] K- P --> G(16800) SIGMA0
[5266] K- P --> G(16800)+ SIGMA+
[5267] K- P --> KKBAR LAMBDA
[5268] K- P --> N(KO) ANYTHING
[5269] K- P --> N(KO) ANYTHING
[5270] K- P --> K+ P
[5271] K- P --> K+ XI-
[5272] K- P --> K+ XI(1530P13I-
[5273] K- P --> K+ XI(1820)-
[5274] K- P --> K+ XI((1940)-
[5275] K- P --> K+ XI(2030)-
[5276] K- P --> K+ XI(1690)-
[5277] K- P --> K+ XI(UNSPEC)
[5278] K- P --> K+ XI*(UNSPEC)
[5279] K- P --> K+ N(PRONG)
[5280] K- P --> K+ ANYTHING
[5281] K- P --> KO N
[5282] K- P --> KO XI0
[5283] K- P --> KO XI(1530P1310
[5284] K- P --> KO XI((1630)0
[5285] K- P --> KO XI(1820)0
[5286] K- P --> KO XI(2030)0
[5287] K- P --> KO N(PRONG)
[5288] K- P --> KO ANYTHING
[5289] K- P --> KS N(PRONG)
[5290] K- P --> KS N(PRONG)
[5291] K- P --> KS ANYTHING
[5292] K- P --> AKO N
[5293] K- P --> AKO N((520D1310
[5294] K- P --> AKO N((688P1510
[5295] K- P --> AKO DELO
[5296] K- P --> AKO 2PRONG
[5297] K- P --> AKO N(PRONG)
[5298] K- P --> AKO NEUTRALS
[(296)] K- P --> AKO NEUTRALS(1)
[5300] K- P --> AKO ANYTHING
[5301] K- P --> AKO CO < N PI+ >
[5302] K- P --> K- P
[5303] K- P --> K- N(147CB)+
[5304] K- P --> K- N(1688P15)+
[5305] K- P --> K- DEL+
[5306] K- P --> K- N(UNSPEC)+
[5307] K- P --> K- N(PRONG)
[5308] K- P --> K- ANYTHING
[5309] K- P --> K- DC
[5310] K- P --> K- DD < P PI+ PI- >
[5311] K- P --> K- DD < N PI+ >
[5312] K- P --> K- DD < P ETA >
[5313] K- P --> K- DD < P RHO- >
[5314] K- P --> K- DD < P ETAPRIME >
[5315] K- P --> K- DD < DEL++ PI- >
[5316] K- P --> K- DD < P OMEGA >
[5317] K- P --> K- DC < LAM(1520D03) K+ >
[5318] K- P --> K- DD < P PIO >
[5319] K- P --> K- DD < LAMBDA K+ >
[5320] K- P --> K- DD < N PI+ >
[5321] K- P --> K- DC < P F >
[5322] K- P --> N(K*(892)0) ANYTHING
[5323] K- P --> N(K*(892)+) ANYTHING
[5324] K- P --> K*(892)+ XI-
[5325] K- P --> K*(892)+ XI(1530P13I-
[5326] K- P --> K*(892)+ ANYTHING
[5327] K- P --> K*(892)0 XI0
[5328] K- P --> K*(892)0 XI(1530P13)0
[5329] K- P --> K*(892)0 ANYTHING
[5330] K- P --> AK*(892)0 N
[5331] K- P --> AK*(892)C DELO

[5332] K- P --> AK*(892)0 ANYTHING
[5333] K- P --> K*(892)- P
[5334] K- P --> K*(892)- DEL+
[5335] K- P --> K*(892)- ANYTHING
[5336] K- P --> CLOW(1240)- P
[5337] K- P --> C(1240-1400)- P
[5338] K- P --> C(1240-1400)- ANYTHING
[5339] K- P --> OMIGH(1340)- P
[5340] K- P --> *RRIME(1400)- P
[5341] K- P --> *RRIME(1420)00) ANYTHING
[5342] K- P --> K*(1420)0 ANYTHING
[5343] K- P --> AK*(142)0 N
[5344] K- P --> K*(1425)- P
[5345] K- P --> K*(1425)- ANYTHING
[5346] K- P --> AKN(17001 N
[5347] K- P --> L(1770)+ ANYTHING
[5348] K- P --> L(1770)+ P
[5349] K- P --> K*(1780)- P
[5350] K- P --> AN(1800)0 N
[5351] K- P --> F PRONG(3)
[5352] K- P --> P ANYTHING
[5353] K- P --> P CC < F FPRIME >
[5354] K- P --> P DD < K*(892)- ETA >
[5355] K- P --> P DD < K*(892)- RHO- >
[5356] K- P --> P DD < K*(892)- OMEGA >
[5357] K- P --> P DD < AK*(142010 PI- >
[5358] K- P --> P DD < DEL++ PI- >
[5359] K- P --> P CD < AP LA*(1520D03) >
[5360] K- P --> P DD < K- F >
[5361] K- P --> P DD < K*(892)- PHI >
[5362] K- P --> P DD < K- OMEGA >
[5363] K- P --> P CD < AP LAMBDA >
[5364] K- P --> P DD < AK*(892)0 PI- >
[5365] K- P --> P DD < K*(892)0 RHO- >
[5366] K- P --> N N(PRONG)
[5367] K- P --> N ANYTHING
[5368] K- P --> AP ANYTHING
[5369] K- P --> DEL++ ANYTHING
[5370] K- P --> DELO ANYTHING
[5371] K- P --> LAMBDA OPRONG
[5372] K- P --> LAMBDA N(PRONG)
[5373] K- P --> LAMBDA MM.GE.2
[5374] K- P --> LAMBDA NEUTRALS
[5375] K- P --> LAMBDA NEUTRALS(1)
[5376] K- P --> LAMBDA ANYTHING
[5377] K- P --> ALAMBDA N(PRONG)
[5378] K- P --> ALAMBDA ANYTHING
[5379] K- P --> N(LAMBDA) ANYTHING
[5380] K- P --> LAM(1405501) ANYTHING
[5381] K- P --> LAM(1520D03) ANYTHING
[5382] K- P --> SIGMA+ P
[5383] K- P --> SIGMA+ N(PRONG)
[5384] K- P --> SIGMA+ ANYTHING
[5385] K- P --> SIGMA- N(PRONG)
[5386] K- P --> SIGMA0 ANYTHING
[5387] K- P --> SIGMA- N(PRONG)
[5388] K- P --> SIGMA- ANYTHING
[5389] K- P --> SIGMA ANYTHING
[5390] K- P --> SIGI(385P13)+ ANYTHING
[5391] K- P --> SIG(1385P13)0 ANYTHING
[5392] K- P --> SIGI(385P13)- ANYTHING
[5393] K- P --> XI- PRONG
[5394] K- P --> XI- N(PRONG)
[5395] K- P --> XI- ANYTHING
[5396] K- P --> XI0 N(PRONG)
[5397] K- P --> XI0 ANYTHING
[5398] K- P --> XI(1530P13)0 ANYTHING
[5399] K- P --> XI(1530P13)- ANYTHING
[5400] K- P --> X1((763)- ANYTHING
[5401] K- P --> XI*(UNSPEC) ANYTHING
[5402] K- P --> XI((1530)13- ANYTHING
[5403] K- P --> OMEGA- ANYTHING
[5404] K- P --> 2PRONG
[5405] K- P --> N(PRONG) CHARGED
[5406] K- P --> N(NEUTRALS) N(PRONG)
[5407] K- P --> DD < N PI+ > DD <
AK*(892)0 PI- >
[5408] K- P --> DD < P PI+ PI- > DD < K-
PI+ PI- >
[5409] K- P --> 2GAMMA ANYTHING
[5410] K- P --> GAMMA ANYTHING
[5411] K- P --> MU- MU+ ANYTHING
[5412] K- P --> PI+ PI- NEUTRALS
[5413] K- P --> PI+ PI- ANYTHING
[5414] K- P --> 2PIO ANYTHING
[5415] K- P --> PIO CHARGED ANYTHING
[5416] K- P --> 2PI- ANYTHING
[5417] K- P --> K- P ANYTHING
[5418] K- P --> KO PI- ANYTHING
[5419] K- P --> 2KO ANYTHING
[5420] K- P --> KS PI- ANYTHING
[5421] K- P --> KS PI- ANYTHING
[5422] K- P --> KS 2PRONG
[5423] K- P --> AKO PI- ANYTHING
[5424] K- P --> AKO PI- ANYTHING
[5425] K- P --> K- PI- ANYTHING
[5426] K- P --> K- PI- ANYTHING
[5427] K- P --> P PI+ ANYTHING
[5428] K- P --> P PI- ANYTHING

[5429] K- P --> P KS PI-
[5430] K- P --> P AKO PI-
[5431] K- P --> P AKO RHO-
[5432] K- P --> P K- PION(S1
[5433] K- P --> P K- PIO
[5434] K- P --> P K- ETA
[5435] K- P --> P K- RHO0
[5436] K- P --> P K- OMEGA
[5437] K- P --> P K- PHI
[5438] K- P --> P K- NEUTRALS
[5439] K- P --> P K- ANYTHING
[5440] K- P --> P AK*(892)0 PI-
[5441] K- P --> P K*(892)- PI0
[5442] K- P --> P K*(892)0 OMEGA
[5443] K- P --> P K*(892)- PHI
[5444] K- P --> P AKAPPA(1250)0 PI-
[5445] K- P --> P KAPPA(1250)- PI0
[5446] K- P --> P AO(1240-1400)C PI-
[5447] K- P --> P AK*(142010 PI-
[5448] K- P --> P N ANYTHING
[5449] K- P --> P AP LAMBDA
[5450] K- P --> P AP LAM(1520D03)
[5451] K- P --> N AKO PI0
[5452] K- P --> N AKO RHO0
[5453] K- P --> N K- PI+
[5454] K- P --> N K*(892)- PI+
[5455] K- P --> DEL++ K- PI-
[5456] K- P --> LAMBDA 2GAMMA
[5457] K- P --> LAMBDA PI+ PI-
[5458] K- P --> LAMBDA PI- ANYTHING
[5459] K- P --> LAMBDA PIO GAMMA
[5460] K- P --> LAMBDA 2PIO
[5461] K- P --> LAMBDA PI- ANYTHING
[5462] K- P --> LAMBDA RHO0 GAMMA
[5463] K- P --> LAMBDA DELTA(1701+ PI-
[5464] K- P --> LAMBDA DELTA(1701- PI+
[5465] K- P --> LAMBDA K PI-
[5466] K- P --> LAMBDA K+ K-
[5467] K- P --> LAMBDA KO PI+
[5468] K- P --> LAMBDA KO KS
[5469] K- P --> LAMBDA KO KO
[5470] K- P --> LAMBDA KO ANYTHING
[5471] K- P --> LAMBDA 2KS
[5472] K- P --> LAMBDA KS KL
[5473] K- P --> LAMBDA KS OPRONG
[5474] K- P --> LAMBDA KS ANYTHING
[5475] K- P --> LAMBDA AKO ANYTHING
[5476] K- P --> LAMBDA K*(892)+ K-
[5477] K- P --> LAMBDA K*(892)C AKO
[5478] K- P --> LAMBDA 2PRONG
[5479] K- P --> LAM(1405501) P PI- P
[5480] K- P --> LAM(1405501) K+ K-
[5481] K- P --> LAM(1520D03) K+ K-
[5482] K- P --> SIGMA+ 2PION
[5483] K- P --> SIGMA+ PIO PI-
[5484] K- P --> SIGMA+ PI- MM.GE.2
[5485] K- P --> SIGMA+ PI- NEUTRALS
[5486] K- P --> SIGMA+ PI- ANYTHING
[5487] K- P --> SIGMA+ ETA PI-
[5488] K- P --> SIGMA+ OMEGA PI-
[5489] K- P --> SIGMA+ K0 K-
[5490] K- P --> SIGMA+ KS K-
[5491] K- P --> SIGMA0 PI+ PI-
[5492] K- P --> SIGMA0 2PION
[5493] K- P --> SIGMA0 K+ K-
[5494] K- P --> SIGMA0 K0 AKO
[5495] K- P --> SIGMA0 2KS
[5496] K- P --> SIGMA- PI+ PIO
[5497] K- P --> SIGMA- PI+ MM.GE.2
[5498] K- P --> SIGMA- PI+ NEUTRALS
[5499] K- P --> SIGMA- PI+ ANYTHING
[5500] K- P --> SIGMA- K+ AKO
[5501] K- P --> SIG(1385P13)+ ETA PI-
[5502] K- P --> SIG(1385P13)+ RHO- PI-
[5503] K- P --> SIG(1385P13)+ OMEGA PI-
[5504] K- P --> SIG(1385P13)+ K0 K-
[5505] K- P --> SIG(1385P13)+ 2PRONG
[5506] K- P --> SIG(1385P13)0 PI+ PI-
[5507] K- P --> SIG(1385P13)0 K+ K-
[5508] K- P --> SIG(1385P13)- PI+ PIO
[5509] K- P --> SIG(1385P13)- ETA PI+
[5510] K- P --> SIG(1385P13)- 2PRONG
[5511] K- P --> XIO K+ PI-
[5512] K- P --> XIO KAON PION
[5513] K- P --> XI- PI+ ANYTHING
[5514] K- P --> XI- PI- ANYTHING
[5515] K- P --> XI- K+ GAMMA
[5516] K- P --> XI- K+ PION(S1
[5517] K- P --> XI- K+ PIO
[5518] K- P --> XI- K0 PION(S1
[5519] K- P --> XI- K0 PI+
[5520] K- P --> XI- K5 PI+
[5521] K- P --> XI- KAON PION
[5522] K- P --> XI-((1870)- ANYTHING
[5523] K- P --> XI- XI((2130)- ANYTHING
[5524] K- P --> XI- 2PRONG
[5525] K- P --> XI((1530P1310 PI- ANYTHING
[5526] K- P --> XI((1530P1310 K+ PI-
[5527] K- P --> XI((1530P1310 KC PIO

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[5528] K- P --> X1(1530P13)- KO PI+
[5529] K- P --> X1*(LNSPEC10 K+ PI-
[5530] K- P --> 3HADRCN
[5531] K- P --> 3PRONG
[5532] K- P --> 2PRONG NEUTRALS
[5533] K- P --> PI+ PIO PI- CHARGED
[5534] K- P --> AKO PI- 2PRONG
[5535] K- P --> P K+ 2K-
[5536] K- P --> P KO AKO K-
[5537] K- P --> P KS ETA PI-
[5538] K- P --> P KS OMEGA PI-
[5539] K- P --> P AKC PIO PI-
[5540] K- P --> P AKO PI- MM.GE.2
[5541] K- P --> P K+ PI+ PI-
[5542] K- P --> 2P AP K-
[5543] K- P --> N K+ AKO K-
[5544] K- P --> N AKO PI+ PI-
[5545] K- P --> DEL++ AK+1892IO 2PI-
[5546] K- P --> LAMBCA 2PI+ PI-
[5547] K- P --> LAMBDA PI+ PIO PI-
[5548] K- P --> LAMBDA PI+ PI- GAMMA
[5549] K- P --> LAMBDA PI+ PI- N(PIO)
[5550] K- P --> LAMBDA PI+ PI- MM.GE.2
[5551] K- P --> LAMBDA PI+ PI- NEUTRALS
[5552] K- P --> LAMBCA PI+ PI- NEUTRAL(S)
[5553] K- P --> LAMBDA PI+ PI- ANYTHING
[5554] K- P --> LAMBCA P AP 2GAMMA
[5555] K- P --> LAMBCA 3PIO
[5556] K- P --> LAMBCA ETA PI+ PI-
[5557] K- P --> LAMBDA OMEGA PI+ PI-
[5558] K- P --> LAMBCA K+ AKO PI-
[5559] K- P --> LAMBCA K+ AKO ANYTHING
[5560] K- P --> LAMBCA N AP PIONES)
[5561] K- P --> LAMBCA K+ K- PIO(S)
[5562] K- P --> LAMBDA K+ K- PIOS
[5563] K- P --> LAMBCA K+ K- PIO
[5564] K- P --> LAMBDA K+ AKO PIO(S)
[5565] K- P --> LAMBCA KO AKC PIOS
[5566] K- P --> LAMBCA KO AKO PIO
[5567] K- P --> LAMBDA KO K- PI+
[5568] K- P --> LAMBCA KO K- ANYTHING
[5569] K- P --> LAMBCA KS PI+ PI-
[5570] K- P --> LAMBCA 2KS 2PRONG
[5571] K- P --> LAMBCA KS PI+ PI-
[5572] K- P --> LAMBCA KS 2PRONG
[5573] K- P --> SIGMA+ 3PION
[5574] K- P --> SIGMA+ PI+ 2PI-
[5575] K- P --> SIGMA+ K+ K- PION(S)
[5576] K- P --> SIGMA+ K+ K- PI-
[5577] K- P --> SIGMA+ KO AKO PI-
[5578] K- P --> SIGMA+ KO K- PIO
[5579] K- P --> SIGMA+ KO K- ANYTHING
[5580] K- P --> SIGMA+ KS KL PI-
[5581] K- P --> SIGMA+ KS K- ANYTHING
[5582] K- P --> SIGMA+ 3PRONG
[5583] K- P --> SIGMAO PI+ PIO PI-
[5584] K- P --> SIGMAO ETA PI+ PI-
[5585] K- P --> SIGMAO K+ KS PI-
[5586] K- P --> SIGMAO K+ AKO PI-
[5587] K- P --> SIGMAO K+ K- PION(S)
[5588] K- P --> SIGMAO KO K- PI+
[5589] K- P --> SIGMA- 2PI+ PI-
[5590] K- P --> SIGMA- K+ AKO PIONS
[5591] K- P --> SIGMA- K+ AKO PIO
[5592] K- P --> SIGMA- K+ AKC ANYTHING
[5593] K- P --> SIGMA- K+ K- PI+
[5594] K- P --> SIGMA- KO AKO PI+
[5595] K- P --> SIGMA- KS KL PI+
[5596] K- P --> XIO KO PI+ PI-
[5597] K- P --> XIO KS PI+ PI-
[5598] K- P --> XI- PI+ 2K- ANYTHING
[5599] K- P --> XI- K+ PI+ PI-
[5600] K- P --> XI- K+ 2PIO
[5601] K- P --> XI- 2K+ K-
[5602] K- P --> XI- K+ KO AKO
[5603] K- P --> XI- KO PI+ PIO
[5604] K- P --> XI- 3PRONG
[5605] K- P --> XI- 2PRONG NEUTRALS
[5606] K- P --> OMEGA- K+ KO ANYTHING
[5607] K- P --> 4HADRCN
[5608] K- P --> 4PRONG
[5609] K- P --> GAMMA 4PRONG
[5610] K- P --> KS 4PRONG
[5611] K- P --> P K+ AKO K- PI-
[5612] K- P --> P K+ 2K- PIO
[5613] K- P --> P KO 2K- PI+
[5614] K- P --> P AKO PI+ 2PI-
[5615] K- P --> P K- PI+ PIO PI-
[5616] K- P --> P K- PI+ PI- NEUTRALS
[5617] K- P --> P K- ETA PI+ PI-
[5618] K- P --> P K- OMEGA PI+ PI-
[5619] K- P --> P AP LAMBDA PI+ PI-
[5620] K- P --> N K- 2PI+ PI-
[5621] K- P --> LAMBDA 2PI+ 2PI-
[5622] K- P --> LAMBCA K+ KS PIO PI-
[5623] K- P --> LAMBDA K+ AKO PIO PI-
[5624] K- P --> LAMBCA K+ K- PI+ PI-
[5625] K- P --> LAMBCA KC AKO PI+ PI-
[5626] K- P --> LAMBCA KO K- PI+ PIO

[5627] K- P --> LAMBDA 2KS PI+ PI-
[5628] K- P --> LAMBDA 2KS 2PRONG
[5629] K- P --> LAMBDA KS K- PI+ PIO
[5630] K- P --> LAMBCA 4PRONG
[5631] K- P --> SIGMA+ 4PION
[5632] K- P --> SIGMA+ PI+ PIO 2PI-
[5633] K- P --> SIGMA+ PI+ 2PI- NEUTRALS
[5634] K- P --> SIGMA+ K+ AKO 2PI-
[5635] K- P --> SIGMA+ KO AKO PIO PI-
[5636] K- P --> SIGMA+ KO K- PI+ PI-
[5637] K- P --> SIGMAO 2PI+ 2PI-
[5638] K- P --> SIGMAO KO AKO PI+ PI-
[5639] K- P --> SIGMAO 2PI+ PI-
[5640] K- P --> SIGMA- 2PI+ PIO PI-
[5641] K- P --> SIGMA- 2PI+ PI- NEUTRALS
[5642] K- P --> SIGMA- K+ AKO PI+ PI-
[5643] K- P --> SIGMA- K+ AKO PI+ PIO
[5644] K- P --> SIGMA- KO K- 2PI+
[5645] K- P --> SIGC1385P13)+ PI+ PIO
2PI-
[5646] K- P --> SIG(1385P13)+ 4PRONG
[5647] K- P --> SIG(1385P13)- 4PRONG
[5648] K- P --> XI- K+ PI+ PI- PIO
[5649] K- P --> XI- KO 2PI+ PI-
[5650] K- P --> XI- 4PRONG
[5651] K- P --> 5HADRCN
[5652] K- P --> 5PRONG
[5653] K- P --> 4PRONG NEUTRALS
[5654] K- P --> 2PI- 4PRONG
[5655] K- P --> LAMBDA PI+ PI- 2PIO
[5656] K- P --> P K+ 2K- PI+ PI-
[5657] K- P --> P KS ETA PI+ 2PI-
[5658] K- P --> P KS OMEGA PI+ 2PI-
[5659] K- P --> P AKO PI+ PI2 2PI-
[5660] K- P --> P AKO PI+ 2PI- MM.GE.2
[5661] K- P --> P K- 2PI+ 2PI-
[5662] K- P --> P K+2 2PI+ 2PI-
[5663] K- P --> LAMBCA 2PI+ PIO 2PI-
[5664] K- P --> LAMBDA 2PI+ 2PI- GAMMA
[5665] K- P --> LAMBDA 2PI+ 2PI- PIOS
[5666] K- P --> LAMBDA 2PI+ 2PI- N(PIO)
[5667] K- P --> LAMBDA 2PI+ 2PI- MM.GE.2
[5668] K- P --> LAMBDA 2PI+ 2PI- NEUTRALS
[5669] K- P --> LAMBDA 2PI+ 2PI-
[5670] K- P --> LAMBDA CMEGA 2PI+ 2PI-
[5671] K- P --> LAMBDA K+ AKO PI+ 2PI-
[5672] K- P --> LAMBDA K+ K- PI+ PI-
PIO(S)
[5673] K- P --> LAMBCA KO AKO PI+ PI-
PIO(S)
[5674] K- P --> LAMBDA KO K- 2PI+ PI-
[5675] K- P --> LAMBDA KS 4PRONG
[5676] K- P --> SIGMA+ 5PION
[5677] K- P --> SIGMA+ PI+ 3PI-
[5678] K- P --> SIGMA+ K+ K- PI+ 2PI-
[5679] K- P --> SIGMA+ KJ K- PI+ PI0 PI-
[5680] K- P --> SIGMA+ KO 2K- 2PI+
[5681] K- P --> SIGMAO 2PI+ PIO 2PI-
[5682] K- P --> SIGMAO 2PI+ 2PI- PI3S
[5683] K- P --> SIGMA- 3PI+ 2PI-
[5684] K- P --> SIGMA- K+ AKO PI+ PIO PI-
[5685] K- P --> XI- K+ 2PI+ 2PI-
[5686] K- P --> XI- KO 2PI+ PIO PI-
[5687] K- P --> XI- 4PRONG NEUTRALS
[5688] K- P --> 6HADRCN
[5689] K- P --> 6PRONG
[5690] K- P --> DO P AKO PI+ 2PI-
[5691] K- P --> DO P K- PI+ PIO PI-
[5692] K- P --> DO N K- 2PI+ PI-
[5693] K- P --> GAMMA 6PRONG
[5694] K- P --> KS 6PRONG
[5695] K- P --> P K+ AKO K- PI+ 2PI-
[5696] K- P --> P KO 2K- 2PI+ PI-
[5697] K- P --> P AKO 2PI+ 2PI-
[5698] K- P --> P K- 2PI+ PI3 2PI-
[5699] K- P --> P K- ETA 2PI+ 2PI-
[5700] K- P --> P K- OMEGA 2PI+ 2PI-
[5701] K- P --> N K- 3PI+ 2PI-
[5702] K- P --> LAMBCA 3PI+ 3PI-
[5703] K- P --> LAMBDA K+ K- 2PI+ 2PI-
[5704] K- P --> LAMBDA K+ K- 2PI+ PIO PI-
[5705] K- P --> LAMBDA 2KS 4PRONG
[5706] K- P --> LAMBCA 6PRONG
[5707] K- P --> SIGMA+ 6PION
[5708] K- P --> SIGMA+ PI+ 3PI- NEUTRALS
[5709] K- P --> SIGMA+ K+ K- PI+ PIO 2PI-
[5710] K- P --> SIGMA+ KO K- 2PI+ 2PI-
[5711] K- P --> SIGC1385P13)+ 6PRONG
[5712] K- P --> SIG(1385P13)- 6PRONG
[5713] K- P --> XI- K+ K+ 2PI+ PIO 2PI-
[5714] K- P --> 7HADRCN
[5715] K- P --> 7PRONG
[5716] K- P --> 6PRONG NEUTRALS
[5717] K- P --> 2PI- 6PRONG
[5718] K- P --> AKO PI- 6PRONG
[5719] K- P --> P K5 ETA 2PI+ 3PI-
[5720] K- P --> P KS OMEGA 2PI+ 3PI-
[5721] K- P --> P AKO 2PI+ PIO 3PI-
[5722] K- P --> P K- 3PI+ 3PI-

[5723] K- P --> N AKO 3PI+ 3PI-
[5724] K- P --> LAMBDA 3PI+ PIO 3PI-
[5725] K- P --> LAMBDA ETA 3PI+ 3PI-
[5726] K- P --> LAMBDA OMEGA 3PI+ 3PI-
[5727] K- P --> LAMBDA K5 6PRONG
[5728] K- P --> SIGMA+ KO K- 2PI+ PIO
2PI-
[5729] K- P --> SIGMA+ 7PRONG
[5730] K- P --> X1- 6PRONG NEUTRALS
[5731] K- P --> 8HADRCN
[5732] K- P --> 8PRONG
[5733] K- P --> GAMMA 8PRONG
[5734] K- P --> KS 8PRONG
[5735] K- P --> P AKO 3PI+ 4PI-
[5736] K- P --> P K- 3PI+ PIO 3PI-
[5737] K- P --> P K- ETA 3PI+ 3PI-
[5738] K- P --> P K- OMEGA 3PI+ 3PI-
[5739] K- P --> N K- 4PI+ 3PI-
[5740] K- P --> LAMBDA 4PI+ 4PI-
[5741] K- P --> LAMBDA 6KS 8PRONG
[5742] K- P --> LAMBDA 8PRONG
[5743] K- P --> SIG(1385P13)+ 8PRONG
[5744] K- P --> SIG(1385P13)- 8PRONG
[5745] K- P --> 9HADRCN
[5746] K- P --> 9PRONG
[5747] K- P --> 8PRONG NEUTRALS
[5748] K- P --> 2PI- 8PRONG
[5749] K- P --> AKO PI- 8PRONG
[5750] K- P --> P KS ETA 3PI+ 4PI-
[5751] K- P --> P KS OMEGA 3PI+ 4PI-
[5752] K- P --> P AKO 3PI+ PIO 4PI-
[5753] K- P --> N AKO 4PI+ 4PI-
[5754] K- P --> LAMBDA 4PI+ PIO 4PI-
[5755] K- P --> LAMBDA K5 8PRONG
[5756] K- P --> X1- 8PRONG NEUTRALS
[5757] K- P --> 10HADRCN
[5758] K- P --> 10PRONG
[5759] K- P --> GAMMA 10PRONG
[5760] K- P --> 13HADRCN
[5761] K- P --> 13PRONG
[5762] K- P --> 10PRONG NEUTRALS
[5763] K- P --> 2PI- 10PRONG
[5764] K- P --> 12PRONG
[5765] K- P --> GAMMA 12PRONG
[5766] K- P --> 13PRONG
[5767] K- P --> 12PRONG NEUTRALS
[5768] K- P --> 14PRONG
[5769] K- P --> GAMMA 14PRONG
[5770] K- P --> 15PRONG
[5771] K- P --> 14PRONG NEUTRALS
[5772] K- P --> 16PRONG
[5773] K- P --> 17PRONG
[5774] K- P --> 18PRONG
[5775] K- P --> 20PRONG
[5776] K- P --> 20PRONG
[5777] K- P --> N(LAMBDA) + N(SIGMA0)
[5778] K- P --> LAMBDA + K- P
[5779] K- P --> PIO LAMBDA + PIO SIGMA0
[5780] K- P --> RHCO LAMBDA + RHCO SIGMA0
[5781] K- P --> RHOO SIGMA0 + RHCO
SIG(1385P1310
[5782] K- P --> OMEGA LAMBDA + OMEGA
SIGMAO
[5783] K- P --> S=(5931 LAMBDA + S=(5931
SIGMAO
[5784] K- P --> PHI LAMBDA + PHI SIGMA0
[5785] K- P --> PHI SIGMA0 + PHI
SIG(1385P1310
[5786] K- P --> FPRIME LAMBDA + FPRIME
SIGMAO
[5787] K- P --> KO QPRONG + AKO CPRONG
[5788] K- P --> KO ANYTHING + AKO
ANYTHING
[5789] K- P --> DEL++ ANYTHING - DEL++ K-
PI-
[5790] K- P --> LAMBDA N(PRONG) + SIGMA0
N(PRONG)
[5791] K- P --> LAMBDA ANYTHING + SIGMA0
ANYTHING
[5792] K- P --> ALAMBDA N(PRONG) +
ASIGMA0 N(PRONG)
[5793] K- P --> ALAMBDA NEUTRALS +
ASIGMA0 NEUTRALS
[5794] K- P --> ALAMBDA ANYTHING +
ASIGMA0 ANYTHING
[5795] K- P --> KO PIO ANYTHING + AKO PIO
ANYTHING
[5796] K- P --> 2KO ANYTHING + 2AKO
ANYTHING
[5797] K- P --> KO CHARGEC ANYTHING + AKO
CHARGED ANYTHING
[5798] K- P --> KO 2PRONG + AKO 2PRONG
[5799] K- P --> P PI+ ANYTHING - P K- PI+
PI-
[5800] K- P --> P AKO PI- + P K- PIO
[5801] K- P --> LAMBDA PI+ PI- + SIGMA0
PI+ PI-
[5802] K- P --> LAMBDA K+ K- + SIGMA0 K+
K-

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[5803] K- P --> LAMBDA KO ANYTHING + LAMBDA AKO ANYTHING
[5804] K- P --> SIGMA+ PI- ANYTHING + SIGMA- PI+ ANYTHING
[5805] K- P --> OMEGA- ANYTHING + OMEGA- KO ANYTHING
[5806] K- P --> LAMBDA K+ PI- MM.GE.2 + LAMBDA K- PI+ MM.GE.2
[5807] K- P --> LAMBDA K+ KS PI- + LAMBDA KS K- PI+
[5808] K- P --> LAMBDA K+ AKO PI- + LAMBDA KO K- PI+
[5809] K- P --> SIGMA+ K+ K- PIONS + SIGMA- KO K- PIONS
[5810] K- P --> KO KBPROG + AKO APRONG
[5811] K- P --> LAMBDA K+ KS PI- PI0(S) + LAMBDA KS K- PI+ PI0(S)
[5812] K- P --> LAMBDA K+ K- PI+ PI- + LAMBDA K+ K- 2PI+ 2PI-
[5813] K- P --> LAMBDA K+ AKO PI+ 2PI- + LAMBDA K+ AKO PI+ PI0 2PI-
[5814] K- P --> KO BPROG + AKO BPROG
[5815] K- P --> K- P + 2PRONG
[5817] K- P --> LAMBDA K+ AKO PI0(S) + LAMBDA KO K- PI0(S) + LAMBDA KO K- PI0 PI0 + LAMBDA KO K- 2PI+ PI- + LAMBDA KO K- 2PI+ PI0 PI-
[5820] K- P --> XI- K+ PI+ PI+ + XI- K+ PI+ PI0 PI0 + XI- K+ 2PI+ PI- + XI- K+ 2PI+ PI0 2PI-
[5821] K- N --> (NOT ENCODED)
[5822] K- N --> LAMBDA PI0 PI31-
[5823] K- N --> ANYTHING
[5824] K- N --> GAMMA HADRONS
[5825] K- N --> E- HADRONS
[5826] K- N --> E+ HADRONS
[5827] K- N --> MU- HADRONS
[5828] K- N --> MU+ HADRONS
[5829] K- N --> PI- HADRONS
[5830] K- N --> PI0 SIG(1385P13)-
[5831] K- N --> PI- LAMBDA
[5832] K- N --> PI- LAM(1405S01)
[5833] K- N --> PI- LAM(1520D03)
[5834] K- N --> PI- LAM(1815F05)
[5835] K- N --> PI- LAM(1830D05)
[5836] K- N --> PI- LAM(2100G07)
[5837] K- N --> PI- SIGMAO
[5838] K- N --> PI- SIG(1385P13)0
[5839] K- N --> PI- SIG(1670D13)0
[5840] K- N --> PI- SIG(1670D13)0
[5841] K- N --> PI- SIG(1750S11)0
[5842] K- N --> PI- SIG(1915F15)0
[5843] K- N --> ETA SIGMA-
[5844] K- N --> ETA SIG(1385P13)-
[5845] K- N --> RHO0 SIGMA-
[5846] K- N --> RHO0 SIG(1385P13)-
[5847] K- N --> RHO- LAMBDA
[5848] K- N --> OMEGA SIGMA-
[5849] K- N --> OMEGA- SIG(1385P13)-
[5850] K- N --> ETAPRIME LAMBDA
[5851] K- N --> ETAPRIME SIGMA-
[5852] K- N --> PHI SIGMA-
[5853] K- N --> PHI SIG(1385P13)-
[5854] K- N --> B1(1235)- LAMBDA
[5855] K- N --> A2(1310)- LAMBDA
[5856] K- N --> A2(1310)- SIGMA0
[5857] K- N --> K0 XI-
[5858] K- N --> K0 XI(1530P13)-
[5859] K- N --> K0 XI(1630)-
[5860] K- N --> K0 XI(1820)-
[5861] K- N --> K0 XI(1940)-
[5862] K- N --> K0 2-CHARMED-HYPERON
[5863] K- N --> K5 XI-
[5864] K- N --> KL XI-
[5865] K- N --> AK0 OEL-
[5866] K- N --> K- N
[5867] K- N --> K- N(1470D1)0
[5868] K- N --> K*(892)0 XI-
[5869] K- N --> K*(892)0 OEL-
[5870] K- N --> K*(892)- N
[5871] K- N --> K*(892)- OELO
[5872] K- N --> Q(1400)- N
[5873] K- N --> K*(1420)- N
[5874] K- N --> AK0(S30)-- P
[5875] K- N --> LAMBDA CHARGED
[5876] K- N --> SIGMA- MM.GE.2
[5877] K- N --> SIGMA- ANYTHING
[5878] K- N --> XI(1530P13)- ANYTHING
[5879] K- N --> XI(1630)- ANYTHING
[5880] K- N --> EXOTIC-HYPERON ANYTHING
[5881] K- N --> MU- MU+ ANYTHING
[5882] K- N --> P P
[5883] K- N --> P K*(892)- PI+
[5884] K- N --> N AK0 PI-
[5885] K- N --> LAMBDA PI0 PI-
[5886] K- N --> LAMBDA ETA PI-
[5887] K- N --> LAMBDA KS K-
[5888] K- N --> SIGMA+ PI-
[5889] K- N --> SIGMA0 KS K-
[5890] K- N --> SIGMA- PI+ PI+
[5891] K- N --> SIGMA- K+ K-
[5892] K- N --> SIGMA- 2KS
[5893] K- N --> SIGMA- KS KL
[5894] K- N --> SIGMA- 2PION
[5895] K- N --> XI0 KS PI-
[5896] K- N --> XI- K+ PI-
[5897] K- N --> XI- KS PI0
[5898] K- N --> AK0 KS 2PI-
[5899] K- N --> P AK0 2PI-
[5900] K- N --> N K- PI+ PI-
[5901] K- N --> LAMBDA PI+ 2PI-
[5902] K- N --> LAMBDA 2KS PI-
[5903] K- N --> LAMBDA KS KL PI-
[5904] K- N --> SIGMA+ PI0 2PI-
[5905] K- N --> SIGMA+ KS K- PI-
[5906] K- N --> SIGMA0 PI+ 2PI-
[5907] K- N --> SIGMA- KS PI0 PI-
[5908] K- N --> SIGMA- K+ KS PI-
[5909] K- N --> SIGMA- KS K- PI+
[5910] K- N --> XI- K+ PI0 PI-
[5911] K- N --> XI- KO PI+ PI-
[5912] K- N --> XI- KS PI+ PI-
[5913] K- N --> XI- KL PI+ PI-
[5914] K- N --> P AK0 PI0 2PI-
[5915] K- N --> N AK0 PI+ 2PI-
[5916] K- N --> LAMBDA PI+ PI0 2PI-
[5917] K- N --> PI0 SIGMA- + PI- SIGMA0
[5918] K- N --> N K- PI+ + XI- KS PI0
[5919] K- NUCLEON --> (NOT ENCODED)
[5920] K- N --> NUCLEON --> P XI- ANYTHING
[5921] K- N --> NUCLEON --> LAMBDA ANYTHING
[5922] K- N --> NUCLEON --> ZLAMBDA K+ ANYTHING
[5923] K- N --> NUCLEON --> ZLAMBDA KO ANYTHING
[5924] K- N --> P K*(892)- OEUT
[5925] K- N --> DEUT --> (NOT ENCODED)
[5926] K- N --> DEUT --> EXOTIC-HYPERON
[5927] K- N --> DEUT --> ANYTHING
[5928] K- N --> DEUT --> P P
[5929] K- N --> DEUT --> AKO NON-RES < 2N >
[5930] K- N --> DEUT --> K- DEUT
[5931] K- N --> DEUT --> K*(892)- DEUT
[5932] K- N --> DEUT --> QLOW(1240)- DEUT
[5933] K- N --> DEUT --> K*(1420)- DEUT
[5934] K- N --> DEUT --> K*(1830D05)- DEUT
[5935] K- N --> DEUT --> LAMBDA N
[5936] K- N --> DEUT --> LAMBDA ANYTHING
[5937] K- N --> DEUT --> SIGMAO ANYTHING
[5938] K- N --> DEUT --> SIGMA- P
[5939] K- N --> DEUT --> XI- ANYTHING
[5940] K- N --> DEUT --> OMEGA- ANYTHING
[5941] K- N --> DEUT --> LAM(1815F05)0 XI-
[5942] K- N --> DEUT --> DEUT ANYTHING
[5943] K- N --> DEUT --> P(SPECT) N K0
[5944] K- N --> DEUT --> P(SPECT) N K-
[5945] K- N --> DEUT --> P(SPECT) OEL- AK0
[5946] K- N --> DEUT --> P(SPECT) LAMBDA PI-
[5947] K- N --> DEUT --> P(SPECT) LAM(1520D03)
[5948] K- DEUT --> P(SPECT) SIGMA- NEUTRALS
[5949] K- DEUT --> P N K*(892)-
[5950] K- DEUT --> P P LAMBDA PI-
[5951] K- DEUT --> DEUT K0 PI-
[5952] K- DEUT --> P(SPECT) P K- PI-
[5953] K- DEUT --> P(SPECT) P AK0 PI-
[5954] K- DEUT --> P(SPECT) LAMBDA PI0
[5955] K- DEUT --> P(SPECT) LAMBDA K0 K- PI-
[5956] K- DEUT --> P(SPECT) SIGMA+ 2PI-
[5957] K- DEUT --> P(SPECT) SIGMA- PI+ PI-
[5958] K- DEUT --> 2P K- PI-
[5959] K- DEUT --> P N AK0 PI-
[5960] K- DEUT --> P LAMBDA PI0 PI-
[5961] K- DEUT --> P LAMBDA PI- NEUTRALS(S)
[5962] K- DEUT --> N LAMBDA PI+ PI-
[5963] K- DEUT --> DEUT K+ 2PI-
[5964] K- DEUT --> DEUT K0 PI0 PI-
[5965] K- DEUT --> DEUT K- PI+ PI-
[5966] K- DEUT --> P(SPECT) LAMBDA PI+ 2PI-
[5967] K- DEUT --> P(SPECT) SIGMA+ 2PI- NEUTRALS
[5968] K- DEUT --> P(SPECT) SIGMA0 PI+ 2PI-
[5969] K- DEUT --> P(SPECT) SIGMA- PI+ PI- NEUTRALS
[5970] K- DEUT --> P(SPECT) N AK0 PI+
[5971] K- DEUT --> K- DEUT + P N K-
[5972] K- DEUT --> P(SPECT) SIGMA+ 2PI- +P(SPECT) SIGMA- PI+ PI-
[5973] K- HE --> (NOT ENCODED)
[5974] K- HE --> HNUCLEUS
[5975] K- HE --> ANYTHING
[5976] K- HE --> K- HE
[5977] K- HE --> SIGMA- ANYTHING
[5978] K- HE --> HNUCLEUS ANYTHING
[5979] K- HE --> SIGMA- PI+ ANYTHING
[5980] K- HE --> T SIGMA+ PI-
[5981] K- HE --> T SIGMA- PI+
[5982] K- HE --> 3P LAMBDA
[5983] K- LI --> (NOT ENCODED)
[5984] K- LI --> HNUCLEUS
[5985] K- LI --> ANYTHING
[5986] K- BE --> (NOT ENCODED)
[5987] K- BE --> ANYTHING
[5988] K- BE --> MU- MU+ ANYTHING
[5989] K- BE --> HNUCLEUS P PI- GAMMA
[5990] K- BR --> (NOT ENCODED)
[5991] K- C --> (NOT ENCODED)
[5992] K- C --> ANYTHING
[5993] K- C --> PI- HNUCLEUS
[5994] K- C --> PI- ANYTHING
[5995] K- C --> K- C
[5996] K- C --> K- ANYTHING
[5997] K- C --> MU- MU+ ANYTHING
[5998] K- C --> HNUCLEUS PI+ ANYTHING
[5999] K- C --> HNUCLEUS PI- ANYTHING
[6000] K- C --> K- PI+ PI-
[6001] K- C --> HNUCLEUS P PI- GAMMA
[6002] K- O --> (NOT ENCODED)
[6003] K- O --> PI- HNUCLEUS
[6004] K- O --> PI- ANYTHING
[6005] K- FL --> FL K- PI+ PI-
[6006] K- NE --> (NOT ENCODED)
[6007] K- NE --> HNUCLEUS
[6008] K- NE --> NE K- PI+ PI-
[6009] K- AL --> (NOT ENCODED)
[6010] K- AL --> ANYTHING
[6011] K- AL --> PI- HNUCLEUS
[6012] K- SI --> (NOT ENCODED)
[6013] K- SI --> (NOT ENCODED)
[6014] K- SI --> ANYTHING
[6015] K- CA --> K- CA
[6016] K- TI --> HNUCLEUS PI+ ANYTHING
[6017] K- TI --> HNUCLEUS PI- ANYTHING
[6018] K- FE --> (NOT ENCODED)
[6019] K- FE --> ANYTHING
[6020] K- CU --> (NOT ENCODED)
[6021] K- CU --> (NOT ENCODED)
[6022] K- CU --> ANYTHING
[6023] K- CU --> JPSI(3100)0 ANYTHING
[6024] K- CU --> MU- MU+ ANYTHING
[6025] K- BR --> (NOT ENCODED)
[6026] K- BR --> BR K- PI+ PI-
[6027] K- BR --> ANYTHING
[6028] K- SN --> ANYTHING
[6029] K- TA --> HNUCLEUS PI+ ANYTHING
[6030] K- TA --> HNUCLEUS PI- ANYTHING
[6031] K- PT --> (NOT ENCODED)
[6032] K- PB --> (NOT ENCODED)
[6033] K- PB --> ANYTHING
[6034] K- PB --> GAMMA PB
[6035] K- PB --> NUCLEUS SIGMA- PI+
[6036] K- PB --> HNUCLEUS PI+ ANYTHING
[6037] K- PB --> HNUCLEUS PI- ANYTHING
[6038] K- FR --> HNUCLEUS
[6039] K- U --> (NOT ENCODED)
[6040] K- U --> ANYTHING
[6041] K- U --> NUCLEUS SIGMA- PI+
[6042] K- NUCLEUS --> (NOT ENCODED)
[6043] K- NUCLEUS --> HNUCLEUS
[6044] K- NUCLEUS --> MU- ANYTHING
[6045] K- NUCLEUS --> ANYTHING
[6046] K- NUCLEUS --> INELASTIC
[6047] K- NUCLEUS --> MU- ANYTHING
[6048] K- NUCLEUS --> MU+ ANYTHING
[6049] K- NUCLEUS --> PI+ HNUCLEUS
[6050] K- NUCLEUS --> PI- ANYTHING
[6051] K- NUCLEUS --> PI- HNUCLEUS
[6052] K- NUCLEUS --> PI- ANYTHING
[6053] K- NUCLEUS --> JPSI(3100)0 ANYTHING
[6054] K- NUCLEUS --> K- NUCLEUS
[6055] K- NUCLEUS --> K*(892)- NUCLEUS
[6056] K- NUCLEUS --> K*(1420)- NUCLEUS
[6057] K- NUCLEUS --> SIGMA- ANYTHING
[6058] K- NUCLEUS --> HOIBARYON ANYTHING
[6059] K- NUCLEUS --> ANYTHING HADRONS
[6060] K- NUCLEUS --> ZGAMMA ANYTHING
[6061] K- NUCLEUS --> MU- MU+ ANYTHING
[6062] K- NUCLEUS --> K+ PI- ANYTHING
[6063] K- NUCLEUS --> ZLAMBDA ANYTHING
[6064] K- NUCLEUS --> NUCLEUS K5 PI-
[6065] K- NUCLEUS --> NUCLEUS K- PI0
[6066] K- NUCLEUS --> NUCLEUS AP LAMBDA
[6067] K- NUCLEUS --> HNUCLEUS ZSTRANGE
[6068] K- NUCLEUS --> NUCLEUS K- PI+ PI-
[6069] K- S --> PI- ANYTHING
[6070] K- UNSPEC --> (NOT ENCODED)

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[6071] KACN PION --> (NOT ENCODED)
[6072] KACN DEUT --> DEUT K- PI+ PI-
[6073] KACN C --> (NOT ENCODED)
[6074] KACN AL --> (NOT ENCODED)
[6075] KACN CU --> (NOT ENCODED)
[6076] KACN SN --> (NOT ENCODED)
[6077] KACN PB --> (NOT ENCODED)
[6078] KPI((*3/2) --> (NOT ENCODED)
[6079] KPI((*3/2) --> (NOT ENCODED)
[6080] P P --> (NOT ENCODED)
[6081] P P --> P
[6082] P P --> LONGLIVED
[6083] P P --> HADRONS
[6084] P P --> STRANGE
[6085] P P --> VEES
[6086] P P --> NEUCHARGED
[6087] P P --> .GT.1OPRONG
[6088] P P --> .GT.8PRONG
[6089] P P --> .GT.2PRONG
[6090] P P --> PRONG
[6091] P P --> NEPRONG)
[6092] P P --> PRONGS
[6093] P P --> ANYTHING
[6094] P P --> INELASTIC
[6095] P P --> DD < 6PRONG >
[6096] P P --> DD < 4PRONG >
[6097] P P --> DD < 4PRONG >
[6098] P P --> DD < 2PRONG >
[6099] P P --> DD < ANYTHING >
[6100] P P --> GAMMA NEUCHARGED)
[6101] P P --> GAMMA NEPRONG)
[6102] P P --> GAMMA ANYTHING
[6103] P P --> NEGAMMA ANYTHING
[6104] P P --> GAMMAS ANYTHING
[6105] P P --> GAMMAS ANYTHING
[6106] P P --> E- ANYTHING
[6107] P P --> E+ ANYTHING
[6108] P P --> MU- ANYTHING
[6109] P P --> MU+ ANYTHING
[6110] P P --> MUON ANYTHING
[6111] P P --> PION(S) ANYTHING
[6112] P P --> PIONS ANYTHING
[6113] P P --> NEPION) ANYTHING
[6114] P P --> PION PRONG
[6115] P P --> PION ANYTHING
[6116] P P --> NEPION) ANYTHING
[6117] P P --> NEPI0) OPRONG
[6118] P P --> NEPI0) PRONG
[6119] P P --> NEPI0) NEPRONG)
[6120] P P --> NEPI0) ANYTHING
[6121] P P --> NEPI-) ANYTHING
[6122] P P --> PI+ DEUT
[6123] P P --> PI+ .GT. 6PRONG
[6124] P P --> PI+ PRONG
[6125] P P --> PI+ NEPRONG)
[6126] P P --> PI+ PRONGS
[6127] P P --> PI+ ANYTHING
[6128] P P --> PI0 HADRONS
[6129] P P --> PI0 NEVEE)
[6130] P P --> PI0 .GT.5PRONG
[6131] P P --> PI0 OPRONG
[6132] P P --> PI0 PRONG
[6133] P P --> PI0 NEPRONG)
[6134] P P --> PI0 ANYTHING
[6135] P P --> PI- .GT.17PRONG
[6136] P P --> PI- .GT.9PRONG
[6137] P P --> PI- PRONG
[6138] P P --> PI- NEPRONG)
[6139] P P --> PI- PRONGS
[6140] P P --> PI- ANYTHING
[6141] P P --> ETA ANYTHING
[6142] P P --> RHO+ DEUT
[6143] P P --> RHO0 .GT.15PRONG
[6144] P P --> RHO0 ANYTHING
[6145] P P --> OMEGA CHARGED
[6146] P P --> OMEGA PRONG
[6147] P P --> OMEGA ANYTHING
[6148] P P --> ETAPRIME ANYTHING
[6149] P P --> DELTA(1700)+ DEUT
[6150] P P --> PHI NEUCHARGED)
[6151] P P --> PHI ANYTHING
[6152] P P --> F ANYTHING
[6153] P P --> A2(1310)0 ANYTHING
[6154] P P --> J/PSI(3100)0 ANYTHING
[6155] P P --> CHI(3500) ANYTHING
[6156] P P --> PSI(3700)0 ANYTHING
[6157] P P --> UPSI(9500)0 ANYTHING
[6158] P P --> UPSI(9500)0 ANYTHING
[6159] P P --> N(K5) NEPRONG)
[6160] P P --> N(K5) ANYTHING
[6161] P P --> N(K-) ANYTHING
[6162] P P --> K+ PRONGS
[6163] P P --> K+ ANYTHING
[6164] P P --> K+ DD < P LAMBDA >
[6165] P P --> K0 ANYTHING
[6166] P P --> K5 NEVEE)
[6167] P P --> K5 .GT.1OPRONG
[6168] P P --> K5 OPRONG
[6169] P P --> K5 NEPRONG)

[6170] P P --> K5 ANYTHING
[6171] P P --> KL ANYTHING
[6172] P P --> K- .GT.1TPRONG
[6173] P P --> K- NEPRONG)
[6174] P P --> K- PRONGS
[6175] P P --> K- ANYTHING
[6176] P P --> K*(892)+ ANYTHING
[6177] P P --> K*(892)- ANYTHING
[6178] P P --> DD ANYTHING
[6179] P P --> 2P
[6180] P P --> P DEUT
[6181] P P --> P NEMAORON)
[6182] P P --> P NEUCHARGED)
[6183] P P --> P .GT.1OPRONG
[6184] P P --> P .GT.8PRONG
[6185] P P --> P .GT.6PRONG
[6186] P P --> P .GT.5PRONG
[6187] P P --> P .GT.3PRONG
[6188] P P --> P .GT.2PRONG
[6189] P P --> P .GT.1PRONG
[6190] P P --> P PRONG
[6191] P P --> P NEPRONG)
[6192] P P --> P PRONGS
[6193] P P --> P ANYTHING
[6194] P P --> P DD < NUCLEON +PION >
[6195] P P --> P DD < N 2PI+ PI- >
[6196] P P --> P DD < N PI+ >
[6197] P P --> P DD < NEMAORON) >
[6198] P P --> P DD < LAMBDA K+ >
[6199] P P --> P DD < DELK+ PI+ >
[6200] P P --> P DD < P PIO >
[6201] P P --> P DD < ANYTHING >
[6202] P P --> P DD < NUCLEON PION >
[6203] P P --> P DD < NUCLEON 2PIPI >
[6204] P P --> P DD < P PI+ PI- >
[6205] P P --> P DD < NEMAORON) >
[6206] P P --> P DD < P 2PI+ 2PI- >
[6207] P P --> P DD < NUCLEON 3PION >
[6208] P P --> N NEPRONG)
[6209] P P --> N ANYTHING
[6210] P P --> N DD < P PI+ >
[6211] P P --> AP .GT.17PRONG
[6212] P P --> AP NEPRONG)
[6213] P P --> AP PRONGS
[6214] P P --> AP ANYTHING
[6215] P P --> N(1) ANYTHING
[6216] P P --> N(P) ANYTHING
[6217] P P --> N(N) ANYTHING
[6218] P P --> N(1470)11+ P
[6219] P P --> N(1470)11+ P
[6220] P P --> N(1470)13) DEL++
[6221] P P --> N(1520)13)+ P
[6222] P P --> N(1520)13)+ DEL+
[6223] P P --> N(1520)13)0 DEL++
[6224] P P --> N(1520)1+ P
[6225] P P --> N(1520)1+ DEL+
[6226] P P --> N(1520)1+ DEL++
[6227] P P --> N(1688F15)+ P
[6228] P P --> 2N(1688F15)+
[6229] P P --> N(1688F15)+ DEL+
[6230] P P --> N(1688F15)3 DEL++
[6231] P P --> N(1700)3+ P
[6232] P P --> N(1700)3+ DEL++
[6233] P P --> N(1920)3+ P
[6234] P P --> N(2190G17)+ P
[6235] P P --> N(2150)3+ P
[6236] P P --> N(2(1+1/2)) P
[6237] P P --> N(UNSPEC)+ P
[6238] P P --> DEL++ N
[6239] P P --> DEL++ PRONG
[6240] P P --> DEL++ N(PRONG)
[6241] P P --> DEL++ ANYTHING
[6242] P P --> DELO P
[6243] P P --> DELO DEL++
[6244] P P --> DELO PRONG
[6245] P P --> DELO ANYTHING
[6246] P P --> DEL(1910)3)++ N
[6247] P P --> DEL(1910F35)++ N
[6248] P P --> DEL(1950F37)++ N
[6249] P P --> DEL(1950F37)+ N
[6250] P P --> DEL(1950F37)3 DEL++
[6251] P P --> DEL(1950)++ N
[6252] P P --> DEL(2420)++ N
[6253] P P --> N(UNSPEC)++ P
[6254] P P --> DEL(UNSPEC)++ N
[6255] P P --> N+(UNSPEC)+ P
[6256] P P --> 2N+(UNSPEC)+
[6257] P P --> N+(UNSPEC) P
[6258] P P --> LAMBDA .GT.1OPRONG
[6259] P P --> LAMBDA NEPRONG)
[6260] P P --> LAMBDA ANYTHING
[6261] P P --> LAMBDA DD < P K+ >
[6262] P P --> ALAMBDA ANYTHING
[6263] P P --> N(ALAMBDA) ANYTHING
[6264] P P --> SIGMA+ ANYTHING
[6265] P P --> SIGMA0 ANYTHING
[6266] P P --> SIGMA- ANYTHING
[6267] P P --> SIG(1385P13)+ ANYTHING
[6268] P P --> SIG(1385P13)- ANYTHING

[6269] P P --> XI- ANYTHING
[6270] P P --> DEUT ANYTHING
[6271] P P --> ADEUT ANYTHING
[6272] P P --> CUARK ANYTHING
[6273] P P --> W+ ANYTHING
[6274] P P --> W- ANYTHING
[6275] P P --> W- ANYTHING
[6276] P P --> SO ANYTHING
[6277] P P --> CHARM ANYTHING
[6278] P P --> NONDPOLE ANYTHING
[6279] P P --> LENGLIVED ANYTHING
[6280] P P --> UNSPEC ANYTHING
[6281] P P --> 2PRONG
[6282] P P --> NEUTRALS CHARGED
[6283] P P --> NEUTRALS .GT.1OPRONG
[6284] P P --> NEUTRAL(S) NECHARGED)
[6285] P P --> ANYTHING HADRON*
[6286] P P --> ANYTHING HADRON
[6287] P P --> ANYTHING HADRON(S)
[6288] P P --> ANYTHING STRANGE
[6289] P P --> ANYTHING STRANGES
[6290] P P --> ANYTHING VEE
[6291] P P --> ANYTHING CHARGED+
[6292] P P --> ANYTHING CHARGED-
[6293] P P --> ANYTHING CHARGED
[6294] P P --> ANYTHING NECHARGED)
[6295] P P --> ANYTHING NEPRONG)
[6296] P P --> ANYTHING NEUTRAL
[6297] P P --> DD < ANYTHING > CHARGED
[6298] P P --> DD < P PI+ PI- > ANYTHING
[6299] P P --> DD < P PI+ PI- > DD < P PI+ PI- >
[6300] P P --> DD < 3PRONG > DD < P PI+ PI- >
[6301] P P --> DD < DEL++ PI- > DD < DEL++ PI- >
[6302] P P --> 2GAMMA ANYTHING
[6303] P P --> GAMMA CHARGED ANYTHING
[6304] P P --> GAMMA 2PRONG
[6305] P P --> 2E- ANYTHING
[6306] P P --> E- E+ ANYTHING
[6307] P P --> 2E+ ANYTHING
[6308] P P --> MU- E+ ANYTHING
[6309] P P --> MU- MU+ ANYTHING
[6310] P P --> MU+ E- ANYTHING
[6311] P P --> 2PION ANYTHING
[6312] P P --> PI0(S) E- ANYTHING
[6313] P P --> PI0(S) E+ ANYTHING
[6314] P P --> PI+S PI-S ANYTHING
[6315] P P --> N(PI+) N(PI-) ANYTHING
[6316] P P --> N(PI0) 2PRONG
[6317] P P --> 2PI+ ANYTHING
[6318] P P --> PI+ PI- .GT.5PRONG
[6319] P P --> PI+ PI- OPRONG
[6320] P P --> PI+ PI- ANYTHING
[6321] P P --> PI+ CHARGED ANYTHING
[6322] P P --> PI+ 2PRONG
[6323] P P --> PI0 GAMMA ANYTHING
[6324] P P --> 2PI0 ANYTHING
[6325] P P --> PI0 PI- ANYTHING
[6326] P P --> PI0 HADRON(S) ANYTHING
[6327] P P --> PI0 CHARGED ANYTHING
[6328] P P --> PI0 2PRONG
[6329] P P --> PI- N(PI+) ANYTHING
[6330] P P --> PI- N(PI0) ANYTHING
[6331] P P --> PI- N(PI-) ANYTHING
[6332] P P --> 2PI- ANYTHING
[6333] P P --> PI- CHARGED ANYTHING
[6334] P P --> PI- N(CHARGED) NEUTRAL(S)
[6335] P P --> PI- 2PRONG
[6336] P P --> N(K5) 2PRONG
[6337] P P --> K+ E- ANYTHING
[6338] P P --> K+ E+ ANYTHING
[6339] P P --> K+ PI+ ANYTHING
[6340] P P --> K+ PI- ANYTHING
[6341] P P --> 2K+ ANYTHING
[6342] P P --> K+ K- ANYTHING
[6343] P P --> K+ CHARGED ANYTHING
[6344] P P --> K0 PI+ ANYTHING
[6345] P P --> K0 PI- ANYTHING
[6346] P P --> K0 AKO N(PRONG)
[6347] P P --> K0 AKO ANYTHING
[6348] P P --> K5 E- ANYTHING
[6349] P P --> K5 E+ ANYTHING
[6350] P P --> K5 PI- ANYTHING
[6351] P P --> 2K5 ANYTHING
[6352] P P --> K5 2CHARGED
[6353] P P --> K5 2PRONG
[6354] P P --> K- PI+ ANYTHING
[6355] P P --> K- PI- ANYTHING
[6356] P P --> 2K- ANYTHING
[6357] P P --> K- CHARGED ANYTHING
[6358] P P --> KAON KAON ANYTHING
[6359] P P --> DD AKO ANYTHING
[6360] P P --> P MU- ANYTHING
[6361] P P --> P MU+ ANYTHING
[6362] P P --> P MUON ANYTHING
[6363] P P --> P PION ANYTHING
[6364] P P --> P PI+ .GT.9PRONG

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[6365] P P --> P PI+ MM,CE,2
[6366] P P --> P PI+ ANYTHING
[6367] P P --> P PI- ANYTHING
[6368] P P --> P K+ ANYTHING
[6369] P P --> P K- ANYTHING
[6370] P P --> 2P GAMMA
[6371] P P --> 2P PIONS
[6372] P P --> 2P PIOS
[6373] P P --> 2P PIO
[6374] P P --> 2P ETA
[6375] P P --> 2P RHCO
[6376] P P --> 2P CPEGA
[6377] P P --> 2P DELTA(1993)
[6378] P P --> 2P PHI
[6379] P P --> 2P F
[6380] P P --> 2P N
[6381] P P --> 2P N(PRENC)
[6382] P P --> 2P ANYTHING
[6383] P P --> P PI+
[6384] P P --> P N RHO+
[6385] P P --> P N ANYTHING
[6386] P P --> P AP ANYTHING
[6387] P P --> P N(1710)P1+ PIO
[6388] P P --> P N(1470)P1+ PI+
[6389] P P --> P N(1520)P1+ PIO
[6390] P P --> P N(1520)P1+ PI-
[6391] P P --> P N(1688)F1510 PI+
[6392] P P --> P N(1700)P1+ PIO
[6393] P P --> P N(1700)P1+ PI+
[6394] P P --> P DEL++ PI-
[6395] P P --> P DEL++ RHO-
[6396] P P --> P DEL++ A2(1310)-
[6397] P P --> P DEL+ RHOO
[6398] P P --> P DELO PI+
[6399] P P --> P DELO RHO+
[6400] P P --> P DELO A2(1313)+
[6401] P P --> P DELI(1670)D33)+ PIC
[6402] P P --> P DELI(1950)D3+ PIC
[6403] P P --> P LAMBDA K+
[6404] P P --> P LAMBDA K+(1692)+
[6405] P P --> P SIGMA+ KO
[6406] P P --> P SIGMA+ K+
[6407] P P --> P SIGP(1385P13)+ KO
[6408] P P --> P SIGP(1385P13)O K+
[6409] P P --> P CHARGEE ANYTHING
[6410] P P --> P NICHARGED! ANYTHING
[6411] P P --> N PI+ ANYTHING
[6412] P P --> N PI- ANYTHING
[6413] P P --> N N(1520)D1+ PI+
[6414] P P --> N N(1700)D1+ PI+
[6415] P P --> N DEL++ RHOO
[6416] P P --> N DELO PI+
[6417] P P --> N DELO PI-
[6418] P P --> N SIGMA+ K+
[6419] P P --> N SIGP(1385P13)+ K+
[6420] P P --> N CHARGEE ANYTHING+(1+PRENC)
[6421] P P --> N CHARGED ANYTHING
[6422] P P --> AP PION ANYTHING
[6423] P P --> AP PI+ ANYTHING
[6424] P P --> AP PI- ANYTHING
[6425] P P --> AP K+ ANYTHING
[6426] P P --> AP K- ANYTHING
[6427] P P --> 2AP ANYTHING
[6428] P P --> AP CHARGEE ANYTHING
[6429] P P --> DEL++ 2PI-
[6430] P P --> DEL++ DEL- N(PRENC)
[6431] P P --> DEL++ PI- ANYTHING
[6432] P P --> DEL++ DEL+ PI-
[6433] P P --> DEL++ DELC PIO
[6434] P P --> DEL++ DELO PI-
[6435] P P --> DEL++ LAMBDA KO
[6436] P P --> DEL+ LAMBDA K+
[6437] P P --> DEL+ PI- ANYTHING
[6438] P P --> LAMBDA E- ANYTHING
[6439] P P --> LAMBDA E+ ANYTHING
[6440] P P --> LAMBDA PI+ ANYTHING
[6441] P P --> LAMBDA PIO ANYTHING
[6442] P P --> LAMBDA PI- ANYTHING
[6443] P P --> LAMBDA K+ PRONG
[6444] P P --> LAMBDA K+ N(PRONG)
[6445] P P --> LAMBDA K+ ANYTHING
[6446] P P --> LAMBDA KO N(PRENG)
[6447] P P --> LAMBDA KO ANYTHING
[6448] P P --> LAMBDA K5 ANYTHING
[6449] P P --> LAMBDA 2CHARGED
[6450] P P --> LAMBDA 2PI-
[6451] P P --> ALAMBDA 2CHARGED
[6452] P P --> SIGMA+ KO ANYTHING
[6453] P P --> SIGMA- KO ANYTHING
[6454] P P --> HYPERON KAON ANYTHING
[6455] P P --> DEUT PI+ PIO
[6456] P P --> 2CHARN ANYTHING
[6457] P P --> 2MONDPOLE ANYTHING
[6458] P P --> 2HADRON+ N(PRENG)
[6459] P P --> HADRON+ HADRON- N(PRONG)
[6460] P P --> 2HADRON ANYTHING
[6461] P P --> 2STRANGE ANYTHING
[6462] P P --> 2CHARGED+ ANYTHING
[6463] P P --> CHARGED+ CHARGED- ANYTHING

[6464] P P --> 2CHARGED- ANYTHING
[6465] P P --> 2CHARGED ANYTHING
[6466] P P --> 3PRONG
[6467] P P --> 2PRONG NEUTRALS
[6468] P P --> 2PRONG ANYTHING
[6469] P P --> 3GAMMA ANYTHING
[6470] P P --> N(PIO) 3PRONG
[6471] P P --> PI+ PI- KO- ANYTHING
[6472] P P --> PI+ PI- NO+ ANYTHING
[6473] P P --> PI+ PI- 2PRONG
[6474] P P --> PI+ 3PRONG
[6475] P P --> PIO 2CHARGED ANYTHING
[6476] P P --> PI+ PI- E+ ANYTHING
[6477] P P --> 2PI- NEPI+) ANYTHING
[6478] P P --> 2PI- N(PIO) ANYTHING
[6479] P P --> 3PI- ANYTHING
[6480] P P --> PI- 3PRONG
[6481] P P --> K+ PI- MU- ANYTHING
[6482] P P --> K+ PI- MU+ ANYTHING
[6483] P P --> K+ K- MU- ANYTHING
[6484] P P --> K+ K- MU+ ANYTHING
[6485] P P --> KC AKO 2PRONG
[6486] P P --> K- 2CHARGED ANYTHING
[6487] P P --> K- PI+ MU- ANYTHING
[6488] P P --> K- PI+ MU+ ANYTHING
[6489] P P --> K- 2P ANYTHING
[6490] P P --> P1SPECT) 3PRONG
[6491] P P --> P 2MU- ANYTHING
[6492] P P --> P MU+ MU- ANYTHING
[6493] P P --> P 2MU+ ANYTHING
[6494] P P --> P PI+ PI- ANYTHING
[6495] P P --> P K+ 2PRONG
[6496] P P --> P 2P NEPI+) ANYTHING
[6497] P P --> 2P PI+ PI-
[6498] P P --> 2P PI+ ANYTHING
[6499] P P --> 2P PI- ANYTHING
[6500] P P --> 2P RHO+ PI-
[6501] P P --> 2P RHCO PIO
[6502] P P --> 2P RHCO PI-
[6503] P P --> 2P A1(1103)+ PI-
[6504] P P --> 2P A1(1100)- PI+
[6505] P P --> 2P A2(1310)+ PI-
[6506] P P --> 2P A2(1313)- PI+
[6507] P P --> 2P K+ K-
[6508] P P --> 2P KO AKO
[6509] P P --> 2P QUARK AQUARK
[6510] P P --> 2P HADRON+ HADRON-
[6511] P P --> P N PI+ PI0(S)
[6512] P P --> P N PI+ ANYTHING
[6513] P P --> P N RHO+ PIO
[6514] P P --> P N RHO0 PI+
[6515] P P --> P N K+ AKO
[6516] P P --> P AP ANYTHING
[6517] P P --> P AP MU+ ANYTHING
[6518] P P --> P N(1470)P1+ PI+ PI-
[6519] P P --> P N(1520)P1+ PI+ PIO
[6520] P P --> P N(1520)P1+ PI+ PI-
[6521] P P --> P N(1520)P1O PI+ PIO
[6522] P P --> P N(1520)P1O PI+ PI-
[6523] P P --> P DEL++ PIO PI-
[6524] P P --> P DEL++ PI- ANYTHING
[6525] P P --> P DEL+ PI+ PI-
[6526] P P --> P DEL+ PI- PI0
[6527] P P --> P DEL- 2PI+
[6528] P P --> P DEL(16705311)0 PI+ PIO
[6529] P P --> P DEL(16705311)+ 2PI-
[6530] P P --> P LAMBDA K+ PIO
[6531] P P --> P LAMBDA KO PI+
[6532] P P --> P SIGMA+ K+ PI-
[6533] P P --> P SIGMA+ KO PI0
[6534] P P --> P SIGMAO KO PI+
[6535] P P --> P SIGMA- K+ PI+
[6536] P P --> P SIGMA- 2K+
[6537] P P --> P 3PRONG
[6538] P P --> 2N 2PI+
[6539] P P --> N N(1470)D1O 2PI+
[6540] P P --> N DEL++ PI+ PI-
[6541] P P --> N DELO 2PI+
[6542] P P --> N LAMBDA K+ PI+
[6543] P P --> N LAMBDA KO PI+
[6544] P P --> 2NUCLEON PIONS NEUTRALS
[6545] P P --> NUCLEON SIGMA+ KAON PION
[6546] P P --> LAMBDA KO 2PRONG
[6547] P P --> DEUT 2PI+ PI-
[6548] P P --> 2CHARGED+ 2PRONG
[6549] P P --> CHARGED+ CHARGED- 2PRONG
[6550] P P --> 2CHARGED- ANYTHING
[6551] P P --> 2CHARGED- 2PRONG
[6552] P P --> 4CHARGED
[6553] P P --> 4PRONG
[6554] P P --> 4GAMMA ANYTHING
[6555] P P --> GAMMA 4PRONG
[6556] P P --> N(PIO) 4PRONG
[6557] P P --> PI+ 4PRONG
[6558] P P --> PIO 4PRONG
[6559] P P --> 3PI- N(PI+) ANYTHING
[6560] P P --> 3PI- N(PIO) ANYTHING
[6561] P P --> 4PI- ANYTHING
[6562] P P --> PI- 4PRONG

[6563] P P --> N(KS) 4PRONG
[6564] P P --> KO AKO PI+ PI- ANYTHING
[6565] P P --> KS 4CHARGED
[6566] P P --> KS 4PRONG
[6567] P P --> 2P PI+ PIO PI-
[6568] P P --> 2P PI+ PI- 2PIOS
[6569] P P --> 2P PI+ PI- MM,CE,2
[6570] P P --> 2P PI+ PI- NEUTRAL(S)
[6571] P P --> 2P RHOO PI+ PI-
[6572] P P --> 2P OMEGA PI+ PI-
[6573] P P --> 2P PHI PI+ PI-
[6574] P P --> 2P K+ AKO PI-
[6575] P P --> 2P K+ K- PIO
[6576] P P --> 2P KO K- PI+
[6577] P P --> 2P 2PRONG ANYTHING
[6578] P P --> 2P N 2PI+ PI-
[6579] P P --> P N PI+ 2PIO
[6580] P P --> P N KO AKO PI+
[6581] P P --> P DEL++ PI- 2PI-
[6582] P P --> P LAMBDA K+ PI+ PI-
[6583] P P --> P LAMBDA KO PI+ PIO
[6584] P P --> P SIGMA+ K+ PIO PI-
[6585] P P --> P SIGMA+ K+ PI- PI0
[6586] P P --> P SIGMAO K+ PI+ PI-
[6587] P P --> P SIGMA- K+ PI+ PIO
[6588] P P --> P SIGMA- K+ 2PI+
[6589] P P --> 2N 2PI+ MM,CE,2
[6590] P P --> N LAMBDA KO 2PI+
[6591] P P --> N SIGMA+ K+ PI+ PI-
[6592] P P --> N SIGMA+ KO 2PI+
[6593] P P --> DEL++ 4PRONG
[6594] P P --> LAMBDA K+ 3PRONG
[6595] P P --> LAMBDA CHARGED
[6596] P P --> LAMBDA 4PRONG
[6597] P P --> ALAMBDA 4CHARGEE
[6598] P P --> DEUT 2PI+ PI-
[6599] P P --> 4CHARGED- ANYTHING
[6600] P P --> 5PRONG
[6601] P P --> 3PRONG NEUTRALS
[6602] P P --> 5GAMMA ANYTHING
[6603] P P --> N(PIO) 5PRONG
[6604] P P --> PI+ PI- 4PRONG
[6605] P P --> 4PI+ 3PRONG
[6606] P P --> PIO 4CHARGED ANYTHING
[6607] P P --> 4PI+ N(PI+) ANYTHING
[6608] P P --> 4PI+ N(PIO) ANYTHING
[6609] P P --> 5PI- ANYTHING
[6610] P P --> 2PI- 4PRONG
[6611] P P --> PI- 5PRONG
[6612] P P --> KO AKO 4PRONG
[6613] P P --> KS 4CHARGED ANYTHING
[6614] P P --> P PI+ PI- 3PRONG
[6615] P P --> P AP ANYTHING
[6616] P P --> P 2PI- 3PRONG
[6617] P P --> 2P 2PI+ 2PI-
[6618] P P --> 2P LAMBDA 2PIO PI-
[6619] P P --> 2P KO AKO PI+ PI-
[6620] P P --> 2P KO K- PI+ PIO
[6621] P P --> 2P 4PRONG
[6622] P P --> P N 2PI+ PIO PI-
[6623] P P --> P N 2PI+ PI- PI0(S)
[6624] P P --> P N K+ AKO PI+ PI-
[6625] P P --> P N KO K- 2PI+
[6626] P P --> P LAMBDA K+ PI+ PIO PI-
[6627] P P --> P LAMBDA KO 2PI+ PI-
[6628] P P --> P SIGMA+ KO PI+ PIO PI-
[6629] P P --> P SIGMAO KO 2PI+ PI-
[6630] P P --> P SIGMA- KO 2PI+ PIO
[6631] P P --> P 5PRONG
[6632] P P --> N LAMBDA K+ 2PI+ PI-
[6633] P P --> N SIGMA+ KO 2PI+ PI-
[6634] P P --> N SIGMA- KO 3PI+
[6635] P P --> N LAMBDA KO 4PRONG
[6636] P P --> 2CHARGED+ 4PRONG
[6637] P P --> CHARGED+ CHARGED- 4PRONG
[6638] P P --> 2CHARGED- ANYTHING
[6639] P P --> 2CHARGED- 4PRONG
[6640] P P --> 6CHARGED
[6641] P P --> 6PRONG
[6642] P P --> 6GAMMA ANYTHING
[6643] P P --> GAMMA 6PRONG
[6644] P P --> N(PIO) 6PRONG
[6645] P P --> PI+ 6PRONG
[6646] P P --> PIO 6PRONG
[6647] P P --> 5PI- N(PI+) ANYTHING
[6648] P P --> 5PI- N(PIO) ANYTHING
[6649] P P --> PI- 6PRONG
[6650] P P --> N(KS) 6PRONG
[6651] P P --> KS 6CHARGED
[6652] P P --> KS 6PRONG
[6653] P P --> 2P 2PI+ PIO 2PI-
[6654] P P --> 2P PI+ PI- 2CHARGED ANYTHING
[6655] P P --> 2P RHOO 2PI+ 2PI-
[6656] P P --> 2P OMEGA 2PI+ 2PI-
[6657] P P --> 2P PHI 2PI+ 2PI-
[6658] P P --> 2P KO AKO PI+ PIO PI-
[6659] P P --> P N 3PI+ 2PI-
[6660] P P --> P N KO AKO 2PI+ PI-

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[6661] P P --> P DEL++ 2PI+ 3PI-
[6662] P P --> P LAMBDA KO 2PI+ PIO PI-
[6663] P P --> 2N 3PI+ PI- MM.GE.2
[6664] P P --> N LAMBDA KO 3PI+ PI-
[6665] P P --> LAMBDA K+ 5PRONG
[6666] P P --> LAMBDA 6CHARGED
[6667] P P --> LAMBDA 6PRONG
[6668] P P --> ALAMBDA 6CHARGED
[6669] P P --> 6CHARGED- ANYTHING
[6670] P P --> 6PRONG NEUTRALS
[6671] P P --> 7GAMMA ANYTHING
[6672] P P --> N1PI0I 7PRONG
[6673] P P --> PI+ PI- 6PRONG
[6674] P P --> PI+ 7PRONG
[6675] P P --> PI0 6CHARGED ANYTHING
[6676] P P --> PI0 7PRONG
[6677] P P --> K0 AK0 8PRONG
[6678] P P --> K5 8CHARGED ANYTHING
[6679] P P --> P PI+ 8PRONG
[6680] P P --> 2P 3PI+ 3PI-
[6681] P P --> 2P 8PRONG
[6682] P P --> P 9PRONG
[6683] P P --> LAMBDA K0 8PRONG
[6684] P P --> 2CHARGED+ 8PRONG
[6685] P P --> CHARGED+ CHARGED- 8PRONG
[6686] P P --> 7CHARGED- ANYTHING
[6687] P P --> 2CHARGED- 8PRONG
[6688] P P --> 8CHARGED
[6689] P P --> 8PRONG
[6690] P P --> 8GAMMA ANYTHING
[6691] P P --> - GAMMA 8PRONG
[6692] P P --> N1PI0I 8PRONG
[6693] P P --> PI+ 8PRONG
[6694] P P --> PI0 8PRONG
[6695] P P --> PI- 8PRONG
[6696] P P --> N1K5I 8PRONG
[6697] P P --> K5 8CHARGED
[6698] P P --> K5 8PRONG
[6699] P P --> 2P 3PI+ PI0 3PI-
[6700] P P --> 2P RHO0 3PI+ 3PI-
[6701] P P --> 2P OMEGA 3PI+ 3PI-
[6702] P P --> 2P PHI 3PI+ 3PI-
[6703] P P --> P N 4PI+ 3PI-
[6704] P P --> LAMBDA K+ 7PRONG
[6705] P P --> LAMBDA 8CHARGED
[6706] P P --> LAMBDA 8PRONG
[6707] P P --> ALAMBDA 8CHARGED
[6708] P P --> 8CHARGED- ANYTHING
[6709] P P --> 8PRONG NEUTRALS
[6710] P P --> 9GAMMA ANYTHING
[6711] P P --> PI+ PI- 8PRONG
[6712] P P --> PI0 8CHARGED ANYTHING
[6713] P P --> PI- 9PRONG
[6714] P P --> K0 AK0 9PRONG
[6715] P P --> K5 8CHARGED ANYTHING
[6716] P P --> 2P 4PI+ 3PI-
[6717] P P --> LAMBDA K0 8PRONG
[6718] P P --> 2CHARGED+ 8PRONG
[6719] P P --> CHARGED+ CHARGED- 8PRONG
[6720] P P --> 9CHARGED- ANYTHING
[6721] P P --> 2CHARGED- 8PRONG
[6722] P P --> 10CHARGED
[6723] P P --> 2CHARGED 8PRONG
[6724] P P --> 10PRONG
[6725] P P --> 10GAMMA ANYTHING
[6726] P P --> GAMMA 10PRONG
[6727] P P --> N1PI0I 10PRONG
[6728] P P --> PI+ 10PRONG
[6729] P P --> PI0 10PRONG
[6730] P P --> PI- 10PRONG
[6731] P P --> N1K5I 10PRONG
[6732] P P --> K5 10CHARGED
[6733] P P --> K5 10PRONG
[6734] P P --> 2P 4PI+ PI0 4PI-
[6735] P P --> P N 5PI+ 4PI-
[6736] P P --> LAMBDA K+ 9PRONG
[6737] P P --> LAMBDA 10CHARGED
[6738] P P --> LAMBDA 10PRONG
[6739] P P --> E- ALAMBDA 10CHARGED
[6740] P P --> 10CHARGED- ANYTHING
[6741] P P --> 11GAMMA ANYTHING
[6742] P P --> PI0 10CHARGED ANYTHING
[6743] P P --> PI- 11PRONG
[6744] P P --> K0 AK0 10PRONG
[6745] P P --> K5 10CHARGED ANYTHING
[6746] P P --> 2P 5PI+ 4PI-
[6747] P P --> LAMBDA K0 10PRONG
[6748] P P --> 2CHARGED+ 10PRONG
[6749] P P --> CHARGED+ CHARGED- 10PRONG
[6750] P P --> 11CHARGED- ANYTHING
[6751] P P --> 2CHARGED- 10PRONG
[6752] P P --> 12CHARGED
[6753] P P --> 12PRONG
[6754] P P --> 12GAMMA ANYTHING
[6755] P P --> GAMMA 12PRONG
[6756] P P --> N1PI0I 12PRONG
[6757] P P --> PI0 12PRONG
[6758] P P --> N1K5I 12PRONG
[6759] P P --> K5 12CHARGED

[6760] P P --> K5 12PRONG
[6761] P P --> LAMBDA 12CHARGED
[6762] P P --> LAMBDA 12PRONG
[6763] P P --> ALAMBDA 12CHARGED
[6764] P P --> 12CHARGED- ANYTHING
[6765] P P --> 13GAMMA ANYTHING
[6766] P P --> PI0 12CHARGED ANYTHING
[6767] P P --> PI- 13PRONG
[6768] P P --> K5 12CHARGED ANYTHING
[6769] P P --> 2CHARGED+ 12PRONG
[6770] P P --> CHARGED+ CHARGED- 12PRONG
[6771] P P --> 2CHARGED- 12PRONG
[6772] P P --> 2CHARGED 12PRONG
[6773] P P --> 14PRONG
[6774] P P --> 14GAMMA ANYTHING
[6775] P P --> GAMMA 14PRONG
[6776] P P --> N1PI0I 14PRONG
[6777] P P --> PI0 14PRONG
[6778] P P --> N1K5I 14PRONG
[6779] P P --> K5 14PRONG
[6780] P P --> LAMBDA 14CHARGED
[6781] P P --> LAMBDA 14PRONG
[6782] P P --> 15GAMMA ANYTHING
[6783] P P --> PI0 14CHARGED ANYTHING
[6784] P P --> PI- 15PRONG
[6785] P P --> K5 14CHARGED ANYTHING
[6786] P P --> 16PRONG
[6787] P P --> 16GAMMA ANYTHING
[6788] P P --> GAMMA 16PRONG
[6789] P P --> N1PI0I 16PRONG
[6790] P P --> PI0 16PRONG
[6791] P P --> N1K5I 16PRONG
[6792] P P --> K5 16PRONG
[6793] P P --> LAMBDA 16CHARGED
[6794] P P --> LAMBDA 16PRONG
[6795] P P --> PI0 16CHARGED ANYTHING
[6796] P P --> PI- 17PRONG
[6797] P P --> K5 16CHARGED ANYTHING
[6798] P P --> 18PRONG
[6799] P P --> GAMMA 18PRONG
[6800] P P --> N1PI0I 18PRONG
[6801] P P --> PI0 18PRONG
[6802] P P --> N1K5I 18PRONG
[6803] P P --> K5 18PRONG
[6804] P P --> LAMBDA 18PRONG
[6805] P P --> K5 18CHARGED ANYTHING
[6806] P P --> 2CHARGED 18PRONG
[6807] P P --> 20PRONG
[6808] P P --> GAMMA 20PRONG
[6809] P P --> N1PI0I 20PRONG
[6810] P P --> PI0 20PRONG
[6811] P P --> N1K5I 20PRONG
[6812] P P --> K5 20PRONG
[6813] P P --> LAMBDA 20PRONG
[6814] P P --> PI0 20CHARGED ANYTHING
[6815] P P --> K5 20CHARGED ANYTHING
[6816] P P --> 22PRONG
[6817] P P --> GAMMA 22PRONG
[6818] P P --> N1PI0I 22PRONG
[6819] P P --> PI0 22PRONG
[6820] P P --> N1K5I 22PRONG
[6821] P P --> K5 22PRONG
[6822] P P --> 24PRONG
[6823] P P --> GAMMA 24PRONG
[6824] P P --> N1PI0I 24PRONG
[6825] P P --> PI0 24PRONG
[6826] P P --> N1K5I 24PRONG
[6827] P P --> K5 24PRONG
[6828] P P --> 26PRONG
[6829] P P --> GAMMA 26PRONG
[6830] P P --> PI0 26PRONG
[6831] P P --> K5 26CHARGED ANYTHING
[6832] P P --> 28PRONG
[6833] P P --> 2CHARGED 28PRONG
[6834] P P --> 30PRONG
[6835] P P --> 32PRONG
[6836] P P --> - GT.2*1PRONG +
                GT.11PRONG
[6837] P P --> E- ANYTHING + E+ ANYTHING
[6838] P P --> MU- ANYTHING + MU+
                ANYTHING
[6839] P P --> PI+ CEUT + CEUT PI+ PI0
[6840] P P --> PI+ ANYTHING + PI-
                ANYTHING
[6841] P P --> K+ ANYTHING + PI- ANYTHING
[6842] P P --> K+ ANYTHING + E- ANYTHING
[6843] P P --> K0 ANYTHING + AK0 ANYTHING
[6844] P P --> K- ANYTHING + PI- ANYTHING
[6845] P P --> 2P + P ANYTHING
[6846] P P --> - 2P + 2PRONG
[6847] P P --> P ANYTHING - P STRANGE(S)
                ANYTHING
[6848] P P --> P ANYTHING + AP ANYTHING
[6849] P P --> N ANYTHING + AN ANYTHING
[6850] P P --> DEL++ N + DEL+ P
[6851] P P --> LAMBDA N(WEE) + SIGMA0
                N(WEE)
[6852] P P --> LAMBDA 0PRONG + SIGMA0
                0PRONG

[6853] P P --> LAMBDA N(PRONG) + SIGMA0
                N(PRONG)
[6854] P P --> - LAMBDA ANYTHING + SIGMA0
                ANYTHING
[6855] P P --> E+ ALAMBDA ANYTHING + ASIGMA0
                ANYTHING
[6856] P P --> E- HADRONS ANYTHING + E+
                HADRONS ANYTHING
[6857] P P --> 2PI+ ANYTHING + 2PI-
                ANYTHING
[6858] P P --> PI+ PI0 ANYTHING + PI0 PI-
                ANYTHING
[6859] P P --> PI0 2PRONG + PI0 3PRONG
[6860] P P --> K+ PI- ANYTHING + K- PI+
                ANYTHING
[6861] P P --> K0 2PRONG + AK0 2PRONG
[6862] P P --> P MU- ANYTHING + P MU+
                ANYTHING
[6863] P P --> 2P PI0 + P N PI+
[6864] P P --> P SIGMA0 K+ + N SIGMA+ K+
[6865] P P --> NUCLEON HYPERON K+ +
                NUCLEON HYPERON K+ PICN
[6866] P P --> DEL++ DEL- PI+ + P DEL-
                2PI+
[6867] P P --> DEL++ DEL- PI+ + N DEL++
                PI+ PI-
[6868] P P --> LAMBDA K+ ANYTHING +
                SIGMA0 K+ ANYTHING
[6869] P P --> LAMBDA K0 ANYTHING +
                SIGMA0 K0 ANYTHING
[6870] P P --> LAMBDA 2PRONG + SIGMA0
                2PRONG
[6871] P P --> PI- 3PRONG + PI+ 4PRONG
[6872] P P --> K- 3PRONG + K+ 4PRONG
[6873] P P --> 2P 2PI0 + 2P 3PI0
[6874] P P --> P N PI+ PI0 + P N PI+ 2PI0
[6875] P P --> P LAMBDA K+ PIC + P SIGMA0
                K+ PI0
[6876] P P --> 2P 2PI+ + 2N 2PI+ PI0
[6877] P P --> N LAMBDA K+ PI+ + N SIGMA0
                K+ PI+
[6878] P P --> N CHARGED 2PRONG + N
                CHARGED 3PRONG
[6879] P P --> 4P 3PRONG + 4P 4PRONG
[6880] P P --> DEUT 2PI+ PI- + CEUT 2PI+
[6881] P P --> 4PRONG + 6PRONG
[6882] P P --> PI0 4PRONG + PI0 5PRONG
[6883] P P --> K0 4PRONG + AK0 4PRONG
[6884] P P --> LAMBDA 4PRONG + SIGMA0
                4PRONG
[6885] P P --> K0 4PRONG + AK0 6PRONG
[6886] P P --> 2P 2PI+ 2CHARGED ANYTHING
                + 2P 2PI- 2CHARGED ANYTHING
[6887] P P --> LAMBDA 6PRONG + SIGMA0
                6PRONG
[6888] P P --> PI+ PI- 6PRONG + PI+ PI-
                8PRONG
[6889] P P --> K0 8PRONG + K0 10PRONG
[6890] P P --> K0 8PRONG + AK0 8PRONG
[6891] P P --> LAMBDA 8PRONG + SIGMA0
                8PRONG
[6892] P P --> K0 10PRONG + AK0 10PRONG
[6893] P P --> LAMBDA 10PRONG + SIGMA0
                10PRONG
[6894] P P --> K0 12PRONG + AK0 12PRONG
[6895] P P --> LAMBDA 12PRONG + SIGMA0
                12PRONG
[6896] P P --> K0 14PRONG + AK0 14PRONG
[6897] P P --> LAMBDA 14PRONG + SIGMA0
                14PRONG
[6898] P P --> K0 16PRONG + AK0 16PRONG
[6899] P P --> LAMBDA 16PRONG + SIGMA0
                16PRONG
[6900] P P --> K0 18PRONG + AK0 18PRONG
[6901] P P --> K0 20PRONG + AK0 20PRONG
[6902] P P --> K0 22PRONG + AK0 22PRONG
[6903] P P --> - PI+ PI- +GT.2*2PRONG +
                -GT.1*0PRONG
[6904] P P --> - PI- +GT.1*7PRONG + PI-
                +GT.9PRONG
[6905] P P --> - K- +GT.1*7PRONG + K-
                +GT.9PRONG
[6906] P P --> - 2P + P ANYTHING
[6907] P P --> - 2P + 2PRONG
[6908] P P --> - 2P + 4PRONG
[6909] P P --> - 2P + 6PRONG
[6910] P P --> - 2P + 8PRONG
[6911] P P --> - 2P + 12PRONG
[6912] P P --> - 2P + 14PRONG
[6913] P P --> - 2P + 16PRONG
[6914] P P --> - 2P + 18PRONG
[6915] P P --> - AP +GT.1*7PRONG + AP
                +GT.9PRONG
[6916] P P --> - 2PRONG + 4PRONG + 6PRONG
[6917] P P --> P N LAMBDA K+ + P SIGMA0 K+
                + N SIGMA+ K+
[6918] P P --> SIGMA+ K0 ANYTHING +
                SIGMA- K0 ANYTHING + K0 K-
                ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[6919] P P --> 2P RHO+ PI- + 2P RHOO PIO + 2P RHO- PI+
[6920] P P --> PI- 5PRONG + PI- 7PRONG + PI- 8PRONG
[6921] P P --> K- 5PRONG + K- 7PRONG + K- 8PRONG
[6922] P P --> AP 5PRONG + AP 7PRONG + AP 8PRONG
[6923] P P --> N CHARGED 4PRONG + N CHARGED 5PRONG + N CHARGED 7PRONG
[6924] P P --> 2PRONG + 4PRONG + 6PRONG + 8PRONG + 10PRONG
[6925] P P --> SIGMA+ KO ANYTHING + SIGMA- KO ANYTHING + K+ KO ANYTHING + 2KO ANYTHING + KO K- ANYTHING
[6926] P N --> (NOT ENCODED)
[6927] P N --> RHOO
[6928] P N --> F
[6929] P N --> SHOWER
[6930] P N --> NICHARGED3
[6931] P N --> >GT.2PRONG
[6932] P N --> 1PRONG
[6933] P N --> N(PRONG)
[6934] P N --> ANYTHING
[6935] P N --> INELASTIC
[6936] P N --> GAMMA ANYTHING
[6937] P N --> PION ANYTHING
[6938] P N --> PI(+) ANYTHING
[6939] P N --> PI-(S) ANYTHING
[6940] P N --> N(PI+) ANYTHING
[6941] P N --> N(PI-) ANYTHING
[6942] P N --> P+ ANYTHING
[6943] P N --> PI- ANYTHING
[6944] P N --> N(K+) ANYTHING
[6945] P N --> N(K-) ANYTHING
[6946] P N --> KO ANYTHING
[6947] P N --> P ANYTHING
[6948] P N --> PO OO < P PI- >
[6949] P N --> N P
[6950] P N --> N(PI ANYTHING
[6951] P N --> PROTON(S) ANYTHING
[6952] P N --> N(1470)P11O P
[6953] P N --> N(1470)P1+ N
[6954] P N --> N(1470)P1O P
[6955] P N --> N(1520)D+ N
[6956] P N --> N(1688)F15I0 P
[6957] P N --> N(1700)D+ N
[6958] P N --> PI(N(1/2)) P
[6959] P N --> DEL++ ANYTHING
[6960] P N --> DEL0 P
[6961] P N --> DEL0 DEL+
[6962] P N --> DEL+ DEL++
[6963] P N --> PI(N(1+3/2)) P
[6964] P N --> N+UNSPEC(0) ANYTHING
[6965] P N --> 2CHARGED ANYTHING
[6966] P N --> ANYTHING CHARGED
[6967] P N --> ANYTHING NEUTRAL
[6968] P N --> MANY ANYTHING
[6969] P N --> P PI- ANYTHING
[6970] P N --> 2P PI-
[6971] P N --> P N PIO
[6972] P N --> F N RHOO
[6973] P N --> P N F
[6974] P N --> P DEL- PI+
[6975] P N --> P LAMBDA KO
[6976] P N --> 2N PI+
[6977] P N --> N DEL++ PI-
[6978] P N --> N LAMBDA K+
[6979] P N --> LAMBDA KO ANYTHING
[6980] P N --> SIGMAO KO ANYTHING
[6981] P N --> 3PRONG
[6982] P N --> 2P PIO PI-
[6983] P N --> P N PI+ PI-
[6984] P N --> 2P PI+ 2PI-
[6985] P N --> 5PRONG
[6986] P N --> 7PRONG
[6987] P N --> 9PRONG
[6988] P N --> 11PRONG
[6989] P N --> 13PRONG
[6990] P N --> 15PRONG
[6991] P N --> 17PRONG
[6992] P N --> 19PRONG
[6993] P N --> 21PRONG
[6994] P N --> 23PRONG
[6995] P N --> 25PRONG
[6996] P N --> 27PRONG
[6997] P N --> N(FRAG) + SHOWER
[6998] P N --> LAMBDA ANYTHING + SIGMAO ANYTHING
[6999] P AN --> 3PRONG
[7000] P AN --> 5PRONG
[7001] P AN --> 7PRONG
[7002] P AP --> E+ E-
[7003] P NUCLEON --> (NOT ENCODED)
[7004] P NUCLEON --> PRONG
[7005] P NUCLEON --> N(PRONG)
[7006] P NUCLEON --> ANYTHING

[7007] P NUCLEON --> INELASTIC
[7008] P NUCLEON --> E+ ANYTHING
[7009] P NUCLEON --> MU- ANYTHING
[7010] P NUCLEON --> MU+ ANYTHING
[7011] P NUCLEON --> MUON ANYTHING
[7012] P NUCLEON --> HYP-LEPTON ANYTHING
[7013] P NUCLEON --> PI+(S) ANYTHING
[7014] P NUCLEON --> PI-(S) ANYTHING
[7015] P NUCLEON --> PIO ANYTHING
[7016] P NUCLEON --> ETA ANYTHING
[7017] P NUCLEON --> PHI ANYTHING
[7018] P NUCLEON --> RHOPRIME(1600)0 ANYTHING
[7019] P NUCLEON --> J/PSI(3100)0 ANYTHING
[7020] P NUCLEON --> PSI(3700)0 ANYTHING
[7021] P NUCLEON --> K+(S) ANYTHING
[7022] P NUCLEON --> K-(S) ANYTHING
[7023] P NUCLEON --> PROTON(S) ANYTHING
[7024] P NUCLEON --> AP(S) ANYTHING
[7025] P NUCLEON --> NUCLEON P
[7026] P NUCLEON --> LAMBDA ANYTHING
[7027] P NUCLEON --> MONOPOLE ANYTHING
[7028] P NUCLEON --> LONGLIVED ANYTHING
[7029] P NUCLEON --> 2PRONG
[7030] P NUCLEON --> ANYTHING HADRON-
[7031] P NUCLEON --> ANYTHING CHARGED
[7032] P NUCLEON --> E- E+ ANYTHING
[7033] P NUCLEON --> MU- MU+ HADRONS
[7034] P NUCLEON --> MU- MU+ ANYTHING
[7035] P NUCLEON --> 3PRONG
[7036] P NUCLEON --> 4PRONG
[7037] P NUCLEON --> 5PRONG
[7038] P NUCLEON --> 6PRONG
[7039] P NUCLEON --> 7PRONG
[7040] P NUCLEON --> 9PRONG
[7041] P NUCLEON --> 8PRONG
[7042] P NUCLEON --> 10PRONG
[7043] P NUCLEON --> 11PRONG
[7044] P NUCLEON --> 12PRONG
[7045] P NUCLEON --> 13PRONG
[7046] P NUCLEON --> 14PRONG
[7047] P NUCLEON --> 15PRONG
[7048] P NUCLEON --> 16PRONG
[7049] P NUCLEON --> 17PRONG
[7050] P NUCLEON --> 18PRONG
[7051] P NUCLEON --> MU- ANYTHING + MU+ ANYTHING
[7052] P NUCLEON --> OMEGA ANYTHING + RHOO ANYTHING
[7053] P NUCLEON --> 2MU- ANYTHING + 2MU+ ANYTHING
[7054] P OEUT --> (NOT ENCODED)
[7055] P OEUT --> ETA
[7056] P OEUT --> >GT.3PRONG
[7057] P OEUT --> >GT.2PRONG
[7058] P OEUT --> DEUT
[7059] P OEUT --> ANYTHING
[7060] P OEUT --> OO < ANYTHING >
[7061] P OEUT --> MMU- ANYTHING
[7062] P OEUT --> GAMMA ANYTHING
[7063] P OEUT --> E- ANYTHING
[7064] P OEUT --> E+ ANYTHING
[7065] P OEUT --> MU- ANYTHING
[7066] P OEUT --> MU+ ANYTHING
[7067] P OEUT --> PI+ T
[7068] P OEUT --> K+ ANYTHING
[7069] P OEUT --> PIO HE3
[7070] P OEUT --> PI- ANYTHING
[7071] P OEUT --> ETA HE3
[7072] P OEUT --> GAMMA HE3
[7073] P OEUT --> ETAPRIME HE3
[7074] P OEUT --> K+ ANYTHING
[7075] P OEUT --> K- ANYTHING
[7076] P OEUT --> P DEUT
[7077] P OEUT --> P ANYTHING
[7078] P OEUT --> P OO < 2P PI- NEUTRALS
[7079] P OEUT --> P OO < 2N PI+ NEUTRALS
[7080] P OEUT --> N ANYTHING
[7081] P OEUT --> AP ANYTHING
[7082] P OEUT --> N(1470)P+ DEUT
[7083] P OEUT --> DEL++ DEUT+(2170)0
[7084] P OEUT --> N+(UNSPEC)+ DEUT
[7085] P OEUT --> DEUT ANYTHING
[7086] P OEUT --> DEUT ANYTHING
[7087] P OEUT --> HE3 NEUTRAL(S)
[7088] P OEUT --> 2PRONG
[7089] P OEUT --> ANYTHING VEE
[7090] P OEUT --> P(SPECT) PI- N(PRONG)
[7091] P OEUT --> P(SPECT) P N
[7092] P OEUT --> 2P N
[7093] P OEUT --> 2P NEUTRAL(S)
[7094] P OEUT --> P N ANYTHING
[7095] P OEUT --> P DEL++ DEL-
[7096] P OEUT --> DEUT P PIO
[7097] P OEUT --> DEUT P OMEGA
[7098] P OEUT --> DEUT N PI+

[7099] P OEUT --> DEUT DEL++ PI-
[7100] P OEUT --> DEUT+(2170)0 P PI-
[7101] P OEUT --> 3PRONG
[7102] P OEUT --> OO < P PI- > P(SPECT) P
[7103] P OEUT --> P(SPECT) 2P PI-
[7104] P OEUT --> P(SPECT) P N PI+
[7105] P OEUT --> DEUT P PI+ PI-
[7106] P OEUT --> DEUT DEL++ PIO PI-
[7107] P OEUT --> DEUT DEL- 2PI+
[7108] P OEUT --> DEUT+(2170)0 + PI+ PI-
[7109] P OEUT --> 4PRONG
[7110] P OEUT --> P(SPECT) 2P PIO PI-
[7111] P OEUT --> P(SPECT) P N PI+ PI-
[7112] P OEUT --> P(SPECT) 2P PI+ PI-
[7113] P OEUT --> DEUT P PI+ PIO PI-
[7114] P OEUT --> DEUT N 2PI+ PI-
[7115] P OEUT --> 5PRONG
[7116] P OEUT --> 6PRONG
[7117] P OEUT --> 7PRONG
[7118] P OEUT --> 8PRONG
[7119] P OEUT --> 9PRONG
[7120] P OEUT --> 10PRONG
[7121] P OEUT --> 11PRONG
[7122] P OEUT --> 12PRONG
[7123] P OEUT --> 13PRONG
[7124] P OEUT --> 14PRONG
[7125] P OEUT --> 15PRONG
[7126] P OEUT --> 16PRONG
[7127] P OEUT --> 17PRONG
[7128] P OEUT --> 18PRONG
[7129] P OEUT --> 19PRONG
[7130] P OEUT --> 20PRONG
[7131] P OEUT --> 21PRONG
[7132] P OEUT --> 22PRONG
[7133] P OEUT --> 23PRONG
[7134] P OEUT --> 24PRONG
[7135] P OEUT --> 25PRONG
[7136] P OEUT --> 26PRONG
[7137] P OEUT --> 27PRONG
[7138] P OEUT --> 28PRONG
[7139] P OEUT --> 29PRONG
[7140] P OEUT --> 30PRONG
[7141] P OEUT --> >GT.4PRONG + >GT.2PRONG
[7142] P OEUT --> 2P DEL- PI+ + P N DEL++ PI-
[7143] P OEUT --> DEUT P PI+ PIO PI- + DEUT N 2PI+ PI-
[7144] P HE3 --> (NOT ENCODED)
[7145] P HE3 --> P HE3
[7146] P HE3 --> P N ANYTHING
[7147] P T --> P T
[7148] P HE --> (NOT ENCODED)
[7149] P HE --> P HE
[7150] P HE --> N(1470)P1+ HE
[7151] P HE --> HE3 ANYTHING
[7152] P HE --> HE ANYTHING
[7153] P HE --> P N ANYTHING
[7154] P HE --> HE P GAMMA
[7155] P HE --> HE P PI+ PI-
[7156] P HE --> HE P PI+ PIO PI-
[7157] P HE --> HE P 2PI+ 2PI-
[7158] P HE --> HE P 2PI+ PIO 2PI-
[7159] P HE --> P MU- ANYTHING
[7160] P LI --> P ANYTHING
[7161] P LI --> DEUT ANYTHING
[7162] P LI --> PI+ ANYTHING + PI- ANYTHING
[7163] P BE --> (NOT ENCODED)
[7164] P BE --> J/PSI(3100)0
[7165] P BE --> PSI(3700)0
[7166] P BE --> P
[7167] P BE --> AP
[7168] P BE --> N(CHARGED)
[7169] P BE --> ANYTHING
[7170] P BE --> E- ANYTHING
[7171] P BE --> E+ E-
[7172] P BE --> E+ ANYTHING
[7173] P BE --> MU- ANYTHING
[7174] P BE --> MU+ ANYTHING
[7175] P BE --> MUON ANYTHING
[7176] P BE --> HYP-LEPTON ANYTHING
[7177] P BE --> PION ANYTHING
[7178] P BE --> N(PI-) ANYTHING
[7179] P BE --> PI+ ANYTHING
[7180] P BE --> PIO ANYTHING
[7181] P BE --> PI- ANYTHING
[7182] P BE --> RHOO ANYTHING
[7183] P BE --> OMEGA ANYTHING
[7184] P BE --> PHI ANYTHING
[7185] P BE --> J/PSI(3100)0 ANYTHING
[7186] P BE --> PSI(3700)0 ANYTHING
[7187] P BE --> UPSI(9597)0 ANYTHING
[7188] P BE --> K+ ANYTHING
[7189] P BE --> K- ANYTHING
[7190] P BE --> P BE
[7191] P BE --> P ANYTHING
[7192] P BE --> N ANYTHING
[7193] P BE --> AP ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[7194] P BE --> NIPI ANYTHING
[7195] P BE --> LAMBDA ANYTHING
[7196] P BE --> SIGMA+ ANYTHING
[7197] P BE --> XI- ANYTHING
[7198] P BE --> DEUT ANYTHING
[7199] P BE --> ACELT ANYTHING
[7200] P BE --> T ANYTHING
[7201] P BE --> AT ANYTHING
[7202] P BE --> AHE ANYTHING
[7203] P BE --> QUARK ANYTHING
[7204] P BE --> CHARM ANYTHING
[7205] P BE --> MONOPOLE ANYTHING
[7206] P BE --> UNSPEC ANYTHING
[7207] P BE --> NEUTRALS PRONG
[7208] P BE --> ANYTHING >GT.5GAMMA
[7209] P BE --> ANYTHING HADRON-
[7210] P BE --> E+ E- ANYTHING
[7211] P BE --> MU- E+ ANYTHING
[7212] P BE --> MU+ MU- ANYTHING
[7213] P BE --> MU+ E- ANYTHING
[7214] P BE --> PI+ E- ANYTHING
[7215] P BE --> PI+ PI- ANYTHING
[7216] P BE --> K+ PI- ANYTHING
[7217] P BE --> K+ K- ANYTHING
[7218] P BE --> K- E+ ANYTHING
[7219] P BE --> K+ PI+ ANYTHING
[7220] P BE --> P PI- ANYTHING
[7221] P BE --> P K- ANYTHING
[7222] P BE --> P AP ANYTHING
[7223] P BE --> AP E+ ANYTHING
[7224] P BE --> AP PI+ ANYTHING
[7225] P BE --> AP K+ ANYTHING
[7226] P BE --> HADRON+ HADRON- ANYTHING
[7227] P BE --> MU- E+ HADRON- ANYTHING
[7228] P BE --> MU- HADRON+ HADRON- ANYTHING
[7229] P BE --> MU+ E+ HADRON- ANYTHING
[7230] P BE --> MU+ HADRON+ HADRON- ANYTHING
[7231] P BE --> PI+ PI- MUON ANYTHING
[7232] P BE --> P PI- MUON ANYTHING
[7233] P BE --> BE P PI+ PI-
[7234] P BE --> E- ANYTHING + E+ ANYTHING
[7235] P BE --> MU- ANYTHING + MU+ ANYTHING
[7236] P BE --> PI+ PI+ ANYTHING + PI- ANYTHING
[7237] P BOR --> (NOT ENCODED)
[7238] P C --> (NOT ENCODED)
[7239] P C --> SHOWER
[7240] P C --> N(CHARGED)
[7241] P C --> N(PRONG)
[7242] P C --> INELASTIC
[7243] P C --> MU- ANYTHING
[7244] P C --> MU+ ANYTHING
[7245] P C --> NIPI-1 ANYTHING
[7246] P C --> PI+ ANYTHING
[7247] P C --> PI- ANYTHING
[7248] P C --> JPSI(3100)0 ANYTHING
[7249] P C --> PSI(3700)0 ANYTHING
[7250] P C --> K+ ANYTHING
[7251] P C --> K- ANYTHING
[7252] P C --> P C
[7253] P C --> P C*(4,44)
[7254] P C --> P ANYTHING
[7255] P C --> AP ANYTHING
[7256] P C --> NIPI ANYTHING
[7257] P C --> DEUT ANYTHING
[7258] P C --> T ANYTHING
[7259] P C --> LI ANYTHING
[7260] P C --> BE ANYTHING
[7261] P C --> UNSPEC ANYTHING
[7262] P C --> MU- MU+ ANYTHING
[7263] P C --> ZP ANYTHING
[7264] P C --> C P PIO
[7265] P C --> C N PI+
[7266] P C --> C P PI+ PI-
[7267] P C --> KO AKO PI+ PI- ANYTHING
[7268] P C --> N(FRAG) + SHOWER
[7269] P C --> PI+ ANYTHING + PI- ANYTHING
[7270] P D --> (NOT ENCODED)
[7271] P D --> SHOWER
[7272] P D --> N(PRONG)
[7273] P D --> N(FRAG) + SHOWER
[7274] P NE --> (NOT ENCODED)
[7275] P NE --> PI(45) ANYTHING
[7276] P NE --> PI+ ANYTHING
[7277] P NE --> PI- ANYTHING
[7278] P NE --> K+ ANYTHING
[7279] P NE --> K- ANYTHING
[7280] P NE --> P ANYTHING
[7281] P NE --> N(UNSPEC)+ NE
[7282] P NE --> NEUTRALS(N(PRONG)
[7283] P NE --> ANYTHING NEUTRAL
[7284] P NE --> E- E+ ANYTHING
[7285] P NE --> NE CHARGEE ANYTHING
[7286] P NE --> NIPI NIP(+) NIPI-1 N(GAMMA)
[7287] P NE --> NE P E- E+
[7288] P AL --> (NOT ENCODED)
[7289] P AL --> HADRONS
[7290] P AL --> N(CHARGED)
[7291] P AL --> N(PRONG)
[7292] P AL --> HADRONS
[7293] P AL --> NIPI-1 ANYTHING
[7294] P AL --> PI+ ANYTHING
[7295] P AL --> PI- ANYTHING
[7296] P AL --> K+ ANYTHING
[7297] P AL --> KL ANYTHING
[7298] P AL --> K- ANYTHING
[7299] P AL --> AL
[7300] P AL --> P ANYTHING
[7301] P AL --> AP ANYTHING
[7302] P AL --> NIPI ANYTHING
[7303] P AL --> DEUT ANYTHING
[7304] P AL --> ADEUT ANYTHING
[7305] P AL --> QUARK ANYTHING
[7306] P AL --> MONOPOLE ANYTHING
[7307] P AL --> LONGLIVED ANYTHING
[7308] P AL --> ANYTHING HADRON-
[7309] P AL --> AL P PI0
[7310] P AL --> AL P PI+ PI-
[7311] P AL --> PI+ ANYTHING + PI- ANYTHING
[7312] P SI --> (NOT ENCODED)
[7313] P CA --> (NOT ENCODED)
[7314] P CA --> P CA
[7315] P CA --> CA ANYTHING
[7316] P KK --> P KK
[7317] P TI --> (NOT ENCODED)
[7318] P TI --> PI- ANYTHING
[7319] P TI --> PI- ANYTHING
[7320] P TI --> K+ ANYTHING
[7321] P TI --> K- ANYTHING
[7322] P TI --> F TI
[7323] P TI --> P ANYTHING
[7324] P TI --> AP ANYTHING
[7325] P TI --> DEUT ANYTHING
[7326] P TI --> ADEUT ANYTHING
[7327] P TI --> TI ANYTHING
[7328] P TI --> F PI+ PI-
[7329] P VA --> SC ANYTHING
[7330] P VA --> ANYTHING FRAG
[7331] P CR --> (NOT ENCODED)
[7332] P FE --> (NOT EN.CODED)
[7333] P PE --> HADRONS
[7334] P FE --> CHARGED
[7335] P FE --> ANYTHING
[7336] P FE --> PION ANYTHING
[7337] P FE --> JPSI(3100)0 ANYTHING
[7338] P FE --> PI- ANYTHING
[7339] P FE --> MONOPOLE ANYTHING
[7340] P FE --> MU- MU+ ANYTHING
[7341] P FE --> ZMU- MU+ ANYTHING
[7342] P FE --> MU- ZMU+ ANYTHING
[7343] P FE --> ZMU- ZMU+ ANYTHING
[7344] P FE --> MU- ANYTHING + MU+ ANYTHING
[7345] P FE --> ZMU- ANYTHING + MU- MU+ ANYTHING + ZMU+ ANYTHING
[7346] P CO --> (NOT ENCODED)
[7347] P NI --> (NOT ENCODED)
[7348] P NI --> P NI
[7349] P NI --> N1 ANYTHING
[7350] P CU --> (NOT ENCODED)
[7351] P CU --> N(CHARGED)
[7352] P CU --> GAMMA ANYTHING
[7353] P CU --> PI- ANYTHING
[7354] P CU --> MU- ANYTHING
[7355] P CU --> MU+ ANYTHING
[7356] P CU --> MUON ANYTHING
[7357] P CU --> NIPI-1 ANYTHING
[7358] P CU --> PI+ ANYTHING
[7359] P CU --> PIO ANYTHING
[7360] P CU --> PI- ANYTHING
[7361] P CU --> JPSI(3100)0 ANYTHING
[7362] P CU --> PSI(3700)0 ANYTHING
[7363] P CU --> K+ ANYTHING
[7364] P CU --> K0 ANYTHING
[7365] P CU --> K- ANYTHING
[7366] P CU --> P
[7367] P CU --> P ANYTHING
[7368] P CU --> AP ANYTHING
[7369] P CU --> NIPI ANYTHING
[7370] P CU --> DEUT ANYTHING
[7371] P CU --> T ANYTHING
[7372] P CU --> LONGLIVED ANYTHING
[7373] P CU --> E- E+ ANYTHING
[7374] P CU --> MU- MU+ ANYTHING
[7375] P CU --> CU P PIO
[7376] P CU --> CU P PI+ PI-
[7377] P CU --> MU- ANYTHING + MU+ ANYTHING
[7378] P CU --> PI+ ANYTHING + PI- ANYTHING
[7379] P CU --> LAMBDA ANYTHING + SIGMA0 ANYTHING
[7380] P BR --> SHOWER
[7381] P BR --> N(PRONG)
[7382] P BA --> P ANYTHING
[7383] P BR --> DEUT ANYTHING
[7384] P BR --> N(FRAG) + SHOWER
[7385] P MO --> (NOT ENCODED)
[7386] P MO --> (NOT ENCODED)
[7387] P RH --> DEUT ANYTHING
[7388] P AG --> (NOT ENCODED)
[7389] P AG --> SHOWER
[7390] P AG --> N(PRONG)
[7391] P AG --> PI- ANYTHING
[7392] P AG --> P ANYTHING
[7393] P AG --> DEUT ANYTHING
[7394] P AG --> Y ANYTHING
[7395] P AG --> SC ANYTHING
[7396] P AG --> ANYTHING FRAG
[7397] P AG --> ANYTHING CHARGED
[7398] P AG --> AG P PI0
[7399] P AG --> AG P PI+ PI-
[7400] P AG --> N(FRAG) + SHOWER
[7401] P AG --> NIPI-1 ANYTHING
[7402] P CD --> NIPI ANYTHING
[7403] P IN --> SC ANYTHING
[7404] P IN --> ANYTHING FRAG
[7405] P SN --> JPSI(3100)0 ANYTHING
[7406] P SN --> PSI(3700)0 ANYTHING
[7407] P SN --> P SN
[7408] P TA --> MU- MU+ ANYTHING
[7409] P XE --> P XE
[7410] P BA --> (NOT ENCODED)
[7411] P SM --> PI+ ANYTHING + PI- ANYTHING
[7412] P TA --> (NOT ENCODED)
[7413] P TA --> PI- ANYTHING
[7414] P TA --> P ANYTHING
[7415] P TA --> DEUT ANYTHING
[7416] P TA --> T ANYTHING
[7417] P TA --> TA P PI+ PI-
[7418] P WT --> (NOT ENCODED)
[7419] P WT --> MU- ANYTHING
[7420] P WT --> PI+ ANYTHING
[7421] P WT --> PI- ANYTHING
[7422] P WT --> JPSI(3100)0 ANYTHING
[7423] P WT --> K+ ANYTHING
[7424] P WT --> K- ANYTHING
[7425] P WT --> P ANYTHING
[7426] P WT --> AP ANYTHING
[7427] P WT --> DEUT ANYTHING
[7428] P WT --> ADEUT ANYTHING
[7429] P WT --> ANYTHING CHARGED
[7430] P RE --> (NOT ENCODED)
[7431] P PT --> (NOT ENCODED)
[7432] P PT --> E+ ANYTHING
[7433] P PT --> PI+ ANYTHING
[7434] P PT --> ANYTHING MU+ ANYTHING
[7435] P PT --> DEUT ANYTHING
[7436] P PT --> T ANYTHING
[7437] P PT --> MU- MU+ ANYTHING
[7438] P AU --> (NOT ENCODED)
[7439] P AU --> PI- ANYTHING
[7440] P AU --> P ANYTHING
[7441] P AU --> DEUT ANYTHING
[7442] P AU --> LONGLIVED ANYTHING
[7443] P AU --> ANYTHING FRAG
[7444] P PB --> (NOT ENCODED)
[7445] P PB --> LONGLIVED
[7446] P PB --> N(CHARGED)
[7447] P PB --> NIPI-1 ANYTHING
[7448] P PB --> PI+ ANYTHING
[7449] P PB --> PI- ANYTHING
[7450] P PB --> P PB
[7451] P PB --> NIPI ANYTHING
[7--2] P PB --> DEUT ANYTHING
[7453] P PB --> CA ANYTHING
[7454] P PB --> SC ANYTHING
[7455] P PB --> VA ANYTHING
[7456] P PB --> CR ANYTHING
[7457] P PB --> LONGLIVED ANYTHING
[7458] P PB --> ANYTHING FRAG
[7459] P PB --> MU- MU+ ANYTHING
[7460] P PB --> PB P PI0
[7461] P PB --> PB P PI+ PI-
[7462] P PB --> PI+ ANYTHING + PI- ANYTHING
[7463] P TH --> (NOT ENCODED)
[7464] P U --> (NOT ENCODED)
[7465] P U --> CHARGED
[7466] P U --> MU- ANYTHING
[7467] P U --> MU+ ANYTHING
[7468] P U --> P U
[7469] P U --> CA ANYTHING
[7470] P U --> SC ANYTHING
[7471] P U --> VA ANYTHING
[7472] P U --> CR ANYTHING
[7473] P U --> ANYTHING FRAG
[7474] P U --> MU- MU+ ANYTHING
[7475] P U --> U P PI+ PI-
[7476] P NUCLEUS --> (NOT ENCODED)

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

{7477 } P NUCLEUS --> FRAG
{7478 } P NUCLEUS --> NICHARGED0
{7479 } P NUCLEUS --> DPRONG
{7480 } P NUCLEUS --> PRONG
{7481 } P NUCLEUS --> NIPRONG
{7482 } P NUCLEUS --> PRONGS
{7483 } P NUCLEUS --> ANYTHING
{7484 } P NUCLEUS --> INELASTIC
{7485 } P NUCLEUS --> STAR
{7486 } P NUCLEUS --> GAMMA ANYTHING
{7487 } P NUCLEUS --> E- FRONG
{7488 } P NUCLEUS --> MU- ANYTHING
{7489 } P NUCLEUS --> E+ ANYTHING
{7490 } P NUCLEUS --> MU- ANYTHING
{7491 } P NUCLEUS --> MU+ ANYTHING
{7492 } P NUCLEUS --> PI+ ANYTHING
{7493 } P NUCLEUS --> PI- ANYTHING
{7494 } P NUCLEUS --> PHI ANYTHING
{7495 } P NUCLEUS --> JPSI(3100)0
ANYTHING
{7496 } P NUCLEUS --> UPSI(9970)0 ANYTHINGI
{7497 } P NUCLEUS --> UPSI(9940)0 ANYTHINGI
{7498 } P NUCLEUS --> UPSI(9500)0 ANYTHINGI
{7499 } P NUCLEUS --> UPSI(1006)0
ANYTHING
{7500 } P NUCLEUS --> K+ ANYTHING
{7501 } P NUCLEUS --> KS ANYTHING
{7502 } P NUCLEUS --> KL ANYTHING
{7503 } P NUCLEUS --> K- ANYTHING
{7504 } P NUCLEUS --> NIMESONI ANYTHING
{7505 } P NUCLEUS --> MESON(S) ANYTHING
{7506 } P NUCLEUS --> P ANYTHING
{7507 } P NUCLEUS --> AP ANYTHING
{7508 } P NUCLEUS --> LAMBDA ANYTHING
{7509 } P NUCLEUS --> ALAMBDA ANYTHING
{7510 } P NUCLEUS --> XIO ANYTHING
{7511 } P NUCLEUS --> AXIO ANYTHING
{7512 } P NUCLEUS --> NIBARYON ANYTHING
{7513 } P NUCLEUS --> CEUT ANYTHING
{7514 } P NUCLEUS --> ADEUT ANYTHING
{7515 } P NUCLEUS --> NEUTRON ANYTHING
{7516 } P NUCLEUS --> T ANYTHING
{7517 } P NUCLEUS --> HE(3) ANYTHING
{7518 } P NUCLEUS --> NUCLEUS PRONG
{7519 } P NUCLEUS --> NUCLEUS ANYTHING
{7520 } P NUCLEUS --> NUCLEUS DD,< P PI-
{7521 } P NUCLEUS --> NUCLEUS DD,< P PI+
{7522 } P NUCLEUS --> SUPERNUCLEUS
ANYTHING
{7523 } P NUCLEUS --> QUARK(2/3) ANYTHING
{7524 } P NUCLEUS --> QUARK(-1/3) ANYTHING
{7525 } P NUCLEUS --> QUARK ANYTHING
{7526 } P NUCLEUS --> NO ANYTHING
{7527 } P NUCLEUS --> B ANYTHING
{7528 } P NUCLEUS --> ANTIQUARK ANYTHING
{7529 } P NUCLEUS --> MONOPOLE ANYTHING
{7530 } P NUCLEUS --> LONGLIVED ANYTHING
{7531 } P NUCLEUS --> NICHARGED0 NEFRAG1
{7532 } P NUCLEUS --> 2PRONG
{7533 } P NUCLEUS --> ANYTHING SHOWER
{7534 } P NUCLEUS --> ANYTHING FRAG
{7535 } P NUCLEUS --> ANYTHING HADRONS
{753a } P NUCLEUS --> ANYTHING CHARGED
{7537 } P NUCLEUS --> 2LEPICN ANYTHING
{7538 } P NUCLEUS --> 2E ANYTHING
{7539 } P NUCLEUS --> E- E+ ANYTHING
{7540 } P NUCLEUS --> 2E+ ANYTHING
{7541 } P NUCLEUS --> KO- K+ ANYTHING
{7542 } P NUCLEUS --> 2MU- ANYTHING
{7543 } P NUCLEUS --> MU- MU+ ANYTHING
{7544 } P NUCLEUS --> MU+ E- ANYTHING
{7545 } P NUCLEUS --> MU- E+ ANYTHING
{7546 } P NUCLEUS --> 2MUON ANYTHING
{7547 } P NUCLEUS --> HYP-LEPTON
HYP-LEPTON ANYTHING
{7548 } P NUCLEUS --> PI+ E- ANYTHING
{7549 } P NUCLEUS --> PI+ MU- ANYTHING
{7550 } P NUCLEUS --> 2PI+ ANYTHING
{7551 } P NUCLEUS --> PI+ PI- ANYTHING
{7552 } P NUCLEUS --> 2PI0 ANYTHING
{7553 } P NUCLEUS --> PI- E+ ANYTHING
{7554 } P NUCLEUS --> PI- MU+ ANYTHING
{7555 } P NUCLEUS --> 2PI- ANYTHING
{7556 } P NUCLEUS --> K+ E- ANYTHING
{7557 } P NUCLEUS --> K+ MU- ANYTHING
{7558 } P NUCLEUS --> K+ PI- ANYTHING
{7559 } P NUCLEUS --> 2K+ ANYTHING
{7560 } P NUCLEUS --> K+ E+ ANYTHING
{7561 } P NUCLEUS --> K- E+ ANYTHING
{7562 } P NUCLEUS --> K- MU+ ANYTHING
{7563 } P NUCLEUS --> K- PI+ ANYTHING
{7564 } P NUCLEUS --> 2K- ANYTHING
{7565 } P NUCLEUS --> MESON(S) NIFRAG1
ANYTHING
{7566 } P NUCLEUS --> NESCNES) FRAG
ANYTHING
{7567 } P NUCLEUS --> P E- ANYTHING
{7568 } P NUCLEUS --> P MU- ANYTHING

{7569 } P NUCLEUS --> P PI- ANYTHING
{7570 } P NUCLEUS --> P K- ANYTHING
{7571 } P NUCLEUS --> 2P ANYTHING
{7572 } P NUCLEUS --> P AP ANYTHING
{7573 } P NUCLEUS --> AP E+ ANYTHING
{7574 } P NUCLEUS --> AP MU+ ANYTHING
{7575 } P NUCLEUS --> AP PI+ ANYTHING
{7576 } P NUCLEUS --> AP K+ ANYTHING
{7577 } P NUCLEUS --> 2AP ANYTHING
{7578 } P NUCLEUS --> PROTONS PI+(S1
PI-(S1
{7579 } P NUCLEUS --> 2CHARM ANYTHING
{7580 } P NUCLEUS --> CHARGED+ CHARGED-
ANYTHING
{7581 } P NUCLEUS --> 3PRONG
{7582 } P NUCLEUS --> MU- 2MU+ ANYTHING
{7583 } P NUCLEUS --> 3MUON ANYTHING
{7584 } P NUCLEUS --> NUCLEUS P E- E+
{7585 } P NUCLEUS --> NUCLEUS P PI+ PI-
{7586 } P NUCLEUS --> NUCLEUS 3PRONG
{7587 } P NUCLEUS --> 4PRONG
{7588 } P NUCLEUS --> ANUCN ANYTHING
{7589 } P NUCLEUS --> 5PRONG
{7590 } P NUCLEUS --> NUCLEUS P 2PI+ 2PI-
{7591 } P NUCLEUS --> NUCLEUS 5PRONG
{7592 } P NUCLEUS --> 6PRONG
{7593 } P NUCLEUS --> 7PRONG
{7594 } P NUCLEUS --> 8PRONG
{7595 } P NUCLEUS --> 9PRONG
{7596 } P NUCLEUS --> 10PRONG
{7597 } P NUCLEUS --> 11PRONG
{7598 } P NUCLEUS --> 12PRONG
{7599 } P NUCLEUS --> 13PRONG
{7600 } P NUCLEUS --> 14PRONG
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{7603 } P NUCLEUS --> 17PRONG
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{7622 } P NUCLEUS --> 36PRONG
{7623 } P NUCLEUS --> 37PRONG
{7624 } P NUCLEUS --> 38PRONG
{7625 } P NUCLEUS --> 39PRONG
{7626 } P NUCLEUS --> 40PRONG
{7627 } P NUCLEUS --> 41PRONG
{7628 } P NUCLEUS --> PI+ ANYTHING + PI-
ANYTHING
{7629 } P W --> (NOT ENCODED)
{7630 } P W --> PI+ ANYTHING
{7631 } P W --> PI- ANYTHING
{7632 } P W --> K+ ANYTHING
{7633 } P W --> K- ANYTHING
{7634 } P W --> P AP ANYTHING
{7635 } P W --> AP ANYTHING
{7636 } P W --> DEUT ANYTHING !
{7637 } P W --> ADEUT ANYTHING
{7638 } P W --> PI+ ANYTHING + PI-
ANYTHING
{7639 } P UNISPEC --> (NOT ENCODED)
{7640 } P E- --> (NOT ENCODED)
{7641 } N E- --> E- N
{7642 } N P --> (NOT ENCODED)
{7643 } N P --> ANYTHING
{7644 } N P --> ANYTHING
{7645 } N P --> GAMMA DEUT
{7646 } N P --> PI0 DEUT
{7647 } N P --> K*(892)+ ANYTHING
{7648 } N P --> K*(892)- ANYTHING
{7649 } N P --> P ANYTHING
{7650 } N P --> P DD < P PI- >
{7651 } N P --> N P
{7652 } N P --> N(1520)D13 P
{7653 } N P --> DEL+ P
{7654 } N P --> DEL- DEL++
{7655 } N P --> N*(UN5PECIO P
{7656 } N P --> LAMBDA ANYTHING
{7657 } N P --> S1G(1385P13)+ ANYTHING
{7658 } N P --> S1G(1385P13)- ANYTHING
{7659 } N P --> XI- ANYTHING
{7660 } N P --> 3IBARYON ANYTHING
{7661 } N P --> CHARM ANYTHING
{7662 } N P --> ANYTHING NEUTRAL
{7663 } N P --> 2P PI-

{7664 } N P --> P DEL+ PI-
{7665 } N P --> DEL+ PI0
{7666 } N P --> P LAMBDA KO
{7667 } N P --> P LAMBDA K*(892)0
{7668 } N P --> P LAMBDA NEUTRALS
{7669 } N P --> P LAM(1520)D13 KO
{7670 } N P --> P SIGMAO KO
{7671 } N P --> P SIGMA- K+
{7672 } N P --> P SIG(1385P13)- K+
{7673 } N P --> DEL++ SIGMA- KO
{7674 } N P --> DELO LAMBDA K+
{7675 } N P --> DEUT 2GAMMA
{7676 } N P --> DEUT PI+ PI-
{7677 } N P --> 3PRONG
{7678 } N P --> P KO K-
{7679 } N P --> P N PI+ PI-
{7680 } N P --> P LAMBDA K+ PI-
{7681 } N P --> P SIGMA+ KO PI-
{7682 } N P --> P SIGMAO K+ PI-
{7683 } N P --> P SIGMA- KO PI+
{7684 } N P --> P SIG(1385P13)+ KO PI-
{7685 } N P --> P SIG(1385P13)- KO PI+
{7686 } N P --> DEL++ LAMBDA KO PI-
{7687 } N P --> DELO LAMBDA KO PI+
{7688 } N P --> LAMBDA PI- 2PRONG
{7689 } N P --> 2P KO AKO PI-
{7690 } N P --> P LAMBDA KO PI+ PI-
{7691 } N P --> P SIGMAO KO PI+ PI-
{7692 } N P --> DEUT 2PI+ 2PI-
{7693 } N P --> 5PRONG
{7694 } N P --> 2P K+ AKO 2PI-
{7695 } N P --> P KO K+- PI+ PI-
{7696 } N P --> P N 2PI+ 2PI-
{7697 } N P --> P LAMBDA K+ PI+ 2PI-
{7698 } N P --> P SIGMA+ KO PI+ 2PI-
{7699 } N P --> P SIGMAO K+ PI+ 2PI-
{7700 } N P --> P SIGMA- KO 2PI+ PI-
{7701 } N P --> 2P KO AKO PI+ 2PI-
{7702 } N P --> P LAMBDA KO 2PI+ 2PI-
{7703 } N P --> P SIGMAO KO 2PI+ 2PI-
{7704 } N P --> 7PRONG
{7705 } N P --> 2P K+ AKO PI+ 3PI-
{7706 } N P --> 2P KO K- 2PI+ 3PI-
{7707 } N P --> P LAMBDA K+ 2PI+ 3PI-
{7708 } N P --> P SIGMA+ KO 2PI+ 3PI-
{7709 } N P --> P SIGMAO K+ 2PI+ 3PI-
{7710 } N P --> P SIGMA- KO 3PI+ 2PI-
{7711 } N P --> 2P KO AKO 2PI+ 3PI-
{7712 } N P --> P LAMBDA KO 3PI+ 3PI-
{7713 } N P --> P SIGMAO KO 3PI+ 3PI-
{7714 } N P --> KO ANYTHING + AKO ANYTHING
{7715 } N P --> LAMBDA ANYTHING + SIGMAO
ANYTHING
{7716 } N P --> KO PI+ ANYTHING + KO PI-
ANYTHING
{7717 } N P --> DEL- PI+ + N DEL++ PI-
{7718 } N P --> DELO SIGMA+ KO + DELO
SIGMAO K+
{7719 } N P --> LAMBDA PI+ ANYTHING +
LAMBDA PI- ANYTHING
{7720 } N P --> P LAMBDA K+ PI- + P SIGMA0
K+ PI-
{7721 } N N --> (NOT ENCODED)
{7722 } N N --> ANYTHING
{7723 } N N --> 2N
{7724 } N N --> LAMBDA N
{7725 } N N --> SIGMAO N
{7726 } N N --> DD < P PI- > DD < P PI- >
{7727 } N BE --> P
{7728 } N NUCLEON --> MUONS ANYTHING
{7729 } N NUCLEON --> CD < LAMBDA K+ PI- >
ANYTHING
{7730 } N NUCLEON --> JPSI(3100)0 MUONS1
ANYTHING
{7731 } N NUCLEON --> 2MONOPOLE ANYTHING
{7732 } N DEUT --> (NOT ENCODED)
{7733 } N DEUT --> ANYTHING
{7734 } N DEUT --> N DEUT
{7735 } N DEUT --> DEUT ANYTHING
{7736 } N DEUT --> ANYTHING NEUTRAL
{7737 } N DEUT --> P 2N
{7738 } N DEUT --> P LAMBDA NEUTRALS
{7739 } N HE --> (NOT ENCODED)
{7740 } N HE --> N HE
{7741 } N BE --> (NOT ENCODED)
{7742 } N BE --> ANYTHING
{7743 } N BE --> INELASTIC
{7744 } N BE --> MUON ANYTHING
{7745 } N BE --> 2MUON ANYTHING
{7746 } N BE --> JPSI(3100)0 ANYTHING
{7747 } N BE --> DD ANYTHING
{7748 } N BE --> D(1232)0 ANYTHING
{7749 } N BE --> DE DD < P PI- >
{7750 } N BE --> CHARM ANYTHING
{7751 } N BE --> MU- E+ ANYTHING
{7752 } N BE --> MU- MU+ ANYTHING
{7753 } N BE --> MU- CHARM ANYTHING
{7754 } N BE --> MU+ E- ANYTHING
{7755 } N BE --> MU+ CHARM ANYTHING

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[7756] N BE --> PI+ PI- ANYTHING
[7757] N BE --> K+ PI- ANYTHING
[7758] N BE --> K+ K- ANYTHING
[7759] N BE --> K- PI+ ANYTHING
[7760] N BE --> P K- ANYTHING
[7761] N BE --> P AP ANYTHING
[7762] N BE --> K+ PI- MU+ ANYTHING
[7763] N BE --> K+ PI- MUON ANYTHING
[7764] N BE --> K- PI+ MU- ANYTHING
[7765] N BE --> K- PI+ MUON ANYTHING
[7766] N BE --> P AP GAMMA ANYTHING
[7767] N BE --> K+ PI+ PI- MU- ANYTHING
[7768] N BE --> K- PI+ PI- MU+ ANYTHING
[7769] N C --> (NOT ENCODED)
[7770] N C --> ANYTHING
[7771] N C --> INELASTIC
[7772] N C --> DELO C
[7773] N C --> C DD < P PI- >
[7774] N C --> DD < P PI- > ANYTHING
[7775] N C --> DD < LAMBDA K+ PI- > ANYTHING
[7776] N C --> P PI- ANYTHING
[7777] N C --> C P PI-
[7778] N G --> ANYTHING
[7779] N AL --> (NOT ENCODED)
[7780] N AL --> ANYTHING
[7781] N AL --> INELASTIC
[7782] N AL --> AL P PI-
[7783] N FE --> (NOT ENCODED)
[7784] N FE --> ANYTHING
[7785] N FE --> INELASTIC
[7786] N CU --> (NOT ENCODED)
[7787] N CU --> ANYTHING
[7788] N CU --> INELASTIC
[7789] N CU --> DD DD < P PI- >
[7790] N CU --> DD < P PI- > ANYTHING
[7791] N CU --> P PI- ANYTHING
[7792] N CU --> CU P PI-
[7793] N CD --> (NOT ENCODED)
[7794] N CD --> ANYTHING
[7795] N CD --> INELASTIC
[7796] N CD --> CD P PI-
[7797] N SN --> ANYTHING
[7798] N WT --> (NOT ENCODED)
[7799] N WT --> ANYTHING
[7800] N WT --> INELASTIC
[7801] N PB --> (NOT ENCODED)
[7802] N PB --> ANYTHING
[7803] N PB --> INELASTIC
[7804] N PB --> DELO PB
[7805] N PB --> PB DD < P PI- >
[7806] N PB --> PB DD < P PI- > ANYTHING
[7807] N PB --> P PI- ANYTHING
[7808] N PB --> PB P PI-
[7809] N U --> U P PI-
[7810] N U --> ANYTHING
[7811] N U --> INELASTIC
[7812] N U --> U P PI-
[7813] N NUCLEUS --> (NOT ENCODED)
[7814] N NUCLEUS --> JPSI1310010
[7815] N NUCLEUS --> ANYTHING
[7816] N NUCLEUS --> PI+ PI- ANYTHING
[7817] N NUCLEUS --> JPSI(310010 ANYTHING
[7818] N NUCLEUS --> P NUCLEUS
[7819] N NUCLEUS --> N NUCLEUS
[7820] N NUCLEUS --> N*(UNSPECIF) NUCLEUS
[7821] N NUCLEUS --> LAMBDA ANYTHING
[7822] N NUCLEUS --> NUCLEUS DD < P PI- >
[7823] N NUCLEUS --> KNUCLEUS ANYTHING
[7824] N NUCLEUS --> ANYTHING CHARGED+
[7825] N NUCLEUS --> ANYTHING CHARGED-
[7826] N NUCLEUS --> ANYTHING NEUTRAL
[7827] N NUCLEUS --> MU- MU+ ANYTHING
[7828] N NUCLEUS --> NUCLEUS P PI-
[7829] N NUCLEUS --> OMEGA ANYTHING + RHOO ANYTHING
[7830] N W --> ANYTHING
[7831] AN P --> (NOT ENCODED)
[7832] AN P --> CHARGED
[7833] AN P --> ANYTHING
[7834] AN P --> N(PI0) PPBNG
[7835] AN P --> N(PI0) ANYTHING
[7836] AN P --> PI+ ETA
[7837] AN P --> PI+ RHO0
[7838] AN P --> PI+ CHEGA
[7839] AN P --> PI0 PI+
[7840] AN P --> AKO K+
[7841] AN P --> AN P
[7842] AN P --> NEUTRALS N(PRENG)
[7843] AN P --> 2PI+ PI-
[7844] AN P --> PI+ 2PI0
[7845] AN P --> N(PI0) 3PRENG
[7846] AN P --> 2PI+ PI0 PI-
[7847] AN P --> PI+ 3PI0
[7848] AN P --> 3PI+ 2PI-
[7849] AN P --> 2PI+ 2PIC PI-
[7850] AN P --> PI+ 4PI0
[7851] AN P --> N(PI0) 4PRONG

[7852] AN P --> 2PI+ 3PI0 PI-
[7853] AN P --> PI+ 5PI0
[7854] AN P --> 4PI+ 3PI-
[7855] AN P --> 3PI+ 2PI0 2PI-
[7856] AN P --> 2PI+ 4PI0 PI-
[7857] AN P --> PI+ 6PI0
[7858] AN P --> N(PI0) TPRONG
[7859] AN P --> ANYTHING
[7860] AN DEUT --> ANYTHING
[7861] AN FE --> ANYTHING
[7862] AN NUCLEUS --> ANYTHING
[7863] AN P --> (NOT ENCODED)
[7864] AP P --> GAMMA(S)
[7865] AP P --> PIONS
[7866] AP P --> N(PICHN)
[7867] AP P --> RHOO
[7868] AP P --> S(1630)0
[7869] AP P --> MESON(157010
[7870] AP P --> MESON(UNSPECI0
[7871] AP P --> MESONS
[7872] AP P --> HADRONS
[7873] AP P --> VEE(S)
[7874] AP P --> CHARGED
[7875] AP P --> NICHARGED
[7876] AP P --> QPRONG
[7877] AP P --> PRONG
[7878] AP P --> N(PRONG)
[7879] AP P --> NEUTRALS
[7880] AP P --> NEUTRAL(S)
[7881] AP P --> ANYTHING
[7882] AP P --> INELASTIC
[7883] AP P --> DD < QPRONG >
[7884] AP P --> DD < 1QPRONG >
[7885] AP P --> DD < 1&PRONG >
[7886] AP P --> DD < 2PRONG >
[7887] AP P --> DD < 3PRONG >
[7888] AP P --> DD < 4PRONG >
[7889] AP P --> DD < 2PRONG >
[7890] AP P --> NON-RES < P AP PI0 >
[7891] AP P --> NON-RES < P AN PI- > + N AP PI+ >
[7892] AP P --> ZGAMMA
[7893] AP P --> GAMMA HADRONS
[7894] AP P --> GAMMA ANYTHING
[7895] AP P --> GAMMA(S) MESONS
[7896] AP P --> GAMMA(S) HADRONS
[7897] AP P --> E- HADRONS
[7898] AP P --> E- ANYTHING
[7899] AP P --> E+ E-
[7900] AP P --> E+ HADRONS
[7901] AP P --> E+ ANYTHING
[7902] AP P --> MU+ MU-
[7903] AP P --> MU+ MU-
[7904] AP P --> MU+ HADRONS
[7905] AP P --> MU+ ANYTHING
[7906] AP P --> PION(S) PI-
[7907] AP P --> PICN(S) ETA
[7908] AP P --> PICN(S) RHOO
[7909] AP P --> PICN(S) CHEGA
[7910] AP P --> PICNS KAONS
[7911] AP P --> PION ANYTHING
[7912] AP P --> PIO(S) CHARGED
[7913] AP P --> PIO(S) QPRONG
[7914] AP P --> PIO(S) ANYTHING
[7915] AP P --> N(PI+) ANYTHING
[7916] AP P --> N(PI0) QPRONG
[7917] AP P --> N(PI0) ANYTHING
[7918] AP P --> N(PI-) ANYTHING
[7920] AP P --> PI+ RHO-
[7921] AP P --> PI+ A1(1100)-
[7922] AP P --> PI+ B(12351)-
[7923] AP P --> PI+ A2(1310)-
[7924] AP P --> PI+ ANYTHING
[7925] AP P --> 2PI0
[7926] AP P --> PI0 ETA
[7927] AP P --> PI0 RHO0
[7928] AP P --> PI0 CHEGA
[7929] AP P --> PI0 ETAPRIME
[7930] AP P --> PI0 S*(993)
[7931] AP P --> PI0 F
[7932] AP P --> PI0 B(12351)
[7933] AP P --> PI0 A2(1310)0
[7934] AP P --> PI0 E(1420)
[7935] AP P --> PI0 K0(1430)
[7936] AP P --> PI0 RHO0(MASS1650)0
[7937] AP P --> PI0 N(YEE)
[7938] AP P --> PI0 QPRONG
[7939] AP P --> PI0 N(PRONG)
[7940] AP P --> PI0 ANYTHING
[7941] AP P --> PI- PI+
[7942] AP P --> PI- RHO+
[7943] AP P --> PI- A1(1100)+
[7944] AP P --> PI- B(12351)+
[7945] AP P --> PI- A2(1310)+
[7946] AP P --> PI- A3(1640)+
[7947] AP P --> PI- G(1680)+
[7948] AP P --> PI- ANYTHING
[7949] AP P --> ZETA

[7950] AP P --> ETA OMEGA
[7951] AP P --> ETA D(1285)
[7952] AP P --> ETA F(1154010
[7953] AP P --> ETA ANYTHING
[7954] AP P --> N(PRONG) QPRONG
[7955] AP P --> RHO+ A2(1310)-
[7956] AP P --> RHO+ ANYTHING
[7957] AP P --> 2RHOO
[7958] AP P --> RHOO OMEGA
[7959] AP P --> RHOO S*(993)
[7960] AP P --> RHOO F
[7961] AP P --> RHOO D(1285)
[7962] AP P --> RHOO A2(1310)0
[7963] AP P --> RHOO OPRONG
[7964] AP P --> RHOO ANYTHING
[7965] AP P --> RHO- A2(1310)+
[7966] AP P --> RHO- ANYTHING
[7967] AP P --> OMEGA 2CHEGA
[7968] AP P --> OMEGA S*(993)
[7969] AP P --> OMEGA PHI
[7970] AP P --> OMEGA F
[7971] AP P --> OMEGA D(1285)
[7972] AP P --> OMEGA E(1420)
[7973] AP P --> OMEGA E(1480)0
[7974] AP P --> OMEGA ANYTHING
[7975] AP P --> 2PHI
[7976] AP P --> 2F
[7977] AP P --> F ANYTHING
[7978] AP P --> F(1154010 NEUTRAL(S)
[7979] AP P --> N(K5) QPRONG
[7980] AP P --> N(K5) ANYTHING
[7981] AP P --> K+ ANYTHING
[7982] AP P --> KO NEUTRAL(S)
[7983] AP P --> KO ANYTHING
[7984] AP P --> KS
[7985] AP P --> KS K+(8921O
[7986] AP P --> KS K+(142010
[7987] AP P --> KS N(YEE)
[7988] AP P --> KS QPRONG
[7989] AP P --> KS N(PRONG)
[7990] AP P --> KS MU+E-O
[7991] AP P --> KS ANYTHING
[7992] AP P --> KL KS
[7993] AP P --> AKO KO
[7994] AP P --> KL ANYTHING
[7995] AP P --> K- K+
[7996] AP P --> K- K+(8921+
[7997] AP P --> K- K+(1421O+
[7998] AP P --> K- K+(UNSPECI+
[7999] AP P --> K- ANYTHING
[8000] AP P --> K+(8921+ ANYTHING
[8001] AP P --> AK+(89210 K+(85210
[8002] AP P --> K+(8921- K0
[8003] AP P --> K+(8921- K+(8921+
[8004] AP P --> K+(1421O- K+(1421O+
[8005] AP P --> K+(1421O- K+
[8006] AP P --> K+(UNSPEC)- K-
[8007] AP P --> K+ P PROTON
[8008] AP P --> P ANYTHING
[8009] AP P --> P DD
[8010] AP P --> P DD < &GT.1PRONG >
[8011] AP P --> P DD < &GT.&PRONG >
[8012] AP P --> P DD < AP PIO >
[8013] AP P --> P DD < &GT.3PRONG >
[8014] AP P --> P DD < AN PI- >
[8015] AP P --> P DD < AP PI+ PI- >
[8016] AP P --> AN N
[8017] AP P --> AN ANYTHING
[8018] AP P --> ADELO DELO
[8019] AP P --> AP N(1470+1
[8020] AP P --> AP N(1730)0+
[8021] AP P --> AP N*(UNSPECI+
[8022] AP P --> AP ANYTHING
[8023] AP P --> AP DD
[8024] AP P --> AP DD < P PI+ PI- >
[8025] AP P --> AP N(1700)0- P
[8026] AP P --> DEL++ ANYTHING
[8027] AP P --> ADELO DELO
[8028] AP P --> ADEL- P
[8029] AP P --> ADEL-- DEL++
[8030] AP P --> LAMBDA N(PRONG)
[8031] AP P --> LAMBDA NEUTRAL(S)
[8032] AP P --> LAMBDA ANYTHING
[8033] AP P --> ALAMBDA LAMBDA
[8034] AP P --> ALAMBDA SIGMAO
[8035] AP P --> ALAMBDA N*(UNSPECIO
[8036] AP P --> ALAMBDA N(PRONG)
[8037] AP P --> ALAMBDA NEUTRAL(S)
[8038] AP P --> ALAMBDA ANYTHING
[8039] AP P --> N(LAMBDA) OPRONG
[8040] AP P --> N(LAMBDA) ANYTHING
[8041] AP P --> ASIGMA+ SIGMA+
[8042] AP P --> ASIGMA+ SIGMA-
[8043] AP P --> ASIGMAO LAMBDA
[8044] AP P --> ASIGMAO SIGMA+
[8045] AP P --> ASIGMAO SIGMA-
[8046] AP P --> ASIG(1385P13)+ SIG(1385P13)-
[8047] AP P --> ASIG(1385P13)- SIG(1385P13)+

REACTION/MOMENTUM INDEX — LIST OF REACTIONS (CONT'D)

[8048] AP P --> AXI+ PI-
[8049] AP P --> AXI0 PIO
[8050] AP P --> HYPERON ANYTHING
[8051] AP P --> HADRON- HADRON+
[8052] AP P --> QPRONG VEE
[8053] AP P --> 2PRONG
[8054] AP P --> NEUTRALS CHARGED
[8055] AP P --> NEUTRALS >GT.7PRONG
[8056] AP P --> NEUTRALS >GT.4PRONG
[8057] AP P --> NEUTRALS >GT.2PRONG
[8058] AP P --> ANYTHING VEE
[8059] AP P --> ANYTHING CHARGED+
[8060] AP P --> ANYTHING CHARGED-
[8061] AP P --> ANYTHING PRONG
[8062] AP P --> 2GAMMA ANYTHING
[8063] AP P --> E- E+ NEUTRALS
[8064] AP P --> E- E+ ANYTHING
[8065] AP P --> MU- MU+ ANYTHING
[8066] AP P --> PI(S) PI0(S) PI-(S)
[8067] AP P --> PI0(S) 2PRONG
[8068] AP P --> NIPI0 2PRONG
[8069] AP P --> PI+ PI0 PI-
[8070] AP P --> PI+ PI- PI0S
[8071] AP P --> PI+ PI- MM.GE.2
[8072] AP P --> PI+ PI- NEUTRALS
[8073] AP P --> PI0 E+ E-
[8074] AP P --> 3PI0
[8075] AP P --> PI0 2PRONG
[8076] AP P --> ETA 2PI+ 2PI-
[8077] AP P --> ETA 2PI0
[8078] AP P --> NRHO0(1 2PRONG
[8079] AP P --> RHO+ RHO0 PI-
[8080] AP P --> RHO0 PI+ PI-
[8081] AP P --> RHO0 2PI0PI0(700)
[8082] AP P --> 2RHO0 PI0
[8083] AP P --> 3RHO0
[8084] AP P --> RHO0 RHO- PI+
[8085] AP P --> RHO0 2PRONG
[8086] AP P --> OMEGA 2PI+ PI-
[8087] AP P --> ETAPRIME PI+ PI-
[8088] AP P --> DELTA(97C)+ OMEGA PI-
[8089] AP P --> DELTA(970)0 PI+ PI-
[8090] AP P --> DELTA(97C)- OMEGA PI+
[8091] AP P --> S*(993) PI+ PI-
[8092] AP P --> PHI PI+ PI-
[8093] AP P --> F PI+ PI-
[8094] AP P --> F RHO+ PI-
[8095] AP P --> F RHO0 PI0
[8096] AP P --> F 2PI+ 2PI-
[8097] AP P --> D(1285) PI+ PI-
[8098] AP P --> A2(1310)+ PI0 PI-
[8099] AP P --> A2(1310)0 PI+ PI-
[8100] AP P --> A2(1310)- PI+ PI0
[8101] AP P --> E(1420) PI+ PI-
[8102] AP P --> X0(1430) PI+ PI-
[8103] AP P --> F(1600) PI+ PI-
[8104] AP P --> A3(1640)0 PI+ PI-
[8105] AP P --> N(K5) 2PRONG
[8106] AP P --> K+ K- ANYTHING
[8107] AP P --> K+ K5 PI-
[8108] AP P --> K+ K- RHO0
[8109] AP P --> K+ K- OMEGA
[8110] AP P --> K+ K- PHI
[8111] AP P --> K+ K- VEE
[8112] AP P --> K0 AK0 ANYTHING
[8113] AP P --> K5 K5 PIONS
[8114] AP P --> 2K5 PI0S
[8115] AP P --> 2K5 PI0
[8116] AP P --> 2K5 ETA
[8117] AP P --> 2K5 RHO0
[8118] AP P --> 2K5 OMEGA
[8119] AP P --> 2K5 ANYTHING
[8120] AP P --> K5 K- RHO0
[8121] AP P --> K5 K- PI+
[8122] AP P --> K5 2PRONG
[8123] AP P --> K0IN K0IN ANYTHING
[8124] AP P --> K*(892)+ K*(892)- PI0
[8125] AP P --> K*(892)0 K+ PI-
[8126] AP P --> K*(892)0 AK0 OMEGA
[8127] AP P --> K*(892)0 K- PI+
[8128] AP P --> K*(892)0 K*(892)- PI+
[8129] AP P --> AK*(892)0 K+ PI-
[8130] AP P --> P AN PI-
[8131] AP P --> P AP GAMMA
[8132] AP P --> P AP PI0
[8133] AP P --> P AP ETA
[8134] AP P --> P AP OMEGA
[8135] AP P --> P AP ANYTHING
[8136] AP P --> P ADEL+ PI-
[8137] AP P --> P ADEL-- PI+
[8138] AP P --> P ALAMBDA K-
[8139] AP P --> N AP PI-
[8140] AP P --> AP DEL++ PI-
[8141] AP P --> AP CEL0 PI+
[8142] AP P --> AP LAMBDA K+
[8143] AP P --> NUCLEON ANUCLEON ANYTHING
[8144] AP P --> DEL++ ADEL-- PI0
[8145] AP P --> LAMBDA K5 ANYTHING
[8146] AP P --> LAMBDA ALAMBDA PI0S

[8147] AP P --> LAMBDA ALAMBDA PI0
[8148] AP P --> LAMBDA ALAMBDA ANYTHING
[8149] AP P --> LAMBDA ASIG(1385P13)+ PI+
[8150] AP P --> ALAMBDA SIG(1385P13)+ PI-
[8151] AP P --> N(LAMBDA) 2PRONG
[8152] AP P --> LAMBDA(1520) PI0
[8153] AP P --> HADRON+ HADRON- NEUTRALS
[8154] AP P --> 2VEE 0PRONG
[8155] AP P --> 2VEE ANYTHING
[8156] AP P --> VEE 2PRONG
[8157] AP P --> 2CHARGED- ANYTHING
[8158] AP P --> 2GAMMA ANYTHING
[8159] AP P --> 2PI+ 2PI-
[8160] AP P --> PI+ 2PI0 PI-
[8161] AP P --> 4PI0
[8162] AP P --> 2EPSILON(700) PI+ PI-
[8163] AP P --> RHO+ PI+ 2PI-
[8164] AP P --> RHO0 2PI+ PI-
[8165] AP P --> RHO0 PI+ PI0 PI-
[8166] AP P --> RHO0 PI+ PI- NEUTRALS
[8167] AP P --> 2RHO0 PI+ PI-
[8168] AP P --> RHO- 2PI+ PI0
[8169] AP P --> OMEGA RHO0 PI+ PI-
[8170] AP P --> F PI+ PI0 PI-
[8171] AP P --> F RHO0 PI+ PI-
[8172] AP P --> D(1285) PI+ PI0 PI-
[8173] AP P --> A2(1310)+ PI+ [illegible]
[8174] AP P --> A2(1310)- PI+ [illegible]
[8175] AP P --> E(1420) PI+ PI0 PI-
[8176] AP P --> G(1680)0 PI+ PI0 PI-
[8177] AP P --> 2K+ 2K-
[8178] AP P --> K+ K0 AK0 K-
[8179] AP P --> K+ K5 PI0 PI-
[8180] AP P --> K+ K5 PI- PI0S
[8181] AP P --> K+ K5 PI- ANYTHING
[8182] AP P --> K+ K5 ETA PI-
[8183] AP P --> K+ K5 OMEGA PI-
[8184] AP P --> K+ 2K5 K-
[8185] AP P --> K+ 2K5 K- K-
[8186] AP P --> K+ ANO PI- ANYTHING
[8187] AP P --> K+ K- PI+ PI-
[8188] AP P --> K+ K- 2PI0
[8189] AP P --> K+ K- 2VEE
[8190] AP P --> 2K0 2AK0
[8191] AP P --> K0 K5 PI+ PI-
[8192] AP P --> K0 K5 PI0 PI0
[8193] AP P --> K5 2GAMMA ANYTHING
[8194] AP P --> K5 PI+ PI- ANYTHING
[8195] AP P --> K5 K5 PI+
[8196] AP P --> 2K5 2PI0
[8197] AP P --> 2K5 ETA PI0
[8198] AP P --> 2K5 RHO0 PI0
[8199] AP P --> 3K5
[8200] AP P --> 3K5 K-
[8201] AP P --> 2K5 2K-
[8202] AP P --> 2K5 K- PI+ PI-
[8203] AP P --> K5 K- PI+ PI0
[8204] AP P --> K5 K- PI+ ANYTHING
[8205] AP P --> K5 K- ETA PI+
[8206] AP P --> K5 K- OMEGA PI+
[8207] AP P --> K*(892)0 K5 PI+ PI-
[8208] AP P --> P 2ETA PI0
[8209] AP P --> P 2P 2AP
[8210] AP P --> P AP PI+ PI-
[8211] AP P --> P AP K+ K-
[8212] AP P --> P ADEL++ PI+ PI0
[8213] AP P --> P 3PRONG
[8214] AP P --> N AN PI+ PI-
[8215] AP P --> AN LAMBDA K0 PIOS
[8216] AP P --> AN LAMBDA K0 PIOS
[8217] AP P --> AP DEL++ PI0 PI-
[8218] AP P --> DEL++ ADEL-- PI+ PI-
[8219] AP P --> N(LAMBDA GAMMA ANYTHING
[8220] AP P --> LAMBDA PI+ PI- ANYTHING
[8221] AP P --> LAMBDA ALAMBDA PI+ PI-
[8222] AP P --> 3VEE 0PRONG
[8223] AP P --> 4PRONG
[8224] AP P --> PI0(S) 4PRONG
[8225] AP P --> NEUTRALS 4PRONG
[8226] AP P --> 2PI+ PI0 2PI-
[8227] AP P --> 2PI+ 2PI- PI0S
[8228] AP P --> 2PI+ 2PI- MM.GE.2
[8229] AP P --> 2PI+ 2PI- NEUTRALS
[8230] AP P --> PI+ 3PI0 PI-
[8231] AP P --> 5PI0
[8232] AP P --> ETA 4PRONG
[8233] AP P --> ETA 2PI+ 2PI-
[8234] AP P --> NRHO0(1 4PRONG
[8235] AP P --> OMEGA 2PI+ 2PI-
[8236] AP P --> RHO0 2EPSILON(700) PI+ PI-
[8237] AP P --> 2RHO0 PI+ PI0 PI-
[8238] AP P --> RHO0 4PRONG
[8239] AP P --> OMEGA 2PI+ 2PI-
[8240] AP P --> DELTA(970)+ PI+ PI0 2PI-
[8241] AP P --> DELTA(970)- 2PI+ PI0 PI-
[8242] AP P --> F 2PI+ 2PI-
[8243] AP P --> N(K5) 4PRONG
[8244] AP P --> 2K+ 2K- PI0

[8245] AP P --> K+ K5 PI+ 2PI-
[8246] AP P --> K+ K5 2PI0 PI-
[8247] AP P --> K+ K- PI+ PI0 PI-
[8248] AP P --> K0 K5 PI+ PI- PI(S)
[8249] AP P --> 2K5 PI+ PI0 PI-
[8250] AP P --> 2K5 PI+ PI- PI0S
[8251] AP P --> 2K5 OMEGA PI+ PI-
[8252] AP P --> K5 K- 2PI+ PI-
[8253] AP P --> K5 K- PI+ 2PI0
[8254] AP P --> K5 4PRONG
[8255] AP P --> P AN PI+ 2PI-
[8256] AP P --> P AP PI+ PI0 PI-
[8257] AP P --> P AP PI+ PI- ANYTHING
[8258] AP P --> N AN PI+ PI0 PI-
[8259] AP P --> N AP 2PI+ PI-
[8260] AP P --> LAMBDA ALAMBDA PI+ PI0 PI-
[8261] AP P --> N(LAMBDA) 4PRONG
[8262] AP P --> 4VEE 0PRONG
[8263] AP P --> VEE 4PRONG
[8264] AP P --> 6GAMMA
[8265] AP P --> 3PI+ 3PI-
[8266] AP P --> 2PI+ 2PI0 2PI-
[8267] AP P --> PI+ 4PI0 PI-
[8268] AP P --> 6PI0
[8269] AP P --> RHO0 2PI+ PI0 2PI-
[8270] AP P --> RHO0 2PI+ 2PI- NEUTRALS
[8271] AP P --> K+ K5 PI+ PI0 2PI-
[8272] AP P --> K+ K5 PI+ PI0 2PI- PI0S
[8273] AP P --> K+ K- 2PI+ 2PI-
[8274] AP P --> K0 K5 2PI+ 2PI-
[8275] AP P --> K0 AK0 2PI+ 2PI-
[8276] AP P --> 2K5 2PI+ 2PI-
[8277] AP P --> 2K5 PI+ 2PI0 PI-
[8278] AP P --> 2K5 K5 PI+ 2PI-
[8279] AP P --> 2K5 K5 K- PI0 PI-
[8280] AP P --> K*(892)0 K5 2PI+ 2PI-
[8281] AP P --> 2P 2AP PI+ PI-
[8282] AP P --> P AP 2PI+ 2PI-
[8283] AP P --> P AP 2K+ 2K-
[8284] AP P --> P 5PRONG
[8285] AP P --> LAMBDA ALAMBDA 2PI+ 2PI-
[8286] AP P --> 6PRONG
[8287] AP P --> PI(S) 6PRONG
[8288] AP P --> N(PI0) 6PRONG
[8289] AP P --> 3PI+ 3PI-
[8290] AP P --> 3PI+ 3PI- PI0S
[8291] AP P --> 3PI+ 3PI- MM.GE.2
[8292] AP P --> 3PI+ 3PI- NEUTRALS
[8293] AP P --> 2PI+ 3PI0 2PI-
[8294] AP P --> PI+ 5PI0 PI-
[8295] AP P --> 7PI0
[8296] AP P --> PI0 6PRONG
[8297] AP P --> N(RHO0) 6PRONG
[8298] AP P --> RHO0 3PI+ 3PI-
[8299] AP P --> K0 K5 2PI+ 2PI- PI0(S)
[8300] AP P --> OMEGA 3PI+ 3PI-
[8301] AP P --> N(K5) 6PRONG
[8302] AP P --> K0 K5 2PI+ 2PI- PI0(S)
[8303] AP P --> 2K5 2PI+ PI0 2PI-
[8304] AP P --> 2K5 2PI+ 2PI- PI0S
[8305] AP P --> K5 6PRONG
[8306] AP P --> P AP 2PI+ PI0 2PI-
[8307] AP P --> N(LAMBDA) 6PRONG
[8308] AP P --> VEE 4PRONG
[8309] AP P --> 4PI+ 4PI-
[8310] AP P --> 3PI+ 2PI0 3PI-
[8311] AP P --> 2PI+ 4PI0 2PI-
[8312] AP P --> RHO0 3PI+ 3PI-
[8313] AP P --> K5 3PI+ 3PI- ANYTHING
[8314] AP P --> P AP 3PI+ 3PI-
[8315] AP P --> P 7PRONG
[8316] AP P --> 8PRONG
[8317] AP P --> N(PI0) 8PRONG
[8318] AP P --> 4PI+ 4PI- PI0S
[8319] AP P --> 4PI+ 4PI- MM.GE.2
[8320] AP P --> 3PI+ 3PI0 3PI-
[8321] AP P --> 3PI+ 3PI- 2PI0
[8322] AP P --> 2PI+ 5PI0 2PI-
[8323] AP P --> PI0 8PRONG
[8324] AP P --> N(RHO0) 8PRONG
[8325] AP P --> RHO0 8PRONG
[8326] AP P --> N(K5) 8PRONG
[8327] AP P --> K5 8PRONG
[8328] AP P --> N(LAMBDA) 8PRONG
[8329] AP P --> VEE 6PRONG
[8330] AP P --> 5PI+ 5PI-
[8331] AP P --> 4PI+ 2PI0 4PI-
[8332] AP P --> 3PI+ 4PI0 3PI-
[8333] AP P --> P AP 4PI+ 4PI-
[8334] AP P --> P 9PRONG
[8335] AP P --> 10PRONG
[8336] AP P --> N(PI0) 10PRONG
[8337] AP P --> 5PI+ PI0 5PI-
[8338] AP P --> 5PI+ 5PI- PI0S
[8339] AP P --> 4PI+ 3PI0 4PI-
[8340] AP P --> 3PI+ 5PI0 3PI-
[8341] AP P --> PI0 10PRONG
[8342] AP P --> N(RHO0) 10PRONG

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[8343] AP P --> RHO0 10PRONG
[8344] AP P --> NIKS1 10PRONG
[8345] AP P --> KS 10PRONG
[8346] AP P --> N(LAMBDA) 10PRONG
[8347] AP P --> VEE 10PRONG
[8348] AP P --> P 11PRONG
[8349] AP P --> 12PRONG
[8350] AP P --> N1PI01 12PRONG
[8351] AP P --> PI0 12PRONG
[8352] AP P --> N1RHO01 12PRONG
[8353] AP P --> RHO0 12PRONG
[8354] AP P --> N(1685) 12PRONG
[8355] AP P --> KS 12PRONG
[8356] AP P --> N(LAMBDA)I 12PRONG
[8357] AP P --> 14PRONG
[8358] AP P --> PI0 14PRONG
[8359] AP P --> N1RHC01 14PRONG
[8360] AP P --> RHO0 14PRONG
[8361] AP P --> KS 14PRONG
[8362] AP P --> 16PRON6
[8363] AP P --> PI0 16PRONG
[8364] AP P --> KS 16PRONG
[8365] AP P --> PI0 18PRONG
[8366] AP P --> C + AKO K*(8921)0
[8367] AP P --> NEUTRALS - AN N
[8368] AP P --> CC + N AKO 2PI+ PI-
[8369] AP P --> CC + AP CEL++ PI-
[8370] AP P --> PI+ RHO- + PI- P+C+
[8371] AP P --> PI- CMEGAPI(11601- + PI- CMEGAPI(11601+
[8372] AP P --> PI+ BI12351- + PI- BI12351+
[8373] AP P --> PI+ OMEGAPI(12401- + PI- OMEGAPI(12401+
[8374] AP P --> PI+ A2(13101- + PI- A2(13101+
[8375] AP P --> PI- PI+ + PI- PI+
[8376] AP P --> K0 CC + K+ K0 PI-
[8377] AP P --> K0 CC + K- K0 PI+
[8378] AP P --> K- CC + K0 K- RHO+
[8379] AP P --> K- K+ + K- K+
[8380] AP P --> AK*(8921)0 K0 + AKO K*(8920
[8381] AP P --> K*(8921- K+ + K- K*(8921+
[8382] AP P --> QL0W(1240)- K+ + K- QL0W(1240)+
[8383] AP P --> Q1(240-14000)- K+ + K- Q1(243-1400)+
[8384] AP P --> AK*(142030 K0 + AKO K*(14201
[8385] AP P --> K*(1420- K+ + K- K*(1420)+
[8386] AP P --> P OD < AN PI- > + AP OD < N PI+ >
[8387] AP P --> P OD < AP PI3 > + AP OD < P PI0 >
[8388] AP P --> AN N1(520013)0 + AN(1520013)0 N
[8389] AP P --> AN N1(5208)0 + AN(1520810)0 N
[8390] AP P --> AN N1(688F1510 + AN(1688F1510 N
[8391] AP P --> AN N1(70081)0 + AN1(70080)0 P
[8392] AP P --> AN CELO + AOELO N
[8393] AP P --> AP N1(14708)+ + AN(14708)- P
[8394] AP P --> AP N1(688F151+ + AN(1688F151)- P
[8395] AP P --> AP N1(70081+ + AN1(70081- P
[8396] AP P --> AP DEL+ + ADEL- P
[8397] AP P --> LAMBDA N1VEE1 + SIGMA0 N1VEE1
[8398] AP P --> LAMBDA OPRONG + ALAMBDA OPRONG
[8399] AP P --> LAMBDA OPRONG + SIGMA0 OPRONG
[8400] AP P --> LAMBDA N1PRONG1 + SIGMA0 N1PRONG1
[8401] AP P --> LAMBDA ANYTHING + SIGMA0 ANYTHING
[8402] AP P --> LAMBDA ANYTHING + CC ANYTHING
[8403] AP P --> ALAMBCA LAM(1405501) + ALA(1405501) LAMBDA
[8404] AP P --> ALAMBDA SIGMA0 + ASIGMA0 LAMBDA
[8405] AP P --> ASIGMA+ SIGMA- + ASIGMA- SIGMA+
[8406] AP P --> ASIG(1385P1310 LAM(1520003) + ALAM(1520003) SIG(1385P1310
[8407] AP P --> RHO+ RH00 PI- + RH00 RHO- PI+
[8408] AP P --> DELTA(970)+ OMEGA PI- + DELTA(970)- OMEGA PI+
[8409] AP P --> A1(11001- PI0 PI- + A1(11001+ PI+ PI0

[8410] AP P --> A2(13101+ PI0 PI- + A2(13101-) PI+ PI0
[8411] AP P --> A2(13101+ RH00 PI+ + A2(13101- RH00 PI-
[8412] AP P --> A2(16401+ PI0 PI- + A2(1640)- PI+ PI0
[8413] AP P --> K+ KS PI- + KS K- PI+
[8414] AP P --> K+ KS RH0- + KS K- RH0+
[8415] AP P --> K+ KS KL RH0- + KL K- RH0+
[8416] AP P --> K+ AK0 PI- + K0 K- PI+
[8417] AP P --> K+ AK0 RH0- + K0 K- RH0+
[8418] AP P --> K+ KS PI+ ANYTHING + KS PI- ANYTHING
[8419] AP P --> KS PI0 CC + KS K- PI+ PI0I
[8420] AP P --> K*(892)+ KS PI- + K*(892)- KS PI+
[8421] AP P --> K*(8521+ K- PI0 + K*(892)- K+ PI0
[8422] AP P --> K*(8521+ K- OMEGA + K*(8921- K+ CMEGA
[8423] AP P --> K*(89210 K5 OMEGA + AK*(8521) K5 EMEGA
[8424] AP P --> K*(89210 AK0 PI0 + AK*(85210 K0 PI0
[8425] AP P --> K*(8921) K- PI+ + AK*(8521)0 K+ PI-
[8426] AP P --> K*(14201+ K5 PI- + K*(14201- K5 PI+
[8427] AP P --> K*(14201+ K- PI0 + K*(14201- K+ PI0
[8428] AP P --> K*(142010 AK0 PI0 + AK*(142010 K0 PI0
[8429] AP P --> P AN P+ + P AN N AP PI+
[8430] AP P --> P AN(1700810 PI- + AP N(17008)0 PI+
[8431] AP P --> P ADEL-- PI+ + AP OEL++ PI-
[8432] AP P --> P ALAMBDA K- + AP LAMBDA K+
[8433] AP P --> P ALAMBDA K*(8921- + AP LAMBDA K*(8921+
[8434] AP P --> P ASIGMA0 K- + AP SIGMA0 K+
[8435] AP P --> P ASIGMA- AK3 + AP SIGMA+ K0
[8436] AP P --> P ASIG(1385P1310 K- + AP SIG(1385P1310 K+
[8437] AP P --> N ALAMBDA AK0 + AN LAMBDA K0
[8438] AP P --> DEL+ ALAMBDA K- + ADEL- LAMBDA K+
[8439] AP P --> DELO ALAMBDA AK0 + ADELO LAMBDA K0
[8440] AP P --> LAMBDA KS ANYTHING + ALAMBCA KS ANYTHING
[8441] AP P --> LAMBDA LAM(1520003) PIO + ALAMBDA LAM(1520003) PIO
[8442] AP P --> LAMBDA ASIGMA+ PI- + ALAMBDA SIGMA- AP
[8443] AP P --> LAMBCA ASIGMA- PI- + ALAMBDA SIGMA+ PI-
[8444] AP P --> LAMBCA 2PRONG + ALAMBCA 2PRONG
[8445] AP P --> LAMBCA 2PRONG + SIGMA0 2PRONG
[8446] AP P --> SIGMA+ ASIGMA0 PI- + SIGMA0 ASIGMA- PI+
[8447] AP P --> SIGMA+ ASIGMA- PIO + SIGMA- ASIGMA+ PIO
[8448] AP P --> SIGMA0 ASIGMA+ PI- + SIGMA- ASIGMA0 PI+
[8449] AP P --> XI0 AX1+ PI- + XI- AX10 PI+
[8450] AP P --> RHC+ PI+ 2PI- + RHO- 2PI+ PI-
[8451] AP P --> DELTA(970)+ PI+ 2PI- + DELTA(970)- 2PI+ PI-
[8452] AP P --> A2(13101+ PI+ 2PI- + A2(13101- 2PI+ PI-
[8453] AP P --> K+ KS PI0 PI- + KS K- PI+ PI0
[8454] AP P --> K+ KS PI- PI0S + KS K- PI+ PI0S
[8455] AP P --> K+ KS RH00 PI- + KS K- RH00 PI+
[8456] AP P --> K+ KS OMEGA PI- + KS K- OMEGA PI+
[8457] AP P --> K+ AK0 PI0 PI- + K0 K- PI+ PI0
[8458] AP P --> 2KS RH0+ PI- + 2KS RH0- PI+
[8459] AP P --> K*(892)+ KS PI0 PI- + K*(892)- KS PI+ PI0
[8460] AP P --> K*(892)+ K- PI+ PI- + K*(892)- K+ PI- PI+
[8461] AP P --> K*(892)+ AK*(892)0 PI0 PI- + K*(8921)0 K*(892)- PI0 PI-
[8462] AP P --> K*(8521)0 KS PI+ PI- + AK*(89210 KS PI- PI+

[8463] AP P --> P ADEL-- PI+ PI0 + AP DEL++ PI0 PI-
[8464] AP P --> P ALAMBDA AK0 PI- + AP LAMBDA K0 PI+
[8465] AP P --> P ALAMBDA K- PI0 + AP SIGMA0 K0 PI+
[8466] AP P --> P ASIGMA0 AK0 PI- + AP SIGMA0 K0 PI+
[8467] AP P --> P ASIGMA- AK0 PI0 + AP SIGMA+ K0 PI0
[8468] AP P --> N ALAMBDA K- PI+ + AN SIGMA0 K0 PI+
[8469] AP P --> N ASIGMA- AK0 PI+ + AN SIGMA+ K0 PI-
[8470] AP P --> LAMBDA ASIGMA+ PI0 PI- + ALAMBDA SIGMA- PI0
[8471] AP P --> LAMBDA ASIGMA0 PI0 PI- + ALAMBDA SIGMA0 PI0 PI+
[8472] AP P --> LAMBDA ASIGMA- PI+ PI0 + ALAMBOA SIGMA+ PI0 PI-
[8473] AP P --> SIGMA+ ASIGMA- PI+ PI- + SIGMA- ASIGMA+ PI+ PI-
[8474] AP P --> DELTA(970)+ PI+ PI0 2PI- + DELTA(970)- 2PI+ PIC PI-
[8475] AP P --> K+ K- KS PI+ 2PI- + KS K- 2PI+ PI-
[8476] AP P --> K*(892)+ KS PI+ 2PI- + K*(892)- KS 2PI+ PI-
[8477] AP P --> P AN PI+ 2PI- + N AP 2PI+ PI-
[8478] AP P --> P ADEL-- 2PI+ PI- + AP DEL++ PI+ 2PI-
[8479] AP P --> P ALAMBDA K- PI+ PI- + AP LAMBDA K+ PI+ PI-
[8480] AP P --> N ALAMBDA AK0 PI+ PI- + AN LAMBDA K0 PI+ PI-
[8481] AP P --> LAMBDA ASIGMA+ PI+ 2PI- + ALAMBDA SIGMA- 2PI+ PI-
[8482] AP P --> LAMBDA ASIGMA0 2PI+ PI- + ALAMBDA SIGMA0 PI+ 2PI-
[8483] AP P --> LAMBDA APRONG + ALAMBDA APRONG
[8484] AP P --> LAMBDA APRONG + SIGMA0 +PRONG
[8485] AP P --> RH0+ 2PI+ 3PI- + RH0- 3PI+ 2PI-
[8486] AP P --> K+ KS PI+ PI0 2PI- + KS K- 2PI+ PI0 PI-
[8487] AP P --> K+ KS PI- 2PI+ PI0S + KS K- 2PI+ PI- PI0S
[8488] AP P --> K*(892)+ KS PI0 PI0 2PI- + K*(892)- KS 2PI+ PI0 PI0
[8489] AP P --> P AN 2PI+ 3PI- + N AP 3PI+ 2PI-
[8490] AP P --> LAMBDA &PRONG + ALAMBDA &PRONG
[8491] AP P --> LAMBDA &PRONG + SIGMA0 &PRONG
[8492] AP P --> K+ KS 2PI+ 3PI- ANYTHING + KS K- 3PI+ 2PI- ANYTHING
[8493] AP P --> LAMBDA &PRONG + ALAMBDA &PRONG
[8494] AP P --> LAMBDA &PRONG + :IGMA0 &PRONG
[8495] AP P --> LAMBDA 10PRONG + ALAMBDA 10PRONG
[8496] AP P --> LAMBDA 10PRONG + SIGMA0 10PRONG
[8497] AP P --> LAMBDA 12PRONG + ALAMBDA 12PRONG
[8498] AP P --> LAMBDA 12PRONG + SIGMA0 12PRONG
[8499] AP P --> LAMBDA 14PROAG + ALAMBDA 14PPGNG
[8500] AP P --> LAMBDA 14PRONG + SIGMA0 14PRONG
[8501] AP P --> LAMBDA 16PRONG + ALAMBDA 16PRONG
[8502] AP P --> LAMBDA 16PRONG + SIGMA0 16PRONG
[8503] AP P --> - 2PI+ PIO 2PI- + 2PI+ 2PI- AM=GEx1
[8504] AP P --> AP P + 2PRCAG
[8505] AP P --> - AP P + 4PRONG
[8506] AP P --> - AP P + 6PRONG
[8507] AP P --> 2KS RH0+ PI- + 2KS RH00 PI0 + 2KS RH0- PI+
[8508] AP P --> SIGMA+ ASIGMA- 2PI- + SIGMA- ASIGMA- PI+ PI- + SIGMA- ASIGMA- P AP PI+
[8509] AP P --> AK*(8921)0 K0 + AK*(892)- K+ + AKO K*(8921)0 K- K*(892)+
[8510] AP P --> LAMBDA ASIGMA+ PI0 PI- + LAMBDA ASIGMA- PI+ PI0 + ALAMBDA SIGMA+ PI0 PI- + ALAMEDA SIGMA- PI+ PI0
[8511] AP P --> K*(892)+ AKO PI+ 2PI- + K*(892)+ K- PI+ PI3 PI- + K*(892)- K+ PI+ PI0 PI- + K*(892)- K0 2PI+ PI-

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[8512] AP P --> K*(892)0 AKO PI+ PI0 PI- [[8606] AP N --> EPRONG [[8701] AP NE --> E+ ANYTHING
+ K*(892)0 K- 2PI+ PI- + [[8607] AP N --> 5PION [[8702] AP NE --> MU+ ANYTHING
AK*(892)0 K+ PI+ 2PI- + AK*(892)0 [[8608] AP N --> 4PI+ 5PI- [[8703] AP NE --> PI+ ANYTHING
KO PI+ PI0 PI- [[8609] AP N --> 5PRONG [[8704] AP NE --> PI- ANYTHING
[8513] AP P --> - PI+ PI0 UNSPEC+ + PI+ [[8610] AP N --> 1OPION [[8705] AP AL --> (NOT ENCODED)
UNSPEC- MM,GE.1 - PI0 PI- UNSPEC+([[8611] AP N --> 4PI+ PI0 5PI- [[8706] AP AL --> ANYTHING
+ PI- UNSPEC+ MM,GE.1 [[8612] AP N --> 11PION [[8707] AP FE --> (NOT ENCODED)
[8514] AP N --> (NOT ENCODED) [[8613] AP N --> 11PRONG [[8708] AP FE --> ANYTHING
[8515] AP N --> ANY(19351- [[8614] AP N --> 13PRONG [[8709] AP CU --> (NOT ENCODED)
[8516] AP N --> PRONG [[8615] AP N --> K+ AK0 2PI- + K+ K- PI0 [[8710] AP CU --> ANYTHING
[8517] AP N --> N1PRONG [PI- + K0 K- PI+ PI- [[8711] AP CU --> JPS(13100)0 ANYTHING
[8518] AP N --> ANYTHING [[8616] AP NUCLEON --> E- ANYTHING [[8712] AP CU --> MU- MU+ ANYTHING
[8519] AP N --> NON-RES K + P AP PI- > [[8617] AP NUCLEON --> E+ ANYTHING [[8713] AP BR --> (NOT ENCODED)
[8520] AP N --> GAMMA HADRONS [[8618] AP NUCLEON --> AP D0 < NUCLEON [[8714] AP BR --> (NOT ENCODED)
[8521] AP N --> GAMMA ANYTHING [PICN > [[8715] AP CO --> (NOT ENCODED)
[8522] AP N --> E- HADRONS [[8619] AP NUCLEON --> AP NUCLEON PION [[8716] AP SN --> ANYTHING
[8523] AP N --> E+ HADRONS [[8620] AP NUCLEON --> 2GAMMA ANYTHING [[8717] AP SN --> (NOT ENCODED)
[8524] AP N --> MU- HADRONS [[8621] AP NUCLEON --> K+ PI- ANYTHING + [[8718] AP PB --> (NOT ENCODED)
[8525] AP N --> MU+ HADRONS [K+ PI+ ANYTHING [[8719] AP PB --> ANYTHING
[8526] AP N --> P1015 PRONG [[8622] AP DEUT --> (NOT ENCODED) [[8720] AP U --> (NOT ENCODED)
[8527] AP N --> PI+ ANYTHING [[8623] AP DEUT --> 0PRONG [[8721] AP U --> ANYTHING
[8528] AP N --> PI0 A2(1310)- [[8624] AP DEUT --> PRONG [[8722] AP NUCLEUS --> (NOT ENCODED)
[8529] AP N --> PI0 ANYTHING [[8625] AP DEUT --> ANYTHING [[8723] AP NUCLEUS --> INELASTIC
[8530] AP N --> PI- PI0 [[8626] AP DEUT --> 1WELL STATIC [[8724] AP NUCLEUS --> MU- ANYTHING
[8531] AP N --> PI- RHO0 [[8627] AP DEUT --> *GAMMA ANYTHING* [[8725] AP NUCLEUS --> MU+ ANYTHING
[8532] AP N --> PI- OMEGA [[8628] AP DEUT --> GAMMA1 MESONS [[8726] AP NUCLEUS --> PION(S) ANYTHING
[8533] AP N --> PI- PHI [[8629] AP DEUT --> PI+ ANYTHING [[8727] AP NUCLEUS --> PI- ANYTHING
[8534] AP N --> PI- F [[8630] AP DEUT --> PI- ANYTHING [[8728] AP NUCLEUS --> PI- ANYTHING
[8535] AP N --> PI- A2(1310)0 [[8631] AP DEUT --> K5 ANYTHING [[8729] AP NUCLEUS --> JPS(13100)0
[8536] AP N --> PI- ANYTHING [[8632] AP DEUT --> RESONA P [
[8537] AP N --> RH00 A2(1310)- [[8633] AP DEUT --> RESON(S) P(SPECT) [[8730] AP NUCLEUS --> K+ ANYTHING
[8538] AP N --> RH0- F [[8634] AP DEUT --> P(SPECT) ANYTHING [[8731] AP NUCLEUS --> K- ANYTHING
[8539] AP N --> OMEGA A2(1310)- [[8635] AP DEUT --> P NCHARGED) [[8732] AP NUCLEUS --> AP NUCLEUS
[8540] AP N --> OMEGA ANYTHING [[8636] AP DEUT --> P ANYTHING [[8733] AP NUCLEUS --> ANYTHING HADRONS
[8541] AP N --> AP N [[8637] AP DEUT --> AP DEUT [[8734] AP NUCLEUS --> 2GAMMA ANYTHING
[8542] AP N --> AP CEL0 [[8638] AP DEUT --> ADEL-- DEUT+(21701++ [[8735] AP NUCLEUS --> MU- MU+ ANYTHING
[8543] AP N --> AP D0 < P PI- > [[8639] AP DEUT --> LAMBDA ANYTHING [[8736] AP NUCLEUS --> PI- PI+ ANYTHING
[8544] AP N --> ADELO DEL- [[8640] AP DEUT --> DEUT ANYTHING [[8737] AP NUCLEUS --> K- PI+ ANYTHING
[8545] AP N --> ADEL-- D [[8641] AP DEUT --> 2PRONG [[8738] AP NUCLEUS --> NUCLEUS ALAMBDA K-
[8546] AP N --> ADEL+ DEL+ [[8642] AP DEUT --> GAMMA 2PRONG [[8739] AP NUCLEUS --> NUCLEUS PI+ PI-
[8547] AP N --> ADEL(1890F35)-- P [[8643] AP DEUT --> PI+ PI0 ANYTHING [[8740] AP UNSPEC --> (NOT ENCODED)
[8548] AP N --> LAMBDA ANYTHING [[8644] AP DEUT --> P(SPECT) PI0 PI- [[8741] NUCLEON NUCLEON --> (NOT ENCODED)
[8549] AP N --> SIGMA+ ANYTHING [[8645] AP DEUT --> P(SPECT) P ADEL-- [[8742] NUCLEON NUCLEON --> 2NUCLEON PION
[8550] AP N --> SIGMA- ANYTHING [[8646] AP DEUT --> P(SPECT) N AK+ [[8743] NUCLEON AL --> (NOT ENCODED)
[8551] AP N --> E- E+ ANYTHING [[8647] AP DEUT --> N(SPECT) PI+ PI- [[8744] NUCLEON AL --> (NOT ENCODED)
[8552] AP N --> MU- MU+ ANYTHING [[8648] AP DEUT --> N(SPECT) P AP [[8745] NUCLEON FE --> (NOT ENCODED)
[8553] AP N --> 3PION [[8649] AP DEUT --> N(SPECT) N AN [[8746] NUCLEON NUCLEUS --> (NOT ENCODED)
[8554] AP N --> PI-S P1+(S) ANYTHING [[8650] AP DEUT --> P N AP [[8747] NUCLEON NUCLEUS --> ANYTHING
[8555] AP N --> 2PI+ ANYTHING [[8651] AP DEUT --> N PI+ PI- [[8748] PIN(I=1/2) --> (NOT ENCODED)
[8556] AP N --> PI+ ANYTHING [[8652] AP DEUT --> N 2K5 [[8749] PIN(I=1/2) --> PIN(I=1/2)
[8557] AP N --> RH0+ 2PI- [[8653] AP DEUT --> K5 KL [[8750] PIN(I=1/2) --> (NOT ENCODED)
[8558] AP N --> RH00 PI0 PI- [[8654] AP DEUT --> LAMBDA K+ PI- [[8751] PIN(I=3/2) --> PIN(I=3/2)
[8559] AP N --> 2RH0G PI- [[8655] AP DEUT --> DEUT PI+ ANYTHING [[8752] LAMBDA P --> (NOT ENCODED)
[8560] AP N --> RH0+ PI+ PI- [[8656] AP DEUT --> DEUT PI+ PI- [[8753] LAMBDA P --> ANYTHING
[8561] AP N --> F PI0 PI- [[8657] AP DEUT --> DEUT AP OMEGA [[8754] LAMBDA P --> LAMBDA P
[8562] AP N --> F RH00 PI- [[8658] AP DEUT --> DEUT ADEL-- PI+ [[8755] LAMBDA P --> SIGMA+ DELO
[8563] AP N --> A2(1310)- 2PI+ [[8659] AP DEUT --> DEUT ALAMBDA K- [[8756] LAMBDA P --> SIGMA P
[8564] AP N --> A2(1310)- PI+ PI- [[8660] AP DEUT --> DEUT+(2170)++ AP PI- [[8757] LAMBDA P --> SIGMA- DEL++
[8565] AP N --> K+ K- PI- [[8661] AP DEUT --> 3PRONG [[8758] LAMBDA P --> SIG(1385P13)+ DELO
[8566] AP N --> K0 AK0 PI- [[8662] AP DEUT --> PI+ PI- ANYTHING [[8759] LAMBDA P --> SIG(1385P13)- DEL++
[8567] AP N --> P AP PI- [[8663] AP DEUT --> P(SPECT) PI+ 2PI- [[8760] LAMBDA P --> P LAMBDA PI0
[8568] AP N --> N AN PI- [[8664] AP DEUT --> P(SPECT) P AP PI- [[8761] LAMBDA P --> P SIGMA+ PI-
[8569] AP N --> 3PRONG [[8665] AP DEUT --> P N AP GAMMA [[8762] LAMBDA P --> P SIGMA- PI+
[8570] AP N --> 4PION [[8666] AP DEUT --> P N ALAMBDA K- [[8763] LAMBDA P --> P SIG(1385P13)+ PI-
[8571] AP N --> PI0(S) 3PRONG [[8667] AP DEUT --> DEUT AP PI+ PI- [[8764] LAMBDA P --> P SIG(1385P13)- PI+
[8572] AP N --> PI+ PI0 2PI- [[8668] AP DELT --> DEUT ADEL-- PI+ PI0 [[8765] LAMBDA P --> NUCLEON LAMBDA PICN
[8573] AP N --> PI+ 2PI- MM,GE.2 [[8669] AP DELT --> DEUT ALAMBDA K- PI0 [[8766] LAMBDA P --> DELO+ LAMBDA PI-
[8574] AP N --> PI+ 2PI- MM,GE.1 [[8670] AP DEUT --> 4PRONG [[8767] LAMBDA P --> *DELO LAMBDA PI+*
[8575] AP N --> PI+ 2PI- NEUTRALS [[8671] AP DEUT --> GAMMA 4PRONG [[8768] LAMBDA P --> P LAMBDA PI+ PI-
[8576] AP N --> RH00 PI+ 2PI- [[8672] AP DEUT --> PI+ PI3 2PI- ANYTHING [[8769] LAMBDA P --> P SIGMA+ PI- + P
[8577] AP N --> RH00 RH0+ PI+ PI- [[8673] AP DEUT --> P(SPECT) P AN 2PI- [SIGMA-
[8578] AP N --> OMEGA PI+ 2PI- [[8674] AP DEUT --> P(SPECT) P AP PI0 PI- [[8770] LAMBDA N --> (NOT ENCODED)
[8579] AP N --> F PI+ 2PI- [[8675] AP DEUT --> P(SPECT) N AP PI+ PI- [[8771] LAMBDA N --> ANYTHING
[8580] AP N --> A2(1310)- PI+ PI0 PI- [[8676] AP DELT --> P N AP PI+ PI- [[8772] LAMBDA NUCLEON --> (NOT ENCODED)
[8581] AP N --> P 2PI- MP,GE.2 [[8677] AP DELT --> DEUT AN PI+ 2PI- [[8773] LAMBDA NUCLEON --> HOIBERYON
[8582] AP N --> P AP PI0 PI- [[8678] AP DEUT --> DEUT AP PI+ PI0 PI- [ANYTHING
[8583] AP N --> P AP PI- MM,GE.2 [[8679] AP DEUT --> 5PRONG [[8774] LAMBDA NUCLEON --> NUCLEON LAMBDA
[8584] AP N --> N AP PI+ PI- [[8680] AP DEUT --> P(SPECT) 2PI+ 3PI- [PICMMA
[8585] AP N --> 4PRONG [[8681] AP DEUT --> 6PRONG [[8775] LAMBDA DEUT --> (NOT ENCODED)
[8586] AP N --> 5PION [[8682] AP DEUT --> 7PRONG [[8776] LAMBDA C --> (NOT ENCODED)
[8587] AP N --> 2PI+ 3PI- [[8683] AP DEUT --> AP DEUT + P N AP [[8777] LAMBDA O --> (NOT ENCODED)
[8588] AP N --> RH0+ PI+ 3PI- [*[8684] AP DEUT --> 2PRONG + 4PRONG +* [[8778] LAMBDA FE --> (NOT ENCODED)
[8589] AP N --> RH0- 2PI+ 2PI- [6PRONG [[8779] LAMBDA BR --> (NOT ENCODED)
[8590] AP N --> K+ K- PI+ 2PI- [[8685] AP ADEL --> ADEUT P PI+ PI- [[8780] LAMBDA SN --> (NOT ENCODED)
[8591] AP N --> P AP PI+ 2PI- [[8686] AP HE --> (NOT ENCODED) [[8781] LAMBDA NCLEUS --> (NOT ENCODED)
[8592] AP N --> 5PRONG [[8687] AP HE --> ANYTHING [[8782] ALAMBDA P --> ANYTHING
[8593] AP N --> 6PION [[8688] AP HE --> ANY ANYTHING [[8783] ALAMBDA P --> P LAMBDA P
[8594] AP N --> PI0(S) 5PRONG [[8689] AP HE --> AP HE [[8784] ALAMBDA N --> ANYTHING
[8595] AP N --> 2PI+ PI0 3PI- [[8690] AP LI --> ANYTHING [[8785] ANNJI=0) --> PI+ SIGMA- + PI0
[8596] AP N --> 2PI+ 3PI- MM,GE.2 [[8691] AP LI --> GAMMA ANYTHING [SIGMA0 + PI- SIGMA+
[8597] AP N --> 2PI+ 3PI- MM,GE.1 [[8692] AP BE --> ANYTHING [[8786] SIGMA+ P --> (NOT ENCODED)
[8598] AP N --> 2PI+ 3PI- NEUTRALS [[8693] AP BE --> MU- MU+ ANYTHING [[8787] SIGMA+ P --> ANYTHING
[8599] AP N --> 6PRONG [[8694] AP C --> (NOT ENCODED) [[8788] SIGMA+ P --> SIGMA+ P
[8600] AP N --> 7PION [[8695] AP C --> ANYTHING [[8789] SIGMA+ P --> (NOT ENCODED)
[8601] AP N --> 3PI+ 4PI- [[8696] AP C --> AP C [[8790] SIGMA- P --> LAMBDA N
[8602] AP N --> 7PRONG [[8697] AP O --> (NOT ENCODED) [[8791] SIGMA- P --> SIGMA0 N
[8603] AP N --> 8PION [[8698] AP NE --> (NOT ENCODED) [[8792] SIGMA- P --> SIGMA- P
[8604] AP N --> PI0(S) 7PRONG [[8699] AP NE --> N(PRONG) [[8793] SIGMA- P --> SIG(1385P13)-
[8605] AP N --> 3PI+ PI0 4PI- [[8700] AP NE --> ANYTHING [ANYTHING

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[8794] SIGMA- P --> LAMBDA PI- ANYTHING
[8795] SIGMA- P --> LAMBDA N + SIGMA0 N
[8796] SIGMA- N --> (NOT ENCODED)
[8797] SIGMA- NUCLEON --> (NOT ENCODED)
[8798] SIGMA- NUCLEON --> LAMBDA ANYTHING
[8799] SIGMA- DEUT --> (NOT ENCODED)
[8800] SIGMA- NE --> (NOT ENCODED)
[8801] SIGMA- NE --> NUCLEUS
[8802] SIGMA- AL --> SIG(1385P13)- ANYTHING
[8803] SIGMA- AL --> LAMBDA PI- ANYTHING
[8804] SIGMA CU --> SIG(1385P13)- ANYTHING
[8805] SIGMA- CU --> LAMBDA PI- ANYTHING
[8806] SIGMA- MT --> SIG(1385P13)- ANYTHING
[8807] SIGMA- MT --> LAMBDA PI- ANYTHING
[8808] SIGMA- PT --> (NOT ENCODED)
[8809] SIGMA- PT --> (NOT ENCODED)
[8810] SIGMA- PB --> SIGMA- PB
[8811] SIGMA- PB --> SIG(1385P13)- ANYTHING
[8812] SIGMA- PB --> LAMBDA PI- ANYTHING
[8813] SIGMA- NUCLEUS --> (NOT ENCODED)
[8814] SIGMA- NUCLEUS --> OMEGA- ANYTHING
[8815] SIGMA- NUCLEUS --> LAMBDA PI- ANYTHING
[8816] AKN(I=1) --> PI+ LAMBDA
[8817] AKN(I=1) --> PI+ SIGMA0 + PI0 SIGMA0 + PI- SIGMA+
[8818] SIG(LASPSEC) NUCLEON --> SIG(LASPSEC) NUCLEON
[8819] XI0 P --> (NOT ENCODED)
[8820] XI0 P --> SIGMA+ LAMBDA
[8821] XI0 P --> P XI- PI+
[8822] XI0 P --> ZLAMBDA PI+
[8823] XIG P --> LAMBDA SIGMA+ PI0(S)
[8824] XI0 P --> SIGMA+ SIGMA- PI+
[8825] XI0 P --> P XI- PI+ PI0(S)
[8826] XI0 P --> ZLAMBDA PI+ PI0(S)
[8827] XI0 P --> LAMBDA SIGMA+ PI+ PI-
[8828] XI0 P --> LAMBDA SIGMA- 2PI+
[8829] XI0 P --> ZLAMBDA 2PI+ PI-
[8830] XI- P --> (NOT ENCODED)
[8831] XI- P --> XI- P
[8832] XI- NUCLEON --> (NOT ENCODED)
[8833] XI- NUCLEUS --> OMEGA- ANYTHING
[8834] OMEGA- P --> OMEGA- P
[8835] KN(I=0) --> (NOT ENCODED)
[8836] KN(I=0) --> PLSIGI(=0)
[8837] KN(I=0) --> KN(I=0)
[8838] KN(I=0) --> LAMBDA 2PION
[8839] KN(I=1) --> (NOT ENCODED)
[8840] KN(I=1) --> KN(I=1)
[8841] KN(I=1) --> PISIGI(=1)
[8842] KN(I=1) --> PILAM(I=1)
[8843] KN(I=1) --> LAMBDA 2PION
[8844] DEUT P --> (NOT ENCODED)
[8845] DEUT P --> DEUT P
[8846] DEUT P --> ETA HE3
[8847] DEUT P --> P DEUT
[8848] DEUT P --> DEUT ANYTHING
[8849] DEUT P --> HE3 NEUTRAL(S)
[8850] DEUT P --> HE3 ANYTHING
[8851] DEUT P --> T ANYTHING
[8852] DEUT P --> P(SPECT) P N
[8853] DEUT P --> P PI- NEUTRALS
[8854] DEUT P --> P PI+ ANYTHING
[8855] DEUT P --> 2P N
[8856] DEUT P --> 2P NEUTRALS
[8857] DEUT P --> 2P ANYTHING
[8858] DEUT P --> P EE+,+- DEL-
[8859] DEUT P --> DEUT N PI+
[8860] DEUT P --> P(SPECT) 2P PI-
[8861] DEUT P --> 3P PI-
[8862] DEUT P --> 3P ANYTHING
[8863] DEUT P --> P 2N PI+
[8864] DEUT P --> DEUT P PI+ PI-
[8865] DEUT P --> 3P PI0 PI-
[8866] DEUT NUCLEON --> (NOT ENCODED)
[8867] DEUT NUCLEON --> NUCLEON DEUT
[8868] DEUT DEUT --> (NOT ENCODED)
[8869] DEUT DEUT --> PI0 X
[8870] DEUT DEUT --> OMEGA ME
[8871] DEUT DEUT --> P T
[8872] DEUT DEUT --> P A ANYTHING
[8873] DEUT DEUT --> 2DEUT
[8874] DEUT DEUT --> DEUT ANYTHING
[8875] DEUT DEUT --> HE3 PI-+E-2
[8876] DEUT DEUT --> HE NEUTRAL(S)
[8877] DEUT DEUT --> HE ANYTHING
[8878] DEUT DEUT --> DEUT P N
[8879] DEUT T --> H HE
[8880] DEUT HE --> (NOT ENCODED)
[8881] DEUT LI --> (NOT ENCODED)
[8882] DEUT LI --> P ANYTHING
[8883] DEUT LI --> PI+ ANYTHING + PI- ANYTHING
[8884] DEUT BE --> P ANYTHING
[8885] DEUT BE --> DEUT ANYTHING
[8886] DEUT C --> PI- ANYTHING
[8887] DEUT C --> P ANYTHING
[8888] DEUT C --> PI+ ANYTHING + PI- ANYTHING
[8889] DEUT AL --> PI+ ANYTHING + PI- ANYTHING
[8890] DEUT CU --> PI+ ANYTHING + PI- ANYTHING
[8891] DEUT CD --> N(CHARGED)
[8892] DEUT SM --> PI+ ANYTHING + PI- ANYTHING
[8893] DEUT TA --> P ANYTHING
[8894] DEUT PB --> PI+ ANYTHING + PI- ANYTHING
[8895] DEUT U --> N(N) ANYTHING
[8896] DEUT U --> ANYTHING FRAG
[8897] DEUT NUCLEUS --> (NOT ENCODED)
[8898] DEUT NUCLEUS --> ANYTHING
[8899] DEUT NUCLEUS --> INELASTIC
[8900] DEUT NUCLEUS --> DEUT NUCLEUS
[8901] DEUT NUCLEUS --> ANYTHING CHARGED
[8932] DEUT NUCLEUS --> NUCLEUS P N
[8903] DEUT W --> PI+ ANYTHING + PI- ANYTHING
[8904] DEUT P --> (NOT ENCODED)
[8905] DEUT P --> ANYTHING
[8906] DEUT LI --> (NOT ENCODED)
[8907] DEUT LI --> (NOT ENCODED)
[8908] DEUT C --> ANYTHING
[8909] DEUT AL --> (NOT ENCODED)
[8910] DEUT AL --> ANYTHING
[8911] DEUT CU --> (NOT ENCODED)
[8912] DEUT CU --> ANYTHING
[8913] DEUT PB --> (NOT ENCODED)
[8914] DEUT PB --> ANYTHING
[8915] NN(I=1) --> (NOT ENCODED)
[8916] HE3 HE3 --> HE DEUT E+ NUE
[8917] HE3 HE3 --> 2HE GAMMA
[8918] HE3 C --> PI0 ANYTHING
[8919] HE3 PB --> PI0 ANYTHING
[8920] HE P --> HE
[8921] HE P --> P ANYTHING
[8922] HE P --> DEUT HE3
[8923] HE P --> DEUT ANYTHING
[8924] HE P --> T ANYTHING
[8925] HE P --> HE ANYTHING
[8926] HE P --> HE3 P N
[8927] HE P --> P PI0
[8928] HE P --> HE N PI+
[8929] HE HE --> (NOT ENCODED)
[8930] HE HE --> HE
[8931] HE HE --> 2HE GAMMA
[8932] HE LI --> (NOT ENCODED)
[8933] HE LI --> P ANYTHING
[8934] HE LI --> FRAGILI
[8935] HE BE --> PI- ANYTHING
[8936] HE BE --> P ANYTHING
[8937] HE BE --> ANYTHING
[8938] HE C --> PI- ANYTHING
[8939] HE C --> P ANYTHING
[8940] HE C --> HE ANYTHING
[8941] HE C --> T ANYTHING
[8942] HE C --> HE ANYTHING
[8943] HE C --> C HE GAMMA
[8944] HE C --> ANYTHING
[8945] HE NE --> (NOT ENCODED)
[8946] HE CU --> P ANYTHING
[8947] HE CU --> DEUT ANYTHING
[8948] HE CU --> T ANYTHING
[8949] HE CU --> HE CU
[8950] HE CU --> HE ANYTHING
[8951] HE BR --> ANYTHING
[8952] HE AG --> ANYTHING
[8953] HE TA --> P ANYTHING
[8954] HE W --> (NOT ENCODED)
[8955] HE PB --> PI- ANYTHING
[8956] HE PB --> P ANYTHING
[8957] HE PB --> DEUT ANYTHING
[8958] HE PB --> T ANYTHING
[8959] HE PB --> HE ANYTHING
[8960] HE U --> ANYTHING FRAG
[8961] HE NUCLEUS --> (NOT ENCODED)
[8962] HE NUCLEUS --> STAR
[8963] LI P --> HE3 ANYTHING
[8964] LI P --> T ANYTHING
[8965] BE P --> HE3 ANYTHING
[8966] C P --> HE3 ANYTHING
[8967] C P --> ANYTHING
[8968] C P --> ANYTHING FRAGT
[8969] C C --> (NOT ENCODED)
[8970] C C --> ANYTHING FRAGT
[8971] C AL --> ANYTHING FRAGT
[8972] C AG --> ANYTHING FRAGT
[8973] C W? --> ANYTHING FRAG
[8974] C NUCLEUS --> ANYTHING FRAG
[8975] NIT NUCLEUS --> N(PRONG)
[8976] O P --> ANYTHING
[8977] O BE --> ANYTHING FRAGT
[8978] O C --> ANYTHING FRAGT
[8979] O NT --> ANYTHING FRAG
[8980] O NUCLEUS --> FRAG
[8981] O NUCLEUS --> ANYTHING
[8982] O NUCLEUS --> PIONIS) ANYTHING
[8983] O NUCLEUS --> PROTONIS) ANYTHING
[8984] O NUCLEUS --> NUCLEON ANYTHING
[8985] O NUCLEUS --> HE ANYTHING
[8986] O NUCLEUS --> LI ANYTHING
[8987] O NUCLEUS --> BE ANYTHING
[8988] O NUCLEUS --> BOR ANYTHING
[8989] O NUCLEUS --> C ANYTHING
[8990] O NUCLEUS --> ANYTHING FRAGT
[8991] O NUCLEUS --> ANYTHING FRAG
[8992] O NUCLEUS --> 2HE ANYTHING
[8993] O NUCLEUS --> 3HE ANYTHING
[8994] O NUCLEUS --> 4HE ANYTHING
[8995] NE U --> LI ANYTHING
[8996] NE U --> BOR ANYTHING
[8997] NE U --> C ANYTHING
[8998] NE U --> NIT ANYTHING
[8555] NE U --> O ANYTHING
[9000] NE U --> FL ANYTHING
[9001] AR AU --> LI ANYTHING
[9002] AR AU --> BOR ANYTHING
[9003] AR AU --> C ANYTHING
[9004] AR AU --> NIT ANYTHING
[9005] AR AU --> O ANYTHING
[9006] AR AU --> FL ANYTHING
[9007] AU P --> N PI+ ANU
[9008] NUCLEUS NUCLEON --> (NOT ENCODED)
[9009] NUCLEUS NUCLEUS --> (NOT ENCODED)
[9010] NUCLEUS NUCLEUS --> CHARGED
[9011] NUCLEUS NUCLEUS --> HE ANYTHING
[9012] NUCLEUS NUCLEUS --> NUCLEUS ANYTHING
[9013] NUCLEUS NUCLEUS --> ANYTHING FRAG
[9014] COSMIC P --> (NOT ENCODED)
[9015] COSMIC P --> ANYTHING
[9016] COSMIC NUCLEON --> MUONS ANYTHING
[9017] COSMIC NUCLEON --> QUARK ANYTHING
[9018] COSMIC NUCLEON --> N(PRONG)
[9019] COSMIC C --> (NOT ENCODED)
[9020] COSMIC C --> N(PRONG)
[9021] COSMIC C --> ANYTHING
[9022] COSMIC C --> INELASTIC
[9023] COSMIC AL --> PRONG
[9024] COSMIC AL --> N(PRONG)
[9025] COSMIC AL --> ANYTHING
[9026] COSMIC AL --> INELASTIC
[9027] COSMIC FE --> N(PRONG)
[9028] COSMIC FE --> INELASTIC
[9029] COSMIC CU --> PRONG
[9030] COSMIC SN --> N(PRONG)
[9031] COSMIC PB --> (NOT ENCODED)
[9032] COSMIC PB --> N(PRONG)
[9033] COSMIC PB --> ANYTHING
[9034] COSMIC PB --> INELASTIC
[9035] COSMIC NUCLEUS --> (NOT ENCODED)
[9036] COSMIC NUCLEUS --> PIOS
[9037] COSMIC NUCLEUS --> MESONS
[9038] COSMIC NUCLEUS --> ALT.36PRONG
[9039] COSMIC NUCLEUS --> HADRONS
[9040] COSMIC NUCLEUS --> PRONG
[9041] COSMIC NUCLEUS --> N(PRONG)
[9042] COSMIC NUCLEUS --> MESONS
[9043] COSMIC NUCLEUS --> GAMMAS ANYTHING
[9044] COSMIC NUCLEUS --> NUMU ANYTHING
[9045] COSMIC NUCLEUS --> E- ANYTHING
[9046] COSMIC NUCLEUS --> ELECTRONS) ANYTHING
[9047] COSMIC NUCLEUS --> MUONS ANYTHING
[9048] COSMIC NUCLEUS --> MU- ANYTHING
[9049] COSMIC NUCLEUS --> MUON ANYTHING
[9050] COSMIC NUCLEUS --> PIONS ANYTHING
[9051] COSMIC NUCLEUS --> PI0(S) ANYTHING
[9052] COSMIC NUCLEUS --> PIO ANYTHING
[9053] COSMIC NUCLEUS --> HADRS ANYTHING
[9054] COSMIC NUCLEUS --> PROTONIS)
[9055] COSMIC NUCLEUS --> HE3 ANYTHING
[9056] COSMIC NUCLEUS --> HE ANYTHING
[9057] COSMIC NUCLEUS --> N(HE) ANYTHING
[9058] COSMIC NUCLEUS --> HE(S) ANYTHING
[9059] COSMIC NUCLEUS --> LONG(LIVED)
[9060] COSMIC NUCLEUS --> ANYTHING FRAG
[9061] COSMIC NUCLEUS --> ANYTHING
[9062] COSMIC NUCLEUS --> ANYTHING HADRONS
[9063] COSMIC NUCLEUS --> PI+(S) PI-(S) ANYTHING
[9064] COSMIC NUCLEUS --> 2FRAG ANYTHING
[9065] COSMIC NUCLEUS --> E- ANYTHING + E+ ANYTHING
[9066] COSMIC NUCLEUS --> ELECTRONS ANYTHING + GAMMAS ANYTHING
[9067] COSMIC NUCLEUS --> MU- ANYTHING + MU+ ANYTHING

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GAMMA GAMMA -->

-(NOT ENCODED)
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+E+ E-
7 BARBIELLINI 73B CS
+KU+ KU-
7 CARBIELLINI 73B CS
GAMMA E- -->
-(NOT ENCODED)
7.E-E3 EAST 69
1.E-03-3.E-03
STOVALL 71
KULIKOV 69
7 DRAGOMIRESCU 73
KULIKOV 69B
+GAMMA E-
7 SLAC-SP-007B ANGP, ASYM
+GAMMA ANYTHING
7 PESHKOV 73 POL
+E- NUCLEUS
.030-.20 DARRIULAT 75B
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+HADRONS
.26-4.2 ARMSTRONG 72B
12.-39. BELOUSOV 75
18.-185 CALDWELL 78 CS
30.-185 CALDWELL 77 CS
NASH 77 CS
+PRONG
7.5 ALEXANDER 74E
9.3 BINGHAM 73 CS
+NEUTRON(S)
1.5-10. ALBINI 75B
+ANYTHING
1.-14.7 BARBOUR 76
20-30. HORN 75B
1.4 BALLAM 69B
1.4-6.3 STRUZINSKI 75
2.0-16. DAVIES 70
2.8 BALLAM 69B
3.1-16. BARBOUR 76
3.7-18. CALDWELL 73
4.7 BALLAM 69B
7.0-18. CALDWELL 69D
CALDWELL 70B
7.5 ALEXANDER 74E
BALLAM 68C
9.3 BINGHAM 73 CS
KOCAR 75 CS,MULT
12.-30. BELOUSOV 73E
BELOUSOV 74 CS
14.-390 NAL-925A CS
20.-60. FNAL-152B CS
? CALDWELL 69B
+GAMMA P
.070-.11 BARANOV 74C
BARANOV 75
.080-.11 BARANOV 74B
.27-.37 BERG 71
.30-.33 BARBIELLINI 68
.33-.42 GENZEL 71
.40 LEV 76
.45-.95 TOSHIOKA 77
.55-.5.5 DEUTSCH 73
.65-.85 KADE 72
.65-1.3 BARTON 72C
.70 JUNG 77
.75 JUNG 77
.80 JUNG 77
2.2-7.0 BUSCHHORN 71
3.0-7.0 DEUTSCH 72 POL
3.2-3.7 BUSCHHORN 71B
4.0 BRAUNSCHWEIG 73B
4.5 STEIN 75
4.7 KOGAN 75 ANGP,CS, MULT
5.0 CRIEGEE 77 ANP, ANGP,CS
CRIEGEE 77B
5.0-17. ANDERSEN 69E
6.0 CRIEGEE 73
CRIEGEE 77 ANP, ANGP,CS
CRIEGEE 77B
7.0 STEIN 75
8.0 BOYARSKI 71B
9.3 KOGAN 75 ANGP,CS, MULT
10. STEIN 75
10.-60. CERN-WA-004 ANGP, ASYM

GAMMA P --> (CONT.)

+GAMMA P (CONT.)
13. STEIN 75
14 KOGAN 75
16. BOYARSKI 71B
STEIN 75
18. KOGAN 75
STEIN 75
20. STEIN 75
20.-60. FNAL-152B ANGP
? BERNARDINI 80
GRAY 67
+GAMMA ANYTHING
.27-.37 BERG 73
20.-60. FNAL-152B ANGP
21. CALDWELL 74 CS,P
CALDWELL 74B P,PT
? MURPHY 73
+PI+ N
3.-1.6 KNIES 74B
.050-.80 BENEVANTANO 68
.10-1.0 FUNASHIMA 77B
.14-.15 DEUTSCH 74
.15-1.7 CRAWFORD 75
.17-.43 GANENKO 76C
.18-.43 GANENKO 75
.19 LEWIS 63
.23 ALTHOFF 63
ALTHOFF 63B
FREITAG 63
.20-.43 ALEKSANDROV 74B
GORENSTEIN 66
.20-2.6 FISCHER 75B
.22-.28 ZABAEV 75
.22-.39 LAZARUS 59
.22-.42 FISCHER 70C
FISCHER 72
.23-.26 KUZNETSOV 69B
.23-.37 SMITH 63
.25-.42 ALEKSANDROV 76
.25-.45 CLIFFT 74 ANGP,CS
.25-.50 GANENKO 76B
GANENKO 76F
.25-.79 FUJII 76 ANGP,CS
.26 ALTHOFF 63
.26-.35 ALEKSANDROV 70
.27 GARELICK 64
.30-.75 BETOURNE 68
.30-.90 ARAI 72B
HEINBERG 58
.33-1.0 FELLER 74 ASYM,CS
FELLER 76B ASYM
.30-1.2 FELLER 75 PWA
FUJII 71
.30-2.0 DANNHAUSEN 75
ANGP, CS
.35 SPILLANTINI 65
.40-.90 ZDARKO 72
.40-1.4 DANNHAUSEN 73
.43-.73 MEYER 78B
.45 ALTHOFF 63B
FREITAG 63
.50 ALTHOFF 73C
.50-1.3 THIESSEN 67
.50-1.4 ALTHOFF 71
.55-1.3 ECKLUND 67
.60-1.0 DIXON 60
.60-7.4 EKSTRAND 71
.70 ALTHOFF 76E
KNIES 74 ANGP
.70-1.2 BOYDEN 61
.74 KNIES 74
.76 KNIES 74
.80-2.2 ALSPECTOR 72
.88 KNIES 74
.90 ABRAHAMIAN 74
.90-1.6 ABRAHAMIAN 75
.90-3.2 ALTHOFF 71
1.0 ABRAHAMIAN 74
1.0-2.0 ABRAHAM 75B
1.1-1.4 KILNER 63
1.2 ABRAHAMIAN 74 ANGP, ASYM
KRIVETS 74 ANGP
1.2-3.0 BUSCHHORN 6E
BUSCHHORN 67
1.5-2.0 ADAMOVICH 68E
1.7-2.0 ITO 70
2.2 ALTHOFF 73C
2.5 GENZEL 75
2.5-5.0 GENENIGER 69
2.6-6.0 HEIDE 68B
2.7-4.9 BUSCHHORN 67B
3.8-4.8 CLIFFT 77 ANGP
3.0 BARYAM 70
OALMAGNE 70

GAMMA P --> (CONT.)

+PI+ N (CONT.)
3.4 BARYAM 67
GENZEL 75
GENENIGER 68
3.4-5.0 JOSEPH 67
4.0 ANDERSON 73C
ANDERSON 76 ANGP, CS
4.1-15. ANDERSON 68C
5.0 ANDERSON 73C
ANDERSON 76 ANGP, CS
ANDERSON 76 ANGP, ASYM
GENZEL 75 ASYM
5.0-16. BOYARSKI 68
5.5 SCHACHTER 77
7.0 ANDERSON 76 ANGP, CS
7.5 ANDERSON 73C
8.0-16. BOYARSKI 68B
12. SCHWITTERS 71
15.-16. SMERDEN 73 ANGP, ASYM
16. QUINN 73
210-400 CAMPBELL 76 AMP, ANGP
? ALTHOFF 68
ALVAREZ 66
BARYAM 70C
BAZIN 67
BENEVENTANO 56
BENEVENTANO 63
BERNSTEIN 74B
BERTANZA 62B
BLODN 67
BRICKEY 64
FREYTAG 65
GORZHEVSKAYA 60
GRILLI 68
HAYAKAWA 68
JARMIE 53
JENKINS 54
KNAPP 59
LEITH 64
LENEKE 77
LEWIS 59
LEWIS 62
LIU 66
LIU 66
LUNDQUIST 68
MALOV 65
MUSGRAVE 71B
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QUERZOLI 61
SCHAERF 66
STEIN 66
TAYLER 60B
TOLLESTRUP 55
URETSKY 58
WALKER 55B
WALKER 63

+PI+ DELO
.30-5.8 ERBE 68B
.40-5.8 LUKE 72
.74 FUKUI 74
.84 FUKUI 74
.96 FUKUI 74
1.0 FUKUI 74
1.6-4.0 NOTZ 73
2.8 BALLAM 72
4.7 BALLAM 72
5.0 MOREHOUSE 70
10.-40. CERN-WA-004 ANGP
18. MOREHOUSE 70
? BOYARSKI 70

+PI+ ANYTHING
.14-.15 DEUTSCH 74
2.0-19. SLAC-E-112 ANGP
3.7-400 WHITMORE 75C
4.3 ABRAMIAN 75
5.5 SCHACHTER 77
5.5-6.5 DESY-136 ANGP, CS,MASS+P,PT
6.0 BURFEINDT 73 ANGP, CS
9.8 KAUNE 74
14. KAUNE 74
18. BOYARSKI 71D
? WHITMORE 75B

+PI0 P
0.-1.6 KNIES 74B
0.-.50 HILGER 74
0.-.90 ANANIEN 73
.10-1.0 FUKUSHIMA 77
.15-1.7 CRAWFORD 75
.20 BRAUNSCHWEIG 71
BRAUNSCHWEIG 71B

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*PIO P (CONT.)
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- .20-.44 FISCHER 70B
- .20-2.6 FISCHER 75B
- .21-.27 KUZNETSOV 71B
- .22-.40 MCRAND 69
- MCRAND 70
- .22-.50 GENIEL 74 ANGP,CS
- .23-.38 BARBIELLINI 69
- .24-.42 ALTHOFF 68B
- .24-.50 SUZUKI 74D
- .24-.42 DOUGAN 75C
- .25 GANENKO 72B
- .25-.45 CLIFFT 74 ANGP,CS
- JAECKEL 74
- .25-.50 GANENKO 76F
- .25-.65 GANENKO 76D
- .26-.44 DOUGAN 75E
- .30 GANENKO 72B
- .30-1.2 FELLER 75 PWA
- GANENKO 72E
- .35-.43 CHRIST 76
- .35-.85 DOUGAN 74
- .35-1.2 HEMMI 73
- MAKI 73
- .36 ALTHOFF 68B
- .36-.94 DOUGAN 75F
- .38-.82 JUNG 76 ANGP,CS
- .39-.97 YOSHICKA 77
- .40 GANENKO 74B ANGP, ASYM
- .40-.50 GENZEL 74B ANGP, CS
- .40-.80 BACCI 72F
- DOUGAN 75
- .40-.90 ZDARKO 72
- .40-1.0 FELLER 74B
- FELLER 76
- .43-.88 ZDARKO 72B
- .44 BRAUNSCHWEIG 71
- BRAUNSCHWEIG 71B
- FISCHER 71
- .45 GANENKO 74B ANGP, ASYM
- .49 GORBENKO 74
- GORBENKO 75
- .50 GANENKO 74B ANGP, ASYM
- .50-.90 STEIN 58
- .54-.64 DEREBCHINSKI 76
- .55 GANENKO 74B ANGP, ASYM
- .55-2.2 BECKS 73
- FELLER 74C ANGP, CS
- .56-.69 ALMEPED 76
- .60-1.2 BLUM 76 POL
- DIEBOLD 69
- WARD 68
- .65 GANENKO 74B ANGP, ASYM
- .65-1.4 CHENG 70
- .65-1.7 RUTHERFOORD 68
- .69-1.0 GONCHAROV 64
- GONCHAROV 73B
- .70 KNIES 74 ANGP
- .70-1.1 BINGHAM 58
- .70-1.3 BLUM 76B
- .70-2.4 BOOTH 76C
- .70-1.7 BARTON 74
- .74 KNIES 74
- .75-1.5 HATCH 64
- .76 KNIES 74
- .77-5.4 BUSCHHORN 68
- .80-.91 MENCUCCINI 62
- .80-1.4 BOOTH 73
- .80-2.1 GIES 77
- .80-2.2 ALSPECTOR 72
- .85-1.2 PRENTICE 72
- .85-1.3 BOOTH 74
- .88 KNIES 74
- .88-1.2 SCHILLING 77
- .90-1.2 JACKSON 60
- .90-1.3 BLUM 74B
- .90-1.6 ABRAHAMIAN 74
- ABRAHAMIAN 75
- ABRAMYAN 76B
- .98-1.2 DEREBCHINSKI 73
- DEREBCHINSKI 74
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- 1.0-1.8 CASTRO 74 ANGP, POL
- TANAKA 72
- 1.0-2.0 ABRAHAM 75B
- 1.1 HERR 77 POL
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GAMMA P --> (CONT.)

*PIO P (CONT.)
- 1.2-1.8 TANAKA 69
- 1.2-2.8 BUSSEY 75 ANGP, ASYM
- 1.3-3.0 BRAUNSCHWEIG 66
- 1.4-5.8 BRAUNSCHWEIG 68
- 1.7-2.0 ITO 70
- 1.8-5.0 BOLON 67
- 2.9 BELLENGER 67
- 4.0 ANDERSON 76 ANGP, CS
- BIEMLEIN 73B
- BOOTH 71B
- BRAUNSCHWEIG 70
- WESSELS 73
- 4.0-10. ANDERSON 71D
- 5.0 ANDERSON 76 ANGP, CS
- 5.8 BRAUNSCHWEIG 70
- 6.0 ANDERSON 71B
- TOMPKINS 69
- 6.0-15. ANDERSON 70F
- 6.0-18. BARTSH 74H
- TOMPKINS 69B
- 8.0 TOMPKINS 69
- 10.-40. CERN-WA-004 ANGP
- 12. TOMPKINS 69
- 18. TOMPKINS 69
- 210-400 CAMPBELL 76 AMP, ANGP
- 7 ALTHOFF 66
- BELLETTINI 66B
- BREFELD 75
- CASSIDY 68
- DESTAEBLER 65
- DEWIRE 58
- GOVORKOV 67
- HIGHLAND 63
- HUSMANN 77
- JANSEN 76
- KOESTER 57
- MCDONALD 57
- MILLER 63B
- MINATTI 73 PCL
- MOHR 74
- OAKLEY 55
- SILVERMAN 52
- TALMAN 62
- TALMAN 63
- WALKER 53
- WALKER 59C
- WARD 67

*PIO DEL+
- 10.-40. CERN-WA-004 ANGP
- ? BOYARSKI 70

*PIO ANYTHING
- .27-.37 BERCN 73
- 2.9 BERGER 73B P,PT
- 23. CALDWELL 74B P,PT
- EISNER 74B ANGP, CS

*PI- DEL++
- .30-5.8 ERBE 68B
- .40-5.8 LUKE 72
- .65 GANENKO 72
- .74 FUKUI 74
- .84 FUKUI 74
- .98 FUKUI 74
- 1.0 FUKUI 74
- 1.6-4.0 NOTZ 73
- 1.6-6.3 STRUCZINSKI 75
- 1.7-6.3 SCHACHT 73
- 2.8 BALLAM 72
- BINGHAM 70C
- 4.0 ANDERSON 76 ANGP, CS
- 4.1-15. ANDERSCN 68C
- 4.7 BALLAM 72
- BINGHAM 70C
- 5.0 ANDERSON 76 ANGP, CS
- MCREHOUSE 70
- 5.0-16. BOYARSKI 69B
- 7.5 ALEXANDER 74B
- 10.-40. CERN-WA-004 ANGP
- 16. MCREHOUSE 70
- QUINN 73
- ? BALLAM 72
- BOYARSKI 70
- MUSGRAVE 71B

*PI- ANYTHING
- 2.0-19. SLAC-E-112 ANGP
- 3.0-6.3 STRUCZINSKI 71
- 3.7-400 WHITMORE 75C
- 4.3 ABRAMIAN 75
- 5.5 SCHACHTER 77

GAMMA P --> (CONT.)

*PI- ANYTHING (CONT.)
- 5.5-6.5 DESY-136
- 6.0 BURFEINDT 73 ANGP, CS,MASS,P,PT
- 9.8 KAUNE 74
- 14. KAUNE 74
- 18. BOYARSKI 71D
- ? WHITMORE 75B

*ETA P
- .33-5.8 ERBE 68B
- .70-.90 DELCOURT 69
- .70-1.4 MOFFEIT 71
- .80-1.0 BACCI 66
- .80-1.1 MEUSCH 70
- WINSTEIN 70
- .80-1.4 ROCHESTER 68
- .89 HONGOH 71
- UKAI 74A
- UKAI 74B
- YOSHIDA 74
- 1.0 MONGOH 71
- UKAI 74B
- YOSHIDA 74
- 1.2-1.5 BOOTH 74B
- 1.2-2.0 BOOTH 71
- 1.5-1.8 ITO 70B
- 1.5-2.2 CHRIST 73B
- 1.6-6.3 STRUCZINSKI 75
- 2.0-2.2 BOOTH 74B
- 2.5 BUSSEY 76
- 3.0 BUSSEY 76 ANGP, ASYM,CS
- 4.0 BRAUNSCHWEIG 70B
- DEWIRE 71
- RITCHIE 72
- 6.0 BRAUNSCHWEIG 70B
- SLAC-E-108 ANGP, ASYM
- SLAC-E-108 ANGP, ASYM
- 12. SLAC-E-108 ANGP, ASYM
- TOMPKINS 69
- 18. TOMPKINS 69
- ? JOHNSON 70

*ETA ANYTHING
- 2.1 EISNER 74B CS

*RHO0 N
- 8.7-10. MAY 76
- 9.6 ABRAMSON 76B DME

*RHO0 DEL3
- 2.8 PODOLSKY 71
- 4.7 PODOLSKY 71

*RHO0 P
- .9-4.0 BARTALUCCI 76 ANGP, CS
- .30-5.8 ERBE 68B
- .40-5.8 LUKE 72
- 1.4-3.3 CRIEGEE 70
- 1.6-4.0 NOTZ 73
- 1.6-6.3 STRUCZINSKI 75
- 2.0-6.8 ALVENSLEBEN 69B
- 2.8 BALLAM 72
- 2.9-4.7 GLADDING 73B ANG, ANGP,CS,DME
- 4.0-6.0 STRUCZINSKI 72
- 4.0-9.0 MCCLELLAN 70
- 4.1-6.1 ALVENSLEBEN 70
- 4.2-6.2 BERARDO 71C
- 4.3 EISENBERG 71
- 4.7 BALLAM 72
- KOGAN 75 ANG,ANGP, CS,DME,MULT
- 5.8-18. PARK 71
- 6.0-18. BARISH 74H
- 7.2 BARTALUCCI 77B
- 7.5 ALEXANDER 74B
- ALEXANDER 75C
- 8.5 BERGER 71
- BERGER 72C
- WALSTROM 72
- 9.0-16. GIESE 74 ANGP,CS, DME,MASS
- 9.3 KOGAN 75 ANG,ANGP, CS,DME,MULT
- 10.-60. CERN-WA-004 ANGP, ASYM
- 20.-200 FNAL-263 ANGP
- *A1(1100)+ DEL++
- 3.0-6.3 SCHACHT 74 CS
- 5.5-9.0 SCHACHT 74
- 9.0-18. SCHACHT 74 CS

GAMMA P --> (CONT.)

*RHO0 P (CONT.)
- DAVIER 70
- DIAMBRINIPAL 70
- KANAGUCHI 70

*RHO0 N(1680)P13+
- 6.8-8.2 ALEXANDER 73D CS

*RHO0 DEL+
- 1.4-4.0 NOTZ 73
- 1.6-6.3 STRUCZINSKI 75
- 2.8 PODOLSKY 71
- 4.7 PODOLSKY 71
- ? STRUCZINSKI 75 CS

*RHO0 ANYTHING
- 2.8 KOGAN 75 CS,MASS, P
- KOGAN 76 ANG,ANGP, CS,MULT,P,PT
- 4.7 KOGAN 75 CS,MASS, P
- KOGAN 76 ANG,ANGP, CS,MULT,P,PT
- 9.3 KOGAN 75 CS,MASS, P
- KOGAN 76 ANG,ANGP, CS,MULT,P,PT

*RHO- DEL++
- 1.6-4.0 NOTZ 73
- 1.6-6.3 STRUCZINSKI 75
- 2.8 PODOLSKY 71
- 4.7 PODOLSKY 71
- 8.7-10. MAY 76
- 9.6 ABRAMSON 76B ANGP, CS,DME
- 9.7 NELSON 76C ANGP, CS,DME

*OMEGA P
- .0-4.0 BARTALUCCI 76 ANGP, CS
- TOMPKINS 69
- ASYM
- .30-5.8 ERBE 68B
- 1.1-1.8 TAYLOR 70
- 1.2-8.2 ESSEBERG 71B
- 1.6-4.0 NOTZ 73
- 1.6-6.3 STRUCZINSKI 75
- 2.0-16. CAVIER 75C
- 2.8 PODOLSKY 71
- 2.8-4.8 CLIFFT 77 ANGP
- 2.9-4.7 GLADDING 73B ANGP, CS
- 4.3 KOGAN 75 CS
- 4.7 PODOLSKY 71
- 7.2 BARTALUCCI 77B
- 7.4-9.7 ABRAMSON 75
- 7.5-10. ABRAMSON 76
- 8.0 SINGER 76B
- 9.3 BALLAM 71C
- 10.-60. CERN-WA-004 ANGP, ASYM
- ? BALLAM 70
- BEHREND 71B

*OMEGA DEL+
- 9.7 NELSON 76C ANGP, CS,DME

*OMEGA ANYTHING
- 7.4-10. NELSON 76C

*ETAPRIME P
- .30-5.8 ERBE 68B

*X1960 P
- 8.0 LOE 72

*PHI P
- .0-4.0 BARTALUCCI 76 ANGP; CS
- .30-5.8 ERBE 68B
- .57-1.2 WOLVERTON 68
- 2.0 BRAMTH 74 ANGP
- 3.0-9.2 MCCLELLAN 71
- 4.6-6.7 BEHREND 75
- HEINE 76
- 5.6 SANDLER 71
- 6.0-19. ANDERSON 73B
- HALPERN 76
- 6.3-9.0 SWARTZ 71
- 6.4-9.0 MCCLELLAN 71B
- 7.2 BARTALUCCI 77B
- 8.1 HALPERN 72
- 8.5 BERGER 71
- BERGER 72C
- 10.-60. CERN-WA-004 ANGP, ASYM
- 20.-200 FNAL-263 ANGP
- *A1(1100)+ DEL++
- 3.0-6.3 SCHACHT 74 CS
- 5.5-9.0 SCHACHT 74
- 9.0-18. SCHACHT 74 CS

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA P --> (CONT.)

*Y(1110)0 P
0.-4.0 BARTALUCCI 76 ANGP, CS
*B(1235)0 P
2.8 PDOOLSKY 71
4.7 PDOLSKY 71
13.-60. CERN-WA-004 ANGP, ASYM
*RHOPRIME(1250)0 P
0.-4.0 BARTALUCCI 76 ANGP, CS
*F P
1.6-6.3 STRUCZINSKI 75
*A2(1310)+ N
1.6-6.3 STRUCZINSKI 75
2.8 PDOOLSKY 71
4.3 EISENBERG 69B
4.7 PDOLSKY 71
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1.6-6.3 STRUCZINSKI 75
3.0-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS
*Y(1370)0 P
0.-4.0 BARTALUCCI 76 ANGP, CS
*Y(1550)0 P
0.-4.0 FARTALUCCI 76 ANGP, CS
*RHOPRIME(1600)0 P
3.0-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS
9.3 BINGHAM 72C
SMAEJA 72
10.-60. CERN-WA-004 ANGP, ASYM
*Y(1750)0 P
0.-4.0 BARTALUCCI 76 ANGP, CS
*J/PSI(3100)0 P
10. MARTIN 74E
19. GILMAN 75C ANGP
*J/PSI(3100)0 ANYTHING
13.-21. PREPOST 75 CS, MASS
19. CAMERINI 75
*PSI(3700)0 ANYTHING
13.-21. PREPOST 75 CS, MASS
*K+ LAMBDA
.060-2.1 DEANS 72B
.94-1.8 FOURNEREN 71
.97-1.7 DECAMP 71
1.0 FUJII 70
1.0-1.2 IWATA 70
1.0-2.0 DECAMP 70
1.0-2.2 FELLER 71
FELLER 72
1.1 MICZAIKA 77 ANP, ASYM,PWA
ORITO 69
1.2 ORITO 69
1.2-1.7 GOING 71
1.3-1.4 BLECKMANN 70B
4.0 ANDERSON 76 ANGP, CS
4.0-6.0 TYSON 68
5.0 VOGEL 72B
5.0-15. CAPELLA 71
5.0-16. BCYARSKI 69
6.0 ANDERSON 76 ANGP, CS
11. BOYARSKI 71
16. QUINN 73
? DEANS 72
FELLER 72
RENARD 71
*K+ LAM(1520)033
11. BOYARSKI 71
*K+ SIGMA0
1.0-2.2 FELLER 71
1.2-1.7 GOING 71
1.3-1.4 BLECKMANN 70B
4.0 ANDERSON 76 ANGP, CS
4.0-6.0 TYSON 68
5.0 MOREHOUSE 70
5.0-16. BOYARSKI 69
6.0 ANDERSON 76 ANGP, CS

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*K+ SIGMA0 (CONT.)
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16. MOREHOUSE 70
QUINN 73
*K+ NEUTRAL(S1)
3.0-6.0 LU 70
*K+ ANYTHING
6.0 BURFEINDT 73 ANGP, CS,MASS,P,PT
16. BOYARSKI 710
*K0 SIGMA+
2.2-5.0 ALBROW 70C
4.0-6.0 TYSON 68
*K- ANYTHING
6.0 BURFEINDT 73 ANGP, CS,MASS,P,PT
*P MM,GE.2
2.9-4.7 GLADDING 73B ANGP, MASS
*P ANYTHING
1.9-4.7 GLADDING 73
6.0 BURFEINDT 73 ANGP, CS,MASS,P,PT
9.8 KAUNE 74
14. KAUNE 74
? ANDERSEN 70D
*ANYTHING STRANGE
9.3 BINGHAM 73 CS
*ANYTHING VEE
1.6-4.0 NOTZ 73
*2GAMMA ANYTHING
23.-60. FNAL-152B ANGP
*MU- MU+ ANYTHING
? DAVIS 72E
*P 2GAMMA
1.2-2.8 BUSSEY 75 MASS
*P E- E+
0.-4.0 BARTALUCCI 76 MASS
0.-5.0 BIGGS 69
0.-7.2 BARTALUCCI 77C MASS
BARTALUCCI 77D MASS
7.2 BARTALUCCI 77B ANG, MASS
18. MARTIN 74E
*P PI+ PI-
0.-1.0 GIALANELLA 69
.40-5.0 LUKE 72
.40-5.8 LUKE 72
.55-.85 PALAZZI 68
.60-.90 BENEVENTANO 73
.70-.80 LUKE 72
.80-1.5 SHANKS 68
1.0-2.0 ETSENHANDLER 68
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
1.8-2.5 LUKE 72
2.6-6.8 ALVENSLEBEN 69
2.8 BALLAM 72
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MOFFEIT 71
2.9-4.7 GLADDING 73B ANGP, MASS
3.0-6.0 DITTMANN 71
4.7 BALLAM 72
MOFFEIT 70
MOFFEIT 71
7.5 ALEXANDER 74B
ALEXANDER 74E
9.3 BALLAM 71G CS
BINGHAM 73 CS
KOGAN 75 ANGP,DME, MASS
? DAVIER 70
*P 2PI0
0.-4.73 KITAGAKI 71
.60-.90 BENEVENTANO 73
*P PI0 PI-
.34-.90 PIAZZA 70
*P RHO+ PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*P RHO0 PI0
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*P RHO- PI+
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*P OMEGA ANYTHING
? BEHREND 71
*P K+ K-
4.0-6.0 TYSEN 68
4.0-7.0 DESY-094 FV

GAMMA P --> (CONT.)

*P K+ K- (CONT.)
4.6-6.7 HEINE 76
9.3 BINGHAM 73 CS
? DAVIER 73
*2P 2P
4.0-7.0 DESY-094 FV
9.3 BINGHAM 73 CS
*N PI+ PI0(S)
1.6-6.3 STRUCZINSKI 75
*N PI+ PI-
.34-.90 PIAZZA 70
*N RHO0 PI+
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*DEL++ PI0 PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*DEL++ RHO0 PI-
1.6-6.3 STRUCZINSKI 75
2.7-8.2 ALEXANDER 73D ANGP, CS
3.0-6.3 SCHACHT 74 CS
3.7-8.2 ALEXANDER 73D
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS
*DEL+ PI+ PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
? STRUCZINSKI 75 CS
*DEL- 2PI+
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
*3PRONG
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.3-16. DAVIER 70
? ALEXANDER 74E
9.3 BINGHAM 73 CS
*3GAMMA ANYTHING
20.-60. FNAL-152B ANGP
*P PI+ PI0
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
3.0-6.3 PELLMANN 73
9.3 BINGHAM 73 CS
*P PI+ PI- PI0S
1.6-6.3 STRUCZINSKI 75
*P PI+ PI- MM,GE.2
1.6-4.0 NOTZ 73
2.8 BALLAM 73 ANG, ANGP,MASS
4.7 BALLAM 73 ANG, ANGP,MASS
9.3 BALLAM 73 ANG, ANGP,MASS
*P PI+ PI- NEUTRAL(S1)
2.8 CHUNG 74 MASS
4.7 CHUNG 74 MASS
9.3 CHUNG 74 MASS
*P ETA PI+ PI-
1.6-6.3 STRUCZINSKI 75
*P RHO0 PI+ PI-
1.6-6.3 STRUCZINSKI 75
2.7-8.2 ALEXANDER 73D ANGP, CS
3.0-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS
*P OMEGA PI+ PI-
1.6-6.3 STRUCZINSKI 75
*P RHOPRIME(1600)0 PI+ PI-
3.3-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS
*N 2PI+ PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
4.3 EISENBERG 69B
5.2 EISENBERG 69B
7.5 ALEXANDER 74E
9.3 BINGHAM 73 CS
*DEL++ PI+ 2PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.7-8.2 ALEXANDER 73D ANGP, CS
3.0-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS; DME
*DELO 2PI+ PI-
3.0-6.3 SCHACHT 74 CS
5.5-9.0 SCHACHT 74
9.0-18. SCHACHT 74 CS; DME

GAMMA P --> (CONT.)

*P 2PI+ 2PI-
0.-18. DAVIER 73
1.5-8.2 ALEXANDER 73D
1.5-10. ALEXANDER 73D
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.8 BALLAM 73 MASS
3.0-6.3 SCHACHT 74 ANG, ANGP,CS,MASS, P,PT
3.0-18. SCHACHT 73 MASS
4.7 BALLAM 73
5.5-9.0 SCHACHT 74
7.5 ALEXANDER 74E
9.0-18. PARK 73
SCHACHT 74 ANG, ANGP,CS,MASS, P,PT
9.3 BALLAM 73 MASS
BINGHAM 72C
BINGHAM 73 CS
? DAVIER 70
*P RHO0 PI+ PI0 PI-
1.6-6.3 STRUCZINSKI 75
*P K+ K- PI+ PI-
9.3 BINGHAM 73 CS
*N 2PI+ PI- MM,GE.2
1.6-4.0 NOTZ 73
*DEL++ PI+ PI0 2PI-
1.6-6.3 STRUCZINSKI 75
*DEL- 3PI+ PI-
1.6-6.3 STRUCZINSKI 75
*3PRONG
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.0-16. DAVIER 70
7.5 ALEXANDER 74E
9.3 BINGHAM 73 CS
*P 2PI+ PI0 2PI-
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.8 BALLAM 73 MASS
4.7 BALLAM 73 MASS
9.3 BALLAM 73 MASS
LINGHAM 73 CS
? ALEXANDER 74C
GRIMMEIED 74
*P 2PI+ 2PI- PI0S
1.6-6.3 STRUCZINSKI 75
*P 2PI+ 2PI- MM,GE.2
1.6-4.0 NOTZ 73
*N 3PI+ PI0 MASS
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
9.3 BINGHAM 73 CS
*P 3PI+ 3PI-
1.6-6.3 STRUCZINSKI 75
9.3 BINGHAM 73 CS
? DAVIER 70
*P K+ K- 2PI+ 2PI-
9.3 BINGHAM 73 CS
*N 3PI+ 2PI- PI0(S)
1.6-6.3 STRUCZINSKI 75
*N 3PI+ 2PI- MM,GE.2
1.6-4.0 NOTZ 73
*3PRONG
1.6-4.0 NOTZ 73
1.6-6.3 STRUCZINSKI 75
2.0-16. DAVIER 70
7.5 ALEXANDER 74E
9.3 BINGHAM 73 CS
*N 4PI+ 3PI-
1.6-6.3 STRUCZINSKI 75
*N 4PI+ 3PI- PI0(S)
1.6-6.3 STRUCZINSKI 75
*3PRONG
2.0-16. CAVIER 70
7.5 ALEXANDER 74E
9.3 BINGHAM 73 CS
*P 4PI+ PI0 4PI-
9.3 BINGHAM 73 CS
*OMEGA P
* RHOC P
6.0 TOMPKINS 69

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GAMMA P --> (CONT.)

+OMEGA P
+ RHO0 P
8.0 TOMPKINS 69
12. TOMPKINS 65
18. TOMPKINS 65
+OMEGA P
+ P RH00 PIO
4.0 ANDERSEN 76 ANGP,
CS
6.0 ANDERSON 76 ANGP,
CS
+K+ LAMBDA
+ K+ SIGMA0
16. QUINN 75 ASYM
+K+ SIG(1385P1310
+ K+ LAM(1405S01)
11. BCVARSKI 71
+A00 CHARMEE-BARYON
+ D- CHARMED-BARYON
9.3 QUINN 76 CS
+P MM.GE.2 --> P K+ K-
2.9-4.7 GLADDING 73B MASS
+PI+ PIO ANYTHING
+ PI0 PI- ANYTHING
9.6 ABRAMSON 76B MASS
GAMMA N -->
(+NOT ENCODED)
0.-.23 ACAMCVICH 68
0.-.50 KONDO 70B
0.-1.1 HEUSCH 71
0.-2.3 KELLNER 75 CS,PWA
0.-12. ALEXANDER 71
.45-.80 BACCI 72G
.73 YOSHIMURA 70
1.1-1.3 JUREWICZ 77B
4.3 EISENBERG 70
4.7 OSBORNE 72B
7.5 GANDSMAN 73
8.2 OSBORNE 72B
7 ALTHOFF 77
GOVOROV 66
NEFKENS 73
RICHDEN 74 CS
+PI+
16. QUINN 73
+N(1688P15)0
.60-1.2 SCHEFFLER 74
+HADRONS
12.-30. BELOUSOV 75 CS
-STRANGED
4.3 EISENBERG 75 CS
+NICHARGED)
4.3 EISENBERG 75 MULT
+2PRONG
4.3 EISENBERG 75 CS
+NEUTRALS
3.5-4.7 EISENBERG 76D
7.5 ALEXANDER 76E
+ANYTHING
3.5-4.7 EISENBERG 76D
3.7-18. HESSE 70
4.3 EISENBERG 75 CS
7.5 ALEXANDER 76E
+PI+ N
.17-.43 GANENKO 76C
+PI+ DEL+
7.5 ALEXANDER 76B
7 BDYARSKI 72C
HUSGRAVE 71B
+PI0 N
.24-.50 SUZUKI 74D
.25-.45 CLIFFT 74 ANGP,CS
.35-.43 CHRIST 76
.50 HEMMI 71
.50-.90 HEMMI 70
FEMMI 73B
.90 HEMMI 71
4.0 GOLDN 71
4.7 OSBORNE 72B
8.2 CSBORNE 72B
+PI0 DELO
7 BDYARSKI 70
+PI- P
0.-1.6 KNIES 76B
0.-.60 ARGAN 75 ANGP
0.-.90 ANANIEN 73
.15-1.7 CRAWFORD 75
.17-1.5 ROSSI 73
.17-1.7 CARBONARA 72
.18-1.0 LODIRIZZINI 70
.20-.45 CHIEFARI 75 CS
.20-2.0 BENZ 73
BENZ 73C
HILPERT 68

GAMMA N --> (CONT.)

+PI- P (CONT.)
.20-2.6 FISCHER 75B
.24-.40 VONHOLTEY 74
.24-.50 SUZUKI 74D
.25 GANENKO 74 ANGP,
ASYM
.25-.45 CLIFFT 74 ANGP,CS
.25-.50 GANENKO 76E
.25-.79 FUJII 76 ANGP,CS
.26 KONDO 74 ANGP,CS,
PCL
.30 GANENKO 72C
GANENKO 74 ANGP,
ASYM
KENDO 74 ANGP,CS,
PCL
LAPIN 75B ANGP
.30-1.2 FUJII 71
TAKASAKI 71
.35 GANENKO 74 ANGP,
ASYM
KONDO 74 ANGP,CS,
PCL
.36-.55 KONDO 70
.40 GANENKO 72C
GANENKO 72D
GANENKO 74 ANGP,
ASYM
KENDO 74 ANGP,CS,
PCL
.43-.73 MEYER 77B
.45 GANENKO 74 ANGP,
ASYM
KONDO 74 ANGP,CS,
PCL
.45-.95 METCALF 74B
.45-2.0 ALTHOFF 75
.50 GANENKO 72C
GANENKO 72D
GANENKO 74 ANGP,
ASYM
KENDO 74 ANGP,CS,
PCL
.50-.90 BENEVENTANO 74
.50-1.0 NEUGEBAUER 60
.50-1.2 SCHEFFLER 72
.50-2.2 KADANOFF 75
.51 BENEVENTANO 70
.53 GANENKO 72D
.53-.91 MEIS 75B
.55-.90 GONCHAROV 71
.60-1.2 SCHEFFLER 70
SCHEFFLER 74
WALKER 72
.61-.81 KNIES 74
.70 ALTHOFF 76C ASYM
.71 BENEVENTANO 70
1.2 KRIVETS 74 ANGP
1.7-2.0 ITO 70
2.6-6.0 HEIDE 68B
3.4 BARYAN 67
GEWENIGER 68
3.4-5.0 DESY-129 ASYM
4.3 ALEXANDER 76E
8.0-16. BDYARSKI 68B
15.-16. SHERDEN 73 ANGP,
ASYM
16. QUINN 73
7 CARBONARA 70
JENKINS 54
KENEMUTH 63
MUSGRAVE 71B
NISHIKAWA 68
+PI- DEL+
7 BDYARSKI 70
+PI- ANYTHING
.18-1.0 LODIRIZZINI 70
+RHO0 N
4.3 KOGAN 75 CS,MASS
7.5 ALEXANDER 76E
ALEXANDER 75C
+RH0- P
.90-5.3 BENZ 74
4.3 EISENBERG 71
+RH0- ANYTHING
9.7 NELSON 76C MASS
+J/PSI(3100)0 N
18. MARTIN 76E
+K+ SIGMA-
5.0 MORENOUSE 70
11. BDYARSKI 71
16. MORENOUSE 70
QUINN 73
+K+ SIG(1385P13)-
11. BDYARSKI 71

GAMMA N --> (CONT.)

+2PRONG
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS
7.5 ALEXANDER 76E
+ANYTHING STRANGE
3.5-4.7 EISENBERG 76D
+P PI0 PI-
.90-5.3 BENZ 76
5.5 STORIM 73
7.5 ALEXANDER 76E
+P RH00 PI-
7.5 ALEXANDER 76B
+N E- E+
16. MARTIN 76E
+N PI+ PI-
7.5 ALEXANDER 76B
ALEXANDER 76E
+P PI+ 2PI-
4.3 EISENBERG 71C
7.5 ALEXANDER 76E
ALEXANDER 76B
7 EISENBERG 71C
+PRONG
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS
7.5 ALEXANDER 76E
+N 2PI+ 2PI-
4.3 EISENBERG 71C
7.5 ALEXANDER 76E
7 EISENBERG 71C
+PRONG
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS
7.5 ALEXANDER 76E
+RH0+ ANYTHING
+ RH0- ANYTHING
5.7 NELSON 76C MASS,P
+PI+ PI0 ANYTHING
+ PI0 PI- ANYTHING
NELSON 76C MASS
GAMMA NUCLEON -->
(+NOT ENCODED)
0.-1.1 LENGACRE 75
KONIGSMANN 77
+PION NUCLEON
3.-14.5 BEALE 66
.18-.44 BENZ 73B
7 ADAMOVICH 68B
GOLDSTEIN 73
WALKER 62
+PI+ NUCLEON
.32-.82 ENDO 73
+PI0 NUCLEON
.40-.80 BACCI 67
.50-.94 VETTE 58
.60-.80 WARLOCK 60
7 BERKELMAN 60
CROISSEAUX 67
+PI- NUCLEON
.32-.82 ENDO 73
+PI- ANYTHING
7 STRUCZINSKI 73
+ETA NUCLEON
3.-90 DUDKIN 73
+PHI NUCLEON
5.2 ALVENSLEBEN 72
7 HIRSCHMANN 75
+J/PSI(3100) NUCLEON
0.-100 LEE 75C ANGP,CS
11. ANDREWS 75 ANGP,
CS
12. GITTELMAN 75
GITTELMAN 75B
18. DAKIN 75 CS
20. DAKIN 75B
+J/PSI(3100 ANYTHING
0.-12. THEODOSIOU 76
20. ANDERSON 76L CS,
PT
+CHARM ANYTHING
2.2-16. PREPOST 75
+TACHYON ANYTHING
7 PEREPELITSA 76 CS
+E- E+ ANYTHING
9.-12. THEODOSIOU 76
7 BARTALUCCI 77C
+NUCLEON MU- MU+
20. DAKIN 75B

GAMMA NUCLEON --> (CONT.)

+2MU- HADRONS
+ 2MU+ HADRONS
20. SAKIN 75B
GAMMA DEUT -->
(+NOT ENCODED)
0.-.45 SOBER 69B
0.-5.3 KNIES 70
0.-9.6 MEYER 72B
.13-1.2 ROSSI 73
.22-.34 ANDERSON 69G
.24-.32 SOBER 69
.24-.41 VONHOLTEY 72
.26-.42 ARMSTRONG 72
RAWLINSON 72
.45-.80 BACCI 72G
.50 FEMMI 71
.50-.80 BENEVENTANO 69
.50-1.2 SCHEFFLER 72
.51 BENEVENTANO 70
.60-1.2 SCHEFFLER 70
.60-1.7 PAMAKUSKAS 70
.71 BENEVENTANO 70
.72-1.2 YELLIN 71
.90 BACCI 69
BACCI 71
.90-5.3 SCHIFFER 72
1.0-6.4 MEYER 72B
3.7-18. HESSE 70
4.0-8.8 OGREN 70
4.3 EISENBERG 71C
4.7 CSBORNE 72B
6.4-9.0 CECLEER 71B
8.2 CSBORNE 72B
8.8 BULOS 67
7 ADAMOVICH 74
BENEVENTANO 58
BURC 63
CHANG 69
KLINESMITH 67
LAND 59
LIU 64
PINE 63
SANDS 54B
SWANSON 65
WHITE 52
+PRONG
3.5-4.7 EISENBERG 75
EISENBERG 76D
4.3 ALEXANDER 76E
+NEPRONG)
7.5 ALEXANDER 76E
+ANYTHING
3.5-4.7 EISENBERG 76D
3.7-18. CALDWELL 73
4.3 KOGAN 75 CS,MULT
7.0-18. CALDWELL 69D
CALDWELL 70B
7.5 ALEXANDER 73
ALEXANDER 76E
12.-30. BELOUSOV 73E
14.-300 FNAL-325A CS
CALDWELL 69B
+GAMMA DEUT
4.0 BRAUNSCHWEIG 73
5.0 CRIEGEE 77 AMP,
ANGP,CS
CRIEGEE 77B
6.0 CRIEGEE 73 AMP,
CRIEGEE 77 AMP,
ANGP,CS
CRIEGEE 77B
8.0 BDYARSKI 71B
16. BDYARSKI 71B
7 BDYARSKI 71B
+PI+ ANYTHING
.26-.80 FUJII 72
2.0-19. SLAC-E-112 ANGP
+PI0 DEUT
.18-.80 BOLDYSHEV 73
.22-.50 BOUQUET 72
BOUQUET 72B
GRELAUD 72
.22-1.4 BOUQUET 74B
.24-.40 VONHOLTEY 73
.26-.40 HIEBER 71
.28 OSLAND 75 ANGP
.30-.40 BOLOGNA 72
.32 OSLAND 75 ANGP
.35 GANENKO 73 ANGP,
ASYM
.80 PETROFF 73
1.0 PETROFF 73 AMP,
ANGP,CS
1.2 PETROFF 73 AMP,
ANGP,CS

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GAMMA DEUT --> (CONT.)

*PIO DEUT (CONT.)
1.4 PETROFF 73 ANP,
ANGP,CS
*PI- ANYTHING
.26-.80 FUJII 72
2.0-19. SLAC-E-112 ANGP
7.5 ALEXANDER 73
*ETA DEUT
.453-.78 ANDERSON 69H
.85 BACCI 68
*RHO+ ANYTHING
9.6 ABRAMSON 76B CS
*RHO0 DEUT
.90-5.3 BENZ 74
1.0-5.0 HILPERT 70B
3.0 BAPU 77 ANG,ANGP,
CS,DME
3.5-4.7 EISENBERG 76D
4.0-9.0 MCCLELLAN 71D
4.3 EISENBERG 71
EISENBERG 75B ANGP,
CS,DME
KOGAN 75 ANG,ANGP,
CS,DME,MASS
6.0 ANDERSON 71F
OVERMAN 71
7.5 ALEXANDER 74B
ALEXANDER 75
ALEXANDER 75C
9.0-16. GIESE 74 ANGP,CS,
DME,MASS
12. ANDERSON 71F
OVERMAN 71
18. ANDERSON 71F
OVERMAN 71
*RHO- ANYTHING
9.6 ABRAMSON 76B CS
*OMEGA DEUT
3.5-4.7 EISENBERG 76D
3.9 MORRIS 76 ANGP,CS
4.3 EISENBERG 71
EISENBERG 75B
ANGP,
CS
KOGAN 75 CS
7.4-9.7 ABRAMSON 75
7.5 ALEXANDER 75
7.5-10. ABRAMSON 72
*OMEGA ANYTHING
3.9 MORRIS 76 AMP,ANG,
ANGP,CS
*PHI P
7 KAMAGUCHI 70
*RHOPRIME(1600) DEUT
7.5 ALEKANDROV 75
*JPSI(3100) ANYTHING
13.-21. CAMERINI 75
55. NASH 76 CS,PT
*PSI(3700) ANYTHING
21. CAMERINI 75
*N P
.410-.20 DOUGAN 73E ANG,CS
.414-.83 DOUGAN 75B
.430-.70 SCHROCK 69
.430-.72 KAMAE 76B
*DEL++ ANYTHING
1.0-5.5 BENZ 74B ANG,MASS,
P
*2PRONG
7.5 ALEXANDER 73
*ANYTHING STRANGEO
3.5-4.7 EISENBERG 75
*ANYTHING STRANGE
3.5-4.7 EISENBERG 76D
*E- E ANYTHING
13.-21. CAMERINI 75
55. NASH 76 MASS
*MU- MU+ ANYTHING
13.-21. CAMERINI 75
*P(SPECT) P PI-
.25-.50 BOUCROT 73 ANGP
.50-1.0 STERNHEIMN 76
7 ARSAN 74
*P(SPECT) P RHO-
3.0 BAPU 75
BAPU 77 AMP,ANG,
ANGP,CS,DME
*P(SPECT) N PIO
.27-.37 DICAPUA 73
*P(SPECT) N RHO0
3.0 BAPU 75
BAPU 77 ANG,ANGP,
CS,DME
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B
ANGP,
CS,DME

GAMMA DEUT --> (CONT.)

*P(SPECT) DEL- PI+
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B CS
*N(SPECT) P PIO
.27-.37 DICAPUA 73
*N(SPECT) P RHO0
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B
ANGP,
CS,DME
*N(SPECT) DEL++ PI-
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B CS
7 ALEXANDER 75C CS
*2P PI-
.9-.60 ARGAN 75 MASS
.13-.35 BENEVENTANO 72
*.20-2.0 BENZ 73
BENZ 75C
*.24-.40 VONHOLTEY 74
.25 BOUCROT 73B
.28 BOUCROT 73B
.33 BOUCROT 73B
.37 BOUCROT 73B
.40 BOUCROT 73B
1.0-2.0 DANNHAUSEN 75B CS
NIEHAUS 76 ANGP
6.0 CRIEGEE 77 AMP,
ANGP,CS
*P N PIO
.13-.35 HILGER 75B
.24 REICHELT 74
.30-.70 ANDO 74
7 CHRISTIBCNN 74
*P N RHO0
1.0-5.0 HILPERT 70C
3.5-4.7 EISENBERG 76D
4.3 KOGAN 75 DME
*P N OMEGA
3.9 MORRIS 76 ANGP,CS
8.0 SINGER 76B
*P DEL- RHO+
8.7-10. MAY 76
*2N PI+
.15-.16 BOOTH 76B
.20-.40 ALEKSANDROV 74B
.24-.40 VONHOLTEY 74
.60-1.2 SCHEFFLER 74
1.0-2.0 DANNHAUSEN 75B CS
NIEHAUS 76 ANGP
*DEUT PI+ PI-
.90-5.3 BENZ 74
3.0 BAPU 77 CS,MASS
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS,P
EISENBERG 75B MASS
5.5 GUPTA 74B
GUPTA 76
7.5 ALEXANDER 74B
ALEXANDER 74E
ALEXANDER 75
*DEUT OMEGA ANYTHING
7.5 BEHREND 71
*DEUT K+ K-
5.5 GUPTA 74B
GUPTA 76
*DEUT P(SPECT) RHO0
3.0 BAPU 75
*3PRONG
7.5 ALEXANDER 73
ALEXANDER 74E
*PI+ PIO PI- ANYTHING
3.9 MORRIS 76 MASS
*P(SPECT) P PIO PI-
.90-5.3 BENZ 74
3.0 BAPU 75
BAPU 77 CS,MASS
*P(SPECT) N PI+ PI-
3.0 BAPU 77 CS,MASS
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B
MASS
*N(SPECT) P PI+ PI-
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75B
MASS

GAMMA DEUT --> (CONT.)

*2P PIO GAMMA
.24 REICHELT 74
*2P PIO PI-
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS,
MASS
*P N PI+ PI-
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 ANG,
CS,MASS,P
*2N PIO GAMMA
.24 REICHELT 74
*DEUT PI+ PIO PI-
.90-5.3 BENZ 74
3.5-4.7 EISENBERG 76D
4.3 EISENBERG 75 CS,
MASS
EISENBERG 75B
5.5 GUPTA 76
7.5 ALEXANDER 73
*4PRONG
7.5 ALEXANDER 73
*2GAMMA 2PRONG ANYTHING
3.9 MORRIS 76 MASS
*2P PI+ 2PI-
4.3 EISENBERG 75 CS
9.5 GUPTA 74B
*DEUT 2PI+ 2PI-
4.3 EISENBERG 75 CS
5.5 GUPTA 74B
GUPTA 76
7.5 ALEXANDER 74E
ALEXANDER 75
*5PRONG
7.5 ALEXANDER 73
ALEXANDER 74E
*2P PI+ PIO 2PI-
4.3 EISENBERG 75 CS
7.5 ALEXANDER 74E
*P N 2PI+ 2PI-
4.3 EISENBERG 75 CS,
MASS
*6PRONG
7.5 ALEXANDER 73
*7PRONG
7.5 ALEXANDER 73
ALEXANDER 74E
*8PRONG
7.5 ALEXANDER 73
ALEXANDER 74E
*9PRONG
7.5 ALEXANDER 73
ALEXANDER 74E
*RHO0 NON-RES + P N >
* RHO0 DEUT
1.0-5.0 HILPERT 70B
4.3 EISENBERG 71
*2PRONG
* 3PRONG
3.5-4.7 EISENBERG 75
EISENBERG 76D
*4PRONG
* 5PRONG
3.5-4.7 EISENBERG 75
EISENBERG 76D
*6PRONG
* 7PRONG
3.5-4.7 EISENBERG 75
EISENBERG 76D
*P(SPECT) SIGMA- K+
* N(SPECT) LAMBDA K+ *
N(SPECT) SIGMAO K+
16. QUINN 75 ASYM
GAMMA HE3 -->
*(NOT ENCODED)
0.-.80 GOGGI 68
? GOGGI 68B
*PION ANYTHING
0.-.50 DEUTSCH 75
*PI+ P
0.-.42 GOGGI 74
.25-.45 EZRA 76
.27-.45 BACHELIER 74
? BACHELIER 75B
*PIO HE3
0.-.34 BLECHER 69
*P DEUT
.020-.20 GOGGI 74
.25-.55 HEUSCH 75E
*PI+ PI- ANYTHING
.020-.20 GOGGI 74

GAMMA HE3 --> (CONT.)

*HE3 PI+ PI-
.025-.20 GOGGI 74
*3P PI-
.020-.20 GOGGI 74
GAMMA HE -->
*(NOT ENCODED)
0.-.33 STAPLES 69
.20-.46 PICOZZA 69
? GUARDIOLA 71
*PIO HE
.26-.80 LEFRANCOIS 70
*PIO ANYTHING
.16-.24 BELOUSOV 71
*2DEUT
? HARTMANN 76
*HE E- E+
3.6-03 AUGERAT 71
GAMMA LI -->
*(NOT ENCODED)
.90 BACCI 69
*GAMMA LI
.27-.37 BERON 73
*GAMMA ANYTHING
.27-.37 BERON 73
*B ION ANYTHING
0.-.50 DEUTSCH 75
*PI+ HE
.14-.15 DEUTSCH 74
*PI- ANYTHING
.14-.15 DEUTSCH 74
*PIO ANYTHING
.27-.37 BERON 73
GAMMA BE -->
*(NOT ENCODED)
0.-6.2 JORDAN 65
0.-9.6 MEYER 72E
.007 ROBERTSON 72
2.0 ABRAHAMIAN 73B
ABRAMYAN 73B
2.0-3.0 ABRAHAMYAN 72
3.0 ABRAMYAN 73B
3.5-5.3 MEYER 71
4.8-7.2 HELSSLEBEEN 70F
6.8 FOA 70
8.8 BULOS 67
*ANYTHING
1.5-5.7 HEYNEN 71
*PIONS K5
80. LEE 75E MASS
*PI- ANYTHING
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
*PIO BE
4.4 BROWMAN 74B
6.6 BROWMAN 74B
*PIO ANYTHING
4.4 GITTELMAN 74 ANGP
6.6 GITTELMAN 74 ANGP
*PI- ANYTHING
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
*ETA ANYTHING
2.0 ABRAHAMIAN 73 CS
ABRAMYAN 73
5.8 BROWMAN 73 ANGP,
MASS
BROWMAN 74 ANGP
9.0 BROWMAN 73 ANGP,
MASS
BROWMAN 74 ANGP
GITTELMAN 74 ANGP
11. BROWMAN 73
BROWMAN 74
*RHO0 BE
2.7-4.3 COODINGTON 74
*RHO0 ANYTHING
2.0-4.8 ANOKHIN 76
4.1-6.1 ALVENSLEBEN 70D
*OMEGA BE
7.5-10. ABRAHSON 76
*JPSI(3100) QE
80. LEE 75E ANGP,CS
*JPSI(3100) ANYTHING
0.-220 KNAPP 75 ANGP,CS
3.-100 LEE 75C CS
10. RITSON 76 CS,PT
11. ANDREWS 75 ANGP,
CS
12. RITSON 76 CS,PT
14. RITSON 76 CS,PT

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA BE --> (CONT.)

•J/PSI(3100)0 ANYTHING (CONT.)
16. RITSON 76 CS,PT
40.-200 FNAL-401 FV
50.-210 CORNELL 76 I
NEASE 76 I
70.-200 KNAPP 75D ANGP
80. LEE 75E ANGP,CS
150 KNAPP 75F ANGP,CS,
P
•PSI(3770)0 ANYTHING I
40.-200 FNAL-401 FV
80. LEE 75E ANGP,CS
•P LI
.12-.20 DOUGAN 75E I
•ANYTHING VEE I
80. LEE 75E MASS
•2GAMMA ANYTHING I
4.4 GITTELMAN 74 MASS
6.6 GITTELMAN 74 MASS
12. GITTELMAN 75 I
GITTELMAN 75B I
•GAMMA CHARGED ANYTHING I
12. GITTELMAN 75 I
GITTELMAN 75B I
•E- E+ ANYTHING I
7.2 BRAUEL 75 CS,MASS
40.-200 FNAL-401 FV
50.-210 CORNELL 76 I
70.-200 KNAPP 75D MASS
•MU- E+ ANYTHING I
40.-200 FNAL-401 FV
•ML- MU+ ANYTHING I
0.-220 KNAPP 75 MASS,P
0.-250 KNAPP 75C ANGP,
MASS
0.-100 LEE 75G MASS
7.0 PREPOST 75 CS
20. DAKIN 75 I
20.-275 KNAPP 76 CS,MASS
40.-200 FNAL-401 FV
50.-210 NEASE 76 I
70.-200 KNAPP 75D MASS
80. LEE 75E MASS
150 KNAPP 75F MASS
7 GAVIS 73 I
•MU+ E- ANYTHING I
40.-200 FNAL-401 FV
•2MU+-LEPTON ANYTHING I
80. LEE 75E CS
•PI+ PI- ANYTHING I
2.7-4.3 CODDINGTON 74 I
•K+ K- ANYTHING I
40.-200 FNAL-401 FV
•P AP ANYTHING I
40.-200 FNAL-401 FV
•LAMBDA ALAMBDA ANYTHING I
0.-250 KNAPP 75C MASS
•ALAMBDA PICNISI ANYTHING I
7 KNAPP 76B ANG,
MASS
LEE 76I MASS
•BE PI+ PI- I
1.0-2.0 EISENHANDLER 68 I
80. LEE 75E MASS
•2CHARM ANYTHING I
80. LEE 75E CS
•2CHARGED ANYTHING I
12. GITTELMAN 75 I
GITTELMAN 75B I
•.E- E+ ANYTHING I
.006 ROBERTSON 76 CS
•ALAMBDA 2PI+ PI- PRONGS I
0.-150 NASH 77 MASS
•ALAMBDA PI+ 2PI- PRONGS I
0.-150 NASH 77 MASS
•BE 2PI+ 2PI- I
80. LEE 75E MASS
•BE 3PI+ 3PI- I
80. LEE 75E MASS
•MU- E+ ANYTHING I
• MU+ E- ANYTHING I
20.-275 KNAPP 76 MASS
80. LEE 75E CS
GAMMA BOR -->
(NOT ENCODED) I
2.0-4.5 DANAGULYAN 73 I
•2E- 2E+ ANYTHING I
.006 ROBERTSON 76 CS
GAMMA C -->
(NOT ENCODED) I
0.-.25 KITAGAKI 69 I
0.-.26 KITAGAKI 68C I

GAMMA C --> (CONT.)

(NOT ENCODED) (CONT.)
0.-.39 SIMONDS 68 I
0.-.56 GRISHAEV 71 I
0.-.71 SIMONDS 70 I
0.-1.0 OCNCHAROV 71 I
0.-4.6 GABATMULER 70 I
0.-5.6 HICKS 69 I
0.-6.2 JORDAN 69 I
0.-7.4 ALVENSLEBEN 71C I
0.-9.6 MEYER 72B I
0.-10. HAYES 70 I
MCCLELLAN 69F I
.007 ROBERTSON 72 I
.25-1.2 OCNCHAROV 73 I
TCHAPETYAN 72 I
.35 ANTUFEV 72 I
.90 BACCI 69 I
1.2 GRISHAEV 71B I
1.5 BELLETTINI 70 I
1.5-3.6 KNASEL 68 I
2.0 ABRAHAMIAN 73B I
ABRAMYAN 73B I
BELLETTINI 70 I
2.0-3.0 ABRAHAMIAN 72 I
2.5-8.0 MCCLELLAN 71C I
3.0 ABRAMYAN 73B I
3.0-5.2 MCCLELLAN 71 I
3.5-8.3 MEYER 71 I
3.7-18. HESSE 71 I
4.8-7.2 ALVENSLEBEN 70F I
5.2 ALVENSLEBEN 72 I
5.6 SANDLER 71 I
5.7 BRACCINI 70 I
FOA 70 I
6.0 MCCLELLAN 69G I
6.4-9.0 MCCLELLAN 71B I
6.8 FOA 70 I
8.8 BULOS 67 I
? KEIZER 70 I
KITAGAKI 68B I
•HADRONS I
14.-34. BAYATIAN 74 CS
•ANYTHING I
.25-.55 HGMMA 74 CS
1.7-4.0 BROOKES 73 CS
3.7-18. CALDWELL 73 I
5.4 HEYNEN 71 I
7.0-18. CALDWELL 69D I
CALDWELL 70B I
60. FNAL-C25A CS
170 FNAL-C25A CS
•GAMMA C I
? RANDOLPH 70 I
•GAMMA ANYTHING I
.27-.37 BERON 73 I
5.0 BUDAGOV 76B P
•MU- ANYTHING I
5.0-13. HAYES 70B I
•MU+ ANYTHING I
8.0-10. HAYES 70B I
•PION ANYTHING I
0.-.50 DEUTSCH 75 I
•PI+ ANYTHING I
.30-.85 BABA 78 I
>.30 BABA 78 I
.32-.82 ENDO 73 I
.37 NOGUCHI 75 I
.62 NOGUCHI 75 I
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75 I
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75 I
ABRAMIAN 75 I
•ETA C I
.58-.65 ALEKSANDROV 69 I
.85-.90 DUDKIN 76 I
•ETA ANYTHING I
.85-.90 DUDKIN 76 I
2.0 ABRAHAMIAN 73 CS
ABRAMYAN 73 I

GAMMA C --> (CONT.)

•RHO C
2.7-4.3 CODDINGTON 74 I
7 DIAMBRINIPAL 70 I
•RHO0 ANYTHING I
2.0-4.5 ANOKHIN 76 I
•OMEGA ANYTHING I
5.5 SCHMITZ 70 I
•PHI C I
1.8 MOSTER 68 I
•PHI ANYTHING I
8.0-10. HAYES 70B I
•J/PSI(3100)0 ANYTHING I
7.5 TING 76 I
•P BOR I
.12-.20 DOUGAN 75E I
•P ANYTHING I
.70 BAYUKOV 74 I
2.3 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
4.5 ALANAKIAN 76 I
ALANAKIAN 77 I
ALANAKIAN 77B I
AMARIAN 76 I
AMARIAN 76B I
•DEUT ANYTHING I
1.2 BAYUKOV 74 CS,P
•E- E+ ANYTHING I
1.4 TENENBAUM 70 I
4.2 BIGGS 70 I
BIGGS 70B I
5.6 TENENBAUM 70 I
•MU- MU+ ANYTHING I
0.-13. HAYES 69B I
7.0-9.0 HAYES 69 I
HAYES 71B I
•PI+ PI- ANYTHING I
2.7-4.3 CODDINGTON 74 I
7.5 HEYNEN 76 I
•P PI+ ANYTHING I
.57 BABA 75 P
.62 BABA 75 P
.67 BABA 75 P
.72 BABA 75 P
•C PI+ PI- I
1.3-2.3 E.SENHANDLER 68 I
•HIT P PI- I
? GLAVANAKOV 73 I
•2E- 2E+ ANYTHING I
.006 ROBERTSON 76 CS
•P I
• P PI+ PI-
4.3 ABRAMYAN 76 I
GAMMA HIT -->
•PION ANYTHING I
0.-.50 DEUTSCH 75 I
GAMMA MG -->
(NOT ENCODED) I
6.4-9.0 MCCLELLAN 71B I
GAMMA AL -->
(NOT ENCODED) I
0.-.56 GRISHAEV 71 I
0.-4.7 ASATIANI 72 I
0.-8.2 JORDAN 69 I
0.-9.6 MEYER 72B I
.007 ROBERTSON 72 I
.90 BACCI 69 I
1.2 GRISHAEV 71B I
1.5 KNASEL 68 I
2.0 ABRAHAMIAN 73B I
ABRAMYAN 73B I
2.0-3.0 ABRAHAMYAN 72 I
2.0-4.5 DAMAGULYAN 73 I
3.0 ABRAMYAN 73B I
3.5-8.3 MEYER 71 I
3.8-7.2 ALVENSLEBEN 70F I
5.7 BRACCINI 70 I
FOA 70 I
6.8 BULOS 67 I
7 KITAGAKI 68B I

GAMMA AL --> (CONT.)

•ANYTHING
.25-.55 HGMMA 74 CS
1.7-4.0 BROOKES 73 CS
5.4 HEYNEN 71 I
•GAMMA AL
.27-.37 BERON 73 I
•GAMMA ANYTHING I
.27-.37 BERON 73 I
•PI+ MG I
.20-.60 BLOMQVIST 76C CS
•PI+ ANYTHING I
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75 I
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75 I
•PIO AL I
4.4 BROWMAN 74B I
6.6 BROWMAN 74B I
•PIO ANYTHING I
.27-.37 BERON 73 I
4.4 GITTELMAN 74 ANGP
6.6 GITTELMAN 74 ANGP
•PI- ANYTHING I
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75 I
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75 I
•ETA ANYTHING I
2.0 ABRAHAMIAN 73 CS
ABRAMYAN 73 I
9.0 BROWMAN 73 ANGP,
MASS
•RHO0 AL I
2.7-4.3 CODDINGTON 74 I
•RHO0 ANYTHING I
2.0-4.5 ANOKHIN 76 I
•OMEGA ANYTHING I
5.5 SCHMITZ 70 I
•P ANYTHING I
2.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
3.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS
4.5 ALANAKIAN 76 I
AMARIAN 76 I
AMARIAN 76B I
•LONGLIVED ANYTHING I
300 FRANKEL 74 CS
400 FRANKEL 74 CS
•PI+ PI- ANYTHING I
2.7-4.3 CODDINGTON 74 I
•AL PI+ PI- I
1.0-2.3 EISENHANGLER 68 I
•2E- 2E+ ANYTHING I
.006 ROBERTSON 76 CS
•P I
• PI+ • PI-
4.3 ABRAMYAN 76 I
GAMMA SU -->
(NOT ENCODED) I
0.-.50 MCCLELLAN 69G I
GAMMA CA -->
(NOT ENCODED) I
0.-.25 KITAGAKI 69 I
GAMMA TI -->
(NOT ENCODED) I
4.6-7.2 ALVENSLEBEN 70F I
•ANYTHING I
1.5-5.7 HEYNEN 71 I
GAMMA VA -->
•PI+ TI I
.20-.60 BLOMQVIST 76C CS
•PI- CR I
.20-.60 BLOMQVIST 76C CS

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA FE -->
-EQNCLVED ANYTHING
? BLAGOV 75
+PI+ ANYTHING
+ PI- ANYTHING
.50 GRISHAEV 76
GAMMA NI -->
+PI+ ANYTHING
+ PI- ANYTHING
.50 GRISHAEV 76
GAMMA CU -->
-(NOT ENCODED)
0.-.56 GRISHAEV 71
3.-6.2 JERCAN 69
0.-9.6 MEYER 72B
.007 ROBERTSON 72
.25-1.0 NORDBERG 69
1.0 BACCI 69
1.2 GRISHAEV 71B
1.5 KNASEL 68
2.0 ABRAHAMIAN 73B
ABRAMYAN 73B
2.0-3.0 ABRAMAMYAN 72
3.0 ABRAMYAN 73B
3.5-8.3 MEYER 71
3.7-18. HESSE 71
4.6-7.2 ALVENSLEBEN 70F
6.0 MCCLELLAN 65G
6.4-9.0 MCCLELLAN 71B
6.8 FOA 70
8.8 BULOS 67
? KITAGAKI 68B
+ANYTHING
.25-.55 HOMMA 74 CS
1.5-5.7 HEYNEN 71 I
1.7-4.0 BROOKES 73 CS I
3.7-18. CALDWELL 73
7.0-18. CALDWELL 65D
CALDWELL 70B
60. FNAL-025A CS
170 FNAL-025A CS
+GAMMA CU
.27-.37 BERON 73
+GAMMA ANYTHING
.27-.37 BERON 73
+PI+ ANYTHING
.37 NOGUCHI 75
.62 NEGUCHI 75
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75
+PI- CU
4.4 BROWMAN 74B
6.. BROWMAN 74B
+PI0 ANYTHING
.27-.37 BERON 73
4.4 GITTELMAN 74 ANGP
6.6 GITTELMAN 74 ANGP
+PI- ANYTHING
.37 NOGUCHI 75
.62 NOGUCHI 75
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75
+ETA CU
.85-.90 DUDKIN 76
+ETA ANYTHING
.85-.90 DUDKIN 76
2.0 ABRAHAMIAN 73 CS
5.8 BROWMAN 73 ANGP,
MASS
EPCWMAN 74 ANGP
9.0 BROWMAN 73 ANGP,
MASS
BROWMAN 74 ANGP
GITTELMAN 74 ANGP
11. BROWMAN 73
BROWMAN 74
+RHOO CU
2.7-4.3 CODDINGTON 74
+RHOO ANYTHING
2.0-4.5 ANCKNIN 76
7.0-9.0 NORDBERG 74
+OMEGA CU
7.5-10. ABRAMSON 76

GAMMA CU --> (CCNT.)
6.7-10. ANDREWS 76
7.0-9.0 NORDBERG 74
+P ANYTHING
2.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,PT
3.0 LANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
4.5 ALANAKIAN 76
ALANAKIAN 77
ALANAKIAN 77B
AMARIAN 76
AMARIAN 76B
+QUARK(2/3) ANYTHING
0.-20. GALIK 74 CS
+QUARK(1/3) ANYTHING
0.-20. GALIK 74 CS
+2GAMMA ANYTHING
4.4 GITTELMAN 74 MASS
6.6 GITTELMAN 74 MASS
6.7-10. ANDREWS 76
+PI+ PI- ANYTHING
2.7-4.3 CCODINGTON 74
+PI0 GAMMA ANYTHING
6.7-10. ANDREWS 76
+ETA GAMMA ANYTHING
6.7-10. ANDREWS 76
-CU PI+ PI-
1.0-2.0 EISENHANDLER 68
+2E- 2E+ ANYTHING
.006 ROBERTSON 76 CS
+P
+ PI+ + PI-
+ ABRAMYAN 76
GAMMA ZN -->
-(NOT ENCODED)
1.5 BELLETTINI 70
1.5-5.5 BEMPORAD 67
2.0 BELLETTINI 70
4.3 DESY 67
5.5 BEMPORAD 69B
DESY 67
5.7 BRACCINI 70
FOA 70
+OMEGA ANYTHING
5.5 SCHMITZ 70
GAMMA NB -->
+ANYTHING
1.7-4.C BROOKES 73 CS
GAMMA AG -->
+(NCT ENCODED)
0.-6.2 JORDAN 69
0.-6.6 MEYER 72B
.90 BACCI 69
1.5 BELLETTINI 7C
1.5-5.5 BEMPORAD 67
2.0 ABRAMAMIAN 73B
ABRAMYAN 73B
2.0-3.0 ABRAMAMYAN 72
3.0 ABRAMYAN 73B
3.5-8.3 MEYER 71
4.6-7.2 ALVENSLEBEN 70F
5.7 BRACCINI 70
FOA 70
6.4-9.0 MCCLELLAN 71B
8.8 BULOS 67
+ANYTHING
5.4 HEYNEN 71
-PI+ ANYTHING
2.0 ABRAHAMIAN 73 CS
4.3 ABRAMIAN 75
+PI0 AG
4.4 BROWMAN 74B
6.6 BROWMAN 74B
+PI0 ANYTHING
4.4 GITTELMAN 74 ANGP
6.6 GITTELMAN 74 ANGP
+PI- ANYTHING
2.0-19. SLAC-E-112 ANGP
4.3 ABRAMIAN 75

GAMMA AG --> (CCNT.)
-ETA AG
.85-.90 DUDKIN 76
+ETA ANYTHING
.85-.90 DUDKIN 76
2.0 ABRAHAMIAN 73 CS
ABRAMYAN 73
9.0 BROWMAN 73 ANGP,
MASS
11. BROWMAN 73
+RHOO AG
2.7-4.3 CCODINGTON 74
+OMEGA ANYTHING
5.5 SCHMITZ 70
+PI+ PI- ANYTHING
2.7-4.3 CODDINGTON 74
+P
+ PI+ + PI-
4.3 ABRAMYAN 76
GAMMA CD -->
-(NOT ENCODED)
4.8-7.2 ALVENSLEBEN 70F
GAMMA SN -->
+ANYTHING
1.7-4.0 BROOKES 73 CS
+PI+ ANYTHING
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
+PI- ANYTHING
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
+P ANYTHING
2.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
3.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
4.5 ALANAKIAN 76
AMARIAN 76
AMARIAN 76B
+SN PI+ PI-
1.0-2.0 EISENHANDLER 68
GAMMA XE -->
-(NOT ENCODED)
.020-.33 OGRZEVALSKII 69
.13-2.0 SLOWINSKI 68B
SLOWINSKI 72
1.0 OGRZEVALSKII 68B
1.5 OGRZEVALSKII 68B
1.5 SLOWINSKI 72
2.0 OGRZEVALSKII 68B
+SHOWER
1.6-3.4 SLOWINSKI 75C
MULT,
P
+E- E+ ANYTHING
.030 DVORAKOVSKII 71
.030-1.7 PARYT 75
2.0 DVORAKOVSKII 71
GAMMA TA -->
-(NOT ENCODED)
1.2 GRISHAEV 71B
4.8-7.2 ALVENSLEBEN 70F
5.7 BRACCINI 70
FOA 70
+ANYTHING
1.7-4.9 BROOKES 73 CS
+OMEGA ANYTHING
5.5 SCHMITZ 73
+JJPSI(3100)0 ANYTHING
10. RITSON 76 CS,PT
12. RITSCN 76 CS,PT
14. RITSCN 76 CS,PT
16. RITSCN 76 CS,PT

GAMMA TA --> (CONT.)
+TA PI+ PI-
3.0-2.0 EISENHANDLER 68
GAMMA WT -->
-(NOT ENCODED)
4.8-7.2 ALVENSLEBEN 70F
GAMMA AU -->
-(NOT ENCODED)
0.-4.2 CERNPOLI 71
4.8-7.2 ALVENSLEBEN 70F
+ANYTHING
5.4 HEYNEN 71
-RHOO AU
2.7-4.3 CODDINGTON 74
+PI+ PI- ANYTHING
2.7-4.3 CODDINGTON 74
GAMMA PB -->
-(NOT ENCODED)
0.-.56 GRISHAEV 71
0.-1.1 KNYSHEN 6F
0.-6.2 JORDAN 69
0.-9.6 MEYER 72B
1.6-03 BARTLETT 72
.35 ANTUPEV 72
.90 BACCI 69
1.2 GRISHAEV 71B
1.5 BELLETTINI 70
1.5-5.5 BEMPCRAD 67
2.0 ABRAHAMIAN 73B
ABRAMYAN 73B
BELLETTINI 70
2.0-3.0 ABRAMAMYAN 72
3.0 ABRAMYAN 73B
3.5-8.3 MEYER 71
3.7-18. HESSE 71
4.8-7.2 ALVENSLEBEN 70F
5.7 BRACCINI 70
FOA 70
6.4-9.0 MCCLELLAN 71B
6.8 FEA 70
8.8 BULOS 67
? DAVIS 69B
+ANYTHING
1.2-4.0 BROOKES 73 CS
3.7-18. CALDWELL 73
7.0-18. CALDWELL 65D
CALDWELL 70B
60. FNAL-025A CS
170 FNAL-025A CS
+GAMMA PB
.27-.37 BERON 73
+GAMMA ANYTHING
.27-.37 BERON 73
+PI+ ANYTHING
.37 NOGUCHI 75
.62 NOGUCHI 75
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75
+PI0 ANYTHING
.27-.37 BERON 73
+PI- ANYTHING
.37 NOGUCHI 75
.62 NOGUCHI 75
2.0 ABRAHAMIAN 73 CS
2.0-19. SLAC-E-112 ANGP
2.5 ALANAKIAN 75
3.0 ALANAKIAN 75 ANGP,
CS
4.3 ABRAMIAN 75
+ETA PB
.85-.90 DUDKIN 76
+ETA ANYTHING
.85-.90 DUDKIN 76
2.0 ABRAHAMIAN 73 CS
ABRAMYAN 73
+OMEGA ANYTHING
5.5 SCHMITZ 70
-JJPSI(3100)0 ANYTHING
50.-210 NEASE 76
+P ANYTHING
2.0 ALANAKIAN 76 ANGP,
CS
AMARIAN 76 ANGP,
CS,PT
AMARIAN 76B ANGP,
CS,P
3.0 ALANAKIAN 76 ANGP,
CS

REACTION/MOMENTUM INDEX (CONT'D)

GAMMA PB --> (CONT.)
GAMMA NUCLEUS --> (CONT.)
NU P --> (CONT.)
NU N --> (CONT.)

GAMMA PB --> (CONT.)
+P ANYTHING (CONT.)
AMARIAN 76 ANGP, CS,PT
AMARIAN 76B ANGP, CS,P
4.5 ALANAKIAN 76
ALANAKIAN 77
ALANEKIAN 77B
AMARIAN 76
AMARIAN 76B
+MU- MU+ ANYTHING
50.-210 NEASE 76
+PB PI+ PI-
1.0-2.0 EISENHANDLER 68
+P
+ PI+ + PI-
4.3 ABRAHYAN 76
GAMMA U -->
+(NOT ENCODED)
4.68-7.2 ALVENSLEBEN 70F
+PI0 U
4.4 BROWMAN 74B
6.6 BROWMAN 74B
+PI0 ANYTHING
4.4 GITTELMAN 74 ANGP
6.6 GITTELMAN 74 ANGP
+ETA ANYTHING
5.8 BROWMAN 73 ANGP, MASS
BROWMAN 74 ANGP
9.0 BROWMAN 73 ANGP, MASS
BROWMAN 74 ANGP
GITTELMAN 74 ANGP
11. BROWMAN 73 ANGP
BROWMAN 74
+2GAMMA ANYTHING
4.4 GITTELMAN 74 MASS
6.6 GITTELMAN 74 MASS
GAMMA NUCLEUS -->
+(NOT ENCODED)
0.-20 CASTOR 70
0.-1.4 KANEEV 70
1.E-03 BARTLETT 72
3.E-03 JOUSSET 70
.14 DEBRUYN 75
.30-.93 ARAI 72
.40-1.0 BEBRINA 68
.60-7.5 KNASEL 69C
8.3 BOYARSKI 69C
8.8 BULOS 69B
16. BOYARSKI 69C
7 AUGERAT 70
EHRENO 71C
GOVORKOV 71
TING 70
+ANYTHING
20.-50. FNAL-152B CS
7 CERN-WA-004 CS
+GAMMA NUCLEUS
7 WEBER 75B
+GAMMA ANYTHING
2.0-4.5 ANDKHIN 76
+PION(S) ANYTHING
1.0 GRISHAEV 72
+PI+ ANYTHING
2.0 ABRAHYAN 73B
3.0 ABRAHYAN 73B
+PI- ANYTHING
2.0 ABRAHYAN 73B
2.0-4.5 ANDKHIN 76
3.0 ABRAHYAN 73B
+ETA NUCLEUS
.90 OUDKIN 74
+ETA ANYTHING
2.0 ABRAHAMIAN 73B
+RHO0 NUCLEUS
3.0-6.5 KNASEL 69
4.0-9.0 MCCLELLAN 71D
5.1 ALVENSLEBEN 70H
6.2 MCCLELLAN 69D
20.-200 FNAL-087A ANGP
7 ALVENSLEBEN 71B
BEHREND 71D
+RHO0 ANYTHING
0.-7.0 ALVENSLEBEN 70C
4.0 MCCLELLAN 69E
8.0 MCCLELLAN 69E

GAMMA NUCLEUS --> (CONT.)
+OMEGA NUCLEUS
5.1 ALVENSLEBEN 70H
5.7 BRACCINI 70
7 BEHREND 71D
+OMEGA ANYTHING
7 BEHREND 70B
+PHI NUCLEUS
6.0-7.4 ALVENSLEBEN 71
+P ANYTHING
7 AVAKIAN 77B
+NUCLEUS NEUTRAL
20.-200 FNAL-087A ANGP
+E- E+ ANYTHING
0.-1.1 KRYSHKIN 70
.006 WILKINSON 72
50.-210 CORNELL 76
+MU- MU+ ANYTHING
0.-5.0 EARLES 70B
0.-6.0 ROTHWELL 69
8.5 CASSEL 72
10. CASSEL 72
12. CASSEL 72
50.-210 NEASE 76
+HYV-LEPTON HYV-LEPTON
ANYTHING
100-300 FNAL-087A ANGP
+PI+ PI- ANYTHING
15. BULOS 71D
+PI- GAMMA ANYTHING
2.0-4.5 ANDKHIN 76
+NUCLEUS E- E+
.013-.30 HASHKUR 73 ANGP, CS,P
+NUCLEUS PI+ PI-
7 BEHREND 71D
+NO N- ANYTHING
100-300 FNAL-087A ANGP
+MU- ANYTHING
+ MU+ ANYTHING
10. RITSON 76 ANGP,PT
12. RITSON 76 ANGP,PT
14. RITSON 76 ANGP,PT
16. RITSON 76 ANGP,PT
GAMMA S -->
+2E- 2E+ ANYTHING
.306 ROBERTSON 76 CS
NU E -->
+(NOT ENCODED)
0.-8.0 STEINER 70D
7 ALBRIGHT 70
NU P -->
+(NOT ENCODED)
0.-4.0 CUNDY 73
1.0 SCHREINER 73B
1.0-15. LEE 72
7 CUNDY 74
DERRICK 76C
+N(PRONG)
12.-12500
ALBINI 75B
15.-150 CHAPMAN 75 MULT
+ANYTHING
.50-6.0 GARFINKEL 76
20.-200 BOSETTI 77 CS
+NU P
0.-14. PANG 76 CS
.20-2.0 HYMAN 75
1.40-14. SULAK 76
+MU- QEL++
>2.0 CAZZOLI 75C CS
+MU- STRANGE
0.-6.0 BARISH 76D CS
+MU- ANYTHING
0.-2.5 BARISH 76B
3.-120 BERGE 75B ANGP,P
3.-6.0 BARISH 76D ANGP, CS,P
+MUON HADRONS(S)
15.-200 CHAPMAN 76 MULT,P, PT
+PION ANYTHING
7 BUDAGOV 69
+KS ANYTHING
3.-120 BERGE 75C P
+LAMBDA ANYTHING
0.-120 BERGE 75C P
+ALAMBDA ANYTHING
0.-120 BERGE 75C P

NU P --> (CONT.)
+N(PRONG) VEE
0.-120 BERGE 75C MULT
+ANYTHING STRANGE
1.0-14. CAZZOLI 76D
+MU- STRANGE(S) PRONG(S)
3.0-13. CAZZOLI 76
+P PI+ MU-
0.-2.5 BARISH 76B
0.-6.0 BARISH 76D CS
.20-2.0 HYMAN 75
.40-1.9 BARISH 75B
1.0 CAMPBELL 73C
2.0-14. CAZZOLI 75B CS
CAZZOLI 75C MASS
+P PI0 NU
0.-14. LEE 76K CS,MASS
1.0-2.0 HYMAN 75
.50-2.0 SCHREINER 74E
1.0-14. CHAPIN 76B
7 COREMANS 76 AMP
DERRICK 75B ANGP, CS,MASS,P
+N PI+ NU
.20-2.0 HYMAN 75
.50-2.0 SCHREINER 74E
1.0-14. CHAPIN 76B
7 COREMANS 76 AMP
DERRICK 75B ANGP, CS,MASS,P
+LAMBDA K5 NU
DERRICK 75B P
+MU- HADRON+ HADRON-
ANYTHING
0.-120 BERGE 75 P,PT
+P PI+ PI- I'D
2.0-14. CAZZOLI 75B CS
+P NO PI+ MU-
0.-14. RAMIOS 75 CS
+3VEE ANYTHING
3.-120 BERGE 75C P
+P 2PI+ PI- MU-
0.-2.5 BARISH 76B
0.-6.0 CARMONY 76 CS
+N 2PI+ PI0(S) MU-
0.-6.0 BARISH 76D CS
+P 2PI+ PI0 PI- MU-
0.-6.0 CARMONY 76 CS
+PI 2PI+ 2PI- NU
2.0-14. CAZZOLI 75B CS
+N 3PI+ PI- MU-
0.-6.0 BARISH 76D CS
CARMONY 76 CS
+LAMBDA 3PI+ PI- MU-
0.-14. BARISH 75 CS
7 LEE 76I CS
+P PI+ PI0 PI- MU- E+ NUE
0.-6.0 CARMONY 76 CS,EV, MASS
+P PI+ MU- NEUTRALS
0.-2.5 BARISH 76B
+ N 2PI+ MU- NEUTRALS
0.-2.5 BARISH 76B
+P 2PI+ PI0 PI- MU-
+ N 3PI+ PI- MU-
0.-2.5 BARISH 76B
+MU- VEE
+ MU- 2VEE + MU- 3VEE
3.-2.5 BARISH 76B
NU N -->
+(NOT ENCODED)
0.-1.4 KUSTOM 69B
3.-4.0 CUNDY 73
1.0-15. LEE 72
+ANYTHING
.50-6.0 GARFINKEL 76
+MU- P
0.-2.5 BARISH 76B
3.-6.0 BARISH 76D CS,P
+MU- STRANGE
3.-6.0 BARISH 76D CS
+MU- ANYTHING
0.-2.5 BARISH 76B
3.-6.0 BARISH 76D ANGP, CS,P
+ANYTHING STRANGE
1.0-14. CAZZOLI 76D
+MU- STRANGES PRONG(S)
3.0-13. CAZZOLI 76
+P PI0(S) MU-
0.-6.0 BARISH 76D CS
+P PI0 MU-
0.-6.0 BARISH 76D CS
+P PI- MU-
0.-2.5 BARISH 76B
3.-6.0 BARISH 76D CS

NU N --> (CONT.)
+P PI0 MU- (CONT.)
0.-14. LEE 76K CS,MASS
.40-1.5 BARISH 75B
1.0-14. CHAPIN 76B
+P PI- NU
.20-2.0 HYMAN 75
7 COREMANS 76 AMP
SCHREINER 76
+P RHO0 MU-
2.0-14. CAZZOLI 75B CS
+N PI+ MU-
0.-6.0 BARISH 76C CS
.40-1.5 BARISH 75B
+N PI0 NU
0.-14. LEE 76K CS,MASS
1.0-14. CHAPIN 76B
7 COREMANS 76 AMP
+LAMBDA K5 NU
.20-2.0 HYMAN 75
+P PI+ PI- MU-
0.-2.5 BARISH 76B
0.-6.0 BARISH 76D CS
CARMONY 76 CS
+N PI+ PI0(S) MU-
0.-6.0 BARISH 76D CS
+N PI+ PI0 PI- MU-
0.-6.0 CARMONY 76 CS
+N 2PI+ PI- PI0(S) MU-
0.-6.0 BARISH 76D CS
+P 2PI+ 2PI- MU-
0.-2.5 BARISH 76B
0.-6.0 BARISH 76D CS
+N 2PI+ PI0 PI- MU-
0.-6.0 BARISH 76D CS
+P PI+ NEUTRALS MU-
+ N 2PI+ MU-
0.-2.5 BARISH 76B
+MU- VEE
+ MU- 2VEE + MU- 3VEE
0.-2.5 BARISH 76B
NU NUCLEON -->
+(NOT ENCODED)
4.6E-03-400
SCIULLI 75B CS, MASS,P
50. BARISH 74B
135 BARISH 74B
7 CLINE 74
EICHTEN 73
+ANYTHING
20.-100 NANDI 76 CS
7 EICHTEN 73B
+NU HADRONS
0.-140 BARISH 75G
3.-14. HASERT 74 CS,P
12.-200 ARLOER 71E
+NU ANYTHING
1.0-10. BLIETSCHAU 76B CS
+MU- HADRONS
0.-140 BARISH 75G
10.-140 IMLAY 74 CS,P
+MU- ANYTHING
0.- BARNETT 76 P
1.0-11. DEDEN 74 P
1.0-14. HAGUENAUER 74 ANGP, CS
1.0-150 BENVENUTI 76 P
200. BERGESON 73 CS,P
+MU+ HADRONS
0.-140 BARISH 75G
+MUON ANYTHING
3.-140 CLINE 76D P,PT
+HYV-LEPTON HADRONS
0.-140 BARISH 75G
+ANYTHING HADRONS
0.-140 CLINE 75C MASS,P
+E- HADRONS VEE
9.-15. BLIETSCHAU 75 CS
+MU- E+ ANYTHING
0.-140 CLINE 76D P
+2MU- ANYTHING
0.-140 CLINE 76D CS
30.-220 BARISH 77 ANG,CS, P

REACTION/MOMENTUM INDEX (CONT'D)

NU NUCLEON --> (CONT.)
*2MU- ANYTHING (CONT.)
200 BENVENUTI 77B P
*MU- MU+ HADRONS
0.-140 BARISH 75G
*MU- MU+ ANYTHING
0.-120 BENVENUTI 75C
PASS,
P
9.-140 LOSECCO 75 PT
0.-140 CLINE 76D CS,MASS
30.-220 BARISH 77 ANG,CS,
P
200 BENVENUTI 77B P
BENVENUTI 77C ANG,
MASS,P
*MU- N+ HADRONS
0.-140 BARISH 75G
*2MU+ ANYTHING
0.-140 CLINE 76D CS
30.-220 BARISH 77 ANG,CS,
P
*2MUON ANYTHING
0.-140 BARNETT 76 P
*NUCLEON PIO NU
2.0 COMTET 75 CS,MASS
*2MU- MU+ ANYTHING
30.-220 BARISH 77 ANG,CS,
P
NU DEUT -->
*(NOT ENCODED)
0.-.50 BRELLEY 72
? DERRICK 76C
*2P PI-
2.0-14. CAZZOLI 75B CS
*N DEL++ MU-
>2.0 CAZZOLI 75C CS
*PI-SPECT) P PI- NU
? DERRICK 75B ANGP,
CS,MASS,P
*P(SPECT) LAMBDA K+ MU-
0.-14. SAMIOS 75 CS
P N PI+ MU-
2.0-14. CAZZOLI 75C MASS
*LAMBDA PI+ MU- NEUTRALES)
0.-14. SAMIOS 75 CS
*NO PI+ PI- MU- NEUTRALES)
0.-14. SAMIOS 75 CS
*P(SPECT) SIGMA+ K+ PI- MU-
0.-14. SAMIOS 75 CS
NU C -->
*(NOT ENCODED)
1.5 BORER 69C
? BONETTI 69
SEILER 70
NU AL -->
*(NOT ENCODED)
0.-.65 HOLDER 69
1.5 BORER 69C
? SEILER 70
NU FE -->
*(NOT ENCODED)
1.5 BORER 69C
? SEILER 70
*MU- MU+ ANYTHING
0.-30. ASRATYAN 75 CS
*2MU- MU+ ANYTHING
10.-150 HOLDER 77F CS,
MASS
*MU- 2MU+ ANYTHING
10.-150 HOLDER 77F CS,
MASS
*3MUON ANYTHING
60. BARISH 77E CS,FV
165 BARISH 77E CS,FV
NU PB -->
*(NOT ENCODED)
0.-.36 HOLDER 69
1.5 BORER 69C
? SEILER 70
NL NUCLEUS -->
*(NOT ENCODED)
0.-20. BORER 69B
>.10 REINES 72
1.0-6.0 DEGRANGE 72
1.0-12. BUDAGOV 69B
1.0-14. FRY 75
PULLIA 72
ROUSSET 71
>1.0 MASNOU 72
5.0-150 JUNG 75
? ANDRYUSHKIN 73
ASHTON 70
BONETTI 69
BORER 70
CASSIDAY 72
CROUCH 70
DAVIS 69C
FRANZINETTI 69
HENDRICKS 70
KAFTANOV 71B
KRISHNASWAMY 69
KRISHNASWAMY 70B
KUNSZT 72
MASNOU 71
REINES 67
REINES 69
*UNSPEC
BARANOV 77
*NU NUCLEUS
1.5-10. HOLLIER 75
*MU- ANYTHING
0.-120 HOLDER 77 CS,P
*CHARM ANYTHING
0.-14. NGUYENKHAC 75 CS
*NU HADRONS STRANGES1)
0.-14. NGUYENKHAC 75 CS
*MU- MU+ ANYTHING
90.-120 HOLDER 77 CS,P,PT
*MU+ HADRONS STRANGES1)
0.-14. NGUYENKHAC 75
*LAMBDA NU ANYTHING
2.0 BLIETSCHAU 77 CS
*SIGMAO NU ANYTHING
2.0 BLIETSCHAU 77 CS
*ADRONS
? MASERT 76B CS
NU NU -->
*MU- MU+ NEUTRALS
0.-140 BENVENUTI 75 ANG,
MASS,P
ANU E- -->
*(NOT ENCODED)
? GURR 72B
ANU P -->
*(NOT ENCODED)
1.0-14. EICHTEN 72B
? BAZMUTOV 75
DERRICK 76C
*N(PRONG)
20.-1500 ALBINI 75B
*ANYTHING
20.-200 BOSETTI 77 CS
*ANU P
.40-14. SULAK 76
.50-14. CLINE 76C
*MU+ HADRONS1)
5.0-100 DERRICK 77B ANGP,
MASS,MULT,P,
PT
*MU+ N(PRONG)
5.0-100 DERRICK 76 MULT
*MU+ ANYTHING
0.-100 DERRICK 76 ANGP,P
*PION(S) MU+ ANYTHING
5.0-130 DERRICK 77B MULT
*K+ MU+ ANYTHING
0.-100 DERRICK 76 CS
*KS MU+ ANYTHING
0.-100 DERRICK 76 CS
5.0-100 DERRICK 77B CS,P,
PT
ANU P --> (CONT.)
*K- MU+ ANYTHING
0.-100 DERRICK 76 CS
*P PI0 ANU
0.-14. LEE 76K CS,MASS
*P PI- MU+
5.0-130 DERRICK 77B ANGP,
MASS
*N PI0 MU+
0.-14. LEE 76K CS,MASS
*LAMBDA MU+ ANYTHING
0.-130 DERRICK 76 CS
5.0-100 DERRICK 77B CS,P,
PT
*LAMBDA K+ MU+ ANYTHING
0.-100 DERRICK 76 CS
*LAMBDA KS MU+ ANYTHING
0.-100 DERRICK 76 CS
*LAMBDA K- MU+ ANYTHING
0.-130 DERRICK 76 CS
ANU N -->
*(NOT ENCODED)
1.0-14. EICHTEN 72B
*P PI- ANU
1.0-14. COREMANS 76 AMP
*N PI0 ANU
1.0-14. COREMANS 76 AMP
*N PI- MU+
0.-14. LEE 76K CS,MASS
ANU NUCLEON -->
*(NOT ENCODED)
4.E-03-400
SCIULLI 75B CS,
MASS,P
? EICHTEN 73
*ANYTHING
20.-130 NANDI 76 CS
? EICHTEN 73B
*ANU NUCLEON
1.0-14. BORISOV 73 CS
? BORISOV 73 CS
*ANU HADRONS
1.0-14. MASERT 76 CS,P
12.-230 HOLDER 77E
*ANU ANYTHING
1.0-10. BLIETSCHAU 76B CS
*MU- ANYTHING
0.-140 HORN 75B MASS,P
*MU+ HADRONS
0.-140 BARNETT 76 P
1.0-14. DEDEN 74 P
1.0-14. HAGUENAUER 74 P
ANGP,
CS
13.-150 BENVENUTI 76 P
>10. BERGESEN 73 CS,P
*MUON ANYTHING
20.-100 NANDI 76 P
*ANYTHING HADRONS
3.-143 CLINE 75C MASS,P
*2MU- ANYTHING
30.-220 BARISH 77 ANG,CS,
P
*MU- MU+ ANYTHING
30.-220 BARISH 77 ANG,CS,
P
203 BENVENUTI 77B P
*2MU+ ANYTHING
30.-220 BARISH 77 ANG,CS,
P
203 BENVENUTI 77B P
*NUCLEON PI0 ANU
2.0 COMTET 75 CS,MASS
*NUCLEON PIO MU+
2.0 COMTET 75 CS,MASS
*MU- 2MU+ ANYTHING
30.-220 BARISH 77 ANG,CS,
P
*MU- ANYTHING
* MU+ ANYTHING
30.-220 BARISH 77 ANG,CS,
P
ANU DEUT -->
*(NOT ENCODED)
0.-.10 JENKINS 65
? DERRICK 76C
MUNSEE 69
REINES 65
REINES 68
ANU FE -->
*2MU- MU+ ANYTHING
10.-150 HOLDER 77F CS,
MASS
*M.- 2MU+ ANYTHING
10.-150 HOLDER 77F CS,
MASS
ANU NUCLEUS -->
*(NOT ENCODED)
1.0-6.0 DEGRANGE 72
1.0-10. MORFIN 72
1.0-14. PULLIA 72
*ANU NUCLEUS
1.5-10. FOLLIER 75
*MU+ ANYTHING
90.-120 HOLDER 77 CS,P
*ANU HADRONS STRANGES1)
0.-14. NGUYENKHAC 75 CS
*MU- MU+ ANYTHING
90.-120 HOLDER 77 CS,P,PT
*MU- HADRONS STRANGES1)
0.-14. NGUYENKHAC 75
*HADRONS
? ANU HADRONS
? MASERT 76B CS
NU-UNSPEC NUCLEUS -->
*(NOT ENCODED)
0.-120 CLINE 75B CS,MASS,
P
*N(PRONG)
0.-120 CLINE 75B MULT
*LEPTON ANYTHING
10.-140 HOLDER 75B
*ANYTHING VEE
? CLINE 75B P
*3MUON ANYTHING
? COX 77
NU-UNSPEC NUCLEUS -->
*PHOTON
CABRIDAN 74C
*NEUTRAL(S) CHARGED
? KRISHNASWAMY 75
P
*2MUON ANYTHING
2.0-10. KHOVANSKII 75 CS
*MU- MU+ ANYTHING
10.-200 BOSETTI 77 CS
NUE E- -->
*NUE E-
0.-400 FNAL-31A ANGP,CS
5.0-70. FNAL-04SA ANGP,CS
10.-100 FNAL-25J ANGP
? VELLE 74 CS
NUE P -->
*NUE P
5.0-70. FNAL-04SA ANGP,CS
*E- HADRONS
0.-400 FNAL-31A ANGP,CS
1.0-8.0 BNL-589-69
*MU- HADRONS
10.-200 BOBER 75B P
*CHARM MU-
10.-200 SCOTT 76 CS
*2MUON HADRONS
20.-200 BOBER 75B MASS,P,
PT
*P PI+ E-
5.0-70. FNAL-04SA ANGP,CS
*P KS PI+ MU-
1.0-14. CNOPS 76 CS,P
*N 2PI+ E-
5.0-70. FNAL-04SA ANGP,CS
*LAMBDA P1+ MU- ANYTHING
10.-200 SCOTT 76 MASS
*LAMBDA K+ PI+ MU-
1.0-14. CNOPS 76 CS,P
*N LAMBDA KL 2PI+ MU-
1.0-14. CNOPS 76 CS,P
*LAMBDA 3PI+ PI- MU-
1.0-14. CNOPS 76 CS,P
NUE N -->
*E- HADRONS
0.-400 FNAL-31A ANGP,CS
1.0-8.0 BNL-589-69

REACTION/MOMENTUM INDEX (CONT'D)

NUE N --> (CONT.)
•LAMBDA K+ MU-
1.0-14. CNDPS 76 CS,P
•SIGMA+ K+ PI- MU-
1.0-14. CNDPS 76 CS,P
NUE NUCLEON -->
•NUE HADRONS
20.-80. BARISH 76F P
•NU- HADRONS
10.-140 BEMVENUTI 76D CS, P
•ANYTHING STRANGE
1.0-14. CNDPS 76 CS,P
•NUCLEON PIO NUE
1.0-10. HASERT 75B CS, MASS
•NUCLEON PIO MU-
1.0-10. HASERT 75B CS, MASS
•KS MU- E+ ANYTHING
20.-60. CAMERINI 76 CS,P, PT
NUE NUCLEUS -->
•E- PRONGS
2.0-30. BARANOV 77D CS,P, PT
ANUE F- -->
•ANUE E-
1.E-03-4.E-03
REINES 76 CS
.030-.650
REINES 78B
3.0-5.0 GURR 72
13.-100 FNAL-283 ANGP
? VIALLE 74 CS
ANUE P -->
•E+ HADRONS
0.-400 FNAL-310 ANGP,CS
1.E-8.0 BNL-589-639
•E+ ANYTHING
5.0-70. FNAL-045A ANGP,CS
•MU+ HADRONS
10.-200 SCOTT 76 P
ANUE N -->
•E+ HADRONS
0.-400 FNAL-310 ANGP,CS
1.0-8.0 BNL-589-639
ANUE NUCLEUS -->
•ANUE HADRONS
20.-80. BARISH 76F P
•E+ PRONGS
2.0-30. BARANOV 77D CS,P, PT
•MU+ HADRONS
10.-140 BEMVENUTI 76D CS, P
•NUCLEON PIO ANUE
1.0-10. HASERT 75B CS, MASS
•NUCLEON PIO MU+
1.0-10. HASERT 75B CS, MASS
ANUE NE -->
•E+ HADRONS
10.-130 BURNETT 77 MASS, MULT,P,PT
•P ANYTHING
10.-100 BURNETT 77 P
NUE NUCLEUS -->
•E- PRONGS
2.0-30. BARANOV 77D CS,P, PT
ANUE F- -->
•NUMU P
0.-4.0 ANL-E-412 ANGP,CS
0.-10. BNL-629
0.-12. BNL-613 CS
0.-14. CLINE 76B CS
0.-14. LEE 76E CS
1.0-5.0 BNL-605
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS
5.0-70. FNAL-045A ANGP,CS
•NUMU DEL+
3.-10. BNL-629
4.0 BNL-589-639
10. BNL-589-639
•NUMU HADRONS
0.-10. BNL-629
0.-400 FNAL-310 ANGP,CS
4.0 BNL-585-635
10. BNL-589-639
•NUMU HADRONS
50.-150 FNAL-389 FV
•NUMU ANYTHING
1.0-5.0 BNL-605
1.0-14. PULLIA 74 CS
10.-50. FNAL-920 CS,MASS
10.-100 FNAL-151A CS
14.-143 HARRIS 77 CS
20.-43. FNAL-388 ANGP,P
35.-64. FNAL-388 ANGP,P
91.-95. FNAL-388 ANGP,P
100 FNAL-320 CS,MASS
130-275 HUBIA 74 CS
131-143 FNAL-388 ANGP,P
•NU- DEL++
0.-10. BNL-427
0.-200 FNAL-053A ANG, ANGP
SCIULLI 74 ANGP, CS,P
0.-400 FNAL-310 ANGP,CS
1.0-8.0 BNL-589-639 P
10.-200 PETERS 78 P
? FNAL-247
•NU- ANYTHING
0.-4.0 ANL-E-412 ANGP,CS
0.-14. HAGUENAUER 75 CS
1.0-6.0 SAMIOS 75 CS,P
2.0-3.5 BNL-693
3.0-5.0 BNL-693
10.-100 FNAL-031A
FNAL-151A ANGP,P
FNAL-227 ANGP,P

NUMU E- --> (CONT.)
•NUMU E-
0.-10. BNL-629
0.-400 FNAL-310 ANGP,CS
0.-12. BNL-613 CS
1.0-5.0 BNL-605
1.0-14. KLUBERG 74 CS
MUSSET 74C
5.0-70. FNAL-045A ANGP,CS
10.-100 FNAL-253 AMOF
7 HASERT 73
VIALLE 74 CS
•E- NUMU HADRONS
1.0-14. KLUBERG 74 CS
•NUMU HADRONS
NUMU P -->
•ANYTHING
0.-12. BNL-613 CS
10.-100 FNAL-151A CS
FNAL-227 CS
28.-43. FNAL-388 CS
35.-64. FNAL-388 CS
70. FNAL-254 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
•NU ANYTHING
10.-14C COFFIN 76 MULT,P
10.-200 STENGER 76 CS, MASS,MULT,P, PT
•NUMU P
0.-4.0 ANL-E-412 ANGP,CS
0.-10. BNL-629
0.-12. BNL-613 CS
0.-14. CLINE 76B CS
0.-14. LEE 76E CS
1.0-5.0 BNL-605
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS
5.0-70. FNAL-045A ANGP,CS
•NUMU DEL+
3.-10. BNL-629
4.0 BNL-589-639
10. BNL-589-639
•NUMU HADRONS
0.-10. BNL-629
0.-400 FNAL-310 ANGP,CS
4.0 BNL-585-635
10. BNL-589-639
•NUMU HADRONS
50.-150 FNAL-389 FV
•NUMU ANYTHING
1.0-5.0 BNL-605
1.0-14. PULLIA 74 CS
10.-50. FNAL-920 CS,MASS
10.-100 FNAL-151A CS
14.-143 HARRIS 77 CS
20.-43. FNAL-388 ANGP,P
35.-64. FNAL-388 ANGP,P
91.-95. FNAL-388 ANGP,P
100 FNAL-320 CS,MASS
130-275 HUBIA 74 CS
131-143 FNAL-388 ANGP,P
•NU- DEL++
0.-10. BNL-427
0.-200 FNAL-053A ANG, ANGP
SCIULLI 74 ANGP, CS,P
0.-400 FNAL-310 ANGP,CS
1.0-8.0 BNL-589-639 P
10.-200 PETERS 78 P
? FNAL-247
•NU- ANYTHING
0.-4.0 ANL-E-412 ANGP,CS
0.-14. HAGUENAUER 75 CS
1.0-6.0 SAMIOS 75 CS,P
2.0-3.5 BNL-693
3.0-5.0 BNL-693
10.-100 FNAL-031A
FNAL-151A ANGP,P
FNAL-227 ANGP,P

NUMU P --> (CONT.)
•NU- ANYTHING (CONT.)
14.-140 HARRIS 77 CS,PT
28.-43. FNAL-388 ANGP,P
35.-64. FNAL-388 ANGP,P
91.-95. FNAL-388 ANGP,P
131-143 FNAL-388 ANGP,P
•CHARM MU-
1.0-6.0 SAMIOS 75 CS
•NU HADRON+ ANYTHING
10.-140 COFFIN 76 P,PT
•NU HADRON- ANYTHING
10.-140 COFFIN 76 P,PT
•NU+ E- ANYTHING
2.0-3.5 BNL-693
3.0-5.0 BNL-693
•MU- HADRON(S STRANGE(S)
1.0-6.0 SAMIOS 75 CS
•0 NU ANYTHING
10.-140 COFFIN 76 MASS
? COFFIN 76 MASS
•P MU- W+
5.0-70. FNAL-045A ANGP,CS
•P PI+ MU-
0.-4.0 ANL-E-412 ANG,CS, MASS
0.-6.0 GARFINKEL 75 CS, MASS
.14-1.5 BARISH 74D CS,P
.20-2.0 MUSGRAVE 75B
2.0-10. VIALLE 75 CS
5.0-70. FNAL-045A ANGP,CS
•P PI0 NUMU
0.-4.0 ANL-E-412 ANG,CS, MASS
0.-14. LEE 74B CS
0.-14. LEE 74B CS
.14-1.0 BARISH 74C CS,P
BARISH 74D CS
1.2-5.0 BNL-605
1.0-10. VIALLE 75 CS
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS,MASS
•P RHO+ MU-
5.0-70. FNAL-045A ANGP,CS
•P ALL(1)03+ MU-
5.0-70. FNAL-045A ANGP,CS
•P K+ MU-
3.-7.0 BARISH 74E CS
•N PI+ NUMU
0.-4.0 ANL-E-412 ANG,CS, MASS
.14-1.5 BARISH 74C CS,P
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS,MASS
? ROUSSET 74B CS
•DEL++ RHO0 MU-
5.0-70. FNAL-045A ANGP,CS
•DEL++ OMEGA MU-
5.0-70. FNAL-045A ANGP,CS
•DEL+ RHO+ MU-
5.0-70. FNAL-045A ANGP,CS
•LAMBDA K+ NUMU
10.-100 FNAL-151A
1.0-14. CNDPS 76 CS,P
•SIGMA+ PI+ MU-
5.0-70. FNAL-045A ANGP,CS
10.-100 FNAL-227
•SIGMA+ K+ MU-
5.0-70. FNAL-045A ANGP,CS
10.-100 FNAL-227
•SIGMA(1385)I3/2+ MU- ANYTHING
10.-140 COFFIN 76 CS
•Y*(UNSPEC)+ K+ MU-
5.0-70. FNAL-045A ANGP,CS
•E- E+ NUMU HADRONS
7 FNAL-247
•E+ NUMU NUE HADRONS
7 FNAL-247
•MU- E+ NUE HADRONS
7 FNAL-247
•2MU- MU+ ANYTHING
28.-43. FNAL-388 CS
35.-64. FNAL-388 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
•MU- NU+ HADRONS
7 FNAL-247
•MU+ 2NUMU HADRONS
7 FNAL-247
•P PI+ PIO MU-
0.-4.0 ANL-E-412 ANG,CS, MASS
10.-140 COFFIN 76 MASS
10.-140 COFFIN 76 MASS

NUMU P --> (CONT.)
•P PI+ PI- NUMU
10.-100 FNAL-151A
•P K+ K- MU
10.-140 COFFIN 76 MASS
•P K0 PI+ MU-
5.0-70. FNAL-045A ANGP,CS
•N 2PI+ MU-
3.-4.0 ANL-E-412 ANG,CS, MASS
10.-100 FNAL-151A
•LAMBDA PI+ MU- ANYTHING
10.-140 COFFIN 76 MASS
•SIGMA+ ANO PI+ MU-
5.0-70. FNAL-045A ANGP,CS
•XI0 2K+ MU-
5.0-70. FNAL-045A ANGP,CS
•P 2PI+ PI- MU-
10.-140 COFFIN 76 MASS
•P PI+ 2PI0 MU-
0.-4.0 ANL-E-412 ANG,CS, MASS
10.-200 STENGER 76 CS
•P K+ KS PI0 MU-
3.-7.0 BARISH 74E CS
•N 2PI+ PI0 MU-
0.-4.0 ANL-E-412 ANG,CS, MASS
•P 2PI+ PI0 PI- MU-
10.-143 COFFIN 76 MASS
•P 2PI+ PI- MU- NEUTRAL(S)
10.-200 STENGER 76 ANGP, CS,MASS
•P 2PI+ PI- MU- ANYTHING
10.-140 COFFIN 76 ANGP, MASS
•LAMBDA 3PI+ PI- MU-
2.0 CAZZOLI 75E FV
•CC ANYTHING
•NU E- E- ANYTHING
10.-150 BALLAGH 77
•MU- HADRON+ ANYTHING
•MU- HADRON- ANYTHING
25.-400 VANDERVELDE 76 CS, P,PT
NUMU N -->
•(NOT ENCODED)
4.0-15. CERN-T-224
•ANYTHING
10.-100 FNAL-151A CS
FNAL-227 CS
•NUMU N
0.-10. BNL-629
•NUMU DELO
0.-10. BNL-629
4.0 BNL-589-639
10. BNL-589-639
•NUMU HADRONS
0.-10. BNL-629
3.-430 FNAL-310 ANGP,CS
4.0 BNL-589-639
10. BNL-589-639
45. BARISH 74G CS
125 BARISH 74G CS
•NUMU ANYTHING
1.0-5.0 BNL-605
10.-100 FNAL-151A CS
•E- P
0.-.23 BNL-704
0.-.40 BNL-706
•MU- P
0.-.40 BNL-706
0.-4.0 ANL-E-412 ANGP,CS
0.-10. BNL-427
0.-14. LEE 76B ANGP,CS
0.-20. LEE 76E CS
.08D-4.3 YOSHIKI 74
.20-2.5 BANN 73B
.20-3.0 BARISH 77B
.25-2.5 CERRICK 73
1.0-6.0 CAZZOLI 76B ANGP, CS,P
2.0-3.5 BNL-693
3.0-5.0 BNL-693
10.-100 FNAL-151A ANGP
FNAL-227 ANGP
•MU- DEL+
0.-10. BNL-427
10.-100 FNAL-151A ANGP
FNAL-227 ANGP
•MU- SIGMA+
0.-10. BNL-427
10.-100 FNAL-227

REACTION/MOMENTUM INDEX (CONT'D)

NUMU N --> (CONT.)

*MU- HADRONS
0.-400 FNAL-310 ANGP,CS
1.0-8.0 BNL-865-639
*NU- ANYTHING
0.-4.0 ANL-E-412 ANGP,CS
0.-14. HAGUENAUER 75 CS
2.0-3.5 BNL-693
3.0-5.0 BNL-693
10.-100 FNAL-151A ANGP,P
FNAL-227 ANGP,P
*MU- E- ANYTHING
2.0-3.5 BNL-693
3.0-5.0 BNL-693
*MU- CHARM ANYTHING
10.-100 FNAL-151A
*P PI0 MU-
0.-4.0 ANL-E-412 ANG,CS,
MASS
0.-14. LEE 76B CS
.20-2.0 MUSGRAVE 75B
2.0-3.5 BNL-693
3.0-5.0 BNL-693
*P PI- NUMU
0.-4.0 ANL-E-412 ANG,CS,
MASS
1.0-10. WILLIE 75 CS
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS,MASS
10.-100 FNAL-227
? ROUSSET 74B CS
*N PI+ MU-
0.-4.0 ANL-E-412 ANG,CS,
MASS
.20-2.0 MUSGRAVE 75B
*N PI0 NUMU
0.-14. LEE 76B CS
0.-14. LEE 76B CS
1.0-5.0 BNL-605
2.0-3.5 BNL-693
3.0-5.0 BNL-693 CS,MASS
*LAMBDA P I+ MU-
0.-10. BNL-427
10.-100 FNAL-227
*LAMBDA K+ MU-
10.-100 FNAL-227
*LAMBDA K0 NUMU
0.-4.0 ANL-E-412 ANG,CS,
MASS
10.-100 FNAL-151A MASS
*SIGMA+ K0 MU-
10.-100 FNAL-727
*SIGMA0 P I MU-
10.-100 FNAL-227
*SIGMA0 K+ MU-
10.-100 FNAL-227
*P PI+ PI- MU-
10.-100 FNAL-151A
FNAL-227
*LAMBDA PI+ MU- ANYTHING
10.-100 FNAL-151A
*SIGMA- 2PI+ MU-
0.-10. BNL-427
*P PI+ 2PI- NUMU
10.-100 FNAL-227
*LAMBDA P I+ PI0 MU- ANYTHING
10.-100 FNAL-151A
*SIGMA+ PI+ PI- MU- ANYTHING
10.-100 FNAL-151A
NUMU NUCLEON -->
(*INDT ENCODED)
0.-14. MORFIN 74
MUSSET 73B
10.-140 MESSING 75
24.-54. BABAEV 73B
*STRANGE
1.0-12. FRANCOIS 77
*ANYTHING
1.0-10. DEGRANGE 74 CS
? HAGUENAUER 74B CS
*NU ANYTHING
10.-140 HANN 75 CS
*NUMU NUCLEON
0.-11. HAGUENAUER 74B P
*NUMU HADRONS
0.-3.0 VIALLE 74 CS
10.-140 BARISH 75I CS
25.-170 BARISH 74A P
*NUMU HADRONS(I
1.0-14. LAGARRIGUE 75 CS
MUSSET 74C
2.0 VANDONINCK 76 CS
*LEPTON HADRONS
10.-140 BENVENUTI 75B
MASS

NUMU NUCLEON --> (CONT.)

*E+ HADRONS
2.0 DEDEN 77 CS,*MASS
*E+ ANYTHING
1.0-14. HAGUENAUER 76 CS
3.0-10. SACTON 76 CS
*MU- HADRONS
10.-100 BENVENUTI 76E
MASS
10.-140 AUBERT 74C CS,P
10.-140 BENVENUTI 74D CS
20.-180 SCIULLI 74B CS,P
25.-75. BARISH 73G P
130-170 BARISH 73G P
*MU- HADRONS(I
1.0-14. MUSSET 74C
*MU- ANYTHING
0.-14. HAGUENAUER 74B P
1.0-8.0 LTZ 75 CS,P
1.0-10. DEGRANGE 74 CS,P
10.-140 BENVENUTI 76B CS
130-275 RUBBIA 74 MASS
*MU+ ANYTHING
0.-140 BARGER 76B PT
25.-75. BARISH 73H
130-170 BARISH 73H
*K+ ANYTHING
? HAGUENAUER 74B CS
*KO ANYTHING
? HAGUENAUER 74B CS
*CHARM ANYTHING
2.0 DEDEN 75
? DEDEN 75
*ANYTHING STRANGE
2.0 DEDEN 75
*E- VEE ANYTHING
1.0-14. HAGUENAUER 76 CS
3.0-10. SACTON 76 CS
*E+ HADRONS VEE
2.0 DEDEN 77 CS,*MASS
*MU- E- HADRONS
2.0 DEDEN 77 CS,*MASS
*MU- E- ANYTHING
1.0-14. HAGUENAUER 76 CS
3.0-10. SACTON 76 CS
*MU- E+ HADRONS
2.0 DEDEN 77 CS,*MASS
*MU- E+ ANYTHING
3.0-10. SACTON 76 CS,P,PT
36. HAIDT 76 CS
*2MU- ANYTHING
1.0-140 BENVENUTI 75D P,
PT
*MU- MU+ ANYTHING
0.-30. ASRATYAN 75C CS
10.-140 BENVENUTI 75D P,
PT
BENVENUTI 75H ANG,
CS,*MASS,PT
130-275 RUBBIA 74 CS
*2MU- ANYTHING
1.0-140 BENVENUTI 75D P,
PT
*K+ AKO ANYTHING
1.0-140 HAGUENAUER 74B CS
*NUCLEON NUMU NEUTRAL(S)
10.-140 BENVENUTI 76C AMP,
CS
*NUCLEON PI0 NUMU
0.-20. LEE 76D CS
1.0-10. VIALLE 75 CS,P
*NUCLEON PI0 MU-
0.-20. LEE 76D CS
*NUCLEON PI- NUMU
1.0-10. VIALLE 75 CS,P
*LAMBDA K+ ANYTHING
? HAGUENAUER 74B CS
*LAMBDA K0 ANYTHING
? HAGUENAUER 74B CS
*MU- E- HADRONS VEE
2.0 DEDEN 77 CS,*MASS
*MU+ E+ HADRONS VEE
2.0 DEDEN 77 CS,*MASS
*MU- E+ VEE ANYTHING
0.-14. HAGUENAUER 76 CS,
*MASS,P,POL
3.0-10. SACTON 76 CS,*MASS,
P,PT
*2MU- ANYMU ANYTHING
10.-140 RUBBIA 76B CS,
*MASS,P
*2MU- MU+ ANYTHING
10.-140 RUBBIA 76B CS,
*MASS,P
50.-150 BENVENUTI 77 CS,
FV,P

NUMU NUCLEON --> (CONT.)

*MU- MU+ NUMU ANYTHING
10.-140 RUBBIA 76B CS,
MASS,P
*KS MU- E+ ANYTHING
0.-140 BOSETTI 76 CS
36. HAIDT 76 CS
*NUCLEON MU- MU+ NUMU
25.-75. BARISH 73E
130-170 BARISH 73E
*LAMBDA MU- E+ ANYTHING
36. HAIDT 76 CS
?-- MU- E+ E+ ANYTHING
6.0-150 BENVENUTI 74E CS
*ANYTHING -- MUON ANYTHING
10.-140 AUBERT 74 CS,P
*MU- E+ ANYTHING - MU- E+
VEE ANYTHING
1.0-14. HAGUENAUER 76 CS,
MASS,P,PCL
*3MU-
+ 2MU- MU+ + MU- 2MU+ +
3MU+
10.-140 BENVENUTI 75D
NUMU DEUT -->
(*INDT ENCODED)
0.-10. BNL-427
.50-5.0 BARISH 76E
*MU- PRONG
1.0-6.0 SAMIOS 75 CS
*NU- ANYTHING
1.0-6.0 SAMIOS 75 CS,P
*NU- HADRON(S)+ANGE(S)
1.0-6.0 SAMIOS 75 CS
*MU- 2PRONG
1.0-6.0 SAMIOS 75 CS
*E+ NUMU ANYTHING
10.-100 FNAL-151A
*PI- NUMU ANYTHING
10.-100 FNAL-151A
*P(SIPECT) P MU-
.20-2.0 MUSGRAVE 75B
*MU- 3PRONG
1.0-6.0 SAMIOS 75 CS
*P(SIPECT) P PI3 MU-
0.-6.0 GARFINKEL 75 CS,
MASS
*P(SIPECT) P K3 MU-
0.-7.0 BARISH 76E CS
*P(SIPECT) P PI+ MU-
3.-6.3 GARFINKEL 75 CS,
MASS
*P(SIPECT) LAMBDA K+ MU-
3.-7.0 BARISH 76E CS
*P(SIPECT) LAMBDA K3 NUMU
3.-7.0 BARISH 76E CS
*N(SIPECT) P PI+ MU-
0.-6.0 GARFINKEL 75 CS,
MASS
*MU- 4PRONG
1.0-6.0 SAMIOS 75 CS
*P(SIPECT) LAMBDA K1 PI+ MU-
0.-7.0 BARISH 76E CS
*MU- 5PRONG
1.0-6.0 SAMIOS 75 CS
*MU- 6PRONG
1.0-6.0 SAMIOS 75 CS
*N(SIPECT) P PI+ PI- MU- E+
NUE
1.0-6.0 GARFINKEL 76B CS
*N(SIPECT) P PI+ PI3 PI- MU-
E+ NUE
0.-6.0 BARISH 76E CS,PV
NUMU CI2 -->
(*E- NI2)
0.-.23 BNL-704
NUMU NE -->
(*INDT ENCODED)
5.0-155 FNAL-028A
*ANYTHING
28.-43. FNAL-388 CS
35.-64. FNAL-388 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
*NUMU HADRON(S)
50.-150 FNAL-383 FV
*NUMU ANYTHING
24.-43. FNAL-388 ANGP,P
35.-64. FNAL-388 ANGP,P
91.-95. FNAL-388 ANGP,P

NUMU NE --> (CONT.)

*NUMU ANYTHING (CONT.)
131-143 FNAL-388 ANGP,P
*MU- HADRONS
0.-200 FNAL-053A ANG,
ANGP
*MU- ANYTHING
28.-43. FNAL-388 ANGP,F
35.-64. FNAL-388 ANGP,P
91.-95. FNAL-388 ANGP,P
131-143 FNAL-388 ANGP,P
*MVY-LEPTON- ANYTHING
0.-200 CNOP5 77 CS
*MVY-LEPTON+ ANYTHING
0.-200 CNOP5 77 CS
*MU- E+ HADRONS
14.-140 BALTAY 77B CS,
MASS,P
*MU- E+ N(PRONG)
14.-140 BALTAY 77B MULT
*NE MU- W+
0.-200 FNAL-053A ANG,
ANGP
*NE MU- S+
0.-200 FNAL-053A ANG,
ANGP
*MU- E+ HADRON(S) VEE(S)
14.-140 BALTAY 77B CS
*2NU- MU+ ANYTHING
28.-43. FNAL-388 CS
35.-64. FNAL-388 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
*NE MU- E+ NUE
0.-200 FNAL-053A ANG,
ANGP
*NE MU- MU+ NUMU
0.-200 FNAL-053A ANG,
ANGP
NUMU PE -->
(*NUMU ANYTHING
0.-260 CERN-WA-001
*MU- HADRONS
30.-200 HOLDER 77C CS,P
*MU- ANYTHING
0.-260 CERN-WA-001
14.-140 AUBERT 74F MASS,P
*2NU- ANYTHING
30.-200 HOLDER 77B ANG,P
*MU- MU+ ANYTHING
0.-140 BENVENUTI 75F
NUMU PB -->
*PB E- E+ NUMU
0.-400 FNAL-310 ANGP,CS
*PB MU- E+ NUE
0.-400 FNAL-310 ANGP,CS
*PB MU- MU+ NUMU
0.-400 FNAL-310 ANGP,CS
NUMU NUCLEUS -->
(*INDT ENCODED)
1.0-14. FAISSNER 76B
4.0-19. CERN-T-245
5.0-35. AKERLOF 77B
13.-140 BARISH 75E
BENVENUTI 77E
WANDERER 77
*HADRONS
14.-140 AUBERT 74G CS
*ANYTHING
10.-150 BARISH 75C
*NU HADRONS
1.0-10. HASERT 73B
*MU- NUCLEONS
1.0-14. BERTANODORE 75B
*MU- PRONGS
2.0-30. BARANOV 77E ANGP,
P
*MU- ANYTHING
2.0-30. BARANOV 77D ANGP,
P,PT
40.-300 FNAL-021A ANGP,CS
*MUON ANYTHING
10.-140 BENVENUTI 74 ANGP,
P
*PI0 NUCLEONS
1.0-14. BALDOCCHI 75B
*CHARM PRONG(S)
10.-100 FNAL-564 FV
*CHARM ANYTHING
14.-140 BURHOP 76 CS

REACTION/MOMENTUM INDEX (CONT'D)

NUMU NUCLEUS --> (CONT.)

*LCNGLIVED ANYTHING
10.-120 BENVENUTI 75G CS I
7 KRISHNASWAMY 75B I
CS I
*ANUMU HADRONS STRANGE(S) I
? BERTRANDCORE 75C I
*MU- E- ANYTHING I
140 BOSETTI 76B CS I
*MU- HADRONS STRANGE(S) I
? BERTRANDCORE 75C I
*2MUON ANYTHING I
0.-140 BARISH 75D I
*NUCLEUS MU- W+ I
10.-100 FNAL-001A I
*CHARM PRONG ANYTHING I
10.-100 FNAL-531 FV I
*MU- E+ STRANGE ANYTHING I
140 BOSETTI 76B CS, I
MASS I
*NUCLEUS MU- MU+ NUMU I
10.-100 FNAL-001A I
300 FNAL-021A ANGP, I
MASS I
*KS MU- E+ NUE NEUTRALS I
0.-140 VCNKRCGH 76 CS, I
MASS,P,PT I
*P KS PI+ PIO PI- MU- E+ NUE I
NEUTRALS I
0.-140 VCNKRCGH 76 CS, I
MASS,P,PT I
*P KS PI+ PIO 2PI- MU- E+ I
NUE NEUTRALS I
0.-140 VCNKRCGH 76 CS, I
MASS,P,PT I
*4P N KS 3PI+ PIO 2PI- MU- I
E+ NUE NEUTRALS I
0.-140 VCNKRCGH 76 CS, I
MASS,P,PT I
ANUMU E- -->
ANUMU MU-
0.-200 FNAL-180 ANGP,CS I
*ANUMU E-
0.-14. HASERT 75 CS I
0.-200 FNAL-390 I
0.-200 FNAL-180 ANEP,CS I
0.-400 FNAL-310 ANGP,CS I
1.0-5.0 BNL-605 I
1.3-14. BERTRANDCORE 75 I
KLUBERG 76 CS I
LAGARRIGUE 75 CS I
MUSSET 76C I
SACTON 74B CS I
2.0 VANDONINCK 76 CS I
4.0 BNL-586-639 I
10. BNL-585-639 I
10.-100 FNAL-223 ANGP I
7 BLIETSCHAU 76 I
VIALLE 76 CS I
*E- ANUMU HADRON(S) I
1.0-14. KLUBERG 76 CS I
ANUMU P -->
*(NOT ENCODED) I
.50-7.0 CERRICK 76B I
4.0-19. CERN-T-224 I
14.-140 FARRAR 77C CS I
*NIPI(0) I
10.-142 BARISH 75H I
*STRANGE I
1.4-14. CAZICLI 76C I
*PRONG(S) I
10.-140 BARISH 75H I
*ANYTHING I
10.-100 FNAL-031A CS I
0.-130 FNAL-172 CS I
0.-200 FNAL-180 CS I
28.-43. FNAL-388 CS I
35.-64. FNAL-388 CS I
91.-95. FNAL-388 CS I
131-143 FNAL-388 CS I
*ANUMU P
0.-14. ESCOUBES 75 CS I
0.-200 FNAL-180 ANGP,CS I
*ANUMU DEL+ I
4.0 BNL-585-639 I
10. BNL-585-639 I
*ANUMU SIGMA+ I
0.-5.0 BNL-532 I
0.-100 FNAL-390 I
*ANUMU HADRONS I
0.-400 FNAL-310 ANGP,CS I
4.0 BNL-585-639 I
10. BNL-585-639 I

ANUMU P --> (CONT.)

*ANUMU HADRON(S) I
50.-150 FNAL-380 FV I
*ANUMU ANYTHING I
10.-50. FNAL-320 CS,MASS I
28.-43. FNAL-388 ANGP,P I
35.-64. FNAL-388 ANGP,P I
91.-95. FNAL-388 ANGP,P I
100 FNAL-320 CS,MASS I
130-275 RUBBIA 74 CS I
131-143 FNAL-388 ANGP,P I
*MU- N I
0.-5.0 BNL-532 I
0.-14. ESCOUBES 75 CS I
0.-100 FNAL-031A ANGP, I
POL I
FNAL-390 ANGP I
0.-200 FNAL-180 ANGP,CS I
? FNAL-180 ANGP,CS I
*MU+ DEL0 I
0.-100 FNAL-031A ANGP, I
ONE I
FNAL-390 I
0.-130 FNAL-172 ANGP,CS I
0.-200 FNAL-180 ANGP,CS I
*MU+ LAMBDA I
0.-5.0 BNL-532 I
0.-100 FNAL-031A ANGP, I
POL I
FNAL-390 I
0.-130 FNAL-172 ANGP,CS I
0.-200 FNAL-180 ANGP,CS I
*MU+ SIGMA0 I
0.-5.0 BNL-532 I
0.-100 FNAL-031A ANGP, I
POL I
FNAL-390 I
0.-130 FNAL-172 ANGP,CS I
0.-200 FNAL-180 ANGP,CS I
*MU+ XI0 I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
*MU+ HADRONS I
0.-200 FNAL-180 ANGP,CS I
SCIULLI 74 ANGP, I
CS,P I
0.-400 FNAL-310 ANGP,CC I
1.0-8.0 BNL-585-639 I
*MU+ ANYTHING I
0.-5.0 BNL-532 I
0.-100 FNAL-390 ANGP,CS, I
P I
10.-140 BARISH 75H I
20.-43. FNAL-388 ANGP,P I
35.-64. FNAL-388 ANGP,P I
91.-95. FNAL-388 ANGP,P I
131-143 FNAL-388 ANGP,P I
*MYSTERIOUS I
0.-200 FNAL-180 ANGP,CS I
*MU+ GAMMA HADRONS I
0.-200 FNAL-180 ANGP,CS I
*P MU+ CHARM I
0.-100 FNAL-390 I
*P PI- MU+ I
0.-5.0 BNL-532 I
*P RHO- MU+ I
0.-200 FNAL-180 ANGP,CS I
*P K- MU+ I
0.-5.0 BNL-532 I
? BNL-532 I
*N ETA MU+ I
0.-200 FNAL-180 ANGP,CS I
*N RHO0 MU+ I
0.-200 FNAL-180 ANGP,CS I
*N OMEGA MU+ I
0.-200 FNAL-180 ANGP,CS I
*N PHI MU+ I
0.-200 FNAL-180 ANGP,CS I
*N K0 MU+ I
0.-200 FNAL-180 ANGP,CS I
*DEL+ RHO0 MU+ I
0.-200 FNAL-180 ANGP,CS I
*DEL0 ETA MU+ I
0.-200 FNAL-180 ANGP,CS I
*DEL0 RHO0 MU+ I
0.-200 FNAL-180 ANGP,CS I
*DEL0 OMEGA MU+ I
0.-200 FNAL-180 ANGP,CS I
*LAMBDA MU- CHARM I
0.-100 FNAL-390 I

ANUMU P --> (CONT.)

*LAMBDA PI0 MU+ I
0.-5.0 BNL-532 I
*LAMBDA K0 MU+ I
0.-5.0 BNL-532 I
*LAMBDA AKO MU+ I
0.-200 FNAL-180 ANGP,CS I
*SIGMA+ ANUMU ANYTHING I
0.-100 FNAL-390 I
*SIGMA+ PI- MU+ I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
*SIGMA+ K- MU+ I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
*SIGMA0 MU+ CHARM I
0.-100 FNAL-390 I
*SIGMA0 K0 MU+ I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
*SIGMA- PI+ MU+ I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
*SIGMA- K+ MU+ I
0.-5.0 BNL-532 I
0.-200 FNAL-180 ANGP,CS I
Y(UNSPEC)+ MU+ CHARM I
0.-100 FNAL-390 I
Y(UNSPEC)0 MU+ CHARM I
0.-100 FNAL-390 I
*XI- PI+ MU+ I
0.-200 FNAL-180 ANGP,CS I
*OMEGA- K+ MU+ I
0.-5.0 BNL-532 I
*MU- 2MU+ ANYTHING I
28.-43. FNAL-388 CS I
35.-64. FNAL-388 CS I
91.-95. FNAL-388 CS I
131-143 FNAL-388 CS I
*P PI0 PI- MU+ I
0.-5.0 BNL-532 I
*P K0 PI- MU+ I
0.-200 FNAL-180 ANGP,CS I
*P AK0 PI- MU+ I
0.-5.0 BNL-532 I
*P K- PI0 MU+ I
0.-5.0 BNL-532 I
*P SIGMA+ MU- ANUE I
0.-5.0 BNL-532 I
*N MU- 2MU+ I
0.-200 FNAL-180 ANGP,CS I
*N K- PI+ MU+ I
0.-200 FNAL-180 ANGP,CS I
*LAMBDA K+ PI- MU+ I
0.-5.0 BNL-532 I
*P PI+ 2PI- MU+ I
0.-5.0 BNL-532 I
0.-230 FNAL-180 ANGP,CS I
*CC ANYTHING I
* MU+ E- ANYTHING I
0.-150 BALLAGH 77 I
ANUMU N -->
*(NOT ENCODED) I
4.0-19. CERN-T-224 I
*ANYTHING I
0.-130 FNAL-172 CS I
0.-230 FNAL-180 CS I
*ANUMU DEL0 I
4.0 BNL-589-639 I
10. BNL-589-639 I
*ANUMU LAMBDA I
0.-100 FNAL-390 I
*ANUMU HADRONS I
0.-400 FNAL-313 ANGP,CS I
4.0 BNL-589-639 I
10. BNL-585-639 I
45. BARISH 74G CS I
135 BARISH 74G CS I
*MU+ DEL- I
0.-130 FNAL-172 ANGP,CS I
0.-200 FNAL-180 ANGP,CS I
*MU+ SIGMA- I
0.-100 FNAL-390 I
0.-130 FNAL-172 ANGP,CS I
0.-200 FNAL-180 ANGP,CS I
*MU+ SIGI1385P13)- I
0.-100 FNAL-390 I
*MU- SIGI1NSPEC)+ I
0.-130 FNAL-172 ANGP,CS I

ANUMU N --> (CONT.)

*MU+ XI-
0.-200 FNAL-180 ANGP,CS I
*MU- HADRONS I
0.-200 FNAL-180 ANGP,CS I
0.-400 FNAL-310 ANGP,CS I
1.0-8.0 BNL-585-639 I
*MU- ANYTHING I
0.-100 FNAL-390 ANGP,CS, I
P I
0.-130 FNAL-172 ANGP,CS I
*MU+ GAMMA HADRONS I
0.-200 FNAL-180 ANGP,CS I
*MU+ CHARGED ANYTHING I
0.-100 FNAL-390 I
*MU+ NEUTRAL ANYTHING I
0.-100 FNAL-390 I
*N MU+ CHARM I
0.-100 FNAL-390 I
*LAMBDA MU+ ANUMU ANYTHING I
0.-100 FNAL-390 I
*LAMBDA MU+ CHARM I
0.-100 FNAL-350 I
*LAMBDA K- MU+ I
0.-200 FNAL-180 ANGP,CS I
*SIGMAO MU+ CHARM I
0.-100 FNAL-390 I
*SIGMA0 K- MU+ I
0.-200 FNAL-180 ANGP,CS I
*SIGMA- MU+ CHARM I
0.-100 FNAL-390 I
*SIGMA- K- MU+ I
0.-200 FNAL-180 ANGP,CS I
*SIGMA- AKO MU+ I
0.-200 FNAL-180 ANGP,CS I
Y(UNSPEC)0 MU+ CHARM I
0.-100 FNAL-390 I
Y(UNSPEC)- MU+ CHARM I
0.-100 FNAL-390 I
*P PI- MU+ I
0.-100 FNAL-390 FV I
*N K0 PI- MU+ I
0.-200 FNAL-180 ANGP,CS I
NANU NUCLEON -->
*STRANGE I
1.0-12. FRANCOIS 77 I
*ANYTHING I
1.0-10. CEGRANGE 74 CS I
10.-140 AUBERT 74B CS I
0.-200 FNAL-180 AUBERT 74B CS I
*ANU ANYTHING I
10.-140 MANN 75 CS I
*ANUMU NUCLEON I
0.-3.0 VALLE 74 CS I
0.-11. HAGUENAUER 74B P I
10.-140 BARISH 75I CS I
*ANUMU HADRONS I
25.-170 BARISH 76K P I
*ANUMU HADRON(S) I
1.0-14. LAGARRIGUE 75 CS I
2.0 VANDONINCK 76 CS I
*LEPTON HADRONS I
10.-140 BENVENUTI 75B I
*MU- NUCLEON I
1.0-10. CEGRANGE 74 CS,P I
*MU+ HADRONS I
10.-100 BENVENUTI 76E I
I
I
10.-140 AUBERT 74C CS,P I
10.-140 BENVENUTI 74D CS I
*MU+ ANYTHING I
0.-11. HAGUENAUER 74B P I
1.0-8.0 LUTZ 75 CS,P I
1.0-10. CEGRANGE 74 CS,P I
10.-140 BENVENUTI 76B CS I
10.-230 NEZRICK 76 P I
14.-80. BERGE 77 P,PT I
43. SCIULLI 74B CS I
100 SCIULLI 74B CS I
*MUON ANYTHING I
10.-140 AUBERT 74B CS I
? AUBERT 74B CS I
*PU- MU+ ANYTHING I
0.-30. ASRATYAN 75C CS I
1.0-140 BENVENUTI 75E I
*NUCLEON NUMU NEUTRALIS(1) I
10.-140 BENVENUTI 76C AWP, I
CS I
*NUCLEON PI0 ANUMU I
1.0-10. VIALLE 75 CS,P I
*NUCLEON PI- ANUMU I
1.0-10. VIALLE 75 CS,P I
*MU- MU+ ANUMU ANYTHING I
10.-140 RUBBIA 76B CS, I
MASS,P

REACTION/MOMENTUM INDEX (CONT'D)

ANUMU NUCLEON --> (CONT.)

+MU- 2MU+ ANYTHING
10.-140 RUBBIA 76B CS, P
MASS, P
50.-150 BENVENUTI 77 CS, P
FV, P
+2MU+ NUMU ANYTHING
10.-140 RUBBIA 76B CS, P
MASS, P
-- MU+
+ ANYTHING
6.0-150 BENVENUTI 74E CS
+E- ANYTHING
+ E+ ANYTHING
0.-150 BERGE 76 CS
0.-150 BERGE 76 CS
+MU- E- ANYTHING
+ MU+ E+ ANYTHING
0.-150 BERGE 76 CS
+MU- E+ ANYTHING
+ MU+ E- ANYTHING
0.-150 BERGE 76 CS
ANUMU DEUT -->

+STRANGE
1.0-14. CAZZOLI 76C
+ANUMU DEUT
0.-100 FNAL-390
+MU+ ANYTHING
0.-100 FNAL-390 ANGP, CS, P
P
+MUV-LEPTON HADRON(S)
0.-100 FNAL-390
+PI+ ANUMU ANYTHING
0.-100 FNAL-390
+PI- ANUMU ANYTHING
0.-100 FNAL-390
ANUMU NE -->

-ANYTHING
0.-130 FNAL-172 CS
28.-43. FNAL-388 CS
35.-64. FNAL-388 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
+ANUMU HADRON(S)
50.-150 FNAL-388 FV
+ANUMU ANYTHING
28.-43. FNAL-289 ANGP, P
35.-64. FNAL-388 ANGP, P
91.-95. FNAL-388 ANGP, P
131-143 FNAL-388 ANGP, P
+MU- F
0.-200 FNAL-180 ANGP, CS
+NU+ ANYTHING
28.-43. FNAL-388 ANGP, P
35.-64. FNAL-388 ANGP, P
91.-95. FNAL-388 ANGP, P
131-143 FNAL-388 ANGP, P
+NE RHO- MU+
0.-130 FNAL-172 ANGP, CS
+NE BI(200)- MU+
0.-130 FNAL-172 ANGP, CS
+NE BI(2251)- MU+
0.-130 FNAL-172 ANGP, CS
+MU- MU+ ANUMU ANYTHING
0.-200 FNAL-180 ANGP, CS
+MU- 2MU+ ANYTHING
28.-43. FNAL-388 CS
43.-91. FNAL-388 CS
91.-95. FNAL-388 CS
131-143 FNAL-388 CS
+MU+ E- 2NU ANYTHING
0.-200 FNAL-180 ANGP, CS
ANUMU NU -->

+ANUMU ANYTHING
0.-200 CERN-WA-001
+NU+ HADRONS
30.-200 HOLDER 77C CS, P
+NU+ ANYTHING
0.-260 CERN-WA-001
14.-140 AUBERT 74F MASS, P
+2MU+ ANYTHING
30.-200 HOLDER 77B ANG, P
+2MUCN ANYTHING
30.-220 MIME 77 ANG, CS
+3MUDN ANYTHING
30.-220 MIME 77 CS

ANUMU NUCLEUS -->

+(NOT ENCODED)
1.0 HAISSINSKI 69B
1.2-1.3 BALAKIN 72
KIRGADZE 72
1.2-2.0 BORGIA 72B
1.2-2.4 CERADINI 72
1.4-2.4 BARTOLI 72
1.4-3.0 BARBARINO 72B
1.5-2.4 BORGIA 70
1.6-2.0 ALLESBORELLI 71C
BARTOLI 70D
4.0 AVERILL 72
SIDOROV 72
+J/PSI(3100)0
3.1-3.1 BACCI 74
+PSI(3700)0
3.6-3.7 ABRAMS 74
+ANYTHING
3.6-3.7 ABRAMS 74
+2GAMMA
1.E-03-1.E-03
SCHMIDT 73B PCL
+E+ E-
3.1-3.1 BACCI 74
E- P -->

+(NOT ENCODED)
3.-8.0 KAJIURA 69
0.-18. MILLER 71H
+10.-80 DALEY 70
STEWART 70
.50 BOUNIN 68
.50 BALLA 65
.90 BERNARDINI 69
.98 ANSORGE 73C
1.0 TITOV 70B
TITOV 70C
1.1 BARTEL 72
BOUNIN 68
1.2 TITOV 70B
TITOV 72C
1.3 BABA 69
BABA 71
KAJIURA 70
1.5-6.0 BARTEL 68B
1.7 CASSIDAY 68
2.0 NUTHANKI 71
2.5 BERGER 68
2.5-10. TITOV 71C
3.0 BABA 69
BABA 71
LAZARUS 72C
3.3-13. LITT 72
3.3 ALBRECHT 68
4.0 ALBRECHT 68
4.0-13. ANDREWS 72
4.4 AKIMOV 72
4.5-18. MILLER 72B
5.2 ALBRECHT 68
TITOV 72
6.5 BRASSE 71D
6.6 BARTEL 70
7.0-18. BLOOM 69
7.2 HEUSCH 74
7.5 ANDREWS 71
9.5 ANDREWS 71
13. TITOV 72
10.-50. BERGER 71B
12. LOHRMANN 73B
15. ALBRECHT 71
ALBRECHT 71B
POWELL 73
ROCK 70
ROCK 70B
18. POWELL 73
ROCK 70
ROCK 70B
25. ALBRECHT 71B
80. LOHRMANN 73B
+(NCT ENCODED)
ALLESBORELLI 70
ALLESBORELLI 70B
.58 HAISSINSKI 69B
.70-.80 AUSLANDER 69
.70-1.0 AUGUSTIN 69B
.77-.80 BENAKSAS 72C
.80-.87 ALLESBORELLI 71
.95 COSME 72
PARROUR 71
SZKLARZ 72
1.0-1.0 BENAKSAS 72C
1.0 BALAKIN 72B
BECKER 68
SIDOROV 69
1.0-1.3 BALAKIN 71C

E- E+ -->

+(NOT ENCODED)
1.2-2.0 BORGIA 72B
1.2-2.4 CERADINI 72
1.4-2.4 BARTOLI 72
1.4-3.0 BARBARINO 72B
1.5-2.4 BORGIA 70
1.6-2.0 ALLESBORELLI 71C
BARTOLI 70D
4.0 AVERILL 72
SIDOROV 72
+J/PSI(3100)0
3.1-3.1 BACCI 74
+PSI(3700)0
3.6-3.7 ABRAMS 74
+ANYTHING
3.6-3.7 ABRAMS 74
+2GAMMA
1.E-03-1.E-03
SCHMIDT 73B PCL
+E+ E-
3.1-3.1 BACCI 74
E- P -->

+(NOT ENCODED)
0.-25. ELLIS 77 P
+N(PRONG)
.060-10. HORN 75B
1.0-10. TAYLOR 75 MULT
1.7-10. ALBINI 75B
HORN 75B MULT
+ANYTHING
7 ALDER 75C P
KIENZLE-W 75 CS
EICKMEYER 75B CS
+INELASTIC
7 ALLTON 73
ATWOOD 74 CS
DIX 72
+GAMMA ANYTHING
18. MORSTER 72
20. MORSTER 72
40. VARFOLOMEEV 76 P
+E- P
0.-.11 BERARD 73
.070 THEISSEN 74
.38 MORET 71B
.45-1.8 PRICE 71B
.98 BOUQUET 71B
1.7 CASSIDAY 68
2.7 HARTWIG 75
3.0 KIPKMAN 70
3.1 HARTWIG 75
4.0 KIRK 70
MAR 69
4.5-20. STEIN 75
7.0-45. REISER 71B
10. MAR 69
13. ATWOOD 75C
15. POWELL 70B
18. POWELL 70B
20. ALGUARD 76B ASYM
ATWOOD 75C
7 ALLTON 73
BILENKAYA 76
BOTTERILL 73C
DRAKOPETIM 72
GOITEIN 70
MAR 69
+E- N(1520)3/+
7 ALDER 75 ANGP, CS
+E- N(1520)3/+
3.0-3.4 KOBBERLING 74B CS
+E- N(1535)1/+
7 ALDER 75 ANGP, CS
+E- N(1700)1+
3.0-3.4 KOBBERLING 74B CS
1.0 TITOV 71D
1.0-1.2 TITOV 73
1.2 TITOV 71D
1.3 KAJIURA 70B
3.0 KAJIURA 70B
3.0-3.4 KOBBERLING 74B CS
8.0 KAJIURA 70B

FOR E+E- COLLISIONS WE GIVE THE TOTAL CENTER-OF-MASS ENERGY, RATHER THAN THE EQUIVALENT LAB MOMENTUM
E- E+ -->

+(NOT ENCODED)
.014-.026
BRIDAY 72
1.1 BARBER 71
7 BARBER 69
CHENG 69
+2E-
.078-.14 CCOPER 75E
+2E- GAMMA
1.E-03 NAKEL 73 CS
1.E-03-2.E-03
LICHTENBERG 74D
.20 VANFOLCHEEV 75
7 NAKEL 74
ROCK 70B
ROCK 70B
POWELL 73
ROCK 70
ROCK 70B
ALBRECHT 71B
ALBRECHT 69B
ALBRECHT 69B
ALDER 72E
ALDER 72C
ALLABY 70B
AMALDI 70
ANDREWS 72
APPEL 70
BAETZNER 72
BARTEL 68
BARTEL 69
BARTEL 71
BARTEL 72B
BARTEL 73C
BEBEK 73F
BEBEK 77B
BLECKWENN 72B

E- P -->

+(NOT ENCODED)
BLECKWENN 72C
BLOOM 72
BRASSE 71
BRASSE 71C
BRAUEL 73
BREIDENBACH 69
BROWN 72C
BROWN 73B
DAKIN 73D
DEUTSCHES 71
DRIVER 72B
ECKARDT 73B
ECKARDT 73C
GALSTER 72
HARTILL 73
IBBOTSON 71
KERCKHNER 71
KIRK 73
KOBBERLING 73
KUMMER 72
LAZARUS 72
LAZARUS 72B
MISTRETTA 69
MO 69
MORITZ 72
ROSENBERG 70D
SASAO 77
SHUTTLEWORTH 72
SOFAIR 73
THEISSEN 72
TITOV 71E
TONER 71
WHITE 71
+HADRONS
0.-25. ELLIS 77 P
+N(PRONG)
.060-10. HORN 75B
1.0-10. TAYLOR 75 MULT
1.7-10. ALBINI 75B
HORN 75B MULT
+ANYTHING
7 ALDER 75C P
KIENZLE-W 75 CS
EICKMEYER 75B CS
+INELASTIC
7 ALLTON 73
ATWOOD 74 CS
DIX 72
+GAMMA ANYTHING
18. MORSTER 72
20. MORSTER 72
40. VARFOLOMEEV 76 P
+E- P
0.-.11 BERARD 73
.070 THEISSEN 74
.38 MORET 71B
.45-1.8 PRICE 71B
.98 BOUQUET 71B
1.7 CASSIDAY 68
2.7 HARTWIG 75
3.0 KIPKMAN 70
3.1 HARTWIG 75
4.0 KIRK 70
MAR 69
4.5-20. STEIN 75
7.0-45. REISER 71B
10. MAR 69
13. ATWOOD 75C
15. POWELL 70B
18. POWELL 70B
20. ALGUARD 76B ASYM
ATWOOD 75C
7 ALLTON 73
BILENKAYA 76
BOTTERILL 73C
DRAKOPETIM 72
GOITEIN 70
MAR 69
+E- N(1520)3/+
7 ALDER 75 ANGP, CS
+E- N(1520)3/+
3.0-3.4 KOBBERLING 74B CS
+E- N(1535)1/+
7 ALDER 75 ANGP, CS
+E- N(1700)1+
3.0-3.4 KOBBERLING 74B CS
1.0 TITOV 71D
1.0-1.2 TITOV 73
1.2 TITOV 71D
1.3 KAJIURA 70B
3.0 KAJIURA 70B
3.0-3.4 KOBBERLING 74B CS
8.0 KAJIURA 70B

FOR E+E- COLLISIONS WE GIVE THE TOTAL CENTER-OF-MASS ENERGY, RATHER THAN THE EQUIVALENT LAB MOMENTUM

REACTION/MOMENTUM INDEX (CONT'D)

E- P --> (CONT.)

*E- NICHGE-HADRON)
1.9-7.0 GARBINCIUS 73
*E- NEHADRON)
7.2 CHEN 77F MULT
*E- HADRONS
6.5 ATWOOD 75C
7.2 ECKARDT 74 MULT
13. ATWOOD 75C
19. BALLAM 73B
DAKIN 72
DAKIN 74
ATWOOD 75C
20. SOGARD 72
*E- HADRON(S)
19. DAKIN 72B
*E- N(CHARGED)
7.2 CHEN 77F MULT
*E- PRONG
.060-10. HORN 75B
1.9-7.0 GARBINCIUS 73
7.2 CHEN 77F CS
*E- N(PRONG)
7.2 CHEN 77F MULT
19. CAKIN 74
7 BERKELMAN 73 MULT
NAGEL 74 MULT
*E+ ANYTHING
1.0-20. BODEK 74C AMP,P
2.0 BURKERT 75
3.0 DESY-141 ANGP,P
3.4 KOBBERLING 74B
5.0 DESY-141 ANGP,P
5.0-21. SLAC-E-107 ANGP
6.0 DESY-141 ANGP,P
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3.0-3.7 FELDMAN 75F
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3.0-3.7 FELDMAN 75F
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*PU- E+ ANYTHING
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.98 GRELAUD 77
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*KS K- PI+
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*K- PI+ ANYTHING
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3.9-4.6 GOLDHABER 77B
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+ LAM(1405)(1) K+ E+
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7 HARTWIG 77 ANP,CS
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230 FNAL-C9B ANGP
225 FNAL-39B ANGP,P
7 BLOOM 72B
+RHO0 MU- ANYTHING
225 FNAL-39B
+PHOPRIME(1600)0 MU-
ANYTHING
225 FNAL-39B
+P RHO0 MU-
16. BALLAM 74 ANGP,CS,
JPE
CARROLL 73
? BLOOM 72B
+P OMEGA MU-
16. BALLAM 74 ANGP,CS
7 BLOOM 72B
+P PHI MU-
16. BALLAM 74 CS
+P PHOPRIME(1600)0 MU-
16. BALLAM 74 CS
+P PI+ PI- MU-
16. BALLAM 74 MASS
+P PI+ PI0 PI- MU-
16. BALLAM 74 CS,MASS
+P ZPI+ ZPI- MU-
16. BALLAM 74 CS,MASS
MU- N -->

+(NOT ENCODED)
100-250 CERN-NA-004
+MU- HADRONS(S)
? DELPAPA 77 P
+MU- ANYTHING
100 FNAL-C9B ANGP
200 FNAL-C9B ANGP
MU- NUCLEON -->

+MU- ANYTHING
21. BUSHNIN 76 AMP,
ANGP,P
+2MU- ANYTHING
150 CHEN 76D ANG,CS,
FV,MASS,P
+MU- MU+ ANYTHING
150 CHEN 76D ANG,CS,
FV,MASS,P
+3MU- ANYTHING
150 CHEN 76D CS,FV,
MASS,P
+2MU- MU+ ANYTHING
150 CHEN 76D CS,FV,
MASS,P
+MU- 2MU+ ANYTHING
150 CHEN 76D CS,FV,
MASS,P
MU- DEUT -->

+(NOT ENCODED)
0. PLACCI 70
+MU- ANYTHING
7.3 KIM 74@
225 FNAL-39B ANGP,P
MU- DEUT --> (CONT.)

+RHO0 MU- ANYTHING
225 FNAL-39B
+PHOPRIME(1600)0 MU-
ANYTHING
225 FNAL-39B
+P RHO0 MU-
16. BALLAM 74 ANGP,CS,
JPE
+P OMEGA MU-
16. BALLAM 74 ANGP,CS
+P PHI MU-
16. BALLAM 74 CS
+P PHOPRIME(1600)0 MU-
16. BALLAM 74 CS
+P PI+ PI- MU-
16. BALLAM 74 MASS
+P PI+ PI0 PI- MU-
16. BALLAM 74 CS,MASS
+P ZPI+ ZPI- MU-
16. BALLAM 74 CS,MASS
MU- NUCLEON -->

+MU- ANYTHING
21. BUSHNIN 76 AMP,
ANGP,P
+2MU- ANYTHING
150 CHEN 76D ANG,CS,
FV,MASS,P
+MU- MU+ ANYTHING
150 CHEN 76D ANG,CS,
FV,MASS,P
+3MU- ANYTHING
150 CHEN 76D CS,FV,
MASS,P
+2MU- MU+ ANYTHING
150 CHEN 76D CS,FV,
MASS,P
+MU- 2MU+ ANYTHING
150 CHEN 76D CS,FV,
MASS,P
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+(NOT ENCODED)
0. SASHIN 68
.17 KRIEGER 69
+MU- ANYTHING
7.2 MAY 75 ANGP,P
12. BNL-632 FV
MU- MU- -->

+(NOT ENCODED)
0. SASHIN 68
.17 KRIEGER 69
+MU- ANYTHING
7.2 MAY 75 ANGP,P
12. BNL-632 FV
MU- NUCLEUS -->

+(NOT ENCODED)
16. HICKEY 71
JAIN 71
JAIN 72B
JAIN 72C
JAIN 73E
56. CHANG 76F
150 CHANG 76F
? JAIN 73E
+INELASTIC
3.0 JAIN 77 ANGP,CS,
MULT
8.0 JAIN 77 ANGP,CS,
MULT
10. JAIN 77
16. JAIN 74C
+MU- ANYTHING
150 FNAL-38Z
+E- E+ ANYTHING
16. JAIN 74C
+2MU- MU+ ANYTHING
12. BNL-632 FV
MUE E- -->

+(NOT ENCODED)
6.0 AMATO 68
10. JAIN 69
JAIN 70@
WIXON 70
P --->

+(NOT ENCODED)
6.0 CAMILLERI 69B
CAMILLERI 69C
KRAMER 69
10. DIETERLE 69
11. CAMILLERI 69B
CAMILLERI 69C
KRAMER 69
14. HEUSCH 74
? CAMILLERI 69C
CAMILLERI 69C
LECMIS 75
+N(PRONG)
1.0-1.4 TAYLOR 75 MULT
2.1-10. ALBINI 75B
14. BUNNELL 75B MULT
HEUSCH 75G
+INELASTIC
5.8 ENTENBERG 74
7.3 ENTENBERG 74
+MU- P
5.8 ENTENBERG 74
7.3 ENTENBERG 74
56. TAYLOR 75 ANGP,CS
150 TAYLOR 75 ANGP,CS
+MU- CHARGED
14. HEUSCH 75G
+MU- +GT.7PRONG
14. BUNNELL 75 CS
+MU- PRONG
14. BUNNELL 75 CS
DE'PAPA 76 -ANGF,
CS,P
HEUSCH 75G
7 HEUSCH 75C CS
+MU- N(PRONG)
14. DELPAPA 75 MULT
DELPAPA 76 MULT
MOZLEY 75 MULT
? HEUSCH 75C MULT
+MU+ ANYTHING
5.8 ENTENBERG 73 ANGP,
CS,P
ENTENBERG 74
RAPP 74 ANGP,MASS
7.3 ENTENBERG 73 ANGP,
CS,P
ENTENBERG 74
RAPP 74 ANGP,MASS
14. BUNNELL 75B P
MOZLEY 75 P
150 ANDERSON 76M CS
? ANDERSON 76D ANGP,
CS,P
+P ANYTHING
5.8 ENTENBERG 74
7.3 ENTENBERG 74
+MU+ CHARGED+ ANYTHING
? HEUSCH 75C PT
+MU+ CHARGED- ANYTHING
? HEUSCH 75C PT

REACTION/MOMENTUM INDEX (CONT'D)


```
MU+ P --> (CONT.)
+PI- MU+ ANYTHING
  14.      DELPAPA 76B      P,PI
+P RHO0 MU+
  14.      MOZLEY 75        ANG,
                            ANGP
  150      ANDERSON 76P     ANG,
                            ANGP,CS
   ?       HEUSCH 75C       ANGP,
                            CS
+P OMEGA MU+
   7       HEUSCH 75C       ANGP,
                            CS
+MU+ HADRON+ HADRON-
 ANYTHING
  150      ANDERSON 76N     ANG,
                            MASS,P
+MU+ 3PRONG
  14.      BUNNELL 75       CS
           DELPAPA 76       ANGP,
                            CS,P
           HEUSCH 75G
   ?       HEUSCH 75C       CS
+P PI+ PI- MU+
  14.      HEUSCH 75G
           MOZLEY 75        ANG,
                            ANGP,ASYM,
                            MASS
  150      ANDERSON 76P     MASS
   ?       HEUSCH 75C       MASS
+P K+ PI0 PI- MU+
  14.      HEUSCH 75G
           HEUSCH 75C       MASS
+MU+ 5PRONG
  14.      BUNNELL 75       CS
           DELPAPA 76       ANGP,
                            CS,P
           HELSCH 75G
   ?       HEUSCH 75C       CS
+MU+ 7PRONG
  14.      BUNNELL 75       CS
           DELPAPA 76       ANGP,
                            CS,P
   ?       HEUSCH 75C       CS
#########################
MU- N -->
---------
+MU+ HADRONS
  14.      BUNNELL 77B      CS,
                            MULT
+MU+ HADRON+ HADRON-
 ANYTHING
  150      ANDERSON 76N     ANG,
                            MASS,P
#########################
MU+ NUCLEON -->
---------
+INELASTIC
  7.2      MAY 75B
+MU+ ANYTHING
  21.      BUSHNIN 76       ANP,
                            ANGP,P
  56.      CHANG 75D
           WATANABE 75
  150      CHANG 75D
           CHEN 76D         CS,FV,
                            MASS,P
           WATANABE 75
+MU- MU+ ANYTHING
  150      CHEN 76D    ANG,CS,
                       FV,MASS,P
+2MU+ ANYTHING
  150      CHEN 76D    ANG,CS,
                       FV,MASS,P
+2MU- MU+ ANYTHING
  150      CHEN 76D         CS,FV,
                            MASS,P
+MU- 2MU+ ANYTHING
  150      CHEN 76D         CS,FV,
                            MASS,P
+3MU+ ANYTHING
  150      CHEN 76D         CS,FV,
                            MASS,P
#########################
MU+ DEUT -->
---------
+MU+ ANYTHING
  7.2      MELISSINOS 75B   CS
  147      ANDERSON 76D     ANGP,
                            MASS
           HEISTERBERG 76
                            ANGP,
                            CS,P
  150      ANDERSON 76N     CS
+ANYTHING HADRON
  147      HEISTERBERG 75
                            ANGP,
                            CS,P

#########################
MU+ BE -->
---------
+MU+ ANYTHING
  5.5-9.0  JOSTLEIN 74B
  12.      BNL-632          FV
+MU+ GAMMA ANYTHING
  12.      BNL-632          FV
#########################
MU+ C -->
---------
+MU+ ANYTHING
  7.2      MELISSINOS 75B   CS
+ MU+ C
+ MU+ ANYTHING
  7.2      MAY 75B          CS
#########################
MU+ AL -->
---------
+MU+ ANYTHING
  7.2      MELISSINOS 75B   CS
+- MU+ AL
+ MU+ ANYTHING
  7.2      MAY 75B          CS
#########################
MU+ FE -->
---------
+PRONG
  5.0-100  NANDI 74         CS
+MU+ ANYTHING
  5.5-7.2  CHANG 75D
  56.      FOX 74B
           FOX 74C          ANGP
           WATANABE 75B
  90.      FNAL-319
  150      FNAL-319
           FOX 74B
           FOX 74C          ANGP
           WATANABE 75B
  225      FNAL-392
  240      FNAL-319
+VV-LEPTON ANYTHING
  225      FNAL-391
    ?      FNAL-203A
+2PRONG
  5.0-100  NANDI 74         CS
+MU- 2MU+ ANYTHING
  225      FNAL-391
    ?      FNAL-203A
#########################
MU+ CU -->
---------
+MU+ ANYTHING
  7.3      MELISSINOS 75B   CS,
                            MASS
  12.      BNL-632          FV
+- MU+ CU
+ MU+ ANYTHING
  7.2      MAY 75B          CS
#########################
MU+ SN -->
---------
+- MU+ SN
+ MU+ ANYTHING
  7.2      MAY 75B          CS
#########################
MU+ PB -->
---------
+MU+ ANYTHING
  7.2      MELISSINOS 75B   CS
  12.      BNL-632          FV
+- MU+ PB
+ MU+ ANYTHING
  7.2      MAY 75B          CS
#########################
MU+ NUCLEUS -->
---------
+(NOT ENCODED)
  5.0      CRUTY 73
  10.      MICKEY 71
           JAIN 70B
           JAIN 70C
           JAIN 71
           JAIN 72B
           JAIN 72C
           JAIN 73E
           THOMPSON 68
  10.      JAIN 71
           JAIN 72B
           JAIN 72C
  56.      CHANG 76F
  150      CHANG 76F
    ?      JAIN 73E
+MU- 2MU+ ANYTHING
  12.      BNL-632          FV

#########################
MUON E- -->
---------
+(NOT ENCODED)
  .480-1.7  BHATTACHARYY 69
  1.E+05    ALLKOFER 71B
#########################
MUON P -->
---------
+(NOT ENCODED)
  0.       ALBERIGIQUAR 69
  12.      LAKIN 71
  16.      NEGRA 73
    ?      KOSTOULAS 72
           SEIDEN 74
           TONER 71
+N(PRONG)
  5.8      MELISSINOS 75B
                            MULT
  7.1      MELISSINOS 75B
                            MULT
+MUON P
  5.8      GITTLESON 74     ANGP
           MELISSINOS 75B
                            ANGP,
                            CS
  7.1      MELISSINOS 75B
                            ANGP,
                            CS
  7.2      GITTLESON 74
+MUON HADRON(S)
  5.8      MURTAGH 74       ANGP,
                            CS
  7.2      MURTAGH 74       ANGP,
                            CS
+MUON N(PRONG)
  5.8      MURTAGH 74       MULT
  7.2      MURTAGH 74       MULT
+MUON ANYTHING
  150      LOOMIS 75
+P ANYTHING
  5.8      GITTLESON 74     ANGP,
                            MASS
           MELISSINOS 75B   MASS
  7.1      MELISSINOS 75B
                            MASS
  7.2      GITTLESON 74
+MUON NEUTRALS ANYTHING
  5.8      MELISSINOS 75B
                            MASS,
                            P
  7.1      MELISSINOS 75B
                            MASS,
                            P
+P RHO0 MUON
  147      FRANCIS 76       ANGP,
                            CS
+P PI+ PI- MUON
  147      FRANCIS 76       ANG,
                            MASS
#########################
MUON NUCLEON -->
---------
+(NOT ENCODED)
  1.0-800  STAMM 75
+MUON ANYTHING
           CHEN 75F         CS
  150      CHEN 75F         CS
+2MUON ANYTHING
  12.      DELPAPA 77B      P
+2MUON ANYTHING
    ?      CHANG 77B
+3MUON ANYTHING
    ?      CHANG 77B
#########################
MUON DEUT -->
---------
+(NOT ENCODED)
  0.       DGOGTAR 76B
#########################
MUON C -->
---------
+(NOT ENCODED)
  8.6-13.  HOFFMAN 69
  12.      LAKIN 71
#########################
MUON C -->
---------
+3HE N MUON
    ?      BYSTRITSKII 74
#########################
MUON MG -->
---------
+N ANYTHING
  0.       BOBODZHANOV 71

#########################
MUON AL -->
---------
+(NOT ENCODED)
    7      GORSHKOV 71B
+N ANYTHING
  0.       BOBODZHANOV 71
#########################
MUON FE -->
---------
+(NOT ENCODED)
  >.17     BINNS 65
  5.0-40.  AYRE 71B
  5.0-500  AYRE 72
  10.-70.  AYRE 72
  >100     BOROG 72
    ?      CHAUDHURI 68
           CHAUDHURI 70
           GORSHKOV 71B
+MUON ANYTHING
  56.      NAND 74B
  150      NAND 74B         ANGP
#########################
MUON CU -->
---------
+(NOT ENCODED)
  1.6-1.7  BHATTACHARYY 70
  12.      LAKIN 71
#########################
MUON CD -->
---------
+(NOT ENCODED)
    ?      GORSHKOV 71B
#########################
MUON PB -->
---------
+(NOT ENCODED)
  0.-2000  ALLKOFER 68
  >.17     BINNS 69
  2.0-500  ALLKOFER 70E
  110      GORSHKOV 71
    ?      GORSHKOV 71B
           RUSSELL 71B
+N ANYTHING
  1.0-30.  MOOR 71
    ?      BERGAMASCO 73
#########################
MUON NUCLEUS -->
---------
+(NCT ENCODED)
  0.       REILLY 70
  0.-4.5   TURNER 71
  0.-1000  ALLKOFER 70
  0.-8000  CHEN 71B
  >.20     BINNS 72
  2.5-15.  WICKEY 70
  3.0-80.  HAYWOOD 70
  3.0-1000 APPLETON 71
  4.0      BOHM 71B
  4.9-18.  KONISHI 71
  5.0      MCNULTY 69
  >5.0     BETEV 72
  6.0      MACDONALD 72
           MICHEL 71
           MONTRET 70
           MONTRET 71B
           MONTRET 72
  10.      THOMPSON 69B
  12.      COUPAT 70
           MACDONALD 72
           MICHEL 71
           MONTRET 70
           MONTRET 71B
           MONTRET 72
  20.-200  BEZRUKOV 72
  100-10000
           ERLYKIN 69B
  >300     CHIN 70B
  >500     KHRISTIANSEN 72
  999      BORDG 71
           YUDA 71
  1000-10000
           BERGAMASCO 71
           MASON 69
  3000-10000
           BARADZEI 70
    ?      AMINEVA 72
           ANTAKI 71
           ATRASHKEVICH 72
           BARTON 70C
           BARTON 70D
           BASCHIERA 71
           BASCHIERA 71B
           BERGAMASCO 70B
           BERGAMASCC 70C
           BEZRUKOV 70
           BIBILASHVILI 71
           BLAKE 71
           BLAKE 71B
```

REACTION/MOMENTUM INDEX (CONT'D)

```
PION NUCLEUS --> (CONT.)
-----------------------
+(NOT ENCODED) (CONT.)
          BLAKE 71C
          BLAKE 71D
          CANNON 71
          CASSIDAY 72
          COATS 70
          COTTRELL 70
          COWAN 72
          CZECH 70
          EARNSHAW 71
          EARNSHAW 72
          ELBERT 72B
          ERLYKIN 72
          HIENER 71
          ILINA 72
          KELNER 70
          KRASILNIKOV 71
          KRISHNASWAMY 70
          MIZUTANI 70
          MIZUTANI 71B
          PORTER 68
          REINES 67
          SHIBATA 70B
          TCTSUNA 70
          WADA 70
+ANYTHING
  300-13000
          ERLYKIN 74
     ?    BASCHIERA 73          CS
+E- E+ ANYTHING
  .10-100  WRIGHT 75B
########################################
PION E- -->
-----------
+(NOT ENCODED)
  100       MAY 77
########################################
PION PION -->
-------------
+(NOT ENCODED)
  .30-1.1   SCHARENGUIVE 65B
  .55-.57   BUNYATOV 72
     ?      CLINE 70E
          GUTAY 69B
          MAKAROV 70C
          MCRFIN 7C
          SAXON 70B
          ZYLBERSTEJN 72
+2PION
     ?    VELKOVITSKII 74
                                   PWA
+KACA KAON
  3.1-5.8  SHIMADA 75E           PWA 1
########################################
PION P -->
----------
+(NOT ENCODED)
  .15-.60   CHEN 72C
  5.0       DREVERMANN 70B
  6.0       VAMBOSSUN 70
  10.       DELAY 74B
            HELLER 74
  15.       DELAY 74B
            HELLER 74
  40.       SABAU 74B
     ?      SZEPTYCKA 71
+PION P
  50.       TOMPKINS 74B
+P OO < PI+ PI- PICN >
  16.       GRASSLER 74            DME
+OO < PI+ PI- PICN > CO <
 NUCLEON PICN > P
  16.       GRASSLER 74   ANGP,
                          DME,MASS,P
+P SPION
     ?    WROBLEWSKI 72B
########################################
PION NUCLEON -->
----------------
+(NOT ENCODED)
  .9-1.1    LONGACRE 76
  0.-.27    NIELSEN 71
  0.-10.    PIETARINEN 76B
                                   PWA 1
  .38       NIELSEN 72
  .38-1.7   FIELD 71
  .45-.60   KRAVTSOV 71
  .55-.57   BUNYATOV 72
  2.0-3.5   BRANSDEN 71
  6.0       HALZEN 71
  60.       TAKIBAEV 73B
            ZHDANOV 71
     ?      BARRON 72
            BOZCKI 69C
            MOHLER 77B
            KAISER 76                AMP
            SAMARANAYAKE 72

PION NUCLEON --> (CONT.)
------------------------
+PI- PI+ ANYTHING
  225       ANDERSON 76M    MASS
+NUCLEON 2PION
          LONGACRE 77
+PSI1770010 PI- PI+ ANYTHING
  225       ANDERSON 76M    CS
########################################
PION DEUT -->
-------------
+(NOT ENCODED),
  .33       BRUNHART 62
+PION DEUT
  .10-1.2   KLEM 74B
     ?      KLEM 74
########################################
PION HE -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  7.8       EKELOEF 71
########################################
PION BE -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  15.       BENPORAD 71
########################################
PION C -->
----------
+(NOT ENCODED)
  10.       YEAGER 76
########################################
PION AL -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  30.-300   AVAKOZ 72
########################################
PION TI -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION FE -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  10.-19.   CRANNELL 73
########################################
PION CU -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  40.       NIKANOROV 74
########################################
PION XE -->
-----------
+(NOT ENCODED)
  2.3       SLOWINSKI 72B
  3.0       VOROBEV 73B
  5.0       SLOWINSKI 72B
  9.0       SLOWINSKI 72B
########################################
PION GD -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION PB -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  15.       BENPORAD 71
########################################
PION U -->
----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION NE -->
-----------
+(NOT ENCODED)
  10.       YEAGER 76
########################################
PION AR -->
-----------
+(NOT ENCODED)
  30.-300   AVAKOZ 72
########################################
PION TI -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION FE -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  10.-19.   CRANNELL 73
########################################
PION CU -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  40.       NIKANOROV 74
########################################
PION XE -->
-----------
+(NOT ENCODED)
  2.3       SLOWINSKI 72B
  3.0       VOROBEV 73B
  5.0       SLOWINSKI 72B
  9.0       SLOWINSKI 72B
########################################
PION GD -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION PB -->
-----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
  15.       BENPORAD 71
########################################
PION U -->
----------
+(NOT ENCODED)
  >.050     BARASHENKOV 69
########################################
PION NE -->
-----------
+(NOT ENCODED)
  10.       YEAGER 76
########################################
PION AR -->
-----------
+(NOT ENCODED)
  .9-.49    BASILE 72C
  .9-1.2    SCHARENGUIVE 70
  0.-8.2    BARTON 72
  .55-1.1   PROTOPOPESCU 73
  .60-1.4   GAIDOS 72
  .77-3.6   MALARUD 69
  1.7-6.1   FUJII 73
  3.8-12.   FROGGATT 77
  7.0       KITAGAKI 74B
  8.2-45.   CASO 71
  15.       BAILLON 73
     ?      AREFEV 68
            EATON 70C
            BEIER 73
            BEIER 73B
            GAIDOS 72B
            GRAYER 73B
            GUTAY 70
            KIM 71
            MAKAROV 70
            MAKAROV 70B
            OH 65C
            TOAFF 73
            VILLET 73
+2P10
  0.-3.6    BRAUN 73F
  .060-8.2  AHL-E-400
  .13-4.3   GRIVAZ 76
            GRIVAZ 76B
  .43-3.6   CARROLL 74B
+PIG OMEGA
  3.0-6.5   KARSHON 74B
+PI- PI+
  3.-.13    OLSSON 76B
  3.-.43    WYON 74C
  3.-12.    MANNER 74
  .080-.49  EXTERMANN 75
  .080-11.  MARTIN 75B
  .77-12.   ESTABROOKS 74C
  1.2-3.6   BRANDENBURG 76B
            HALTHASSER 71
  1.2-8.0   CARROLL 74B
  1.2-12.   ROSENFELD 74C
  1.2-13.   HYAMS 73B
  1.7-13.   AGUILARBENIT 77B
  2.6-17.   CORDEN 70
  3.4-5.2   FLATTE 76B

PION NUCLEUS --> (CONT.)
------------------------
+(NOT ENCODED) (CONT.)
  60.       BORISENKO 71
  230       CZYZEWSKI 68
+(NCHARGED)
  7.5       TAKIBAEV 74G
  17.       TAKIBAEV 74G
  60.       TAKIBAEV 74G
+PRONG
  7.5       TAKIBAEV 74G
  17.       TAKIBAEV 74G
  60.       TAKIBAEV 74G
########################################
PI+ E- -->
----------
+E- PI+
  200       FNAL-446        ANGP
########################################
PI+ PI+ -->
-----------
+(NOT ENCODED)
     ?      AREFEV 69
            BISWAS 69
            GRAYER 73
            KENNEDY 73
            MAKAROV 70B
+2P1+
  3.        BATUSOV 74          PWA 1
  0.-11.    MANNER 74
  .13-1.7   PRUKOP 74B
  1.6       PRUKOP 74
  7.        WAGNER 74           PWA 1
+3P1+ PI-
  7.9-13.   KENNEDY 77B
########################################
PI+ PIO -->
-----------
+(NOT ENCODED)
     ?      GAIDOS 72B
            MAKAROV 70B
########################################
PI+ PI- -->
-----------
+(NOT ENCODED)
  0.-.49    BASILE 72C
  0.-1.2    SCHARENGUIVE 70
  0.-8.2    BARTON 72
  .55-1.1   PROTOPOPESCU 73
  .60-1.4   GAIDOS 72
  .77-3.6   MALARUD 69
  1.7-6.1   FUJII 73
  3.8-12.   FROGGATT 77
  7.0       KITAGAKI 74B
  8.2-45.   CASO 71
  15.       BAILLON 73
     ?      AREFEV 68
            EATON 70C
            BEIER 73
            BEIER 73B
            GAIDOS 72B
            GRAYER 73B
            GUTAY 70
            KIM 71
            MAKAROV 70
            MAKAROV 70B
            OH 65C
            TOAFF 73
            VILLET 73
+2P10
  0.-3.6    BRAUN 73F
  .060-8.2  AHL-E-400
  .13-4.3   GRIVAZ 76
            GRIVAZ 76B
  .43-3.6   CARROLL 74B
+PIG OMEGA
  3.0-6.5   KARSHON 74B
+PI- PI+
  3.-.13    OLSSON 76B
  3.-.43    WYON 74C
  3.-12.    MANNER 74
  .080-.49  EXTERMANN 75
  .080-11.  MARTIN 75B
  .77-12.   ESTABROOKS 74C
  1.2-3.6   BRANDENBURG 76B
            HALTHASSER 71
  1.2-8.0   CARROLL 74B
  1.2-12.   ROSENFELD 74C
  1.2-13.   HYAMS 73B
  1.7-13.   AGUILARBENIT 77B
  2.6-17.   CORDEN 70
  3.4-5.2   FLATTE 76B

PI+ PI- -->  (CONT.)
--------------------
+PI- PI+ (CONT.)
  3.6-12.   COMMEN 75
  14.-370   HAMLEN 76
+2KO
     ?      VUILLEMIN 75B       AMP
+AKO KO
  1.7-13.   AGUILARBENIT 77B
  3.6-4.3   METZEL 76
########################################
PI+ P -->
---------
+(NOT ENCODED)
  0.-30.    LANIUS 74
  0.-300    EISNER 74C
  0.-500    DIODENS 74          ANGP,
                                CS,MANY,POL
  0.-.40    ZIOLLI 77
  0.-2.8    AYED 70
  .090-.40  AMSLER 76
  .10-2.1   ALMEHED 72
  .10-1000  MCEWEN 73
  .18-.41   BUSSEY 73
  .18-.43   CARTER 73B
  .21-1.9   BONETTI 69
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45. PIERRARD 76C AMP
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FNAL-357 MULT
300 FNAL-377 MULT
FNAL-397 MULT
300-600 KELLY 75 PWA
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4.1 SIMARD 75
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8.0 BALEA 70C
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P
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4.1 FCNG 73 CS,P
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5.0-250 HOHLER 75C CS
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9.0 BARTKE 76B CS
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15. BALTAY 77C CS
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16. BARTKE 76B CS
18. POWERS 73
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23. CARROLL 76E CS
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35. CARROLL 76E CS
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50. AKOPDZHANOV 74 CS,
MULT
AYRES 76C CS
CARROLL 76E CS
50.-230 CARROLL 76E CS
52. APOKIN 76 CS
73. AYRES 76C CS
CARROLL 76E CS
100 AYRES 76C CS
CARROLL 76E CS
CARROLL 76E CS
120 CARROLL 76E CS
140 AYRES 76C CS
150 CARROLL 76E CS
FNAL-299 CS
CARROLL 76E CS
170 CARROLL 76E CS
175 AYRES 76C CS
200 CARROLL 76E CS
240 CARROLL 76E CS
? GALBRAITH 65 CS
LONGO 55
•INELASTIC
.09-.81 BOWLER 70
.81-1.0 BARLOUTAUD 63
1.5 KOPP 61
15. BALTAY 77C CS
50. FRANCESOVIET 74C
•DD < ANYTHING >
? MUKHIN 74 MASS
•--> N(PRONG)
200 BROMBERG 77C MULT
•GAMMA ANYTHING
10. ELLIOTT 76
15. BALTAY 77C CS,P,
PT
PISELLO 76 CS,P,
PT
FNAL-268 PT
ROCKMANN 76 P,PT
HOFMANN 74 CS,P,
PT
18. BISWAS 74 P,PT
100 ALSTONGARNJO 75
CS,
P,PT
FNAL-268 ANGP
150 FNAL-268 ANGP
200 FNAL-268 ANGP
•N(GAMMA) ANYTHING
16. HOFMANN 74 CS,
MASS,MULT,P
•GAMMA(S) ANYTHING
18. BISWAS 74
BISWAS 76B
•E- ANYTHING
4.0 GUY 76 CS
18. BALLAM 77 CS,P,PT
24. BEIER 76C PT
100-350 FNAL-258 ANGP
•E+ ANYTHING
18. BALLAM 77 CS,P,PT
100-350 FNAL-258 ANGP
•MU- ANYTHING
8.0-22. DEUTSCHMANN 75B
P
17. SLAC-E-123B FV
103-359 FNAL-258 ANGP
•MU+ ANYTHING
8.0-22. DEUTSCHMANN 75B
P
17. SLAC-E-123B FV
100-350 FNAL-258 ANGP
•PION(S) ANYTHING
18. BISWAS 76B
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.81-1.0 BARLOUTAUD 63
.90-1.3 STONEHILL 61
•PION PION(+/2)
8.0 BEAUPRE 73B ANP,
ANGP,CS
•PION PION(+3/2)
8.0 BEAUPRE 73B ANP,
ANGP,CS
•PION$ ANYTHING
10. ELLIOTT 77
15. ELLIOTT 77 CS
18. BISWAS 74
•N(PION PRONG
15. SOSNOWSKI 73 MULT
•N(PION PRONG)
100 ALSTONGARNJO 75
MULT
•N(PION ANYTHING
10. ELLIOTT 77
18. BOCKMANN 76 MULT

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•N(PI-) ANYTHING
8.0 DEUTSCHMANN 75B
MULT
16. DEUTSCHMANN 75B
MULT
23. DEUTSCHMANN 75B
MULT
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0.-.58 RHEL-083
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0.-10. HENDRY 76 PWA
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.21 CREAP 54
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.45 GORDEEV 76
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.53 BANNER 67
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.70 EANDI 64C
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.81-1.0 BARLOUTAUD 63
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1.6-6.0 GROOERS 63C
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1.8 JAMES 65
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4.7 LINNACHEV 62
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SCHEID 73
5.2-6.9 BAKER 68
5.8 DWEN 69 ANGP
5.9-17. OREAR 68B
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AOI 71B
AOI 73C
BIRSA 76B PNA
BORGHINI 70 PCL
DELESCUEN 72
DELESCUEN 74B PCL
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6.0-17. BORGHINI 71E
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EWEN 69 ANGP
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7.0 BAKER 71
7.0-17. FOLEY 63D
7.0-20. FOLEY 65 ANGP,CS
7.1 MICHAEL 75C ANGP
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BAGLIN 75 ANGP
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+PI+ P (CONT.)

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ANGP
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10.-20. VCNDARDEL 62
10.-100 FNAL-290 ANGP
10.-532 SIDHU 74
13. KRAMER 71
14. BELL 68
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OZIERBA 73
RUBINSTEIN 73
16. BARTKE 76B CS
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16. PCWERS 73
25.-200 FNAL-356 ANGP
29. ANTIPOV 76B ANGP,
CS
ANTIPOV 78D ANGP
40. PIERRARD 76 AMP
42. APOKIN 76
43. ANTIPOV 74 ANGP
ANTIPOV 76B ANGP,
CS
ANTIPOV 76D ANGP
NURUSHEV 74B ANGP,
CS
45. BRUNETCN 76 AMP
BRUNETON 76B
GAIDOT 75B
GAIDOT 76 ANGP,
PCL
KAZARINOV 76 ANGP,
CS
PIERRARD 76B PCL
AKERLCF 75 ANGP,
CS
53. AKERLOF 76 ANGP,
CS
AYRES 75 ANGP
AYRES 76 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-WA-009 AMP,
ANGP
FNAL-007 ANGP
FNAL-061 PCL
CERN-WA-006 PCL
50.-150 AYRES 76D ANGP,CS
50.-175 FNAL-065A ANGP
53.-209 APOKIN 76 CS
52. BRUMBERG 76B ANGP,
60. ANKENBRANDT 75 CS
ANKENBRANDT 75 AMP,
ANGP
AYRES 75 ANGP
AYRES 76 ANGP
AYRES 76C AMP,
ANGP,CS
AKERLOF 76 ANGP,
CS
ANKENBRANDT 75 AMP,
ANGP
75. CERN-WA-009 AMP,
ANGP
FNAL-007 ANGP
80. AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANKENBRANDT 75 AMP,
ANGP
AUER 77B PCL
AYRES 75 ANGP
AYRES 76 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-WA-009 AMP,
ANGP
CHAMBERLAIN 77 AMP,
CS
FNAL-061 PCL
FNAL-007 ANGP
110 ANKENBRANDT 75 AMP,
125 ANKENBRANDT 75 AMP,
ANGP
CERN-WA-009 AMP,
ANGP
AYRES 75 ANGP
AYRES 76 ANGP
140 AYRES 76C AMP,
ANGP,CS
FNAL-007 ANGP
150 ANKENBRANDT 75 AMP,
ANGP
CERN-WA-009 AMP,
ANGP

PI+ P --> (CONT.)

+PI+ P (CONT.)

FNAL-061 PCL
FNAL-299 ANGP
FNAL-007 ANGP
175 AYRES 75 ANGP
AYRES 76 ANGP
AYRES 76C AMP,
ANGP,CS
200 AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
7 ASHKIN 56
BAILLON 75B AMP,
ANGP
BAKER 67
BAREYRE 65
BARLOUTAUD 62
CARLSON 73
CERRICK 75
NCWOFILOV 72
CREAR 65
OWEN 69 ANGP
RHEL 74B
+PI+ N(1470)+
3.5 RONAT 72
6.0 BELL 68B ANGP,CS
8.0 BOESEBECK 71D
16. BOESEBECK 71D CS
18. EICHTMAN 74
+PI+ N(1520)I3/2
1.2 BERTHON 74C ANG,
CS
16. GRASSLER 75B ANG,
CS
+PI+ N(1520)I3+
1.0 METZGER 67
1.6 DARONIAN 66
2.1 JAMES 66
3.5 RONAT 72
3.9 BASTIEN 71 ANGP,
CS
5.0 CIRBA 70 ANGP,CS
8.0 BOESEBECK 71D
16. BOESEBECK 71D CS
18. EICHTMAN 74
+PI+ N(1680)I1+
8.0 ADERHOLZ 69 ANGP,
CS
+PI+ N(1690)I+
1.6 DARONIAN 66
1.9 DAGAN 67B
2.1 JAMES 66
3.5 RONAT 72
3.9 BASTIEN 71 ANGP,
CS
+PI+ DEL+
.93-1.0 GENSOLLEN 63
1.0 METZGER 67
1.2 BERTHON 74C ANG,
CS
1.5-1.8 WILLIAMSEN 72
1.6 DARONIAN 66
3.9 BASTIEN 71 ANGP,
CS
BRAU 71 CS
4.0 ADERHOLZ 65 ANGP,
CS
ADERHOLZ 65C
5.0 SCHOTANUS 72 ANGP,
CS
14. EHADWICK 75 ANG,
CS
16. DEUTSCHMANN 75C
ANG,
ANGP,CS
T METZGER 67 CS
WESTFEST 65
+PI+ P(1)I=3/2)
3.9 BERLAD 74 ANGP,CS,
MASS
+PI+ P(UNSPEC)+
150 FNAL-299 ANGP
+PI+ PRONG
8.0 BOSETTI 73B P
12. BALTAY 77C CS
16. BOSETTI 73B
18. GD 75 CS
23. BOSETTI 73B P

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+PI+ ANYTHING
1.0 JAIN 76B
1.2 JAIN 76B
1.4 JAIN 76B
1.8 JAIN 76B
2.7 ABRAMOV 73C
3.7-400 WHITMORE 75C
4.0 BEIER 76D CS I
4.0-20. BEIER 74 CS I
6.0 BEIER 76D CS I
BEIER 76D CS I
CRENNELL 72 I
7.0 CHEN 71 I
8.0 BEIER 76D CS I
BEIER 76D CS I
DICK 75 ASYM,P I
RHEL-112 ANGP,I
ASYM,P I
10. BEIER 76D CS I
DELAY 74 CS,P I
12. BEIER 76D CS I
15. BALTAY 77C CS,P; I
PT I
BEIER 76D CS I
DELAY 74 I
PISELLO 76 CS,P; I
PT I
16. BARTKE 76D ANG,P; I
PT I
BOCKMANN 76 CS I
DIDENKO 73 P I
GG 75 I
POWERS 73 I
20. BEIER 76D CS I
22. CRENNELL 72 I
24. BEIER 76D CS I
40. FNAL-324 ANGP I
42. APCRTN 77 I
50. FNAL-118A ANGP I
50.-175 ANDERSON 76F P I
ANDERSON 76H CS,P I
80. FNAL-324 ANGP I
100 ERWIN 74 P I
FNAL-118A ANGP I
MCRSE 76 P I
100-350 FNAL-258 ANGP I
140 AYRES 76B ANG,CS; I
MASS I
150 BEIER 76D CS I
BEIER 76D CS I
FNAL-118A ANGP I
FNAL-259 ANGP I
160 FNAL-324 ANGP I
175 AYRES 76B ANG,CS; I
MASS I
250 BEIER 76D CS I
? CHEN 71 I
DERRICK 75 I
FNAL-236A ANGP I
WHITMORE 75B I
+PI+ DD
3.9 BASTIEN 71 ANGP, I
CS I
BRAU 71 CS I
+PI+ DD < P PIO >
3.6 MACNAUGHTON 77 I
ANGP; I
MASS I
14. CHADWICK 75 ANG; I
CS,MASS I
16. DEUTSCHMANN 75C I
ANG; I
ANGP,CS I
GRASSLER 75B ANG; I
ANG,ANGP,CS; I
MASS I
+PI+ DD < N PI+ >
3.6 MACNAUGHTON 77 I
ANGP, I
MASS I
14. BALLAM 76 ANG,CS; I
MASS I
GGMS 75 I
16. GRASSLER 74 CS I
GRASSLER 75B AMP, I
ANG,ANGP,CS; I
MASS I
+PI+ DD < P PI+ PI- >
16. DELTSCHMANN 75D I
ANG; I
CS,MASS I
? BALLAM 76 CS,MASS I
+PI+ DD < DEL++ PI- >
16. BOSETTI 75D ANG, I
ANGP,CS,MASS I
DEUTSCHMANN 75D I
ANG; I
CS,MASS I

PI+ P --> (CONT.)

+PI+ DD < DEL++ PI- > (CONT.)
? KAMALOV 76B ANG, I
ANGP,MASS I
+PIO PINI=1/2I I
3.9 BERLAD 74 ANGP,CS; I
MASS I
+PIO DEL++
.42-1.1 DETCEUF 66 I
.90-1.6 KRAYBILL 66 I
.93-1.0 GENSOLLEN 63 I
.95 DELER 67 I
1.0 METZGER 67 I
1.2 BERTHON 74C ANG, I
CS,DME,POL I
1.2-1.4 FOELSCHE 62 I
1.3 KERMAN 72 I
1.3-1.8 MENTANI 71C I
MENTANI 72 I
1.4 DELER 67 I
1.5-1.8 WILLIAMSON 72 I
1.6 DARDINIAN 66 I
DAUDIA 63 I
1.8 KERMAN 72 I
1.8-2.1 MENTANI 70 I
MENTANI 71B I
>2.0 GIDAL 71 I
2.1 JAMES 66 I
2.3 ANGELOV 69E I
GRAMENITSKII 66 I
2.7 ARMENISE 63 I
ARMENISE 64 I
ARMENISE 65 I
2.7-4.1 GIDAL 69 I
2.9-4.1 GIDAL 68 I
3.5 ABOLINS 64 I
3.6 MACNAUGHTON 77 I
ANGP, I
CS,DME I
3.9 BASTIEN 71 ANGP, I
CS I
BRAU 71 ANGP, I
HABER 75 ANG,ANGP, I
CS,DME,MASS I
4.0 ADERHOLZ 65 ANGP, I
CS I
ADERHOLZ 65C I
5.0 SCHOTANUS 70 ANGP, I
CS I
5.4 BLOODWORTH 74B I
6.0 ADERHOLZ 68D I
ADERHOLZ 70 I
CRIJNS 66 I
DEUTSCHMANN 65 I
ANGP, I
CS I
DEUTSCHMANN 65B I
DEUTSCHMANN 74C I
ANGP, I
MASS I
10. ZEMANY 77 I
13. KRAMER 71 I
SCHARENGUIVE 72 I
16. DEUTSCHMANN 74C I
ANGP, I
MASS I
DEUTSCHMANN 75C I
ANG, I
ANGP,CS I
23. DEUTSCHMANN 74C I
ANGP, I
MASS I
? BASTIEN 71 ANGP, I
CS I
GERADO 71 ANGP,CS I
KRAMER 71 ANGP,CS I
TAUTFEST 65 I
+PIO DELI1860)++
10. ZEMANY 77 I
+PIO PINI=3/2I
3.9 BERLAC 74 ANGP,CS, I
MASS I
+PIO NIPRCNGI
16. HOFMANN 74 CS, I
MULT I
+PIO ANYTHING
1.0 JAIN 74B I
1.2 JAIN 74B I
1.4 JAIN 74B I
1.8 JAIN 74B I
8.0 AHL-E-436 FV I
10. BINKLEY 73 I
ELLIOTT 76 I
14. CNEILL 73 I
CNEILL 76B P,PT I
CNEILL 76C I
15. BALTAY 77C CS,P; I
PT I

PI+ P --> (CONT.)

+PIO ANYTHING (CONT.)
BALTAY 77C CS,P; I
PT I
PISELLO 76 CS,P; I
PT I
16. BOCKMANN 76 CS,P; I
PT I
HERMANN 74 CS,P I
103 DONALDSON 76 CS, I
PT I
ELLIS 77 P,PT I
FNAL-268 ANGP I
150 FNAL-268 ANGP I
203 DONALDSON 76 CS I
PT I
ELLIS 77 P,PT I
FNAL-268 ANGP I
? DONALDSON 77 I
+PI- EXOTIC-NUCLEON I
1.9 BANNER 70 I
3.5 BIRULEV 73 I
+PI- PRONG I
15. BALTAY 77C CS I
+PI- ANYTHING I
3.7-400 WHITMORE 75C I
4.0 BEIER 76D CS I
4.0-20. BEIER 74 CS I
4.1 PENG 73 CS,P I
6.0 BEIER 76D CS I
BEIER 76D CS I
CRENNELL 72 I
7.0 CHEN 71 I
STONE 71 I
8.0 BEIER 76D CS I
BEIER 76D CS I
DELTSCHMANN 74D I
ANGP, I
P,PT I
MATZIOLIS 74 I
10. BEIER 76D CS I
BEIER 76D CS I
DELAY 74 CS,P I
12. BEIER 76D CS I
15. BALTAY 77C CS,P; I
PT I
BEIER 76D CS I
DELAY 74 I
PISELLO 76 CS,P; I
PT I
16. BARTKE 76D ANG,P; I
PT I
BOCKMANN 76 CS I
DEUTSCHMANN 74D I
ANGP, I
P,PT I
DEUTSCHMANN 75B I
DIDENKO 73 P I
MALHOTRA 76 PT I
MATZIOLIS 74 I
BISWAS 72 I
SHEPHARD 71 I
BEIER 76D CS I
CRENNELL 72 I
24. BEIER 76D CS I
40. FNAL-324 ANGP I
50. FNAL-118A ANGP I
80. FNAL-324 ANGP I
100 CUTTS 77 CS,P I
ERWIN 74 P I
ERWIN 75B P,PT I
FNAL-118A ANGP I
MORSE 76 P I
100-350 FNAL-258 ANGP I
152 BEIER 76D CS I
BEIER 76D CS I
FNAL-118A ANGP I
FNAL-299 ANGP I
160 FNAL-324 ANGP I
250 BEIER 76D CS I
WHITMORE 75B I
+ETA DEL++
1.43-2.7 GRETHER 71 I
GRETHER 73 I
1.6 DARDINIAN 66 I
1.9 CHAPMAN 71 I
>2.0 GIDAL 71 I
2.1 JAMES 66 I
2.3 ANGELOV 69C I
2.9-4.1 BROWN 68 I
BROWN 73 I
3.5 BONAT 72 I
3.6 SHEN 65 I
TRILLING 65 I
3.9 WINKELMANN 68 I

PI+ P --> (CONT.)

+ETA DEL++ (CONT.)
4.0 ADERHOLZ 65 ANGP, I
CS I
ADERHOLZ 65C I
5.0 PDLS 71 ANGP,CS I
SCHOTANUS 70 ANGP, I
CS I
5.4 BLECCWORTH 72B I
BLOODWORTH 74B I
PRENTICE 71 I
6.7 SLAC-BC-080 ANGP, I
DME I
7.0 ANL-E-400 FV I
SLATTERY 67B CS I
8.0 ADERHOLZ 68C I
ADERHOLZ 72 I
DEUTSCHMANN 65B I
KRAMER 71 I
13. BISWAS 73 I
18. CHAPMAN 71 ANGP, I
CS I
PDLS 71 ANGP,CS I
+ETA CHARGEE
16. BARTKE 76E P,P" I
MALHOTRA 76 PT I
+ETA ANYTHING
4.0 GUY 76 CS I
16. MALHOTRA 76B CS,P I
100 FNAL-268 ANGP I
150 FNAL-268 ANGP I
200 FNAL-268 ANGP I
+ETA < MU- MU+ > ANYTHING
16. BUNNELL 77 CS I
+HERMOD) ANYTHING I
8.0 DEUTSCHMANN 75B I
MULT I
16. DEUTSCHMANN 75B I
MULT I
23. DEUTSCHMANN 75B I
MULT I
+RHO+ P I
.98 DELER 67 I
1.0 METZGER 67 I
1.2 BERTHON 74C ANG, I
CE I
1.2-1.4 FOELSCHE 62 I
1.3 KERMAN 72 I
1.3-1.8 WILLIAMSON 72B I
1.4 DELER 67 I
1.8-2.1 WILLIAMSON 72 I
WILLIAMSON 71 I
>2.0 GIDAL 71 I
2.1 JAMES 66 I
2.3 ANGELOV 69E I
GRAMENITSKII 66 I
2.7 ARMENISE 63 I
ARMENISE 64 I
ARMENISE 65 I
MICHAEL 71 I
MICHAEL 72 I
3.6 MACNAUGHTON 72 I
MACNAUGHTON 77 I
ANGP, I
CS,DME I
MACNAUGHTON 77 I
ANGP, I
CS,DME I
3.7 MACNAUGHTON 71B I
MACNAUGHTON 76 I
3.9 BASTIEN 71 ANGP, I
CE I
BRAU 71 CS I
HABER 74 ANGP,CS; I
DME I
HABER 75 ANG,ANGP, I
CS,DME,MASS I
4.0 ADERHOLZ 65 ANGP, I
CS I
ADERHOLZ 65C I
>4.0 BNL-598 ANGP I
5.0 SCHOTANUS 70 ANGP, I
CS I
5.2 CARLSON 70 ANGP I
6.0 CRENNELL 71E ANGP, I
CS I
GORDON 73 ANP, I
ANGP,CS,DME I
8.0 ADERHOLZ 68C I
ADERHOLZ 70 I
CRIJNS 66 I
DEUTSCHMANN 65 I
ANGP, I
CS I

REACTION/MOMENTUM INDEX (CONT'D)

| PI+ P --> (CONT.) | | |

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

*F DEL++ (CONT.)
12. BASSLER 73 I
SCHLATTER 73 I
13. GAIDOS 70C I
GAIDOS 75 CS I
KRAMER 71 I
16. BALLAM 71B CS I
DEUTSCHMANN 75C I
ANG, I
CS,MASS I
18. BISWAS 70 I
7 ARMENISE 70 I
POLS 71 ANGP,CS I
*F DEL(1880)I++ I
10. ZEMANY 77 I
*F DEL(1950)I?I++ I
13. GAIDOS 75 CS I
*F ANYTHING I
8.0 DEUTSCHMANN 75B I
CS, I
MASS,P,PT I
15. BALTAY 77C CS,P, I
PT I
PISELLO 76 CS,P, I
PT I
16. BARTKE 76C MASS,P, I
PT I
DEUTSCHMANN 75B I
CS, I
MASS,P,PT I
DEUTSCHMANN 75B I
CS, I
MASS,P,PT I
MALHOTRA 76 PT I
23. DEUTSCHMANN 75B I
CS, I
MASS,P,PT I
100 FNAL-26B ANGP I
150 FNAL-26B ANGP I
200 FNAL-26B ANGP I
7 STROYNOWSKI 75 I
*DI2(85) DEL++ I
8.0 BARQADIENDTHI 71 I
CS I
OTWINOWSKI 65 CS I
*A2(I,3I0)+ P I
1.4 HARRISON 75 I
>2.0 GICAL 71 I
3.5 RONAT 72 I
3.6-3.8 BALTAY 70 I
3.7 BARNHAM 71C I
3.7-25. ROSNER 71 I
4.0 ABSHIRE 73B ANGP,I
POL I
ADERHOLZ 65 ANGP, I
CS I
ADERHOLZ 65C I
ANKENBRANDT 72 I
RMEL-091 I
5.0 BECKMANN 70 CS I
BOWEN 71 I
KARSHON 7A ANGP I
POLS 71 ANGP,CS I
5.0-8.5 BROCKWAY 70B I
5.1 RETTEL 70 I
5.4 BLCCDWORTH 72 I
PRENTICE 71 I
5.5 COOPER 70 I
5.7 SHENG 70 I
7.0 ALSTONGARNJO 71 I
SLATTERY 67B CS I
7.1 ALSTONGARNJO 70 I
8.0 ADERHOLZ 68C I
ADERHOLZ 69 ANGP, I
CS I
BOESEBECK 68 I
DEUTSCHMANN 65B I
8.5 KREBS 71 I
12. BASSLER 73 I
SCHLATTER 73 I
13. KRAMER 71 I
THOMPSON 73 ANGP, I
CS I
THOMPSON 74B CS, I
DHE I
15. BALTAY 77 CS I
BALTAY 77D CS I
CAUTIS 77 ANG, I
ANGP,CS,MASS I
16. DEUTSCHMANN 75C I
CS I
50. FNAL-110A I
100 FNAL-110A I
200 FNAL-110A I
? ARMENISE 70 I
BALTAY 77 CS I
LAI 71 I

PI+ P --> (CONT.)

*A2(I,3I0)+ P (CONT.)
POLS 71 ANGP,CS I
TOET 73 I
*A2(I,3I0)3 DEL++ I
3.5 RONAT 72 I
3.7 BARNHAM 70D I
5.0 BOCHMANN 70 CS I
KARSHEN 74 ANGP I
POLS 71 ANGP,CS I
5.4 PRENTICE 71 I
5.5 COOPER 70 I
7.0 TABAK 75 ANGP,CS I
8.0 ADERHOLZ 68D I
ADERHOLZ 69 ANGP, I
CS I
BOESEBECK 68 I
DEUTSCHMANN 65B I
KREBS 71 I
*A4(1900)+ P I
16. DEUTSCHMANN 75B I
CS, I
MASS,PT I
*S(1930)+ P I
8.0 ADERHOLZ 68D I
13. KRAMER 70 I
KRAMER 71 I
? KRAMER 70 ANGP,CS I
*I(2220)I+ P I
13. KRAMER 70 I
KRAMER 71 I
*A4(2200)+ P I
15. BALTAY 77 CS I
CAUTIS 77 ANGP I
*S(2340)I+ P I
15. BALTAY 77D ANGP, I
CS I

PI+ P --> (CONT.)

*D(2360)I+ P I
15. BALTAY 75C ANGP, I
CS I
*I2(2500-3600) P I
8.0 SABAU 71 CS I
13. KRAMER 71 I
*N(1535) NIPRONG1 I
100 ALSTONGARNJO 75 I
MULT I
*K+ SIGMA+ I
0.-2.0 LANGBEIN 73B I
.81-1.0 BARLOUTAUD 63 I
.90-1.3 STONEHILL 61 I
.91-1.3 BALTAY 61 I
.90 KOPP 61 I
1.0-1.1 GRARD 62 I
1.00-2.0 FEUERBACHER 70 I
1.1 BELLAMY 72 I
HOFFMAN 69 I
HOFFMAN 69 I
1.1-1.3 CARAYANNOPOU 65 I
1.2 BERTHELOT 61 I
BERTMCN 74C CS, I
MASS I
CRAWFORD 62 I
HOFFMAN 69 I
1.2-1.4 FOELSCHE 62 I
1.3 KALMUS 70B I
KALMUS 71 I
1.3-1.8 KALMUS 70 I
KERNAN 73B I
1.4 KALMUS 70B I
KALMUS 71 I
1.5-2.6 APEL-193 I
1.6 DARONIAN 66 I
1.7 PAN 70 ANGP,CS, I
POL I
PAN 70C I
PAN 70D I
1.9 DAGAN 67B I
2.0 PENZO 72 I
2.3-2.9 BERLEY 65B I
2.7-14. BASHIAN 70 I
FISCHER 70D I
YAMAMOTO 64 I
3.0 HAN 70 ANGP,POL I
HAN 70B I
KALBACI 71B ANGP I
3.0-7.0 KALBACI 71 ANGP I
PRUSS 69B ANGP, I
POL I
PRUSS 69C ANGP, I
POL I
3.2 KEFLER 67 I
3.5 BRADAMANTE 72 I
BRADAMANTE 73 I
SCHIAVON 72 I
3.5-14. BASHIAN 71C I
3.6-3.8 BUTLER 70 I
4.0 BALTAY 66 CS I
HAN 70 ANGP,POL I
HAN 70B I
KALBACI 71B ANGP I
PENZO 72 I
>4.0 BNL-596 ANGP,POL I
5.0 AKERLOF 71B ANGP, I
POL I
AKERLOF 71B ANGP, I
POL I
HAN 70 ANGP,POL I
HAN 70B I
KALBACI 71B I
TOET 73 I
5.4 COOPER 68 ANGP,CS, I
POL I
5.5 COOPER 70 I
6.7 SLAC-BC-060 ANGP, I
DHE I
7.0 BAKER 7B ANGP,POL I
10. BERGLUND 75 I
GODDARD 77 I
12. BAKER 7B I
20.-120 FNAL-C99 ANGP I
50.-150 CERN-WA-006 POL I
? BERLEY 65B ANGP, I
CS I
KEFLER 67 ANGP,CS, I
POL I
PAN 70 ANGP,CS, I
POL I
*K+ SIG(1385)I3+ P I
1.3-1.8 HANSEN 71 I
1.7 PAN 70 ANGP,CS, I
POL I
PAN 70B ANGP,CS I
1.9 DAGAN 67B I

PI+ P --> (CONT.)

*K+ SIG(1385)I3+ (CONT.)
2.0-2.3 MOORE 70 I
3.0 KALBACI 71B I
3.0-7.0 KALBACI 71 ANGP I
3.5-14. BASHIAN 71C I
3.6-3.8 BUTLER 70 I
4.0 BARTSCH 66 CS I
YING 65B I
4.0-5.5 YING 69 I
5.0 KALBACI 71B I
YING 65B I
5.5 COOPER 70 I
MOTT 69B I
6.7 SLAC-BC-060 ANGP, I
DHE I
7.0 KALBACI 71B I
8.0 ADERHOLZ 69 ANGP, I
CS I
ERANCT 68B ANGP, I
CS I
KISELEWSKA 70 I
8.2 KREBS 71 I
10. BERGLUND 75B I
20.-120 FNAL-C99 ANGP I
? ABELINS 69 I
COOPER 70 ANGP,CS I
CAMPES 7C I
PAN 70B ANGP,CS I
*K+ SI(1480)I+ I
1.7 PAN 70 ANGP,CS, I
PCL I
*K+ SI(1670)I+ I
6.7 SLAC-BC-060 ANGP, I
DHE I
20.-120 FNAL-C99 ANGP I
*K+ SI(1189)I0+ I
5. COOPER 70 I
6.7 SLAC-BC-060 ANGP, I
DHE I
8.0 ADERHOLZ 69 ANGP, I
CS I
8.2 KREBS 71 I
K+ ?(UNSPEC)+ I
12. SLAC-BC-059 ANGP, I
DHE I
*K+ ANYTHING I
4.0 BEIER 76D CS I
4.0-20. BEIER 76 CS I
6.0 BEIER 76D CS I
8.0 BEIER 76E CS I
10. BEIER 76E CS I
12. BEIER 76D CS I
15. BEIER 76D CS I
20. BEIER 76C CS I
24. BEIER 76D CS I
40. FNAL-324 ANGP I
50. FNAL-118A ANGP I
80. FNAL-324 ANGP I
100 FNAL-118A ANGP I
100-350 FNAL-258 ANGP I
150 BEIER 76D CS I
FNAL-118A ANGP I
160 FNAL-324 ANGP I
250 BEIER 76D CS I
? FNAL-236A ANGP I
*KO ANYTHING I
150 FNAL-299 ANGP I
*KS ANYTHING I
6.0 CRENNELL 72 I
15. BALTAY 77C CS,P, I
PT I
PISELLO 76 CS,P, I
PT I
16. BOSETTI 75 ANGP, I
CS,P,PT I
18. STUNTEBECK 74 I
22. CRENNELL 72 I
100 ALSTONGARNJO 75 I
CS, I
P,PT I
7 STROYNOWSKI 75 I
*K- ANYTHING I
40. FNAL-324 ANGP I
50. FNAL-118A ANGP I
80. FNAL-324 ANGP I
100 FNAL-118A ANGP I
100-350 FNAL-258 ANGP I
150 FNAL-118A ANGP I
160 FNAL-324 ANGP I
? FNAL-236A ANGP I
*K0(892)+ SIGMA+ I
1.9 DAGAN 67B I
2.3-2.5 BERLEY 65B I
2.8 YAMAMOTO 64 I
3.6-3.8 BUTLER 7C I
4.0 BARTSCH 66 CS I

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P —> (CONT.)

*K+(8S2)+ SIGMA+ (CONT.)
5.4 CCOPER 68 ANGP,CS,
POL
5.5 CCOPER 70
8.5 KREBS 71
7 DAVIES 73
TOET 73
*K+(8S2)+ SIGI1385P13)+
5.5 COOPER 70
6.7 SLAC-BC-060 ANGP,
DNE
8.0 ADERHOLZ 69 ANGP,
CS
BRANCT 66B ANGP,
CS
8.6 ALAM 76B CS
7 TOET 73
*K+(8S2)+ SIGI1670B)+
6.7 SLAC-BC-060 ANGP,
DNE
*K+(8S2)+ SIGI1690B)+
6.7 SLAC-BC-060 ANGP,
DNE
*K+(8S2)+ PRONG
15. BALTAY 77C CS I
*K+(8S2)+ ANYTHING
15. BALTAY 77C CS,P,
PT
PISELLO 76 CS,P,
PT
*K+(8S2)- ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
*K+(14201+ SIGMA+
7 TOET 73
*K+(14201+ SIGI1385P13)+
6.7 SLAC-BC-060 ANGP,
DNE
*K+(14201+ SIGI1670B)+
6.7 SLAC-BC-060 ANGP,
DNE
*K+(14201+ SIGI1690B)+
6.7 SLAC-BC-060 ANGP,
DNE
*ADO SIGMA/C(243O1++
7 GODDARD 77B
*EXOTIC-MESON N
8.4 ALAM 75C
BONAMY 75 CS
*EXOTIC-MESON LAMBDA
12. BRUNDIERS 76 CS
FLURI 75B
*P PRONG
15. BALTAY 77C CS
18. GO 75
205 TRILLING 74B CS,
MASS
*P ANYTHING
1.3 KALBFLEISCH 74C
MASS
1.4 HARRISEN 75
1.6 KALBFLEISCH 74C
4.0 BEIER 76D CS
4.0-20. BEIER 76 CS
6.0 BEIER 76D CS
8.0 BARTKE 76B P
BEIER 76D CS
10. BEIER 76D CS
12. BEIER 76D CS
15. BALTAY 77C CS,P,
PT
BALTAY 77C CS,P,
PT
BEIER 76D CS
PISELLO 76 CS,P,
PT
BARTKE 76B P
18. GO 75
20. BEIER 76D CS
24. BEIER 76D CS
25.-200 FNAL-366 ANGP,P
29. ANTIPOV 76F CS,
MASS
40. FNAL-324 ANGP
43. ANTIPOV 76F CS,
MASS
50. FNAL-118A ANGP
80. FNAL-324 ANGP
100 FNAL-118A ANGP
TAUTZ 76 ANGP,CS,
MASS
100-350 FNAL-258 ANGP
150 BEIER 76D CS
BEIER 76C CS
FNAL-118A ANGP
FNAL-259 ANGP

PI+ P —> (CONT.)

*P ANYTHING (CONT.)
160 FNAL-324 ANGP
250 BEIER 76D CS
? FNAL-236A ANGP
*P OD < PHOO PI+ >
13. KAMALOV 76
*P OD < 2PI+ PI- >
16. GRASSLER 74 CS
*P OD < K+ K- PI+ >
16. CITER 75C CS
*N ANYTHING
8.0 AHL-E-360
*AP ANYTHING
40. FNAL-324 ANGP
50. FNAL-118A ANGP
80. FNAL-324 ANGP
100 FNAL-118A ANGP
100-350 FNAL-258 ANGP
160 FNAL-118A ANGP
160 FNAL-324 ANGP
? FNAL-236A ANGP
*DEL++ OPPCNG
12. BALTAY 77C CS
*DEL++ NIPRONGI
100 ERWIN 75 MULT
*DEL++ MM.GE+2
1.6 DARONIAN 66
5.4 BLOODWORTH 74B
*DEL++ ANYTHING
8.0 BEAUPRE 73 ANGP,
CS,MASS
CHOUDHURY 74E CS,
P,PT
ZEMANY 77
15. BALTAY 77C CS,P,
PT
PISELLO 76 CS,P,
PT
BARTKE 77
BEAUPRE 73 ANGP,
CS,MASS
CHOUDHURY 74E CS,
P,PT
BEAUPRE 73 ANGP,
CS,MASS
CHOUDHURY 74E CS,
P,PT
100-400 MUSGRAVE 75
ERWIN 75 ANG,ANGP,
ZEMANY 77
*LAMBDA ANYTHING
12. BRUNDIERS 76 MASS
15. BALTAY 75B ANGP,
MASS
BALTAY 77C CS,P,
PT
PISELLO 76 CS,P,
PT
ERWIN 76 CS,MASS
ERWIN 76C CS,MASS,
MULT
ERWIN 76C ANG,DME,
MULT
100-400 MUSGRAVE 75
BRUNDIERS 76 MASS
BALTAY 75B ANGP,
MASS
BALTAY 77C CS,P,
PT
ERWIN 76 CS,MASS
ERWIN 76C CS,MASS,
MULT
BOSETTI 75 ANGP,
CS,P,POL,PT
PALER 74
STUNTEBECK 74
ALSTONGARNJO 75
CS,
PT
BOSETTI 75 ANGP,
CS,P,PT
FNAL-299 ANGP
STRUYNOWSKI 75
*ALAMBDA ANYTHING
15. BALTAY 77C P,PT
PISELLO 76 CS,P,
PT
BOSETTI 75 ANGP,
CS,P,PT
STUNTEBECK 74
ALSTONGARNJO 75

PI+ P —> (CONT.)

*HYPERON ANYTHING
16. BOSETTI 75 CS I
*DEUT ANYTHING
100-350 FNAL-258 ANGP I
*ADEUT ANYTHING
100-350 FNAL-258 ANGP I
*CHARM ANYTHING
15. BALTAY 75 I
BUNNELL 76 I
HEUSCH 76 I
*UNSPEC STRANGE
5.0 LONSKY 76 I
16. LONSKY 76 I
*2CHARGED
15. CAUTIS 75 P I
*2PRONG
1.0 METZGER 57 I
4.0 ADERHOLZ 65 ANGP, I
CS I
5.0 SCHOTANUS 73 ANGP, I
CS I
7.0 STONE 71 I
8.0 ADERHOLZ 68D I
10. ELLIOTT 77 I
13. KRAMER 71 I
15. BALTAY 77C CS I
15. BALTAY 77C CS I
BALTAY 77C CS I
CAUTIS 77 CS I
ELLIOTT 77 CS I
16. BALLAM 71B CS I
BALLAM 71D CS I
18. POWERS 73 I
50. ANDREJCHAVOV 74 CS I
FRANCESOVIET 74C I
100 ERWIN 76B CS I
KORSE 76 CS I
*ANYTHING HADRON(S)
200 FNAL-395 I
300 FNAL-395 I
*ANYTHING STRANGE
4.0 BARTKE 76B CS I
8.0 TOET 74 I
8.0 BARTKE 76B CS I
16. BARTKE 76B CS I
BOSETTI 75 CS I
*ANYTHING STRANGES
3.7 BUTLER 73 I
*ANYTHING STRANGE(S)
3.6 MACNAUGHTON 77 CS I
*ANYTHING VEES(S)
10. GODDARD 77 I
*ANTHNG PRONG
15. BALTAY 77D CS I
*ANYTHING NEPRONGI
153 FNAL-299 ANGP I
*ANYTHING PRONG(S)
8.0 GRASSLER 75 MULT, I
P I
16. GRASSLER 75 MULT, I
P I
23. GRASSLER 75 MULT, I
P I
*DD < P PIO > DD < 2PI+ PI- I
>
16. GRASSLER 74 CS I
*DD < N PI+ > DD < 2PI+ PI- I
>
16. GRASSLER 74 CS I
*GAMMA ANYTHING
15. BALTAY 77C MASS I
16. BOCKMANN 76 MASS I
*GAMMA 2PRONG
15. BALTAY 77C CS I
*GAMMA NEPRONGI NEUTRAL(S)
16. HOFMANN 74 CS,P, I
PT I
*GAMMA(S) 2PRONG
18. BISWAS 74 I
*E+ E- ANYTHING
4.0 GUY 76 CS,MASS I
15. BALTAY 77C MASS I
FNAL-671 MASS I
*MU- MU+ ANYTHING
16. BUNNELL 77 CS, I
MASS I
17. SLAC-E-123A FW I
150 FNAL-331 ANGP,P I
*2MU+ ANYTHING
16. BUNNELL 77 CS I
*PI3(S) 2CHARGED
10. ELLIOTT 77 I
15. ELLIOTT 77 CS I
*2PI+ MM.GE.2
.85 DEBAISIEUX 68 I
1.6 DARONIAN 66 I

PI+ P —> (CONT.)

*2PI+ MM.GE.2 (CONT.)
2.1 JAMES 66 I
2.1 ARMENISE 65 I
2.8 YAMAMOTO 66 I
3.6 MACNAUGHTON 71D I
4.0 ADERHOLZ 65 ANGP, I
CS I
5.0 SCHOTANUS 70 ANGP, I
CS I
8.0 ADERHOLZ 68C I
DEUTSCHMANN 64 I
13. KRAMER 71 I
*2PI+ MM.GE.4
3.6 MACNAUGHTON 77 CS I
*2PI+ NEUTRALS
3.6 MACNAUGHTON 77 I
3.7 MACNAUGHTON 77 I
*2PI+ ANYTHING
1.2 BERTHON 74C CS, I
MASS I
*PI+ PI- ANYTHING
8.0 DEUTSCHMANN 75B I
CS, I
MASS I
23. DEUTSCHMANN 75B I
CS, I
MASS I
15. BALTAY 77C CS I
16. BARTKE 76C MASS,P, I
PT I
DEUTSCHMANN 75B I
CS, I
MASS,PT I
DEUTSCHMANN 75B I
CS, I
MASS,PT I
23. DEUTSCHMANN 75B I
CS, I
MASS I
100 KO 74 MULT,P I
100-400 MUSGRAVE 75 I
? STROYNOWSKI 75 I
*PIO HADRON(S) ANYTHING I
200 FNAL-395 I
300 FNAL-395 I
*PIO 2PRONG
15. BALTAY 77C CS I
*2PI- ANYTHING
4.1 FONG 73 P,PT I
18. LAM 72 I
SHEPPARD 72 I
21. LAM 72 I
100 KO 74 MULT,P I
*RHOO 2PRONG
8.0 DEUTSCHMANN 75B I
CS, I
15. BALTAY 77C CS I
16. DEUTSCHMANN 75B I
CS, I
MASS I
23. DEUTSCHMANN 75B I
CS I
*G(1680)IO 2PRONG
15. BALTAY 77C CS I
*KO AKO ANYTHING
8.5 KREBS 71 I
*KS PI+ ANYTHING
15. BALTAY 77C MASS I
*KS PI- ANYTHING
15. BALTAY 77C MASS I
*2KS ANYTHING
15. BALTAY 77C CS I
16. PISELLO 76 CS I
*KS 2PRONG
15. BALTAY 77C CS I
16. BOSETTI 75 ANGP, I
CS I
*KAON KAON -GT.3PRONG
5.0 TOET 73 I
*KAON KAON PRONG
5.0 TOET 73 I
*KACK KAON PRONG
5.0 TOET 73 I
*KAON KAON ANYTHING
5.0 TOET 73 I
8.0 BRANDT 66 I
*P PI+ GAMMA
.080-.22 NEFKENS 74 I
.34 BATUSOV 74 I
.39 BATUSOV 74 I

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

+P PI+ GAMMA (CONT.)
.41 SOBER 74
+P PI+ GAMMA(S)
2.9 BALDIN 70
3.5 GRIVAZ 76
+P PI+ PIGN(S)
8.0 GRASSLER 73 P
16. GRASSLER 73 P
23. GRASSLER 73 P
+P PI+ PIO
.34 BATLSOV 74
.39 BATUSOV 74
.41 SOBER 74
.46-1.2 COLBEAU 75
.50-1.5 DETOEUF 64
.52-1.1 LENGACRE 76
.59-.81 BOWLER 70
.60-1.3 CHAVANON 68 CS
.72 NEWCOMB 63
.81-1.0 BARLOUTAUD 63
.84-1.6 CHAVANON 74
.85 DEBAISIEUX 68
.85-1.1 DOLBEAU 76
.89 CASHMORE 74C
.90-1.3 STONEHILL 61
.91 TILGER 66
.94 DEBEER 69B
1.0 AHMAD 75
METZGER 67
1.2 AHMAD 75
BERTHON 74C CS,
MASS
1.3-1.8 KERMAN 73B
1.4 AHMAD 75
1.5-1.8 WILLIAMSON 72
1.6 DARCNIAN 66
2.1 JAMES 66
2.3-2.9 ALFFSTEINBER 66
2.7 ARMENISE 65
MICHAEL 73B
2.8 YANAMOTO 68
3.5 ASCLINS 64
MINE 74
3.6 MACNAUGHTON 71C
MACNAUGHTON 72
S S
ANGP,
CS,MASS
3.7 MACNAUGHTON 76
MACNAUGHTON 77
3.9 BASTIEN 71 ANGP,
CS
BERLAD 74 CS,MASS
BERLAD 74B ANG,
MASS,P
BRAU 71 CS
HABER 74 CS,MASS
4.0 ADERHOLZ 65 ANGP,
CS
5.0 SCHOTANUS 70 ANGP,
CS
5.4 BLOODWORTH 74B
6.0 BELL 68B ANGP,CS
GORDON 73 ANGP,
MASS
8.0 ADERHOLZ 68C
BARTKE 76B CS
BOCKMANN 73 ANP,
ANGP,CS,MASS
BOESEBECK 71B CS
BOSETTI 73B CS,P
COGHEN 71 CS
DEUTSCHMANN 64
DEUTSCHMANN 65
ANGP,
CS
DEUTSCHMANN 76C
ANGP,
MASS
10. ZEMANY 77
12. EVANS 74
13. KRAMER 71
SCHARENGUIVE 72
THOMPSON 74 MASS
14. CHADWICK 75 ANGP,
CS,MASS
CHADWICK 77 ANGP,
MASS
OCHS 74 PWA
16. BARTKE 76B CS
BOCKMANN 73 ANP,
ANGP,CS,MASS
BOESEBECK 71B CS
BOSETTI 73B CS,P
DEUTSCHMANN 76C
ANGP,
MASS

PI+ P --> (CONT.)

+P PI+ PIO (CONT.)
DEUTSCHMANN 75C
ANP,
CS,MASS,P
GRASSLER 74 CS
GRASSLER 75B CS
OTTER 77 CS,MASS,
P
PLOTHOW 75 ANG,
ANGP,CS,MASS
23. BOSETTI 73B CS,P
DEUTSCHMANN 74C
ANGP,
MASS
BOCKMANN 73 ANP,
7 ANGP,CS,MASS
+P PI+ PN,GE=2
.85 DEBAISIEUX 68
1.6 DARDNIAN 66
2.1 JAMES 66
2.3 ALFF 62B
2.6 ALFF 62B
2.7 ARMENISE 65
2.8 YAMAMCTO 68
2.9 ALFF 62B
3.6 MACNAUGHTON 71C
4.0 ADERHOLZ 65 ANGP,
MASS
+P PI+ PN,GE=3
1.6 DARDNIAN 66
+P PI+ NEUTRALS
3.7 MACNAUGHTON 77
10. ELLIOTT 77B
+P PI+ NEUTRALS(S)
10. ELLIOTT 77B
+P PI+ ANYTHING
1.2 BERTHON 74C CS,
MASS
8.0 GRASSLER 73 MULT
15. BALTAY 77C MASS
16. BEAUPRE 76 MASS
GRASSLER 73 MULT
23. GRASSLER 73 MULT
100 ERWIN 75 MASS
ERWIN 76C MASS
+P ETA GAMMA
2.9 BALDIN 71B CS
+P ETA PI+
.50-1.3 FOELSCHE 64B
1.2 GROSSMAN 69
1.6 DARDNIAN 66
1.9 CHAPMAN 71
2.1 JAMES 66
2.3 ALFF 62B
2.3-2.9 ALFFSTEINBER 66
2.6 ALFF 62B
2.8 YAMAMCTO 68
2.9 ALFF 62B
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 RONAT 72
XUONG 69
7 SHEN 65
WINKELMANN 68
+P ETA CHARGED
16. MALHOTRA 76B CS
+P PI+K0 ANGL
18. HONES 70
+P PI+ K0
2.3 ANGELOV 65C
2.3-2.9 ALFFSTEINBER 66
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 XUONG 63
3.6 GOLDHABER 64B
SHEN 65
4.0 ADERHOLZ 65 ANGP,
CS

PI+ P --> (CONT.)

+P RHCO PI+ (CONT.)
4.9 LYONS 75
5.1 MURRO 71
5.7 SHENG 70
7.4C SLATTERY 67B CS
7.1 CHUNG 75D ANG
EISNER 75 ANG
8.5 KUNG 69
12. BASSLER 73
13. GAIDOS 70E
LAMSA 70
15. BALTAY 75D MASS
BALTAY 77D CS,MASS
CAUTIS 77 CS,MASS
16. DEUTSCHMANN 76
ANG,
MASS
18. LICHTMAN 74
+P RHO0 CHARGED
16. MALHOTRA 76B CS
+P OMEGA PI+
1.6 DARDNIAN 66
2.1 JAMES 66
2.3 ANGELOV 65C
2.3-2.9 ALFFSTEINBER 66
2.7 ARMENISE 65B
2.9 BALDIN 71B CS
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 RONAT 72
XUONG 63
YAGER 72
3.6 SHEN 65
3.9 WINKELMANN 68
4.9 ADERHOLZ 65 ANGP,
CS
CHUNG 74 ANG,CS,
DME,MASS
OTTER 74D ANGP,CS,
DME,PWA
4.9 KARSHON 74B
LYONS 75
5.0 CHUNG 74 ANG,CS,
DME,MASS
OTTER 74D ANGP,CS,
DME,PWA
5.7 DAO 70
7.4C SLATTERY 67B CS
7.1 CHUNG 73B ANG,
MASS,PWA
CHUNG 75D ANG
CHUNG 75F MASS,
PWA
EISNER 75 ANG
8.0 CHUNG 74 ANG,CS,
DME,MASS
OTTER 74D ANGP,CS,
DME,PWA
8.5 KUNG 69
15. BALTAY 77D CS,
MASS
BALTAY 77D CS,
MASS
CAUTIS 77 CS,MASS
16. BARTKE 76E CS
CHUNG 74 ANG,CS,
DME,MASS
OTTER 74D ANGP,CS,
DME,PWA
18. HONES 70
7 XUONG 63
+P OMEGA CHARGED
16. MALHOTRA 76B CS
+P ETAPRIME PI+
7 DAO 70
7.4C SLATTERY 67B CS
8.0 KUNG 69
15. BALTAY 77D CS,
MASS
+P SP(993) PI+
7 TOET 73
+P PHI PI+
3.4-3.5 ABOLINS 63
3.6 TRILLING 65
3.6-3.8 BUTLER 70
3.7 GIDAL 77
8.3 ADERHOLZ 65 ANGP,
CS
ADERHOLZ 69B
BRANDT 66
7 TOET 73
+P AI(1100)+ PI0
18. HONES 70

PI+ P --> (CONT.)

+P F PI+ (CONT.)
8.0 ADERHOLZ 69B
8.5 KUNG 69
15. BALTAY 75D MASS
BALTAY 77D CS
CAUTIS 77 CS,MASS
16. HONES 70
+P A2(1310)+ PIO
15. BALTAY 77D CS
CAUTIS 77 CS
18. HONES 70
+P A2(1310)0 PI+
7.0 SLATTERY 67B CS
8.5 KUNG 69
15. BALTAY 77D CS
CAUTIS 77 ANP,CS
7 BALTAY 77D CS
TOET 73
+P EPRIME PI+
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66
+P OMEGA(1675) PI+
15. CAUTIS 77 ANP
+P G(1680)0 PI+
15. BALTAY 75D MASS
BALTAY 77D CS
CAUTIS 77 CS,MASS
+P K+ K5
5.0 BOCKMANN 70 CS
9.1 METTRE 70
6.0 CRENNELL 68B CS
10. CERN-S-131 FX
20. CERN-WA-010 FX
30. CERN-WA-003 FX
40. CERN-WA-010 FX
55. CERN-WA-003 FX
80. CERN-WA-003 FX
CERN-WA-010 FX
+P K+ AKO
1.1-1.8 HANSCN 71
1.7 PAN 70 ANGP,CS,
POL
1.9 DAGAN 67B
2.0-2.3 MOORE 70
2.3-2.9 BERLEY 65B
2.7 YAMAMOTO 64
3.4-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 COOPER 70
6.0-10. BNL-594
6.7 SLAC-BC-060 ANGP,
DPE
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66
8.5 KREBS 71 CS
10. GOCCARC 77
13. SLAC-BC-061 ANGP,
DPE,PWA
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+P K+(892)0 AKO
3.6-3.8 BUTLER 70
5.5 COOPER 70
8.5 KREBS 71
7 TOET 73
+P AK+(892)0 K+
3.6-3.8 BUTLER 70
5.5 COOPER 70
8.0 ADERHOLZ 69 ANGP,
CS
ADERHOLZ 69B
13. GAIDOS 71
TOET 73
+2P AN
13. CELUDE 75
DULUDE 75
SLAC-BC-061 ANGP,
DPE,PWA
+2P AP
13. GAIDOS 73
+P AP OEL++
8.0 ADERHOLZ 69B
13. CELUDE 75
DULUDE 75
GAIDOS 71
SLAC-BC-061 ANGP,
DPE,PWA

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

+P AP DEL++ (CONT.)
18. LICHTMAN 76
+N 2PI+
.18 BUNYATOV 74B
.30 CROUCH 74
.34 BATLSOV 74
.36 KIRZ 62
.39 BATUSOV 74
.49-1.2 COLBEAU 75
.59-.81 BOWLER 70
.72 NEWCOMB 63
.81-1.0 BARLOLTAUO 63
.84-1.6 CHAVANCN 74
.85 DEBAISIEUX 68
.85-1.1 COLBEAU 76
.90-1.3 STONEHILL 61
.91 TILGER 66
.94 DEBBER 69B
1.0 METZGER 67
1.2 BERTHON 74C CS,
MASS
1.6 DARDNIAN 66 MASS
1.6-4.0 KANAZIRSKII 69
2.1 JAMES 66
2.3-2.9 ALFFSTEINBER 66
2.7 ARMENISE 65
2.8 YAMAMOTO 68
3.2 SEPOIGNE 74
3.5 ABCLINS 64
3.6 MACNAUGHTON 71C
MACNAUGHTON 77
ANGP,
CS,MASS
3.7 MACNAUGHTON 77
3.9 BASTIEN 71 ANGP,
CS
BERLAD 74 CS,MASS
BERLAD 74B ANG,
MASS
4.0 ADERHOLZ 65 ANGP,
CS
5.0 PRIMCP 74
SCHETANUS 70 ANGP,
CS
6.0 BELL 68B ANGP,CS
CRENWELL 68B CS
GORDON 73 ANGP,
MASS
8.0 ADERHCLZ 68C
BOCKMANN 73 ANP,
ANGP,CS,MASS
BOESEBECK 71B CS
BOSETTI 73B CS,P
GRASSLER 75E CS
OTTER 77 CS,MASS,
PWA
FLOTHOW 75 ANG,
ANGP,CS,MASS
SOTIRIOU 76 ANG,
ANGP,CS,MASS,
PWA
BOSETTI 73B CS,P
GRASSLER 75E CS
OTTER 77 CS,MASS,
PWA
OCHS 74 PWA
OCHS 75 ?
16. BOCKMANN 73 AMP,
ANGP,CS,MASS
BOESEBECK 71B CS
BOSETTI 73B CS,P
GRASSLER 75E CS
OTTER 77 CS,MASS,
PWA
FLOTHOW 75 ANG,
ANGP,CS,MASS
SOTIRIOU 76 ANG,
ANGP,CS,MASS,
PWA
23. BOSETTI 73B CS,P
30. CERN-WA-003 FV
50. FNAL-110A
55. CERN-WA-003 FV
80. CERN-WA-003 FV
100 FNAL-110A
200 FNAL-110A
+N PI+ PI0
8.6 ALAM 75
+N A2(1310)+ PI+
? TOET 73
+N 2CHARGED+
8.4 ALAM 74B MASS
+DEL++ 2GAMMA
7.0 AHL-E-400 FV
+DEL++ PI+ PI-
.470-1.4 COLTON 71
1.6 DARCNIAN 66
1.9 CHAPMAN 71
2.1 JAMES 66

PI+ P --> (CONT.)

+DEL++ PI+ PI- (CONTD)
1 2.3 ANGELOV 69C
2.3-2.9 ALFFSTEINBER 66
2.6-4.1 BROWN 68
3.6 GOLDHABER 64B
SHEN 65
3.7-4.0 GOLDHABER 69
4.0 ADERHOLZ 65 ANGP,
CS
4.5 LYEMS 75
7.0 FLATTUM 72B
SLATTERY 67B CS
WAGNER 74B ANGP,
MASS
7.1 ALSTONGARNJO 71B
PROTOPOPESCU 73
8.0 KALTWASSER 71
8.5 KUNG 69
10. ZEMANY 77
12. BASSLER 73
13. GAIDOS 70D
14. CHADWICK 77 ANGP,
MASS
16. BOSETTI 75D ANG,
ANGP,CS,MASS
DEUTSCHMANN 76
ANG,
MASS
18. LICHTMAN 74
? DENGHUE 77
DONOHUE 77B
KAMALOV 76B ANG,
ANGP,MASS
+DEL++ PI0 GAMMA
7.0 ANL-E-400 FV
+DEL++ 2PI0
3.5 GRIVAZ 76B
7.0 ANL-E-400 FV
+DEL++ PI- N(PRONG)
100 ERWIN 75 MASS
+DEL++ ETA GAMMA
7.0 ANL-E-400 FV
+DEL++ RHO0 PI0
4.0 ADERHCLZ 65 ANGP,
CS
6.0 BOTTCHER 74 CS
+DEL++ 2RH00
8.0 BARDACINOTWI 71
CS
16. BOTTCHER 74 CS
+DEL++ OMEGA GAMMA
7.0 ANL-E-400 FV
+DEL++ K+ K-
3.6-3.8 BUTLER 70
6.7 SLAC-BC-060 ANGP,
DME
7.1 ALSTONGARNJO 71B
PROTOPOPESCU 73
8.0 ADERHCLZ 65 ANGP,
CS
ADERHCLZ 69B
13. GAIDOS 71
SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+DEL++ K0 AK0
5.5 CCOPER 70
8.5 KREBS 71
? TOET 73
+DEL++ 2K5
3.6-3.8 BUTLER 70
8.0 ADERHCLZ 69 ANGP,
CS
+DEL++ K5 K+
8.0 ADERHCLZ 65 ANGP,
CS
+DEL++ 2PFENG
15. BALTAY 77C CS
+DEL+ K+ AK0
9.2 CCOPER 70
? TOET 73
+DELO 2PI+
4.0 ADERHCLZ 65 ANGP,
CS
7.0 SLATTERY 67B CS
8.5 KUNG 69
+DEL(1670)33++ PI+ PI-
13. GAIDOS 75 CS
+DEL(1690)33++ K0 AK0
5.5 CCOPER 70
+DEL(1880)1++ PI+ PI--
10. ZEMANY 77
+DEL(1950)37++ PI+ PI-
13. GAIDOS 75 CS
+DELTUNSPECI++ 2PI0
4.0 RHEL-C91

PI+ P --> (CONT.)

+LAMBDA PI+ ANYTHING
15. BALTAY 77C MASS
16. BOSETTI 75 MASS
+LAMBDA K+ PI+
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
PAN 70B ANGP,CS
1.9 DAGAN 67B
2.3-2.8 MOORE 70
2.3-2.9 BERLEY 65B
3.6-3.9 BUTLER 70
4.3-5.3 RPEL-126 FV
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
BRANDT 66B ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+LAMBDA K+ RHO+
? TOET 73
+LAMBDA K5 ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
DEUTSCHMANN 76
+LAMBDA KACN ,GT.2PRONG
5.3 TOET 73
+LAMBDA KACN OPRONG
5.0 TOET 73
+LAMBDA KAON ANYTHING
5.0 TOET 73
+LAMBDA K*(892)+ PI+
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
8.5 KREBS 71
? TOET 73
+LAMBDA K*(1420)+ PI+
? TOET 73
+ZLAMBDA ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
+LAMBDA ALAMBDA ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
16. BCSETTI 75 P
18. LICHTMAN 76
? BALTAY 77C CS
+LAMBDA 2PRONG
15. BALTAY 77C CS
16. BCSETTI 75 ANGP,
CS
100 ERWIN 76C CS
+LAMBDA K5 ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
+LAMBDA 2PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
+LAM(1520)D03 K+ PI+
3.6-3.8 BUTLER 70
? TOET 73
+SIGMA+ K+ PI3S
5.0 TOET 73
+SIGMA+ K+ PI3
1.3-1.8 HANSEN 71
1.6 DARDNIAN 66
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.8 YAMAMOTO 68
3.6-3.8 BUTLER 70
4.3 BARTSCH 66 CS
5.0 TOET 73
+SIGMA+ K+ PI3
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
+SIGMA+ K+ PI3(1385)
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
+SIGMA+ K+ PI3(1385)0
5.5 CCOPER 70
+SIGMA+ K+ PI3(1670)1+
5.0 TOET 73
+SIGMA+ K+ PI3
1.3-1.8 HANSEN 71
1.6 DARDNIAN 66
1.7 PAN 70 ANGP,CS,
PCL
+SIGMA+ K+ PI3(1385)0
3.6-3.8 BUTLER 70
? TOET 73
+SIGMA+ K+ PI3S
5.0 TOET 73
+SIGMA+ K+ PI3
1.3-1.8 HANSEN 71
1.6 DARDNIAN 66
1.7 PAN 70 ANGP,CS,
PCL
9.5 CCOPER 70
10. ZEMANY 77
+SIGMA+ K+ RHO0
? TOET 73
+SIGMA+ K+ ANYTHING
4.3 BARTSCH 66 CS
+SIGMA+ K+ PI+
1.3-1.8 HANSEN 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
5.0 TOET 73
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ ANYTHING
15. BALTAY 77C CS
PISELLO 76 CS
16. BCSETTI 75 P
18. LICHTMAN 76
? BALTAY 77C CS
+SIGMA+ 2PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
100 ERWIN 76C CS
+SIGMA+ K0 PI+
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
ADERHOLZ 65 ANGP,
CS
8.5 KP-65 71
+SIGMA+ K0 PI+ (CONT.)
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
ADERHOLZ 65 ANGP,
CS
10. GODDARD 77
+SIGMA+ K0 ANYTHING
15. BOSETTI 75 CS
16. BCSETTI 75 P
+SIGMA+ K0 ANYTHING
5.0 TOET 73
+SIGMA+ K0 PI+ ANYTHING
5.0 TOET 73
+SIGMA+ K0 PI+ PI0
5.0 TOET 73
+SIGMA+ K0 PI+ PI+ PI-
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.6 BERLEY 65B
3.6-3.8 BUTLER 70
5.0 TOET 73
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ ANYTHING
16. BOSETTI 75 CS
+SIGMA+ KACN ANYTHING
5.0 TOET 73
+SIGMA+ KACN OPRONG
5.0 TOET 73
+SIGMA+ KAON ANYTHING
5.0 TOET 73
+SIGMA+ 2PRONG
16. BCSETTI 75 ANGP,
CS
+SIGMA+ K0 PI+
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.6 BERLEY 65B
3.6-3.8 BUTLER 70
5.0 TOET 73
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ ANYTHING
16. BOSETTI 75 CS
+SIGMA+ KACN ANYTHING
5.0 TOET 73
+SIGMA+ KACN OPRONG
5.0 TOET 73
+SIGMA+ KAON ANYTHING
5.0 TOET 73
+SIGMA+ 2PRONG
16. BOSETTI 75 ANGP,
CS
+SIGMA+ K0 PI+ PI0
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
13. SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+SIGMA+ K0 PI+ PI- MP.GE.2
8.0 ADERHOLZ 69 ANGP,
CS
+SIGMA+ K0 PI+ PI0
5.5 CCOPER 70
+SIGMA+ K0 PI+ PI+ PI-
5.0 TOET 73
+SIGMA+ K+ PI+ PI-
4.0 BARTSCH 66 CS
+SIGMA+ K+ PI+ PI0
5.0 TOET 73
+SIGMA+ K+ PI+ PI+ PI-
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
+SIGMA+ K+ PI+ PI+ PI-
1.9 DAGAN 67B
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
ADERHOLZ 65 ANGP,
CS
13. SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
+SIGMA+ K+ PI+ PI+ PI-
5.0 TOET 73
+SIGMA+ K+ PI+ PI+ PI-
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
13. SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
+SIGMA+ K+ PI+ PI+ PI-
5.0 TOET 73
+SIGMA+ K+ PI+ PI+ PI-
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
13. SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+SIGMA+ K+ PI+ PI+ PI-
5.0 TOET 73
+SIGMA+ K+ PI+ PI+ PI-
1.3-1.8 HANSON 71
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHCLZ 65 ANGP,
CS
ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS
13. SLAC-BC-061 ANGP,
DME,PWA
? TOET 73
+SIGMA+ K+ PI+ PI+ PI-
4.0 BARTSCH 66 CS
5.5 CCOPER 70
8.0 ADERHCLZ 69 ANGP,
CS

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

*K+ AKD PI+ MM,GE.2
4.0 BARTSCH 66 CS
*ZKS 2PI+
5.0 TOET 73
*ZKS 2PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
*KAON KACN 2PRONG
5.0 TOET 73
*K+(8921)+ 3PRONG
15. BALTAY 77C CS
*P PI+ GAMMA(S) ANYTHING
10. ELLIOTT 77B
*P 2PI+ PI-
.85 DEBAISIEUX 68
.90-1.3 FOELSCHE 68
.94 DEBEER 69
.99 KOPP 61
1.2 BERTHON 74C CS,
MASS
1.6 DARCHIAN 66
1.9 CHAPMAN 71
2.0-20. KAMALOV 76D AMP,
ANGP,CS,MASS
2.1 JAMES 66
2.3 ALFF 62B
ANGELOV 69
ANGELOV 69C
ALFFSTEINBER 66
2.3-2.9
2.6 ALFF 62B
2.7 ARMENISE 66
2.8 YAMAMOTO 65
2.9 ALFF 62B
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 RONAT 72
XUONG 63
3.6 GOLDHABER 64B
MACNAUGHTON 71C
MACNAUGHTON 77 CS
SHEN 65
3.7 ABRAMS 70E
MACNAUGHTON 77
4.0 ADERHOLZ 65 ANGP,
CS
4.0-5.0 RHEL-126 FV
4.5 FERINO 65B
4.9 EISENBERG 74 CS,
MASS
EISENBERG 74B
MASS
LYONS 75
5.7 BOCKMANN 70 CS
CHUNG 75C PWA
KARSHON 74 MASS
POLS 71 ANGP,CS
RINAUDO 71B
5.4 BLOODWORTH 71D
BLOODWORTH 71E
BLOODWORTH 72
5.7 SHENG 70
7.0 SLATTERY 67B CS
TABAK 74 PWA
WAGNER 74B ANGP,
MASS
7.1 CHUNG 75B MASS
CHUNG 75D MASS
EISNER 75 CS,MASS
7.5 CHUNG 75C
8.0 ADERHOLZ 68C
ADERHOLZ 69B
BARTKE 76B CS,P
BOSETTI 73B CS,P
BOSETTI 75C
BOTTCHER 74B MASS,
P
BOTTCHER 76 MASS,
P
COGHEN 71 CS
DEUTSCHMANN 64
GRASSLER 74B MASS,
P
OTTER 74B ANGP,CS,
PWA
SALMERON 72 ANGP
8.5 KUNG 69
PRATAP 73
10. ZEMANY 77
11. HAPMS 69
11.-25. CHUNG 75C PWA
12. BASSLER 73
CASO 72
CHAUMET 70
MADCOCK 71B
TCMASINI 72

PI+ P --> (CONT.)

*P 2PI+ PI- (CONT.)
13. GAIDOS 70
GAIDOS 74
GAIDOS 75 MASS
LAMSA 72B
THOMPSON 73 MASS,
PWA
THOMPSON 74B MASS,
PWA
THOMPSON 74C PWA
15. BALTAY 75D MASS
BALTAY 77 CS,MASS,
PWA
BALTAY 77D CS,
MASS
CAUTIS 77 MASS
KALELKAR 75 CS,
MASS
KALELKAR 75B MASS
16. BALLAM 71B CS
BARTKE 76B CS,P
BARTKE 77B ANG,
MASS,MULT
BOSETTI 73B CS,P
BOSETTI 75C
DEUTSCHMANN 75C
MASS
DEUTSCHMANN 76
MASS
GRASSLER 74 CS
GRASSLER 74B MASS,
P
HENECKER 76 MASS
OTTER 74B ANGP,CS,
PWA
SALMERON 72 ANGP
18. LICHTMAN 74
23. BOSETTI 73B CS,P
BOSETTI 75C
GRASSLER 74B MASS,
P
OTTER 74B ANGP,CS,
PWA
25. CHUNG 75C PWA
CHUNG 75C PWA
50. BALTAY 77D
50.-150 CERN-HA-006 ASYM
100 FNAL-110A
150 FNAL-29D ANGP
200 FNAL-110A
? ARMENISE 70
ASCOLI 74D
BALTAY 77 CS,MASS,
PWA
BROWN 68 ANGP,CS
*P PI+ 2PIO
2.0 JACQUET 65
3.5 GRIVAZ 76
GRIVAZ 76B
MINE 74
8.0 ANL-E-436 FV
* P PI+ VEE(S) ANYTHING
10. ELLIOTT 77B
*P RHO+ PI+ PI-
5.7 DAO 70
7.0 SLATTERY 67B CS
8.5 KUNG 69
15. CAUTIS 77 CS
18. MCNES 70
*P RHO0 2PION
4.0 ADERHOLZ 65 ANGP,
CS
*P RH00 PI+ PIO
5.7 DAO 70
7.0 SLATTERY 67B CS
8.5 KUNG 69
15. BALTAY 75C CS,
MASS
BOTTCHER 74B MASS,
P
COGHEN 71 CS
DEUTSCHMANN 64
GRASSLER 74B MASS,
P
8.5 KUNG 69
15. BALTAY 75C CS,
MASS
BALTAY 77D MASS
*P RHO- 2PI+
7.0 SLATTERY 67B CS
8.5 KUNG 69
15. BALTAY 75C CS,
MASS
BALTAY 77D MASS

PI+ P --> (CONT.)

*P OMEGA PI+ PIO
3.5 KIESTER 75
*P A1(1100)+ PI+ PI-
5.3 DREVERMANN 67 CS
*P A1(1103)+ 2PI+
5.0 DREVERMANN 67
*P B1(1235)+ PI+ PI-
5.0 DREVERMANN 67 CS
*P B1(1235)- 2PI+
5.0 DREVERMANN 67 CS
*P F PI+ PIO
15. BALTAY 77D CS
CAUTIS 77 CS
*P A2(1310)+ PI+ PI-
5.0 DREVERMANN 67 CS
*P A2(1313)+ 2PI+
5.0 DREVERMANN 67 CS
*P K+ AKD PIOS
5.0 TOET 73
KALELKAR 75B MASS
16. BALLAM 71B CS
BARTKE 76B CS,P
BARTKE 77B ANG,
MASS,MULT
BOSETTI 73B CS,P
BOSETTI 75C
DEUTSCHMANN 75C
MASS
DEUTSCHMANN 76
MASS
GRASSLER 74 CS
GRASSLER 74B MASS,
P
HENECKER 76 MASS
OTTER 74B ANGP,CS,
PWA
SALMERON 72 ANGP
18. LICHTMAN 74
23. BOSETTI 73B CS,P
BOSETTI 75C
GRASSLER 74B MASS,
P
CTTER 74B ANGP,CS,
PWA
25. CHUNG 75C PWA
CHUNG 75C PWA
50. BALTAY 77D
50.-150 CERN-HA-006 ASYM
100 FNAL-110A
150 FNAL-29D ANGP
200 FNAL-110A
*P K0 AKO PI+
2.3-2.6 BERLEY 65B
3.6 7PILLING 65
3.6-3.8 BUTLER 70
7.1 GIDAL 77
8.0 BARTSCH 66 CS
*P K0 PIOS
5.0 TOET 73
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66
GODDARD 77
*P K+ K- PI+
3.4-3.5 ABOLINS 63
3.6 TPILLING 65
3.6-3.8 BUTLER 70
3.7 GIDAL 77
4.0 BARTSCH 66 CS
5.0 BC,KMANN 70 CS
TOET 73
8.0 ADERHOLZ 69 ANGP,
CS
ADERHOLZ 69B
BALEA 70D
BOSETTI 75C
BOSETTI 75E
8.5 KREBS 71
13. GAIDOS 71
MULERA 70
16. BOSETTI 75C
OTTER 75C ANGP,CS,
DME,MASS,PWA
50. FNAL-110A
100 FNAL-113A
200 FNAL-110A
*P K0 AKO PI+ PI-
2.3-2.6 BERLEY 65B
3.6 7PILLING 65
3.6-3.8 BUTLER 70
7.1 GIDAL 77
8.0 BARTSCH 66 CS
*P K0 PIOS
5.0 TOET 73
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66
GODDARD 77
*P K0 KL PI+
2.8 YAMAMOTO 64
3.6-3.8 BUTLER 70
3.7 GIDAL 77
5.0 TOET 73
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66
GODDARD 77
*2P AP PI+
8.0 ADERHOLZ 65B
13. GAIDOS 71
MULERA 70
16. LICHTMAN 76
*P KEUTRCNES! PI+ ANYTHING
10. ELLIOTT 77B
*P LAMBDA ALAMBDA PI+
8.5 KREBS 71

PI+ P --> (CONT.)

*P 3PRONG
15. BALTAY 77C CS
16. GO 76
205 TRILLING 74B CS,
MASS
*N 2PI+ PIO
16. GRASSLER 74 CS
*N K+ AKO PIOS
5.0 TOET 73
*N K+ AKO PI+
2.3-2.9 BERLEY 65B
2.8 YAMAMOTO 64
5.0 BARTSCH 66 CS
5.0 TOET 73
COOPER 70
8.3 ADERHOLZ 69 ANGP,
CS
BRANDT 66
KREBS 71
GODDARD 77
*N(1520)0+ 2PI+ PI-
8.0 BARDACINCTWI 71
*N(1700)0+ 2PI+ PI-
8.0 BARDACINCTWI 71
*DEL++ PI+ PIO PI-
1.6 CARCAIAN 66
1.9 CHAPMAN 71
2.3 ANGELOV 69C
2.3-2.6 ALFFSTEINBER 66
2.9-4.1 BROWN 68
3.5 RONAT 72
3.6 SHEN 65
3.9 WINKELMANN 68
4.0 ADERHOLZ 65 ANGP,
CS
4.9 LYONS 75
5.7 CAO 70
7.0 SLATTERY 67B CS
TABAK 75 AMP,ANG,
ANGP,MASS,PWA
7.1 WAGNER 75 AMP,
MASS
8.5 KUNG 69
15. BALTAY 75C MASS
BALTAY 77 CS,MASS,
PWA
BALTAY 77C CS
7 BALTAY 77 CS,MASS,
PWA
18. MCNES 70
*DEL++ PI+ PI- MM,GE.2
4.6 EISENBERG 74B
MASS
*DEL++ RH00 PI+ PI-
8.0 BARDACINCTWI 71
CS
*DEL++ OMEGA PI+ PI-
4.0 BENDAR 66 CS
*DEL+ 2PI+ PI-
7.0 SLATTERY 67B CS
8.5 KUNG 69
18. MCNES 70
*DEL0 2PI+ PI-
5.7 DAC 70
7.0 SLATTERY 67B CS
8.5 KUNG 69
*DEL- 3PI+
4.0 ADERHOLZ 65 ANGP,
CS
*LAMBDA 2PI+ MM,GE.2
8.0 ADERHOLZ 69 ANGP,
CS
*LAMBDA K+ PI+ PIO
1.7 PAN 70 ANGP,CS,
PCL
1.9 DAGAN 67B
2.3-2.6 BERLEY 65B
2.8 YAMAMOTO 64
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.5 COOPER 70
8.0 ADERHOLZ 69 ANGP,
CS
BRANDT 66B ANGP,
CS
*LAMBDA K+ PI+ PI-
8.5 KREBS 71
10. GODDARD 77
*LAMBDA K+ PI+ MM,GE.2
4.0 BARTSCH 66 CS
*LAMBDA K+ RH00 PI+
8.5 KREBS 71

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

*LAMBDA KO 2PI+
1.7 PAN TO ANGP,CS, POL
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
5.0 TOET 73
5.5 CCOPER 70
8.0 ADERHOLZ 69 ANGP, CS
ERANET 66B ANGP, CS
8.5 KREBS 71
10. GODDARD 77
*LAMBDA KS 2PI+
8.5 KREBS 71
*LAMBDA K$ 2PRONG
15. BALTAY 77C CS
16. BESETTI 75 CS
*LAMBDA ALAMBDA 2PRONG
15. BALTAY 77C CS
16. BOSETTI 75 CS
18. LICHTMAN 76
*ALAMBDA KS 2PRONG
15. BALTAY 77C CS
*SIGMA+ K+ PI+ PI-
2.8 YAMAMOTO 64
3.2-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
10. GODDARD 77
EMANY 77
*SIGMA+ KO PI+ PIOS
5.0 TOET 73
*SIGMA+ KO PI+ PIO
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
10. GODDARD 77
*SIGMA+ KO PI+ MM.GE.2
4.0 BARTSCH 66 CS
*SIGMA+ KS 2PRONG
16. BOSETTI 75 CS
*SIGMA+ KACN 2PRONG
5.0 TOET 73
*SIGMA0 KO 2PI+
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
8.5 KREBS 71
10. GODDARD 77
*SIGMA0 KO PI+ PI-
5.0 TOET 73
*SIGMA- K+ 2PI+
2.8 YAMAMOTO 64
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
10. GODDARD 77
*SIGMA- KACN 2PRONG
5.0 TOET 73
*SIGI1385P131+ K+ PI+ PI-
8.5 KREBS 71
*SIGI1385P131+ KO PI+ PIO
8.0 ADERHOLZ 69 ANGP, CS
*SIGI1385P131+ 3PRONG
15. BALTAY 77C CS
*SIGI1385P131- K+ 2PI+
8.5 KREBS 71
*SIGIUNSPEC1+ K+ PI+ PI-
13. SLAC-EC-081 ANGP, DME,PWA
*ACHARGEC
15. CAUTIS 75 P
-*PRONG
1.0 METZGER 67
1.3 KALBFLEISCH 74C MASS
1.6 KALBFLEISCH 74C
3.5 RONAT 72
4.0 ADERHOLZ 65 ANGP, CS

PI+ P --> (CONT.)

*4PRONG (CONT.)
5.0 POLS 71 ANGP,CS
7.0 STONE 71
8.0 ADERHOLZ 68C
10. ELLIOTT 77
12. CHAUNET 70
15. BALTAY 77C CS
BALTAY 77D CS
CAUTIS 77 CS
ELLIOTT 77 CS
16. BALLAM 71B CS
BALLAM 71D CS
18. POWERS 73
50. ANDROPHANOV 74 CS
FRANCESDVIET 74C
100 ERWIN 74B CS
MORSE 76 CS
*GAMMA 4PRONG
15. BALTAY 77C CS
*GAMMA1S 4PRONG
19. BISWAS 74
*PI0(S) *CHARGED
10. ELLIOTT 77
15. BALTAY 77C CS
*3PI+ PI- MM.GE.2
2.7 ARMENISE 66
3.5 RONAT 72
3.6 MACNAUGHTON 71C
4.0 ADERHOLZ 65 ANGP, CS
5.0 POLS 71 ANGP,CS
8.0 ADERHOLZ 68D
DEUTSCHMANN 64
*3PI- PI- PI+ MM.GE.2
3.6 MACNAUGHTON 77 CS
*3PI+ PI- NEUTRALS
3.6 MACNAUGHTON 77
3.7 MACNAUGHTON 77
*PI0 4PRONG
15. BALTAY 77C CS
*4H=0 4PRONG
8.0 DEUTSCHMANN 75B
15. BALTAY 77C CS
16. DEUTSCHMANN 75B
23. DEUTSCHMANN 75B CS
*5 4PRONG
8.0 DEUTSCHMANN 75B
15. BALTAY 77C CS
16. DEUTSCHMANN 75B
23. DEUTSCHMANN 75B CS
*G1(6800) 4PRONG
15. BALTAY 77C CS
*KO AKO PI+ PI- ANYTHING
230 FNAL-369
7 FNAL-369
*K$ 4PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP, CS
*P PI+ E- E+ GAMMA
1.0 METZGER 67
*P 2PI+ PI0 PI-
2.00-1.3 FOELSCHE 64B
1.2 BEPTHON 74C CS, MASS
1.6 DARCHIA 66
1.9 CHAPMAN 71
2.1 JAMES 66
2.3 ALFF 62B
ANGELOV 69
ANGELOV 69C
ALFFSTEINBER 66
2.6 ALFF 62B
2.7 ARMENISE 65B
ARMENISE 66
BUHL 73
YAMAMOTO 65
2.8 ALFF 62B
2.9 ALFF 62B
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 RONAT 72
KUONG 63
3.6 GOLDHABER 64B
MACNAUGHTON 71C
MACNAUGHTON 77 CS
SHEN 69
3.7 ABRAMS 70E
MACNAUGHTON 77

PI+ P --> (CONT.)

*P 2PI+ PI0 PI- (CONT.)
3.9 WINKELMANN 68
4.0 ADERHOLZ 65 ANGP, CS
GUY 76 CS
OTTER 74D CS,MASS
4.9 KARSHEN 74B
LYONS 75
5.0 BOCKMANN 70 CS
KARSHEN 74 MASS
OTTER 74D CS,MASS
6.7 POLS 71 ANGP,CS
5.4 BLOODWORTH 71D
BLOCCWORTH 71E
BLOODWORTH 74B
5.7 DAO 70
7.0 SLATTERY 67B CS
7.1 BUHL 73 CS
CMUNG 73B MASS
CMUNG 75B MASS
CMUNG 75D MASS
CMUNG 75E MASS
EISNER 75 CS,MASS
8.0 ADERHOLZ 68D
BARTKE 76B CS,P
COGHEN 71 CS
DEUTSCHMANN 64
OTTER 74D CS,MASS
8.5 KUNG 69
10. ZEMANY 77
12. EVANS 72
13. GAIDOS 74
GAIDOS 75 MASS
MULERA 74 MASS
THOMPSON 74 MASS
15. BALTAY 77D CS, MASS
CAUTIS 77 CS,MASS
CAUTIS 77, CS,MASS
KALELKAR 75 CS, MASS
KALELKAR 75B MASS
16. PALLAM 71D CS
BARTKE 76B CS,P
GRASSLER 74 CS
GRASSLER 76B MASS
OTTER 74D CS,MASS
18. HENES 70
7 BROWN 68 ANGP,CS
*P 2PI+ PI- MM.GE.2
2.7 ARMENISE 66
3.5 RONAT 72
3.6 MACNAUGHTON 71C
4.0 ADERHOLZ 65 ANGP, CS
4.9 KARSHEN 74B
5.0 BOCKMANN 70 CS
KARSHEN 74 MASS
POLS 71 ANGP,CS
8.0 ADERHOLZ 68D
DEUTSCHMANN 64
*P 2PI+ PI- NEUTRALS
3.6 MACNAUGHTON 77 CS
*P 2PI+ PI- NEUTRALS
3.6 MACNAUGHTON 77
3.7 MACNAUGHTON 77
10. ELLIOTT 77B
16. GRASSLER 76D ANG, CS,MASS
*P 2PI+ PI- NEUTRAL(S)
10. ELLIOTT 77B
*P PI+ 3PI0
2.0 JACQUET 69
3.5 NINE 74
3.9 THOMPSON 74 MASS
*P ETA 2PI+ PI-
4.0 BENDAP 66 CS
5.0 DREVERMANN 67 CS
5.4 BLODCWORTH 72B
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71 CS
8.5 KUNG 69
15. BALTAY 77D CS
*P ETA 3CHARGED
16. MALHOTRA 76B CS
*P RHO0 2PI+ PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71 CS
8.5 KUNG 69
15. BALTAY 77D CS
*P RHO0 3CHARGED
16. MALHOTRA 76B CS

PI+ P --> (CONT.)

*P CHEGA 2PI+ PI-
4.0 BENDAR 66 CS
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71 CS
8.5 KUNG 69
15. BALTAY 77D CS
16. BARTKE 76E CS
7 BESETTI 76B CS
*P OMEGA 3CHARGED
16. MALHOTRA 76B CS
*P A1(1100)0+ PI+ PIO PI-
5.0 DREVERMANN 67 CS
*P A1(1100)0 2PI+ PI-
5.0 DREVERMANN 67 CS
8.0 BARDADINOTWI 71 CS
*P A1(1300)- 2PI+ PIO
5.0 DREVERMANN 67 CS
8.0 BARDADINOTWI 71 CS
*P 2PI+ PI- PI-
15. BALTAY 77D CS
*P A2(1310)- 2PI+ PIO
5.0 DREVERMANN 67 CS
15. BALTAY 77D CS
*P K+ KS PI+ PI-
5.0 TOET 73
*P K+ AKO PI+ PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
*P KO AKO PI+ PIO
2.3-2.9 BERLEY 65B
3.6-3.8 BUTLER 70
4.0 BARTSCH 66 CS
8.5 KREBS 71
*P KO AKO PI+ MM.GE.2
4.0 BARTSCH 66 CS
*P KO K- 2PI+
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
10. GODDARD 77
16. GRASSLER 76D ANG, CS,MASS
*P K$ K- 2PI+
5.1 METZEL 70 MASS
*N 3PI+ PI-
1.2 BERTHON 74C CS, MASS
1.6 CARONIAN 66
1.9 CHAPMAN 71
2.1 JAMES 66
2.3 ANGELOV 69C
2.3-2.9 ALFFSTEINBER 66
2.7 ARMENISE 66
2.8 YAMAMOTO 65
2.9-4.1 BROWN 68
3.4-3.5 ABOLINS 63
3.5 RONAT 72
KUONG 63
3.6 GOLDHABER 64B
MACNAUGHTON 71C
MACNAUGHTON 77 CS
3.7 MACNAUGHTON 77
4.0 ADERHOLZ 65 ANGP, CS
5.0 POLS 71 ANGP,CS
8.0 ADERHOLZ 68D CS
COGHEN 71 CS
DEUTSCHMANN 64
8.4 ALAM 74B MASS
10. KENNEDY 77
ZEMANY 77

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)

+N 3PI+ PI- (CONT.)
16. GRASSLER 74 CS
90. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+N 2PI+ PIO PI-
8.4 ALAM 75
+N K+ K- 2PI+
4.0 BARTSCH 66 CS
5.0 TOET 73
+N K0 AK0 2PI+
4.0 BARTSCH 66 CS
8.5 KREBS 71
+N 2K5 2PI+
8.0 ADERHOLZ 69 ANGP,
CS
10. GODDARD 77
+N(1520)I0 2PI+ PIO PI-
8.0 BARCALINOTWI 71
CS
+N(1520)I0 2PI+ PI- MM.GE.2
8.0 BARCALINOTWI 71
CS
+N(1520)I0 3PI+ PI-
8.0 BARDADINOTWI 71
CS
+N(1688)F15)+ 2PI+ PI-
MM.GE.1
8.0 BARDAFINOTWI 71
CS
+N(1700)I+ 2PI+ PIO PI-
8.0 BARDACINOTWI 71
CS
+N(1700)I0 3PI+ PI-
8.0 BARCADINOTWI 71
CS
+DEL++ 2PI+ 2PI-
4.0 BONDAR 66 CS
4.9 EISENBERG 76B
MASS
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
7.1 ALSTENGARD+D 71B
8.0 BARCADINOTWI 71
CS
8.5 KUNG 69
+DEL++ PI+ 2PIO PI-
3.5 RIESTER 75
+DEL++ 4PRONG
15. BALTAY 77C CS
+DEL0 3PI+ PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARCALINOTWI 71
CS
+LAMBDA K+ 2PI+ PI-
5.5 CCOPER 70
8.0 ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+LAMBDA K0 2PI+ PIO
4.0 BARTSCH 66 CS
8.0 ADERHOLZ 69 ANGP,
CS
8.5 KREBS 71
10. GODDARD 77
+LAMBDA K0 2PI+ MM.GE.2
4.0 BARTSCH 66 CS
8.0 ADERHOLZ 69 ANGP,
CS
+LAMBDA 4PRONG
8.0 ADERHOLZ 69 ANGP,
CS
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
+ALAMBDA 4PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
+SIGMA+ K+ PI+ PIO PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
10. GODDARD 77
+SIGMA+ K+ PI+ PI- MM.GE.2
4.0 BARTSCH 66 CS
5.0 TOET 73
10. ZEMANY 77
+SIGMA+ K+ PI+ PI- PIOS
5.0 TOET 73
+SIGMA+ K+ PI+ PI- MM.GE.2
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
8.5 KREES 71
10. GODDARD 77

PI+ P --> (CONT.)

+SIGMA+ 4PRONG
16. BOSETTI 75 ANGP,
CS
+SIGMA0 K+ 2PI+ PI-
8.5 KREBS 71
10. GODDARD 77
+SIGMA- K+ 2PI+ PIO
4.0 BARTSCH 66 CS
10. GODDARD 77
+SIGMA- K0 3PI+
5.0 BARTSCH 66 CS
5.0 TOET 73
8.5 KREBS 71
10. GODDARD 77
+SIGMA- 4PRONG
16. BOSETTI 75 ANGP,
CS
+A(CHARGED) ANYTHING
16. BARTKE 77B ANG,
MASS,MULT
+SPRONG
100 MORSE 76 CS
+PI+ 5PRONG
8.0 BOSETTI 73B P
15. BALTAY 77C CS
16. BOSETTI 73B P
18. GO 75
23. BOSETTI 73B P
+PI- 5PRONG
15. BALTAY 77C CS
+K0 4PRONG NEUTRAL(S)
4.0 BARTSCH 66 CS
+2K5 4PRONG
15. BALTAY 77C CS
16. BOSETTI 75 ANGP,
CS
+K+(1892)+ 5PRONG
15. BALTAY 77C CS
+P 3PI+ 2PI-
2.1 JAMES 66
3.6 MACNAUGHTEN 71D
MACNAUGHTON 77 CS
MACNAUGHTON 77 P
3.7 MACNAUGHTON 77
4.0 BENSINGER 76 CS
5.0 DEUTSCHMANN 75 P,
PT
DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 ADERHOLZ 68D
AJDUK 70
BARDACINOTWI 71
CS
BARTKE 76B CS,P
BIEBL 75 ANG,MASS,
P,PT
COGHEN 71 CS
DEUTSCHMANN 75 P,
PT
GRASSLER 74B MASS,
P
KUNG 69
PRATAP 73 ANG
BALTAY 75C CS,
MASS
BALTAY 77D CS,
MASS
KALELKAR 75 CS,
MASS
BARTKE 76B CS,P
BARTKE 77B ANG,
MASS,MULT
BIEBL 75 ANG,MASS,
P,PT
BOESEBECK 71 CS
FITCHER 74 CS,P
BOTTCHER 76 MASS,
P
DEUTSCHMANN 75 P,
PT
GRASSLER 74B MASS,
P
GRASSLER 76D ANG,
CS,MASS
PRATAP 73 ANG
DEUTSCHMANN 75 P,
PT
GRASSLER 74B MASS,
P
150 FNAL-299 ANGP
+P 2PI+ 2PIO PI-
3.5 RIESTER 75
5.4 BLOODWORTH 72B
8.0 ANL-E-436 FV

PI+ P --> (CONT.)

+P 2PI+ PI- GAMMA(S)
ANYTHING
10. ELLIOTT 77B
+P 2PI+ PI- VEE(S) ANYTHING
10. ELLIOTT 77B
+P ETA 2PI+ PI-
8.0 ANL-E-436 FV
+P RHO0 2PI+ 2PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71
CS
15. BALTAY 77D CS
+P RHO0 2PI+ PIO PI-
5.3 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71
CS
15. BALTAY 77D CS
+P RHO- 3PI+ PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDACINOTWI 71
CS
15. BALTAY 77D CS
+P F 2PI+ PIO PI-
4.0 BARTSCH 66 CS
8.0 BARDADINOTWI 71
CS
15. BALTAY 77D CS
+P A2(1310)+ 2PI+ 2PI-
15. BALTAY 77D CS
+P A2(1310)+ 3PI+ PI-
15. BALTAY 77D CS
+P K+ AK0 PI+ PI0 PI-
4.3 BARTSCH 66 CS
5.3 TOET 73
5.5 CCOPER 70
13. GODDARD 77
+P K+ AK0 PI+ PI- PIOS
5.0 TOET 73
+P K0 AK0 2PI+ PI-
5.3 TOET 73
8.5 KREBS 71
+P KO K- 2PI+ PIOS
5.0 TOET 73
+P K0 K- 2PI+ PIO
4.0 BARTSCH 66 CS
5.0 TOET 73
8.5 CCOPER 70
10. GODDARD 77
+P K0 KS 2PI+ PI-
13. GODDARD 77
+P NEUTRON(S) 2PI+ PI-
ANYTHING
10. ELLIOTT 77B
+P 5PRONG
15. BALTAY 77C CS
18. GO 75
205 TRILLING 74B CS,
MASS
+N RHO0 3PI+ PI-
8.0 BARDADINOTWI 71
CS
+N F 3PI+ PI-
8.0 BARDADINOTWI 71
CS
+N K+ AK0 2PI+ PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
5.5 CCOPER 70
10. GODDARD 77
+N K+ AK0 2PI+ PI0(S)
5.0 TOET 73
+N K0 K- 3PI+
4.0 BARTSCH 66 CS
5.5 CCOPER 70
10. GODDARD 77
+N(1520)I0 3PI+ PI0 PI-
8.0 BARDACINOTWI 71
CS
+N(1520)I0 3PI+ PI- MM.GE.2
8.0 BARDACINOTWI 71
CS
+N(1700)I+ 3PI+ PI0 PI-
8.0 BARDADINCTWI 71
CS
+N(1700)I0 3PI+ PI- MM.GE.2
8.0 BARDADINCTWI 71
CS
+DEL++ 2PI+ PI0 2PI-
4.0 BONDAR 66 CS
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINCTWI 71
CS
8.5 KUNG 69
+DEL+ 3PI+ 2PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71
CS
+DEL0 3PI+ PI0 PI-
5.0 DREVERMANN 67 CS
7.0 SLATTERY 67B CS
8.0 BARDADINOTWI 71
CS
+DEL- 4PI+ PI-
8.0 BARDADINCTWI 71
CS
+LAMBDA K+ 2PI+ PI0 PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
8.0 ADERHOLZ 69 ANGP,
CS
10. GODDARD 77
+LAMBDA K+ 2PI+ PI- MM.GE.2
4.0 BARTSCH 66 CS
+LAMBDA K0 3PI+ PI-
8.0 ADERHOLZ 69 ANGP,
CS
+LAMBDA K0 4PRONG
15. BALTAY 77C CS
16. BOSETTI 75 CS
+LAMBDA ALAMBDA 4PRONG
15. BALTAY 77C CS
16. BOSETTI 75 CS
18. LICHTMAN 76
+ALAMEDA K0 4PRONG
15. BALTAY 77C CS
+SIGMA+ K+ 2PI+ 2PI-
10. GODDARD 77
+SIGMA+ K0 2PI+ 2PI PI-
5.0 TOET 73
10. GODDARD 77
+SIGMA+ K0 2PI+ PI- PIOS
5.0 TOET 73
+SIGMA+ K0 2PI+ PI- MM.GE.2
4.0 BARTSCH 66 CS
+SIGMA+ K5 4PRONG
16. BOSETTI 75 CS
+SIGMA0 K0 3PI+ PI-
10. GODDARD 77
+SIGMA- K+ 3PI+ PI-
10. GODDARD 77
+SIGMA- K0 3PI+ PIOS
5.0 TOET 73
+SIGMA- K0 3PI+ PIO
5.0 TOET 73
10. GODDARD 77
+SIGMA- K0 4PRONG
16. BOSETTI 75 CS
+SIGMA- 4PRONG NEUTRAL(S)
4.0 BARTSCH 66 CS
+SIGC1385P13)+ 5PRONG
15. BALTAY 77C CS
+UNCHARGED
15. CAUTIS 75 P
+5PRONG
5.0 DREVERMANN 67 CS
7.0 STONE 71
8.0 ADERHOLZ 68C
BARDADINOTWI 71
CS
10. ELLIOTT 77
15. BALTAY 77C CS
BALTAY 77D CS
CAUTIS 77 CS
ELLIOTT 77 CS
BALLAM 71B CS
16. POWERS 73
50. ARGOPZHANOV 74 CS
FRANCESCHIET 74C
CS
100 ERWIN 74B CS
MORSE 76 CS

REACTION/MOMENTUM INDEX (CONT'D)

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PI+ P --> (CONT.)
+GAMMA 6PRONG
  15.   BALTAY 77C      CS I
+GAMMA(S) 6PRONG
  18.   BISWAS 74          I
+PI0(S) 6CHARGEC          I
  10.   ELLIOTT 77         I
  15.   ELLIOTT 77      CS I
+PI+ PI- PI- MM,GE+2      I
  3.6   MACNAUGHTON 71C   I
  4.0   BONDAR 66      CS I
  5.0   DREVERMANN 67   CS I
  8.0   BARCADINOTWI 71     I
                        CS I
+PI+ 2PI- MM,GE.1         I
  3.6   MACNAUGHTON 77   CS I
+PI+ 2PI- NEUTRALS        I
  3.6   MACNAUGHTON 77      I
  3.7   MACNAUGHTON 77      I
+PI0 6PRONG               I
  15.   BALTAY 77C       CS I
+RHO0 6PRONG              I
  8.0   DEUTSCHMANN 75B     I
                        CS I
  15.   BALTAY 77C       CS I
  16.   DEUTSCHMANN 75B     I
                        CS,
                      MASS I
  23.   DEUTSCHMANN 75B     I
                        CS I
+F 6PRONG                 I
  8.0   DELTSCHMANN 75B     I
                        CS I
  15.   BALTAY 77C       CS I
  16.   DEUTSCHMANN 75B     I
                        CS,
                      MASS I
  23.   DEUTSCHMANN 75B     I
                        CS I
+KS 6PRONG                I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                        CS I
+P 3PI+ PI0 2PI-          I
  3.6   MACNAUGHTON 71D     I
  3.7   MACNAUGHTON 77   CS I
  4.0   BONDAR 66        CS I
  5.0   DECKMANN 70      CS I
        DREVERMANN 67    CS I
        KARSHEN 74     MASS I
  7.0   SLATTERY 67B     CS I
  8.0   ADERHOLZ 68D        I
        BARCADINOTWI 71     I
                        CS I
        BARTKE 76B    CS,P I
        CCGHEN 71        CS I
        KUNG 69             I
  8.5                       I
  15.   BALTAY 77D       CS, I
                      MASS I
        KALELKAR 75      CS, I
                      MASS I
  16.   BARTKE 76B       CS,P I
        GRASSLER 76D        I
                    CS,MASS I
+P 3PI+ 2PI- MM,GE+2      I
  3.6   MACNAUGHTON 71D     I
  4.0   BONDAR 66        CS I
  5.0   DREVERMANN 67    CS I
  8.0   BARCADINOTWI 71     I
                        CS I
+P 3PI+ 2PI- MM,GE.1      I
  3.6   MACNAUGHTON 77   CS I
+P 3PI+ 2PI- NEUTRALS     I
  3.6   MACNAUGHTON 77      I
  3.7   MACNAUGHTON 77      I
+P 3PI+ 3PI0 PI-          I
  5.4   BLOODWORTH 72B      I
+P ETA 3PI+ 2PI-          I
  3.8   KLANG 69            I
  15.   BALTAY 77D       CS I
+P ETA 5CHARGED           I
  16.   MALHOTRA 76B     CS I
+P ANGO 3PI+ 2PI-         I
  15.   BALTAY 77D       CS I
+P RHO0 5CHARGED          I
  16.   MALHOTRA 76B     CS I
+P OMEGA 3PI+ 2PI-        I
  8.5   KUNG 69             I
  15.   BALTAY 77D       CS I
  16.   BARTKE 76B       CS I
+P OMEGA 5CHARGEC         I
  16.   MALHOTRA 76B     CS I
+P F 3PI+ 2PI-            I
  15.   BALTAY 77D       CS I
  ?     BALTAY 77D       CS I
                            I
                            I

PI+ P --> (CONT.)
+P A2(1310) + 2PI+ PI0 2PI-
  15.   BALTAY 77D       CS I
+P A2(1310)0 3PI+ 2PI-
  15.   BALTAY 77D       CS I
+P A1(1310)- 3PI+ PI0 PI-
  15.   BALTAY 77D       CS I
+P K+ AK0 2PI+ 2PI-       I
  10.   GODDARD 77          I
+P K0 K- 3PI+ PI-         I
  10.   GODDARD 77          I
+P 2KS 2PI+ PI0 PI-       I
  5.0   TOET 73            I
  10.   GODDARD 77          I
+P 2KS 2PI+ PI- PI0S      I
  5.0   TOET 73            I
+N 4PI+ 2PI-              I
  3.6   MACNAUGHTON 71C     I
                MACNAUGHTON 77   CS I
  3.7   MACNAUGHTON 77      I
  4.0   BONDAR 66        CS I
  5.0   DREVERMANN 67    CS I
  8.0   ADERHOLZ 68C        I
                BARCADINOTWI 71  I
                            CS I
+N 3PI+ PI0 2PI-          I
  8.4   ALAM 76         MASS I
+N 3PI+ PI0 2PI-          I
  8.4   ALAM 75             I
+N K+ AK0 2PI+ PI- PI0(S) I
  5.0   TOET 73             I
+N K0 K- 3PI+ PI0(S)      I
  5.0   TOET 73             I
+N K0 K- 3PI+ PI0S        I
  5.0   TOET 73             I
+N 2KS 3PI+ PI-           I
  10.   GODDARD 77          I
+DEL++ 3PI+ PI-           I
  8.5   KUNG 69             I
+DEL++ 6PRONG             I
  15.   BALTAY 77C       CS I
+LAMBDA K+ 3PI+ 2PI-      I
  8.0   ADERHOLZ 69    ANGP, I
                            CS I
  10.   GODDARD 77          I
+LAMBDA K0 3PI+ PI0 PI-   I
  8.0   ADERHOLZ 69    ANGP, I
                            CS I
  8.0   ADERHOLZ 69    ANGP, I
                            CS I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+LAMBDA 6PRONG            I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA+ K+ 2PI+ PI0 2PI-  I
  10.   GODDARD 77          I
+SIGMA+ K0 3PI+ 2PI-      I
  10.   GODDARD 77          I
+SIGMA+ 6PRONG            I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA0 K+ 3PI+ 2PI-      I
  10.   GODDARD 77          I
+SIGMA- K+ 3PI+ PI0 PI-   I
  10.   GODDARD 77          I
+SIGMA- 6PRONG            I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA(CHARGED) ANYTHING  I
  16.   BARTKE 77B    ANG, I
                MASS,MULT I
+PI+ 7PRONG               P I
  8.0   BOSETTI 73B        P I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 73B      P I
  18.   GD 75               I
  23.   BOSETTI 73B      P I
+PI- 7PRONG               I
  15.   BALTAY 77C       CS I
+2KS 6PRONG               I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+K* B921+ 7PRONG          I
  15.   BALTAY 77C       CS I
                            I
                            I

PI+ P --> (CONT.)
+P 4PI+ 3PI-              I
  8.0   ADERHOLZ 68D          I
        BARTKE 67             CS I
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        GRASSLER 76D        I
                    CS,MASS I
  8.5   KUNG 69             I
  16.   BARTKE 76B       CS,P I
+N 4PI+ 3PI-              I
  8.0   ADERHOLZ 68C          I
        BARTKE 67             CS I
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        GRASSLER 76D        I
                    CS,MASS I
+P 5PI+ 4PI-              I
  8.0   ADERHOLZ 68C          I
        BARTKE 67             CS I
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        GRASSLER 76D        I
                    CS,MASS I
+P 6PI+ 5PI-              I
  8.0   ADERHOLZ 68C          I
        BARTKE 67             CS I
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        GRASSLER 76D        I
                    CS,MASS I
+P ETA 4PI+ 3PI-          I
  8.0   ADERHOLZ 68C          I
        BARTKE 67             CS I
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        GRASSLER 76D        I
                    CS,MASS I
+P OMEGA 4PI+ 3PI-        I
  16.   BARTKE 76B       CS I
+P OMEGA 7CHARGED         I
  16.   BARTKE 76B       CS I
+P 2KS 3PI+ PI0 2PI-      I
  10.   GODDARD 77          I
+N 5PI+ 3PI-              I
  8.0   ADERHOLZ 68C          I
        BARTKE 67             CS I
        CCGHEN 71        CS I
        CCGHEN 71B          ANG I
+DEL++ 8PRONG             I
  15.   BALTAY 77C       CS I
+LAMBDA K0 4PI+ PI0 2PI-  I
  10.   GODDARD 77          I
+LAMBDA 8PRONG            I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+ALAMBDA 8PRONG           I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA+ K0 3PI+ PI0 2PI-  I
  10.   GODDARD 77          I
+SIGMA+ 8PRONG            I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA- K0 4PI+ PI-       I
  10.   GODDARD 77          I
+SIGMA- K0 4PI+ PI0 PI-   I
  10.   GODDARD 77          I
+SIGMA- 8PRONG            I
  16.   BOSETTI 75    ANGP, I
                            CS I
+SIGMA(CHARGED) ANYTHING  I
  16.   BARTKE 77B    ANG, I
                MASS,MULT I
+PI+ 9PRONG               I
  15.   BALTAY 77C       CS I
  18.   GD 75               I
+PI- 9PRONG               I
  15.   BALTAY 77C       CS I
+2KS 8PRONG               I
  15.   BALTAY 77C       CS I
  16.   BOSETTI 75    ANGP, I
                            CS I
+P 5PI+ 4PI-              I
  8.0   ADERHOLZ 68C          I
        ANJOLA 73     ANG,CS, I
                            PT
        BARTKE 76B       CS,P I
        CCGHEN 71        CS I
        ESKREYS 68       CS I
  15.   BALTAY 77D       CS I
        KALELKAR 75      CS, I
                      MASS I
```

REACTION/MOMENTUM INDEX (CONT'D)

PI+ P --> (CONT.)
--- ---
+P 5PI+ 4PI- (CONT.)
16. BARTKE 76B CS,P
+P RHOO 7CHARGED M'SURALS
16. MALNDTRA 76B CS
+P 9PRONG
15. BALTAY 77C CS
18. GO 75
+LAMBDA KS 8PRONG
15. BALTAY 77C CS
16. BOSETTI 75 CS
+LAMBDA 8PRONG
15. BALTAY 77C CS
+LAMBDA ALAMBDA 8PRONG
15. BALTAY 77C CS
16. BOSETTI 75 CS
+ALAMBDA KS 8PRONG
15. BALTAY 77C CS
+SIGMA+ KS 8PRONG
16. BOSETTI 75 CS
+SIGMA- KS 8PRONG
16. BOSETTI 75 CS
+10PRONG
7.0 STONE 71
8.0 ADERHOLZ 68C
BARTKE 67 CS
ESKREYS 68 CS
15. BALTAY 77C CS
EALTAY 77D CS
CAUTIS 77 CS
16. BALLAM 71B CS
18. POWERS 73
50. AKOPDZHANDV 74 CS
FRANCESOVIET 74C
100 MORSE 76 CS
+GAMMA 10PRONG
15. BALTAY 77C CS
+GAMMA(5) 10PRONG
18. BISWAS 74
+8PI+ 4PI- MM.GE.2
8.0 ADERHOLZ 68D
+PI0 10PRONG
15. BALTAY 77C CS
+RHO0 10PRONG
8.0 DEUTSCHMANN 75B
CS
15. BALTAY 77C CS
16. DEUTSCHMANN 75B
CS,
MASS
23. DEUTSCHMANN 75B
CS
+P 10PRONG
8.0 DEUTSCHMANN 75B
CS
15. BALTAY 77C CS
16. DEUTSCHMANN 75B
CS,
MASS
23. DEUTSCHMANN 75B
CS
+K 10PRONG
15. BALTAY 77C CS
+P 5PI+ PIO 4PI-
8.0 ADERHOLZ 68C
ANIOLA 73 ANG,CS,
PT
BARTKE 76B CS,P
COGHEN 71 CS
ESKREYS 68 CS
15. BALTAY 77D CS
KALELKAR 75 CS,
MASS
16. BARTKE 76B CS,P
+P 5PI+ 4PI- PIOS
8.0 ANIOLA 73 ANG,CS,
PT
+P 5PI+ 4PI- MM.GE.2
8.0 ADERHOLZ 68C
+N 6PI+ 4PI-
8.0 ADERHOLZ 68C
ANIOLA 73 ANG,CS,
PT
COGHEN 71 CS
*ESKREYS 68 CS
+DEL++ 10PRONG
15. BALTAY 77C CS
+LAMBDA 10PRONG
15. BALTAY 77C CS
+ALAMBDA 10PRONG
15. BALTAY 77C CS
+PI+ 11PRONG
15. BALTAY 77C CS
16. GO 75

PI+ P --> (CONT.)
--- ---
+PI- 11PRONG
15. BALTAY 77C CS
+2K5 10PRONG
15. BALTAY 77C CS
+P 6PI+ 5PI-
8.0 BARTKE 76B CS
15. BALTAY 77D CS
16. BARTKE 76B CS
+P 11PRONG
15. BALTAY 77C CS
GO 75
+N 6PI+ 4PI- PIOS
8.0 ANIOLA 73 ANG,CS,
PT
+LAMBDA KS 10PRONG
15. BALTAY 77C CS
+2LAMBDA 10PRONG
15. BALTAY 77C CS
+LAMBDA ALAMBDA 10PRONG
15. BALTAY 77C CS
+12PRONG
15. BALTAY 77C CS
BALTAY 77D CS
CAUTIS 77 CS
18. POWERS 73
100 ERWIN 74B CS
MORSE 76 CS
+GAMMAIS) 12PRONG
18. BISWAS 74
+PI0 12PRONG
15. BALTAY 77C CS
+RHO0 12PRONG
8.0 DEUTSCHMANN 75B
CS
16. DEUTSCHMANN 75B
CS,
MASS
23. DEUTSCHMANN 75B
CS
+P 12PRONG
8.0 DEUTSCHMANN 75B
CS
16. DEUTSCHMANN 75B
CS,
MASS
23. DEUTSCHMANN 75B
CS
+KS 12PRONG
15. BALTAY 77C CS
+P 6PI+ PIO 5PI-
8.0 BARTKE 76B CS
15. BALTAY 77D CS
16. BARTKE 76B CS
+LAMBDA 12PRONG
15. BALTAY 77C CS
+PI+ 13PRONG
18. GO 75
+14PRONG
15. BALTAY 77C CS
BALTAY 77D CS
CAUTIS 77 CS
18. POWERS 73
50. AKOPDZHANDV 74 CS ?
FRANCESOVIET 74C ?
100 ERWIN 74B CS
MORSE 76 CS
? ERWIN 74B CS
+16PRONG
50. AKOPDZHANDV 74 CS
FRANCESOVIET 74C
100 ERWIN 74B CS
MORSE 76 CS
+18PRONG
100 ERWIN 74B CS
MORSE 76 CS
+20PRONG
100 ERWIN 74B CS
*MORSE 76 CS ?
+ANYTHING + PI+ P
18. POWERS 73
+MU- HADRONS
+ MU+ HADRONS
15. BUNNELL 76
+- PI+ P
+ PI+ ANYTHING
8.0 BOSETTI 73B P
16. BOSETTI 73B P
23. BOSETTI 73B P

PI+ P --> (CONT.)
--- ---
+AZ(13103)+ DEL++
+ F DEL++
? TOET 73
+P PRONG - PI+ P
18. GO 75
+2PRONG
+ 3PRONG
1.3 KALBFLEISCH 74C
PASS
1.6 KALBFLEISCH 74C
+MU- ANU HADRONS
+ MU+ NU HADRONS
15. HEUSCH 76
+K+ AKO ANYTHING
+ K0 K- ANYTHING
8.5 KREBS 71
+K+ K- ANYTHING
+ K0 AKO ANYTHING
16. BOSETTI 75 CS
+P PI+ PIO
+ N 2PI+
.40-1.6 ROSENFELD 74B
.63 WILLIS 59
+P PI+ MM.GE.2
+ 2PI+ MM.GE.2
.91 TILGER 66
+P PI+ MM.GE.2
+ 2PI+ MM.GE.2
.94 DEBEER 69B
+N(17800)I+ PI+ PIO
+N(17890)I+ 2PI+
8.0 ADERHOLZ 69 ANGP,
CS
+LAMBDA K+ PI+
+ SIGMA0 K+ PI+
2.8 YAMAMOTO 66
4.0 BARTSCH 66 CS
+LAMBDA K+ ANYTHING
+ SIGMA0 K+ ANYTHING
8.5 KREBS 71
16. BOSETTI 75 CS
+LAMBDA K0 ANYTHING
+ SIGMA0 K0 ANYTHING
8.5 KREBS 71
16. BOSETTI 75 CS
+P A1(1103)+ PI+ PI-
+ P A1(1100)+ 2PI+
5.0 DREVERMANN 67 CS
8.0 BARDADINOTWI 71
CS
+P B(12351)+ PI+ PI-
+ P B(12351)- 2PI+
5.0 DREVERMANN 67
8.0 BARDADINOTWI 71
CS
+P A2(1310)+ PI+ PI-
+ P A2(1310)+ 2PI+
5.0 DREVERMANN 67 CS
8.0 BARDADINOTWI 71
CS
+LAMBDA K+ PI+ PI0(S)
+ SIGMA0 K+ PI+ PI0(S)
5.0 TOET 73
+LAMBDA K+ PI+ PI0
+ LAMBDA K0 2PI+
2.3-2.9 BERLE+ 65B
+SIGMA0 K0 2PI+
? 1.9 DAGAN 67B
2.8 YAMAMOTO 66
4.0 BARTSCH 66 CS
+P 2PI+ PI- MM.GE.2
+ 3PI+ PI- MM.GE.2
8.0 BARDADINOTWI 65
+P A1(1100)+ PI+ PI0 PI-
+ P A1(1100)- 2PI+ PI0
8.0 BARDADINOTWI 71
CS
+P A2(1310)+ PI+ PI0 PI-
+ P A2(1310)+ 2PI+ PI-
8.0 BARDADINOTWI 71
CS
+P K+ AKO PI+ PI-
+ P K0 K- 2PI+
8.0 SABAU 71 CS
8.5 KREBS 71
+LAMBDA K+ 2PI+ PI-
+ SIGMA0 K+ 2PI+ PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
+LAMBDA K0 2PI+ PI0(S)
+ SIGMA0 K0 2PI+ PI0(S)
5.0 TOET 73
+ P PRONG - PI+ P
*16.0 TOET 73

PI+ P --> (CONT.)
--- ---
+LAMBDA K0 3PI+ PI-
+ SIGMA0 K0 3PI+ PI-
4.0 BARTSCH 66 CS
5.0 TOET 73
+P 4PI+ 3PI- MM.GE.1
+ 5PI+ 3PI- MM.GE.2
8.0 ADERHOLZ 68C
+P 5PI+ 4PI- MM.GE.2
+ 6PI+ 4PI- MM.GE.2
ESKREYS 68
-- PI+ P
+ PI+ PRONG
16. GO 75
+- PI+ P
+ 2PRONG
50. FRANCESOVIET 74C
CF
+2PRONG
+ 3PRONG + 4PRONG
1.3 KALBFLEISCH 74C
MASS
1.6 KALBFLEISCH 74C
+5PRONG
+ 6PRONG + 7PRONG
1.3 KALBFLEISCH 74C
1.6 KALBFLEISCH 74C
+3PRONG
+ 4PRONG + 5PRONG
+ 11PRONG
1.3 KALBFLEISCH 74C
1.6 KALBFLEISCH 74C
****
PI+ N -->

+(NOT ENCODED)
.40-1.2 KORFFAAMC 73B
1.3 ALLEY 71B
4.0 CHARLESWORTH 74
12. KEMP 71
13. GAIDOS 72B
PALER 72
? SMITH 70C
+RHO0
4.0 CHARLESWORTH 73B
+STRANGE
5.2 METTEL 7C
+ST.2PRONG
130 VANDERVELDE 76B
MULT
+N(PRONG)
195 EISENBERG 75C
MULT
+ANYTHING
15.-80. CENSOV 71
+INELASTIC
100 LYS 77 CS
+GAMMA P
2.2 BRAUN 73F MASS
+SIGMA P
2.2 BRAUN 73F MASS
+PI+ N
6.0-22. GALBRAITH 65
+PI+ NI(4702)I0
7.0 CARROLL 74B CS
+PI+ NI(1523)I(1)0
7.0 CARROLL 74B CS
+PI+ NI(1688)I(1)
7.0 CARROLL 74B CS
+PI+ OELO
7.0 CARROLL 74B CS
7 MILLER 65
+PI+ ANYTHING
100 MANLON 76 ANGP,CS,
MASS
+PI0 P
2.2 BRAUN 73F ANGP,CS
6.0 BRUYANT 68
CERN-S-137 POL
7 FOKINO 64
KRESPER 64
MULLER 64B
PAULI 63
+PI- DEL++
1.1-2.3 MANNING 69
+ETA P
1.1-2.4 CARBURG 69
1.5 KATZ 71
2.2 BRAUN 73F CS
3.6 BEASCN 68B
4.0 EMMS 75E MASS,PWA
5.1 ARMENISE 68D
5.4 FARBER 71
7.0 BRUYANT 68B
CERN-S-137 PCL
12. KEMP 75

REACTION/MOMENTUM INDEX (CONT'D)

PI+ N --> (CONT.)

*ETA P (CONT.)
7 BACON 67
BENSON 69
CCHN 67
DANBURG 70
KRAEMER 64
LITCHFIELD 69
MILLER 69
MUSGRAVE 71B
PAULI 63
+EPSILON(1700) P
2.3 STRUGALSKII 70 .
+KHO+ DELO
5.4 FARBER 71
12. KEMP 75
7 GHIDINI 68
+RHOO P
1.1-2.3 MANNING 69
1.5 KATZ 71
1.7 BACON 65B
3.0-4.0 GELFAND 65
3.3 DUGG 68B
CCHN 66
4.0 EMMS 74 ANGP
5.1 ARMENISE 68D
ARMENISE 68
5.4 FARBER 71
6.0 DADD 74 ANGP,CS;
DNE,MASS
OERCSNY 66
7.0 CARROLL 71
MATTHEWS 71B
9.0 ARMENISE 70B
12. KEMP 75
15. RICHEY 76B ANG,CS
7 ARMENISE 70
MILLER 69
MUSGRAVE 71B
+RHOO N
4.0 CHARLESWORTH 74
+RHOO DEL++
5.1 ARMENISE 68
+RHOO DEL+
5.4 FARBER 71
12. KEMP 75
+RHOO ANYTHING
6.0 DIBIANCA 76 DNE,P
EISNER 77 ANGP,CS;
DNE,P,PT
+OMEGA P
1.1-2.4 DANBURG 69
1.9 KATZ 71
1.7 BACON 65B
>2.0 GIGAL 71
2.2 BRAUN 73F CS
2.3 STRUGALSKII 69B
3.6 BENSON 68E
BENSON 68C
HENYEY 68
4.0 EMMS 74 ANGP
EMMS 75E MASS,PWA
SCHREMPP 75B DNE
4.2 ABRAMS 69
5.1 ARMENISE 68C
ARMENISE 68
5.4 FARBER 71
6.0 ANDERSON 73C
ANL-E-380 ANGP,
DNE
6.5 MATTHEWS 71
12. KEMP 75
7 ARMENISE 70
BACON 67
BENSON 69
CCHN 65
CCHN 67
DANBURG 70
KRAEMER 64
MILLER 69
MUSGRAVE 71B
+OMEGA N
4.0 CHARLESWORTH 74
+ETAPRIME P
1.1-2.4 BAQER 69
2.1 BENSINGER 70
2.7-3.1 MILLER 71C
3.6 BENSON 68B
5.1 PICCIARELLI 70
7 BACON 67
CCHN 68B
MILLER 69
+H(990) P
7 COHN 67
+S*(1993) P
5.1 METTEL 70
5.4 FARBER 71

PI+ N --> (CONT.)

+RHO P
3.6 BENSON 68B
5.1 METTEL 70
5.4 FARBER 71
7 DAVIES 70
+A1(1120)10 P
5.4 FARBER 71
7 MILLER 69
+EPSILON(1200) P
7.0 CARROLL 72
+F P
3.0-4.0 GELFAND 65
3.3 COHN 66
4.0 CHARLESWORTH 73B
EMMS 74 ANGP
5.1 ARMENISE 68D
ARMENISE 68
FOGLIMUCIACC 72
METTEL 70
PICCIARELLI 70
5.4 FARBER 71
STUNTEBECK 70
6.0 DADD 74 ANGP,CS;
DNE,MASS
DERCSNY 66
DERDSKY 67
DERDSKY 67
7.9 BLOG 73B
9.0 EFIMENKO 72B
FOGLIMUCIACC 72
12. KEMP 72B
KEMP 75
KEMP 75
SCARROTT 71
15. RICHEY 76B ANG,CS
7 ARMENISE 70
MILLER 69
MUSGRAVE 71B
+F DEL+
12. KEMP 75
+D12851 P
2.7-3.1 MILLER 71C
7 CAMPBELL 69
+A2(1310)+ N
5.1 METTEL 70
+A2(1310)+ DEL0
5.1 PICCIARELLI 70
+A2(1310)0 P
4.0 EMMS 75 ANGP,CS;
DNE
EMMS 75E MASS,PWA
5.1 ARMENISE 68D
ARMENISE 68E
METTEL 70
5.4 FARBER 71
6.0 DIAZ 74 ANGP,CS
6.9 MATTHEWS 71D
7 ARMENISE 67
ARMENISE 70
BENSON 66
COHN 67
MILLER 69
+E(1420) P
2.7-3.1 MILLER 71C
+PRIME P
2.7-3.1 MILLER 71C
6.0 BENSON 68B
5.1 METTEL 70
+CHEGA(1675) P
5.1 ARMENISE 68E
6.9 MATTHEWS 71D
MATTHEWS 71E
+G(1680)+ N
5.1 METTEL 70
+G(1680)0 P
5.1 ARMENISE 68D
METTEL 70
PICCIARELLI 70
5.4 FARBER 71
6.0 DERDSKY 66
7.0 MATTHEWS 71C
9.0 ARMENISE 70B
12. KEMP 75
15. RICHEY 76B ANG,CS
7 ARMENISE 70
MUSGRAVE 71B
+G(1680)0 DEL+
5.1 PICCIARELLI 70
12. KEMP 75
+K+ LAMBDA
2.0-2.3 MCGPE 70
5.1 METTEL 70
METTEL 73

PI+ N --> (CONT.)

+K+ LAM(1405)01
2.0-2.3 MOORE 70
+K+ LAM(1520)031
2.0-2.3 MOORE 70
7 DAVIES 70
GARFINKEL 69
+K+ SIGMA0
2.0-2.3 MOORE 73
5.1 METTEL 70
+K+ SIG(1385)310
2.0-2.3 MOORE 70
7 ABOLINS 69
+K0 SIGMA+
1.1-2.4 DAVIES 73
2.0-2.3 MOORE 73
5.1 METTEL 70
+K0 SIG(1385)31+
1.8 MOCH 72B
2.0-2.3 MOORE 70
4.0 MOCH 72B
7 ABOLINS 69
+K*(892)+ LAMBDA
2.0-2.3 MOORE 73
+K*(892)+ SIGMA0
2.0-2.3 MOORE 70
+K*(892)0 SIGMA+
2.0-2.3 MOORE 70
+P .GT.7GAMMA
2.3 STRUGALSKII 71
+P .GT.0GAMMA
2.3 STRUGALSKII 71
+P .GT.5GAMMA
2.3 STRUGALSKII 71
+P .GT.4GAMMA
2.3 STRUGALSKII 71
+P .GT.3GAMMA
2.3 STRUGALSKII 71
+P .GT.2GAMMA
2.3 STRUGALSKII 71
+P .GT.1GAMMA
2.3 STRUGALSKII 71
+P .GE.2
2.2 BRAUN 73F ANGP,
MASS
7 ARMENISE 70
+PEDRO E+
150 FNAL-331 ANGP,P
+PI+ PI- ANYTHING
6.0 EISNER 77 MASS
+K0S K0CN ANYTHING
5.1 METTEL 73
+P 2GAMMA
2.2 BRAUN 73F MASS
2.3 STRUGALSKII 71
+P PI+ PI-
1.1-2.3 MANNING 69
3.0 AYRES 73C
WICKLUND 77 ANGP,
CS,MASS
4.0 AYRES 73C
CHARLESWORTH 73B
MARTIN T+C AMP
WICKLUND 77 ANGP,
CS,MASS
5.1 DURHAMGENDA 74 P
5.4 STUNTEBECK 70
6.0 AYRES 73C
TOAFF 73
WEISSER 73
WICKLUND 77 ANGP,
CS,MASS
7.0 CARROLL 71B
CARROLL 72 PWA
JH ANG
12. BARRIER 75
DURHAMGENCA 74
KEMP 75
KEMP 75
LOSKIEWICZ 73
13. PALER 70D
15. RICHEY 76 ANG,CS,
MASS,P
RICHEY 76B ANGP,
CS,MASS,P,PT
? ARMENISE 70
BACON 67
FGRINO 64
LITCHFIELD 69
+P 2PI0
2.1 BENSINGER 71B
2.2 BRAUN 73F AMP,ANG,
ANGP,CS,MASS,
PWA

PI+ N --> (CONT.)

+P 2PI0 (CONT.)
? BENSINGER 71
PAULI 63
+P ETA PI0
2.3 STRUGALSKII 71
+P K+0 PI-
5.1 PURRC 71
5.4 FARBER 71
7 MILLER 69
+P RHO0 PI0
5.1 PURRO 71
5.4 FARBER 71
7 MILLER 69
+P RHO- PI+
5.1 PURRC 71
5.4 FARBER 71
+P .K*0 K+
5.4 FARBER 71
6.0 CCHEN 76 MASS
PAWLICKI 76 AMP,
ANG
PAWLICKI 76C ANG,
ANGP,CS,MASS
PAWLICKI 76D AMP,
ANGP,MASS,PWA
7 DAVIES 70
PAWLICKI 76 AMP,
ANG
+P K0 AK0
5.1 METTEL 70
+P .SIGS
2.0-2.3 MCGPE 70
5.1 METTEL 70
+P K0 KL
2.0-2.3 MCGPE 70
5.1 METTEL 70
+N RHO0 PI+
5.1 MURRO 71
7 MILLER 69
+N K+ KS
5.1 METTEL 70
+N K+ AK0
2.0-2.3 MCGPE 70
+DEL++ PI0 PI-
5.4 FARBER 71
+DEL+ PI+ PI-
5.4 FARBER 71
7 MILLER 69
+DELO PI+ PI0
5.4 FARBER 71
7 MILLER 69
+DEL- 2PI+
7 MILLER 69
+LAMBDA K+ PI0
2.0-2.3 MOORE 70
5.1 METTEL 70
+LAMBDA K0 PI+
2.0-2.3 MOORE 70
5.1 METTEL 70
+SIGMA+ K+ PI-
2.0-2.3 MOORE 70
5.1 METTEL 70
+SIGMA+ K0 PI0
2.0-2.3 MOORE 70
5.1 METTEL 70
+SIGMA0 K0 PI+
2.0-2.3 MOORE 70
5.1 METTEL 70
+SIGMA+ K+ PI-
2.0-2.3 MOORE 70
5.1 METTEL 70
+SIG(1385)P13)0 K+ PI-
2.0-2.3 MOORE 70
+SIG(1385P13)- K+ PI+
2.0-2.3 MOORE 70
+HYPERON K0(S) ANYTHING
5.1 METTEL 70
+P 3GAMMA
2.2 BRAUN 73F MASS
+P PI+ PI0 PI-
4.0 EMMS 75 MASS,PWA
EMMS 75E MASS,PWA
4.5 FGRINO 65B
5.1 ARMENISE 68E
DURHAMGENCA 74 P
PICCIARELLI 75
ANGP,CS+MASS,
T
5.4 FARBER 71
6.0 AML-E-380 MASS
9.0 PICCIARELLI 75
ANGP,CS+MASS,
PT
12. BARRIER 75
DURHAMGENCA 74
KEMP 75

REACTION/MOMENTUM INDEX (CONT'D)

PI+ N --> (CONT.)

•P PI+ PIO PI- (CONT.)
LOSKIEWICZ 73
13. BARTON 70B
15. RICHEY 76 ANG,CS,
MASS,P
7 ARMENISE 70
BACON 67
FORINO 64
•P PI+ PI- PIOS
7 BACON 67
•P PI+ PI- MM,GE+1
1.7 BACON 67
7 FERINO 64
•P PIO 2GAMMA
2.3 STRUGALSKII 71
•P 3PIO
2.2 BRAUN 73F CS,MASS
•P ETA PI+ PI-
2.7-3.1 MILLER 71C
6.0 ANL-E-380 MASS
•P RHOO PI+ PI-
2.7-3.1 MILLER 71C
5.1 PICCIARELLI 70
•P OMEGA PI+ PI-
2.7-3.1 MILLER 71C
5.1 PICCIARELLI 70
•P K+ KS PI-
5.1 METTEL 70
•P 2KS PIO
5.1 METTEL 70
•P KS K- PI+
5.1 METTEL 70
•N 2PI+ PI-
4.5 FORINO 65B
7 THERMES 71
•DEL++ PI+ 2PI-
2.7-3.1 MILLER 71C
5.1 PICCIARELLI 70
•DELO 2PI+ PI-
5.1 PICCIARELLI 70
•LAMBDA K+ PI+ PI-
2.0-2.3 MCCRE 70
•LAMBDA KO PI+ PIO
2.0-2.3 MOORE 70
5.1 METTEL 70
•SIGMA+ K+ PIO PI-
5.1 METTEL 70
•SIGMA+ KO PI+ PI-
5.1 METTEL 70
•SIGMA- K+ PI+ PIO
5.1 METTEL 70
•SIGMA- KO 2PI+
5.1 METTEL 70
•4PRONG
195 EISENBERG 75C CS
•P 4GAMMA
2.2 BRAUN 73F MASS
•P 2PI+ 2PI-
1.1-2.4 RADER 69
5.1 BARRIER 75 ANGP,
PI
DURHAMGENOA 74 P PI
LOSKIEWICZ 73
ANGP
12. BARRIER 75
BARRIER 75
DURHAMGENOA 74
LESTIENNE 73
LOSKIEWICZ 73
LOSKIEWICZ 73
13. BADENITZ 75B
7 BACON 67
•P K+ KS PIO PI-
5.1 METTEL 70
•P KO KS PI+ PI-
5.1 METTEL 70
•P 2KS PI+ PI-
5.1 METTEL 70
•P KS K- PI+ PIO
5.1 METTEL 70
•P K+ KS PI+ PI-
5.1 METTEL 70
•N KS K- 2PI+
5.1 METTEL 70
•LAMBDA K+ PI+ PIO PI-
5.1 METTEL 70
•LAMBDA KO 2PI+ PI-
5.1 METTEL 70
•SIGMA+ KO PI+ PIO PI-
5.1 METTEL 70
•SIGMA+ KO 2PI+ PIO
5.1 METTEL 70
•5PRONG
12. MOREIRABRAND 75

PI+ N --> (CONT.)

•P 2PI+ PIO 2PI-
5.1 DURHAMGENOA 74 P
12. BARRIER 75
DURHAMGENOA 74
LESTIENNE 73
LOSKIEWICZ 73
13. BADENITZ 75B
7 BACON 67
•P 2PI+ 2PI- MM,GE+2
1.1-2.4 RADER 69
•P 2KS PI+ PIO PI-
5.1 METTEL 70
•N 3PI+ 2PI-
13. BADENITZ 75B
•LAMBDA KO 2PI+ PIO PI-
5.1 METTEL 70
•6PRONG
195 EISENBERG 75C CS
•2PI+ 2PIO 2PI- ANYTHING
3.5 RIESTER 75B
•P 6GAMMA
2.3 STRUGALSKII 71
•8PRONG
195 EISENBERG 75C CS
•10PRONG
195 EISENBERG 75C CS
•12PRONG
195 EISENBERG 75C CS
•14PRONG
195 EISENBERG 75C CS
•16PRONG
195 EISENBERG 75C CS
•18PRONG
195 EISENBERG 75C CS
•20PRONG
195 EISENBERG 75C CS
•22PRONG
195 EISENBERG 75C CS
•24PRONG
195 EISENBERG 75C CS
•OMEGA P
+ RHOO P
7.0 CARROLL 74B CS
•A2(1310)0 P
+ P
5.4 FARBER 71
•P DELTA(1670)+ PI+
2.7-3.1 MILLER 71C
•LAMBDA K+ PI+ PI-
+ DIBAR K+ PI+ PI-
5.1 METTEL 70
•P 2PI+ PIO 2PI-
+ P 2PI+ 2PI- GAMMA
1.1-2.4 RADER 69
****
PI+ NUCLEON -->

•(NOT ENCODED)
20.-70. MORRISON 74B MANY
100 LYS 77 1
100-400 WHITMORE 76 CS,
MASS,MULT,P
•PI+ NUCLEON
3.-200 PIETARINEN 75 PWA
•A3(PS1(3100)0 ANYTHING
150 PILCHER 75 CS Y
•ANYTHING CHARGED P
20.-200 AZIMOV 75G P
•NUCLEON OMEGA PI+ PIO
3.5 RIESTER 75C
•NUCLEON 2PI+ 2PIO PI-
3.5 RIESTER 75C
•NUCLEON 2PI+
•NUCLEON PI+ PI-
0.-2.0 LCNGACRE 74 PWA
****
PI+ DEUT -->

•(NOT ENCODED)
0.-300 EINGORN 74C
.24-.37 GABATHULER 73E
.29 NOREM 68
.60-.85 MULLER 66B
.65-.85 PAULI 63
PAULI 64
.80-.86 LITCHFIELD 65
.82 BALTAY 66C
BALTAY 67B
BALTAY 67C
BAZIN 67
KIM 69
LARRIEE 66
LITCHFIELD 67
LITCHFIELD 68
ZACHER 68

PI+ DEUT --> (CONT.)

•(NOT ENCODED) (CONT.)
1.0 OLSEN 70
OLSEN 70B
1.1-2.3 MANNING 69 CS
SMITH 68
1.1-2.4 DANBURG 69
DANBURG 69B
DANBURG 69D
DANBURG 70 ANGP,
CS
DAVIES 69B
RADER 72
1.2 KRAEMER 64
PEVSNER 61
1.5 KATZ 71
1.8-2.3 TERRELL 70
1.8-3.3 DAUBER 69B
1.9-4.2 ABELIUS 69
2.0-2.3 %CORE 70
2.1 BENSINGER 70
BENSINGER 71
BENSINGER 71B
BRAUN 68
CLINE 69B
CLINE 70E
2.7 CAMPBELL 69 CS
CAMPBELL 69D
CAMPBELL 69E
GARFINKEL 69 CS
GEZELTER 68B
GUTAY 69
MILLER 69C
MILLER 70B
3.1 MILLER 70B
3.2 COHN 65
3.3 COHN 65B
COHN 669
COHN 67
JELFAND 64B
3.6 BENSON 64
BENSON 66
BENSON 66D
BENSON 69
CHAUDHARY 70B
FISHER 69
3.7 CAMPBELL 69D
4.3 CHARLESWORTH 73B
4.4 ADAMS 69
4.5 FERINO 64
5.3 VANDERHAGHEN 69
5.4 ARMENISE 67 CS
ARMENISE 68E CS
ARMENISE 70 ANGP,
CS
GHIOINI 68
METTEL 73
MURRO 71 CS
MURRO 71B
5.4 FARBER 71 ANGP,CS
STUNTEBECK 70
6.0 BRUYANT 64B ANGP,
CS
DERGSNY 67
DERGSNY 67
6.9 MATTHEWS 71
MATTHEWS 71D
MATTHEWS 71F
7.3 CARROLL 70
DIAMOND 72
MATTHEWS 71B CS
MORSE 71
OH 69
7.9 BUGG 72B
8.0 CMOPS 68
12. HUC 72
KEMP 71
SCARROTT 72
13. BARTON 72
MILLER 71E
PALER 71B
PALER 71C
TEBES 72
15. GOLDHABER 73B
WIND 72
15.-60. PAULI 73
100 LYS 77
200 FINAL-25S
7 KRAEMER 62
•EXOTIC-MESON
BRABSON 75B
•.GT.3PRONG
100 OADD 75 CS
•.GT.2PRONG
100 VANDERVELDE 76B
CS,
MULT

PI+ DEUT --> (CONT.)

•MIPRONG
100 OADD 75 MULT
LYS 77 MULT
200 BRAUN 75B MULT
•ANYTHING
.25 NOREM 71
.47-2.7 CARTER 68
0.4-20. CALDERWITH 65 CS
15.-60. DENISOV 71 CS
GORIN 710
20.-500 FINAL-10A CS
23. CARROLL 76E CS
23.-260 KOHLER 75
35. CARROLL 76E CS
50. CARROLL 76E CS
50.-200 CARROLL 74E CS
70. CARROLL 76E CS
100 CARROLL 76E CS
LYS 76 MULT
LYS 77 CS
120 CARROLL 76E CS
150 CARROLL 76E CS
170 CARROLL 76E CS
200 CARROLL 76E CS
BONAT 75 CS
240 CARROLL 76E CS
7 GALBRAITH 65 CS
•PI+ DEUT
.16-.23 ANDERSON 52C
.23-.38 ASHKIN 54
.25 NOREM 71
.37 GABATHULER 73
ANGF
.50-6.3 GAMIMOT 72
1.0-2.4 COOL 70
GIACCMELLI 66
2.5-6.0 BAKER 63E
3.6 HSIUNG 68
HSIUNG 69
25.-200 FINAL-39S ANGF
•PI+ ANYTHING
50. FNAL-118A ANGF
100 FNAL-118A ANGP
150 FNAL-118A ANGP
•PI- ANYTHING
6.0 SREEDHAR 74B CS,
MULT,P
7.9 BUGG 73B
24. SREEDHAR 73
SREEDHAR 74 P,P?
SREEDHAP 74B CS,
MULT,P
50. FNAL-118A ANGF
100 FNAL-118A ANGF
150 FNAL-118A ANGF
290 RONAT 75 P,P?
7 ANDERSON 73E
•A2(1310)+ DEUT
6.0 CIAZ 75
8.0 CMOPS 69 CS
15. MORSE 75
•A2(1310)+ DEUT
6.9 NAPPISON 72
•A3(1640)+ DEUT
15. MORSE 75
•K+ ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
•K- ANYTHING
50. FNAL-118A ANGF
100 FNAL-118A ANGF
150 FNAL-118A ANGF
•2P
.29 NOREM 71
.65-1.9 GERKERS 64
1.2-1.5 RICHARDSEPRE 70
1.4-1.8 GERKERS 64
•P ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
7 TAUTZ 76 ANGP,CS,
MASS
150 FNAL-118A ANGP
•AP ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
•DELO DEL++
4.0 EMMS 74B CS
•DEUT ANYTHING
25.-200 FNAL-39S ANGP,P
•CHARM ANYTHING
15. HAGOPIAN 75 CS

REACTION/MOMENTUM INDEX (CONT'D)

P1+ DEUT --> (CCNT.)

*VEE HADRONS
15. HAGOPIAN 76B CS
+2PRONG
15. RICHEY 76 CS
+ANYTHING STRANGES
7.0 LYNCH 73B
+ANYTHING STRANGE(S)
2.7-4.2 HOCH 72C
+2PI- ANYTHING
6.0 SREEDHAR 74B CS,
MULT,P
24. SREEDHAR 74 CS
SREEDHAR 74B CS,
MULT,P
+K+ PI- ANYTHING
15. HAGOPIAN 75 MASS
+2KS ANYTHING
15. WILKINS 75 ANG,
ANGP,CS,MASS
WILKINS 75B ANGP, P
*P(SPECT) PI- MP(RECNG) CS,MASS
195 EISENBERG 76 MULT
EISENBERG 76C
MULT
*P(SPECT) P PI0
.29 NORDP 71
7.0 CARROLL 74B P,GP,
CS,MASS
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P ETA
3.6 BENSON 66E
4.2 GORDON 70B
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P RHO0
3.3 COHN 66
3.6 LOVELL 68
4.0 EMMS 74 CS
5.1 ARMENISE 68C CS
7.0 CARROLL 74B ANGP,
CS
*P(SPECT) P EMEGA
3.6 BENSON 66E
4.0 EMMS 74 CS
EMMS 75B ANGP,CS,
DME
4.2 GORDON 70B
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P ETAPRIME
3.3 BLDG 68B
*P(SPECT) P NI(950)
3.6 BENSON 66E
*P(SPECT) P A1(1160)C
4.2 GORDON 70B
*P(SPECT) P F
3.3 COHN 66
3.6 LEVELL 68
4.0 EMMS 74 CS
EMMS 75B ANGP,CS
5.1 ARMENISE 68C CS
6.0 ANDERSON 73 ANG,
ANGP,DME
7.0 CARROLL 74B ANGP,
CS
*P(SPECT) P A2(1310)0
3.6 BENSON 66E
4.2 GORDON 70B
*P(SPECT) P OMEGA(1675)
4.0 GORDON 70B
*P(SPECT) P G1(1680)0
5.1 ARMENISE 68C CS
6.0 GOLDBERG 65 CS
7.0 CARROLL 74B CS
MATTHEWS 71C ANGP,
CS
*P(SPECT) P MM,GE.2
7.0 CARROLL 74B ANGP,
CS,MASS
9.0 ARMENISE 70B CS
*P(SPECT) P NEUTRAL(1S)
5.1 ARMENISE 68C CS
14. SLAC-BC-063 FV,
MASS
*P(SPECT) DEL++ RHO-
4.2 GORDON 70B
*P(SPECT) DEL+ PI0
7.0 CARROLL 74B CS
*P(SPECT) DEL+ RH00
4.2 GORDON 70B
*P(SPECT) DEL0 RH0+
3.6 BENSON 66E
4.2 GORDON 70B

P1+ DEUT --> (CCNT.)

*P(SPECT) LAMBDA K+(B921)+
1.6-4.3 HOCH 72
*N(SPECT) P PI+
.53 DANERELL 75
*N(SPECT) P A1.5(1170)+
5.1 ARMENISE 69 ANGP,
CS
*N(SPECT) P A2(1310)+
5.1 ARMENISE 69 ANGP,
CS
*N(SPECT) P A2(1660)+
5.1 ARMENISE 69 ANGP,
CS
*2P PI0
.25 NOREM 71
4.2 FORINO 65
*2P ETA
4.5 FORINO 65
*2P EPSILON(700)
4.5 FORINO 65
*2P RH00
4.5 FORINO 65
*2P F
4.0 EISENSTEIN 70
4.5 FORINO 65
6.1 BRUYANT 64C
12. KEMP 72
*2P OMEGA(1675)
4.0 KENYON 69 CS
*2P MM,GE.2
4.5 FORINO 65
6.1 BRUYANT 64C
*P LAMBDA K+
1.1-2.4 DAVIES 70
*P SIGMA0 K+
1.1-2.4 DAVIES 70
*P SIGMA0 K+
1.1-2.4 DAVIES 70
*DEL++ DEL- PI+
15. HORNE 74 ANG,CS
*LAMBDA KS ANYTHING
15. WILKINS 75 CS,
MASS
*LAMBDA ALAMBDA ANYTHING
15. WILKINS 75 CS
*DEUT ETA PI+
14. SLAC-BC-063 FV,
MASS
*DEUT RHO0 PI+
5.4 DEERY 71 CS
6.0 DIAZ 75
15. HORNE 75 MASS
DEUT(2170)0 2PI+
15. HORNE 75 ANG
DEUT(2170)++ PI+ PI-
6.0 DIAZ 75
15. HORNE 75 ANG
*3PRONG
15. RICHEY 76 CS
100 LYS 77 CS
*3PI- ANYTHING
24. SREEDHAR 74 CS
*K+ PI+ PI- ANYTHING
15. HAGOPIAN 75 MASS
*DD PI+ PI- ANYTHING
15. HAGOPIAN 75 CS
*P(SPECT) KS PI+ MM,GE.2
15. WILKINS 75 MASS
*P(SPECT) P PI+ P-
2.7 MILLER 69 ANGP,CS
4.0 EMMS 74 MASS
EMMS 75B MASS
4.2 GORDON 70B
5.1 ARMENISE 68C CS
7.0 CARROLL 74B ANGP,
CS
7.9 HORNE 72 CS
9.0 ARMENISE 70B CS
15. PEWITT 75 CS,MASS,
P
*P(SPECT) P 2PI0
7.0 CARROLL 74B ANG,
CS
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P ETA PI0
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P ZETA
7.0 CARROLL 74B MASS
*P(SPECT) P RH0+ PI-
3.6 BENSON 66E
4.2 GORDON 70B
*P(SPECT) P RH00 PI0
3.6 BENSON 66E
4.2 GORDON 70B

P1+ DEUT --> (CCNT.)

*P(SPECT) P RH0- PI+
3.6 BENSON 66E
4.2 GORDON 70B
*P(SPECT) P F PI0
4.2 GORDON 70B
*P(SPECT) P A2(1310)+
4.2 GORDON 70B
*P(SPECT) P K+ K-
4.0 EMMS 75B CS,MASS
*P(SPECT) DEL++ PI0 PI-
4.2 GORDON 70B
*P(SPECT) DEL+ PI+ PI-
4.2 GORDON 70B
*P(SPECT) LAMBDA P(1+ MM,GE.2
WILKINS 75 MASS
*N(SPECT) P PI+ PI0
14. SLAC-BC-063 FV,
MASS
*2P PI+ PI-
3.0 KRAMER 74B ANGP,
MASS
4.0 KRAMER 74B ANGP,
MASS
4.5 FORINO 65 MASS
6.0 ENGLER 74C ANG,
ANGP,CS,MASS,
PWA
KRAMER 74B ANGP,
MASS
*2P 2PI0
2.1 BRAUN 72C
*2P 2KS
1.1-2.4 DAVIES 70
*2P RS KL
1.1-2.4 DAVIES 70
*P N K+ AK0
1.1-2.4 DAVIES 70
*P LAMBDA K+ PI0
1.1-2.4 DAVIES 70
*P LAMBDA K0 PI+
1.1-2.4 DAVIES 70
*P SIGMA0 K0 PI+
1.1-2.4 DAVIES 70
*N LAMBDA K+ PI+
1.1-2.4 DAVIES 70
*N SIGMA+ K0
1.1-2.4 DAVIES 70
*DEUT 2PI+ PI-
3.6 BACON 67
4.0 EMMS 75D ANGP,CS,
MASS,PWA
E15ENSTEIN 73C
FORINO 65B
5.4 DEERY 70 CS
DEERY 71 CS
6.0 DIAZ 75
VEGNI 65 CS
6.9 HARRISON 72
7.0 HARRISON 72B
13. PALER 70C
PALER 71
THOMPSON 74B MASS,
PWA
15. GLUCH 76 ANP,ANG,
ANGP,MASS,P
HORNE 75 ANGP,CS,
MASS,P
PEWITT 75 ANGP,CS,
MASS
7 THERMES 71
*DEUT PI+ 2PI0
14. SLAC-BC-063 FV,
MASS
*4CHARGED
12. BARRIER 73
*4PRONG
15. RICHEY 76 CS
100 LYS 77 CS
*4PI- ANYTHING
24. SREEDHAR 74 CS
*P(SPECT) P PI+ PI0 PI-
2.7 MILLER 69 ANGP,CS
4.0 EMMS 74B MASS
EMMS 75B CS,MASS
4.2 GORDON 70B
5.1 ARMENISE 68C CS
6.0 GOLDBERG 65 CS
7.0 CARROLL 74B ANGP,
CS
7.9 HORNE 72 CS
9.0 ARMENISE 70B CS
15. PEWITT 75 CS,MASS,
P
*P(SPECT) P PI+ PI-
3.0 KRAMER 74B ANGP,
MASS
4.0 KRAMER 74B ANGP,
MASS
4.5 FORINO 65 MASS
6.0 ENGLER 74C ANG,
ANGP,CS,MASS,
PWA
KRAMER 74B ANGP,
MASS
*P(SPECT) P PI+ PI-
2.7-3.1 MILLER 71C CS
*P(SPECT) P RH00 PI+ PI-
4.0 EMMS 74B CS,MASS
5.1 PICCIARELLI 70 CS
6.0 ANDERSON 73 ANG,
ANGP,CS
7.0 CARROLL 74B ANGP,
CS
*P(SPECT) P F PI+ PI-
4.2 GORDON 70B
*P(SPECT) P A2(1310)+
4.2 GORDON 70B
*P(SPECT) P K+ K-
4.0 EMMS 75B CS,MASS
*P(SPECT) P PI+ PI-
2.7-3.1 MILLER 71C CS
*P(SPECT) P RH00 PI+ PI-
4.0 EMMS 74B CS,MASS
5.1 PICCIARELLI 70 CS
6.0 ANDERSON 73 ANG,
ANGP,CS
7.0 CARROLL 74B ANGP,
CS
*P(SPECT) P F PI+ PI-
4.2 GORDON 70B
*P(SPECT) P ETA PI+ PI-
14. SLAC-BC-063 FV,
MASS
*P(SPECT) P OMEGA(1675)
4.0 GORDON 70B
*P(SPECT) P G1(1680)0
5.1 ARMENISE 68C CS
6.0 GOLDBERG 65 CS
7.0 CARROLL 74B CS
MATTHEWS 71C ANGP,
CS
*P(SPECT) P MM,GE.2
7.0 CARROLL 74B ANGP,
CS,MASS
9.0 ARMENISE 70B CS
*P(SPECT) P NEUTRAL(1S)
5.1 ARMENISE 68C CS
14. SLAC-BC-063 FV,
MASS
*P(SPECT) DEL++ RH0-
4.2 GORDON 70B
*P(SPECT) DEL+ RH00
7.0 CARROLL 74B CS
*P(SPECT) DEL0 RH0+
4.2 GORDON 70B
*P(SPECT) DELO RHO+
3.6 BENSON 66E
4.2 GORDON 70B

P1+ DEUT --> (CCNT.)

*P(SPECT) P PI+ PI- MM,GE.2
2.7 MILLER 69 ANGP,CS
4.2 GORDON 70B
15. WILKINS 75 MASS
*P(SPECT) P ETA PI+ PI-
2.7-3.1 MILLER 71C CS
*P(SPECT) P RH00 PI+ PI-
13. BADEWITZ 75
*P(SPECT) P F PI+ PI-
13. BADEWITZ 75
*P(SPECT) N 2PI+ PI-
2.7 MILLER 69 ANGP,CS
15. PEWITT 75 CS,MASS,
P
*P(SPECT) DEL++ PI+ 2PI-
13. BADEWITZ 75
*N(SPECT) P 2PI+ PI-
5.1 ARMENISE 69 ANGP,
CS
*2P PI+ PI0 PI-
3.6 CHAUDHARY 70
*P N 2PI+ PI-
1.7 BACON 67
15. HORNE 74 MASS
*P LAMBDA K+ 2PI+ PI-
1.1-2.4 DAVIES 70
*P LAMBDA K0 PI+ PI0
1.1-2.4 DAVIES 70
*DEUT 2PI+ PI0 PI-
15. PEWITT 75 ANGP,CS,
MASS,P
*5PRONG
7.0 MEINERS 72
100 LYS 77 CS
*5PI- ANYTHING
24. SREEDHAR 74 CS
*P(SPECT) P 2PI+ 2PI-
2.7-3.1 MILLER 71C CS
7.0 CARROLL 74B CS,
MASS
*P(SPECT) P RHO0 PI+ PI0 PI-
13. BADEWITZ 75
*P(SPECT) P F PI0 PI+ PI-
13. BADEWITZ 75
*P(SPECT) DEL++ PI+ PI0 2PI-
13. BADEWITZ 75
*P(SPECT) LAMBDA 2PI+ PI-
MM,GE.2
15. WILKINS 75 MASS
*P(SPECT) LAMBDA K0 2PI+ PI-
15. WILKINS 75 MASS
*2P 2PI+ 2PI-
1.1-2.4 RADER 69
*DEUT 3PI+ 2PI-
15. PALER 71
*6PRONG
7.0 MEINERS 72
15. RICHEY 76 CS
100 LYS 77 CS
*6PI- ANYTHING
24. SREEDHAR 74 CS
*P(SPECT) 3PI+ 3PI- MM,GE.2
2.7-3.1 MILLER 71C CS
*P(SPECT) P 2PI+ PI0 2PI-
2.7-3.1 MILLER 71C CS
3.3 BUGG 68B
5.1 PICCIARELLI 70 CS
13. BADEWITZ 75
24. DIAZ 74 MASS
*P(SPECT) P 2PI+ 2PI-
MM,GE.2
2.7-3.1 MILLER 71C CS
3.3 BUGG 68B
5.1 PICCIARELLI 70 CS
*P(SPECT) N 3PI+ 3PI-
2.7-3.1 MILLER 71C CS
*P 3PI+ 2PI- MM,GE.2
1.1-2.4 RADER 69
*2P 2PI+ 2PI- MM,GE.2
1.1-2.4 RADER 69
*DEUT 2PI+ PI- --> A3(1640)+
DEUT
13. PALER 71
*7PRONG
100 LYS 77 CS

REACTION/MOMENTUM INDEX (CONT'D)

PI+ DEUT --> (CONT.)
PI+ PE --> (CONT.)
PI+ C --> (CONT.)
PI+ CU --> (CONT.)
PI+ HE3 -->
PI+ HE -->

REACTION/MOMENTUM INDEX (CONT'D)

PI+ XE --> (CONT.)
*N(PI0) ?CHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) 8CHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) SCHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) 10CHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) 11CHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) 12CHARGED
2.3 MULLER 75
3.5 MULLER 75
*N(PI0) 13CHARGE
2.3 MULLER 75
3.5 MULLER 75
PI+ TA -->
*P ANYTHING
.15 JACKSEN 77
.33 JACKSEN 77
*DEUT ANYTHING
.15 JACKSEN 77
.33 JACKSEN 77
PI+ WT -->
*(NOT ENCODED)
0.-300 EISNORN 74C
PI+ P8 -->
*(NOT ENCODED)
1.0 SEGLER 73
10. GREEN 71
19. GREEN 71
*NEC+ARGED)
.50 BEISEK 76
1.0 BEISER 76 MULT
2.0 BEISER 76 MULT
3.0 BEISEF 76 MULT
*ANYTHING
.15-.43 CARRELL 76
50. MASUDA 76F
100 MASUDA 76F
*PIONS P8
300 FNAL-304
*N(PI0) ANYTHING
300 FNAL-304 MULT
PI+ PB
9.4 BLIEDEN 75
*PI+ ANYTHING
300 FNAL-304 P
*PI- ANYTHING
300 FNAL-304 P
*P ANYTHING
300 FNAL-304 P
PI+ U -->
*(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
10. GREEN 71
19. GREEN 71
*PIONS U
300 FNAL-304
*N(PI0) ANYTHING
300 FNAL-304 MULT
*PI+ U
9.0 BLIEDEN 75
*PI+ ANYTHING
300 FNAL-304 P
*PI- ANYTHING
300 FNAL-304 P
*P ANYTHING
300 FNAL-304 P
PI+ NUCLEUS -->
*(NOT ENCODED)
.0007-.030
HECKMAN 69
.10 GRASHIN 69
.18-.29 BATUSOV 70
.21-1.9 PENETTI 69
.32 GRASHIN 69
.82 MERFIN 70B
.93 BULLOCK 68
2.3 SLOWINSKI 68
15. BEMPORAD 72

PI+ NUCLEUS --> (CONT.)
*(NOT ENCODED) (CONT.)
17.-67. KHOSHMUKHAME 72
60. DALKHAZHAV 72
200 FNAL-339 ANGP
? CERN-HA-001 FV
? BANGBLI 66
? MASNOU 71
*N(PRONG)
100 FNAL-178 MULT
200 FNAL-178 MULT
*INELASTIC
0.0-60. DENISOV 73
*GAMMA ANYTHING
60. BORICENKO 74
*E- ANYTHING
100-350 FNAL-258 ANGP
*E+ ANYTHING
100-350 FNAL-258 ANGP
*MU- ANYTHING
100-350 FNAL-258 ANGP
? BNL-654 P
? FNAL-379
*MU+ ANYTHING
100-350 FNAL-258 ANGP
? BNL-654 P
? FNAL-379
*PI+ ANYTHING
100-350 FNAL-258 ANGP
*PI- ANYTHING
100-350 FNAL-258 ANGP
*ETA ANYTHING
2.3 STRUGALSKII 70B
? STRUGALSKII 70B
*B(12351)+ NUCLEUS
12. ARNOLD 73B
*G(16R0)+ NUCLEUS
12. ARNOLD 73B
*J/PSI(3100)0 ANYTHING
200 BLANAR 75C
? BNL-654 P
*K+ ANYTHING
100-350 FNAL-258 ANGP
*K- ANYTHING
100-350 FNAL-258 ANGP
*P ANYTHING
100-350 FNAL-258 ANGP
*AP ANYTHING
100-350 FNAL-258 ANGP
*DEUT ANYTHING
100-350 FNAL-258 ANGP
*ADEUT ANYTHING
100-350 FNAL-258 ANGP
*ANYTHING HADRONS
? FNAL-379
*2GAMMA ANYTHING
2.3 STRUGALSKII 70B
? BNL-654 MASS
*PU- MU+ ANYTHING
225 BRANSON 77 CS
? FNAL-379
*PI0 GAMMA ANYTHING
2.3 STRUGALSKII 70B
? STRUGALSKII 70B
*2PI0 ANYTHING
2.3 STRUGALSKII 70B
*K+ PI- ANYTHING
? BNL-654 MASS
*K- PI+ ANYTHING
? BNL-654 MASS
*NUCLEUS PI+ PI0
12. ARNOLD 73C
ARNOLD 76B
*NUCLEUS 2PI0
2.3 STRUGALSKII 69
*PU- 2MU+ ANYTHING
225 BRANSON 77 CS,
MASS,P
*3MUON ANYTHING
225 ANDERSON 76I CS
*PI0 2GAMMA ANYTHING
2.3 STRUGALSKII 70B
*2PI0 GAMMA ANYTHING
2.3 STRUGALSKII 70B
? STRUGALSKII 70B
*3PI0 ANYTHING
2.3 STRUGALSKII 70B
? STRUGALSKII 70B
*NUCLEUS 2PI+ PI-
3.9 VASILKOVA 73C
12. ARNOLD 76B
*NUCLEUS PI+ 2PI0
12. ARNOLD 76B
*2MU- 2MU+ ANYTHING
225 BRANSON 77 CS

PI+ NUCLEUS --> (CONT.)
*ARUON ANYTHING
225 ANDERSON 76I CS
*NUCLEUS 2PI+ PI0 PI-
12. ARNOLD 73C
ARNOLD 76B
*NUCLEUS 3PI+ 2PI-
12. ARNOLD 73C
ARNOLD 76B
PI+ UNSPEC -->
*(NOT ENCODED)
? LACH 76
PIC PI0 -->
*(NOT ENCODED)
? BOTKE 70
*2PI0
.22-2.8 SKUJA 73
PIO P -->
*RHO P
15. KAUNE 73
PIO NUCLEON -->
*(NOT ENCODED)
? BAEMIN 77 CS
PIO HE3 -->
*(NOT ENCODED)
? WOLTER 76
PI- E- -->
*(NOT ENCODED)
10. WATERMAN 70
50. ADYLOV 74
*E- PI-
100 FNAL-216 ANGP
200 FNAL-216 ANGP
FNAL-446 ANGP
PI- PI+ -->
*(NOT ENCODED)
.15-59. WALKER 73D
.27-1.2 BATON 72
.44-1.4 ESTABROOKS 73
? APEL 72C
BISWAS 69
CHAN 73C
GRAYER 72C
HAGOPIAN 73E
HAGOPIAN 73B
MYHRA 70B
JACQUES 73
KARTAMYSHEV 73C
MALAMUD 73
PEWITT 71
ROBERTSON 73
*PI- PI+
3.
1.0-1.6 SPINIVASAN 75
.75-3.1 KARAMYSHEV 76
.75-7.9 JACQUES 74
1.1-1.1 ESTABROOKS 75
1.42-5.0 MARTIN 76B
3.4-11. HYAMS 75
3.5-11. FRIDGART 75
? WAGNER 74 PWA
*K- K+
2.2-5.0 MARTIN 76B
PI- PI0 -->
*(NOT ENCODED)
? BATON 69
BATON 73C
BATON 72
KARTAMYSHEV 73C
MANARDV 70B
*PI- PI0
.75-7.6 JACQUES 74
PI- PI- -->
*(NOT ENCODED)
.080-7.1 BEKETOV 70C
.15-3.6 ABE 69
.15-59. WALKER 73D
8.0 DZIERBA 70
? ALBRIGHT 69
BISWAS 69

PI- PI- --> (CONT.)
MAKAROV 70B
*(NOT ENCODED) (CONT.)
*INELASTIC
2.2-5.7 LOSTY 74B
*2PI-
.63-5.7 LOSTY 74B
PI- P -->
*GAMMA ANYTHING
.14 ULLRICH 74
PI- P -->
*(NOT ENCODED)
BAILEY 7C
BUGG 72
BURGER 72
DEVONS 69
PETRUKHIN 71
VASILEVSKII 69
0.-1.6 BAPEYRE 69
0.-300 EISNORN 74C
0.-500 CIDDENS 74 ANGP,
CS,MANY,PCL
0.-2.0 LANGBEIN 73B
0.-1.40 ZIDELL 77
0.-1.80 COLTEN 70C
0.-1.0 MAKAROV 73C
0.-2.0 WAGNER 71
0.-2.8 AYED 70
.10-2.1 ALPEMED 72
.10-1000 ROBINSON 73
.18-.41 RUSSEY 73
.18-.43 CARTER 73B
.22-.38 PAYIER 7C
.24-.35 PLENDL 72
.30 VASILEVSKII 69C
.32 BERARDO 71B
BERARDO 72
.34 BLOKHINTSEVA 68
.35-.50 MAKAROV 71
.36 BATUSOV 61
BLAIR 70
.39C BEREZHNEV 72
BERTOLUCCI 74
.40-.90 CAVIOSON 72
.40-1.2 KORKEAAHO 73B
.45 BERARDO 71B
BERARDO 72
.46 BLOKHINTSEVA 63B
SAXON 70E
.47-.73 ANISOVICH 68
.48-.50 MAKAROV 61
.49 BERARDO 72
BOTKE 70
BLASBERG 72
SAXON 70B
.50-.90 WEISS 72
.52 KUMAR 65B
.55 SAXON 70B
.57 BLASBERG 72
.62 BLASBERG 72
.71 MULLER 65B
.72-1.0 CERADO 65B
.72-1.2 BRODY 68B
.73 BAYER 72
THALER 72
.74-.77 KENDALL 69
.76 BUNYATOV 67
.81 LAYTER 72
THALER 72
.81-1.4 BOTKE 69
.86 BERTINO 65B
.87-1.6 ABILLEN 72
.88-1.6 HERNDON 72
.94-1.2 HALEEN 71C
.95 BAGLIN 65
1.0 ALEXANDER 61
BARASH 65
CHARRIERE 69
CLELAND 72
DAHLJENSEN 71
SHALLOW 70
1.0-1.2 BOWEN 69
1.0-2.0 LEA 69
1.0-10. BUGAYOV 71F
1.0-200 ORCNKERS 75 AMP
1.1 BARROW 71
CLELAND 72
ELLIS 72
1.1-1.3 BINFORD 65
1.2 BRADAMANTE 69B
GRESSMAN 69
GUTAY 69B
1.3-1.4 COMISO 72

REACTION/MOMENTUM INDEX (CONT'D)

PI- P ~> (CONT.)	(CONT.)	(CONT.)	(CONT.)	(CONT.)	(CONT.)
*(NOT ENCODED) (CONT.)	*(NOT ENCODED) (CONT.)		*(NOT ENCODED) (CONT.)		*(NOT ENCODED) (CONT.)
1.43-3.0 DTT 72	GUTAY 69		FOLEY 73		ESTABROOKS 72
1.4-2.0 LEVI 71	GUTAY 69		GALLOWAY 72		ESTABROOKS 73
1.5 DUFEY 69	KIM 73		HOLLOWAY 72B		REIBAL 7C
DUFEY 69	KUZNETSOV 69C		HULUBEI 70	18.	ALSTONGARWIC 72
1.5-2.5 PONCHOUDHURY 71	KUZNETSOV 70		LANSA 72		BISWAS 72
1.5-4.2 ABOLINS 65	MANI 68		OZAKI 71		LAMSA 72
1.65-8.0 BLEACDY 71G	SCHAIRE 77C		PIOTROWSKA 73		SHEPHARD 72
1.5-14. VECHT 74	VIDOVAU 72B		PROPACH 74	20.	ALLARI 69
1.6 BASILE 71C	LUKE 68B	4.2	SHEPHARD 72B		BALEA 69
1.6-2.3 YOKOSAWA 72C	BEREIGV 70F	4.4	SHEPHARD 72		BALEA 73C
1.7-5.5 FELLINGER 70E	KARTAMYSHEV 73		SKOLSKY 73		BRANDENBURG 68
1.8-6.0 KISTIAKOWSKY 72	KARTAMYSHEV 73C		TAKAHASHI 72C		FOLEY 72
1.9 BELLINI 68	CRENNELL 72B	4.5	BAUD 69		CZAKI 71
ERWIN 61	BARGER 71	4.8	BAUD 72D		SISTERSON 72
ERWIN 61	ASCOLI 68	5.0	BUDAGOV 70E	20.-65.	LEDER 72
1.9-8.0 YOKASAWA 71	BUDAGOV 71M		BUDAGOV 73H	21.	BALEA 73E
2.0 CARMONY 62	BUDAGOV 73D		GODS 68	25.	ANTIPOV 72B
TLLI 69B	CHU 71B		GAITINOV 71		ANTIPOV 73D
2.0-4.0 WALKER 73D	DEUTSCHMANN 72E		GAITINOV 71B		CHEN 71B
2.0-6.0 CHASE 65B	DUSSWIN 74D		REIBAL 70		CCHEN 71
ROWER 70	GENSCH 73		TAKIBAEV 68		DIAMOND 73
2.1 BELLINI 65	HARMS 72		TAKIBAEV 69B		ELBERT 7C
2.1-3.2 MALAMUD 65	HLAVACOVA 73	10.-15.	BAUD 73C		ELBERT 7CB
2.1-6.0 ANTHONY 71	JINA 72B	11.	AFZAL 73		ELBERT 72
ANTHONY 71B	KRUSE 70		BORZATTA 73B		ERWIN 70
MEANLEY 70	POPOVA 74		BOWEN 73B		KIENZLE 73
MEANLEY 72	SCHAFER 69		CASO 68C		LACH 73 CS.MULT
2.3 ALBRIGHT 69	SCHMIDT 73C		CASO 69D		LIPES 69
HAGOPIAN 70E	SCHULTZ 72		CASO 70		NAMIKI 72
OCONNELL 70	SHAPIRO 69		CASO 70B		ROBERTSEN 71
WIECKOWICZ 68	TANG 71		CASO 71		WATERS 69
2.4 BUHL 71	TERREAULT 69		CCHEN 71		ZWEIG 64
CHESHIRE 72B	TREILLE 71		JAROSINIAN 68	40.	ABGURAKHIMOV 72
GARFINKEL 72	WEISBARD 68		JAROSINIAN 72		ABGURAKHIMOV 72B
JACOBEL 72	WERBRCUCK 72		DEUTSCHMANN 72E		ABGURAKHIMOV 72D
SCHULTZ 68B	WILSEN 68	5.0-10.	AMELAND 67		ANGELOV 76M
WILSEN 68	GUTAY 69	5.0-25.	EISENSTEIN 71		ANGELOV 77B
2.7 GUTAY 69	GUTAY 69	5.1	BOGACHEV 69		ANGELOV 77C
GUTAY 69	BOICHI 68B		FC.INC 76		ANGELOV 77E
2.7-5.0 AKERLOF 72C	BUDAGOV 73D		HYAMS 65B		ANTIPOV 72E
2.7-14. BASHIAN 70E	BUDAGOV 73E		HYAMS 69C		ANTIPOV 73D
2.8 BATOK 65B	ASHKAR 68	5.6-7.9	KERF 71		BAATAR 77
GUTAY 69B	PANLICKI 70	5.5	KIENZLE 73		BALEA 72B
JACOBS 72	ALYEA 68	6.0	KITTEL 71		BALEA 72C
2.8-6.9 CARLSON 69	APEL 72		LEWIN 71		BUCHAREST 72
2.9 BARMIA 71C	BELL 68B ANGP,CS		PIOTROWSKA 73		BUDA 73
3.0 ABASHIAN 70	CHEN 71B		RATTI 68		DIDENKO 76
BRABSON 72B	CRENNELL 67B		TOMASINI 72B		GRISHIN 73C
GRAHAM 71	CRENNELL 72B		YABUKI 73		GRISHIN 73E
GRAHAM 72	GALLOWAY 72	12.	BEUSCH 68		GRISHIN 75B
JONES 71D	JOHNSON 73B		JOHNSON 70B		JANESC 73
JONES 72C	POTOCKI 69		JOHNSON 72		SIMA 73
MANTSCH 70	PRICKETT 68		PETERS 72		KLADNITSKAYA 75B
MANTSCH 71	REIBAL 70	13.	BOWEN 73B		LACH 73 CS.MULT
3.0-5.0 CCMFORTH 69	SCARR 72		BRANDENBURG 68		MERLO 73
3.0-6.0 AMBATS 72	SUEN 68		TMUN 72B		PIERRARD 76C AMP
AYRES 73D	SUEN 70	14.	DZIEREA 72	43.	PIERRARD 76C AMP
3.0-13. SCHUEBELIN 67	6.0-11. AMMENDOLA 67	15.	FROGGATT 72	45.	AZIMOV 74G
3.1-3.6 WHITEHEAD 72	6.0-16. OWEN 69B		LEITH 72F		NAMIKI 72
3.1-4.6 VCROBEV 69E	6.0-17. BORGHINI 71E		PRATT 72B		PIERRARD 76C AMP
3.2 ALLEN 68C	DICK 71B	15.-60.	GORIN 72C	50.	AHMOSOV 73C
GUZHAVIN 71	6.2 BEUSCH 70C	16.	AACHEN 73		CARRIGAN 70C
GUZHAVIN 72B	6.7 DICKINSON 69		BALLAM 67D		LACH 73 CS.MULT
VETLITSKII 69C	MIYASHITA 70		BARTSCH 70	60.	BARDEEN 73
VLADIMIRSKII 69	MIYASHITA 72		BARTSCH 72		DALKHAZHAV 70
3.5 AIALTOINOV 65	MIYASHITA 73C		BARTSCH 72C		DALKHAZHAV 72C
3.6 HARVEY 71B	6.9 GERENYI 71		BEAUPRE 71F		FIALKOWSKI 72
HARVEY 71D	7.0 BERENYI 72		BEAUPRE 72B		FURMANSKA 71
JOHNSON 73E	BEUSCH 66		BEAUPRE 72E		RYBICKI 75
3.7 AREFEV 71	CAMPBELL 68		BEAUPRE 72F	65.	ALLABI 69
BARGER 71	CAMPBELL 69B		BELLINI 70	100-150	FNAL-083A ANGP,CS
SHEN 65	CAMPBELL 69C		BIALAS 69	100-400	WHITMORE 76 CS,
3.8 APEL 72	CHAO 73B		BIEBL 73		MASS,MULT,P
3.8-4.2 CAUBER 69B	CHIEN 71		BOESEBECK 72	200	FNAL-260
3.9 ABE 69	CHIKOYAKI 69		BOESEBECK 72B		FNAL-557
ABRAMOVICH 72	DIAMOND 73B		BOESEBECK 73		FOKITIS 76
BERLAD 74C	HSIEH 68		BOSETTI 73E		LEVMAN 77
JOHNSON 73E	HSIEH 70		BOWEN 73B		ROGERS 73B
KISTIAKOWSKY 73	IJAZ 68B		COHEN 71	205	LACH 73 CS.MULT
STENGER 69	IJAZ 69		DEUTSCHMANN 72E	250	FNAL-281
WOHLMUT 69	JOHNSTON 70B		FOLEY 73	300	FNAL-557
3.9-12. HYAMS 70B	MORSE 69		HENECKER 69	300-600	KELLY 75 PNA
4.0 ANKENBRANDT 73B	MORSE 71		HENECKER 71	400	FNAL-557
BARAIK 69	OH 69		HONECKER 72	7	AREFEV 68
BARTSCH 66 CS	TANG 72		JUHNANN 68		BAUD 70E
BEUSCH 70C	7.5 BELTAKOV 68		KITTEL 71		BENECKE 71
BONAMY 67	MULUBEI 70		KOSTKA 74B		BERABOD 70B
BRABSON 72B	7.7 MORSE 70		MATHISON 69		CASHMORE 71
BUCADOV 70D	7.5-20. BALEA 71		PIOTROWSKA 70		CERN-HA-001 FV
CERN-T-227	7.8 KITAGAKI 72		POMORSKI 73		DAKIN 71
FRATI 72	8.0 APEL 72		PROPACH 74		DAKIN 72C
GRISHIN 70B	APEL 72C		STROYNOWSKI 72B		DEUTSCHMANN 72F
GRISHIN 70C	BEAUPRE 71F		YAMADAGNI 71		EISNER 74 MASS,
GRISHIN 71	BELLINI 70	17.	AZIMOV 69B		PNA
GRISHIN 71B	BOSETTI 73E		AZIMOV 74G		FNAL-246
GRISHIN 72	BOWEN 72		AZIMOV 75J		GIFFON 71 AMP

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)	PI- P --> (CONT.)	PI- P --> (CONT.)	PI- P --> (CONT.)
+(NOT ENCODED) (CONT.)	+(NPRONG)	+ANYTHING (CONT.)	+GAMMA ANYTHING (CONT.)
MAGDPIAN 70E	4.9 DZHMUKHADZE 76	CARROLL 76E CS	ABDURAKHIMOV 74F
JANE 75C	MULT	50.-200 CARROLL 76E CS	P
KAFIEV 72	7.5 DZHMUKHADZE 76	70. AYRES 76C CS	ANGELOV 75L P,PT
KHVASTUNOV 72	8.0 POWERS 73	AYRES 76E CS	ANGELOV 76A
KOMAR 69	16. LAUSCHER 76 MULT	100 AYRES 76C CS	BALEA 73B ANGP,P,
KREISLER 71	18. POWERS 73	BUSZA 74 CS	PT
LANJUS 74	20. BALEA 75	BUSZA 75 CS	BALEA 74 CS
LEDNICKY 75	38.-1.E+6 S	CARROLL 76E CS	BUDA 73
NAZARGULOV 76C	ALBINI 75B	120 CARROLL 76C CS	CICENKO 73 P
PETERSEN 74 PHA	40. ABOURAKHIMOV 74D	143 AYRES 76C CS	GERDYUKOV 75 CS
ROTH 72	MULT	147 FCNG 74 CS	GRISHIN 76 P,PT
SCHARENGUIVE 70	ABOURAKHIMOV 74E	FCNG 76C CS	PINTER 72
VANDYCK 68	MULT	150 CARROLL 76E CS	100 FNAL-268 ANGP
WANG 70B	ABESALASHVIL 74B	FNAL-299 CS	150 FNAL-268 ANGP
WROBLEWSKI 70	MULT	170 CARROLL 76E CS	150-300 FNAL-192
+N(2040)	ABESALASHVIL 75B	175 AYRES 76C CS	200 FNAL-268 ANGP
40. APEL 75B	MULT	BUSZA 74 CS	205 BOGERT 74
+N(S3)	ANAGLCBELI 74	BUSZA 75 CS	250 FNAL-281
250 BOGERT 75B	MULT	200 CARROLL 76E CS	360 FNAL-384 FV
+N	ANGELOV 74C MULT	205 BOGERT 73 CS	+N(GAMMA) +GT.13PRONG
2.0 LEEPER 75	ANGELOV 75K MULT	LJUNG 76 CS,MULT	40. GRISHIN 76 MULT
2.4 LEEPER 75	DZHMUKHADZE 76	TRILLING 74B CS	+N(GAMMA) +GT.9PRONG
+DEL++	MULT	240 CARROLL 76E CS	40. ANGELOV 75D MULT
100-400 MUSGRAVE 75	GEMESY 76 MASS,	280 CARROLL 76E CS	+N(GAMMA) 0PRONG
+DEL(2850)I0	MULT,P	360 FIRESTONE 76 CS,	15. PORTER 77 MULT
4.7-5.2 DIXON 76	KLADNITSKAYA 76B	MULT	40. ABESALASHVIL 75B
+DEL(3230)I0	? MULT	400 FNAL-215 CS	MULT
4.7-5.2 DIXON 76	100 BUSZA 74 MULT	7 BALEA 74B CS	GRISHIN 76 MULT
+N(LAMBDA)	BUSZA 75 MULT	+INELASTIC	+N(GAMMA) ANYTHING
250 BOGERT 75B	SVRCEK 76 MULT	40. ABOURAKHIMOV 73E	40. ANGELOV 75D MULT
+N(ALAMBDA)	147 FCNG 76C MULT	CS	+GAMMA N
250 BOGERT 75B	150 FNAL-299 CS	ABOURAKHIMOV 74E	2.9 BARMIN 72
+.LT.7PRONG	FNAL-393 FV	CS	+GAMMA(S) ANYTHING
40. ANGELOV 74B CS,	175 BUSZA 74 MULT	50. FRANCESOVIET 74C	18. BISWAS 74
MASS,P	BUSZA 75 MULT	CS	BISWAS 76B
+STRANGE	200 BROMBERG 77C MULT	147 FCNG 76B P,PT	+E- HADRONS
1.7 FERMAN 69B	FORTNEY 76 MULT,P	205 TRILLING 74B CS	150-300 FNAL-192
4.9 GLAGOLEV 75D CS	205 BOGERT 73 MULT	+OD < 8PRONG >	+E- ANYTHING
7.0 PEEKNA 70	TRILLING 74B MULT	205 WINKELMANN 73	18. BALLAM 77 CS,P,PT
16. BARTKE 60	250 MAGDPIAN 76 MULT	ANGP	20. BNL-686
BIGI 82	400 FNAL-138	+OD < 4PRONG >	100-350 FNAL-258 ANGP
20. BALEA 70G	FNAL-215	205 WINKELMANN 73	225 COOK 78B CS
24. FILTHUTH 61	+FRONGS	ANGP	+E+ HADRONS
7 GLAGOLEV 75D CS	BROMBERG 77C P,PT	+OD < ANYTHING >	150-300 FNAL-192
GLAGOLEV 75C CS	+NEUTRALS	? MUKHIN 74 MASS	+E+ ANYTHING
SMITH 63B	.25-1.8 CHEZE 71	+OD < -1.3333*I P PI- 1	18. BALLAM 77 CS,P,PT
+STRANGES	.70-1.6 BIZARD 70	+ I 2PRONG) >	100-350 FNAL-258 ANGP
1.6 ALITTI 61B	.93-1.1 KNASEL 75	205 WINKELMANN 73	+MU- HADRONS
+CHARGED	3.8 APEL 73 CS	ANGP	150-300 FNAL-192
5.3 ANAGLCBELI 76D CS	4.0 POLYCHRONAKO 74 CS	+OD < 6PRONG >	+MU- ANYTHING
+NEUTRAL(CHARGED)	POLYCHRONAKO 74	205 WINKELMANN 73	12. SLAC-E-123B FV
40. ANGELOV 76C MULT	5.0 POLYCHRONAKO 74	ANGP	17. SLAC-E-123B FV
50. FRANCESOVIET 74C	CS	+GAMMA P	100-350 FNAL-258 ANGP
MULT,	6.0 APEL 73 CS	150-300 FNAL-192	+MU+ HADRONS
P	POLYCHRONAKO 74	+GAMMA N	150-300 FNAL-192
200 KENNEY 75B MULT	CS	.21-.38 GUEX 74	+MU+ ANYTHING
205 OZILWINSKA 75	7.0 POLYCHRONAKO 74	.23 CCMISO 72B	12. SLAC-E-123B FV
MULT	CS	.24-.38 SLAC-E-123B	17. SLAC-E-123B FV
WINKELMANN 73B	8.0 APEL 73 CS	.26 CCMISO 72B	100-350 FNAL-258 ANGP
MULT	POLYCHRONAKO 74	.32 BERARDO 74	+PION(S) ANYTHING
7 FCNG 76B MULT	CS	.37 CCMISO 72B	18. BISWAS 76B
+.GT.13PRONG	10. ELLIOTT 77 CS	.45 BERARDO 71	+PION PINI=1/21
40. GRISHIN 76 CS	12. APEL 73 CS	BERARDO 74	8.0 BEAUPRE 73B AMP,
+.GT.11PRONG	40. APEL 75 MASS	BERARDO 74	ANGP,CS
40. ANGELOV 76I CS,P	150 FNAL-299 CS	.47 CHEZE 74	+PION PINI=3/21
+.GT.10PRONG	360 FIRESTONE 76 CS	.49 BERARDO 73	8.0 BEAUPRE 73B AMP,
205 WINKELMANN 73	+NEUTRAL(S)	BERARDO 74	ANGP,CS
MASS	205 WINKELMANN 73C CS,	BERARDO 74	+PION NEUTRAL(S)
WINKELMANN 73B	MASS	BERARDO 74	40. GERDYUKOV 75 CS
MASS	400 FNAL-138	NEFKENS 69	+PION ANYTHING
+.GT.5PRONG	+ANYTHING	.50-.89 WEISS 75B	20.-50. SOLOTOV 72
40. ANGELOV 74B CS,	.050-230 ENGELMANN 77	.50-.90 WEISS 72B	+PION(S) NEPRONG
MASS,P	.39 BLEKHINTSEVA 63	.55 CHEZE 74 ANGP,CS	150 FNAL-393 FV
+.GT.4PRONG	.40-.90 DAVIDSON 71	1.5-3.8 ANTIPOLESKII 70	+PION(S) ANYTHING
40. ABDURAKHIMOV 74	2.0-8.0 ANL-E-33S CS	CODREANU 74	10. ELLIOTT 77
ANG,	4.0-6.0 GIORDENESKU 70	+GAMMA +LT.5PRONG	18. BISWAS 74
MULT,P,PT	5.0 ANAGLCBELI 76C CS	40. ANGELOV 75E ANGP,	+NEUTRON ANYTHING
+.GT.2PRONG	5.0-250 MOHLER 75C CS	P,PT	40. ABOURAKHIMOV 74E
40. ANGELOV 74D MULT,	6.0-20. GALBRAITH 65 CS	+GAMMA HADRONS	MULT
P	8.0 POWERS 73	150-300 FNAL-192	+NEUTRON NCHARGED)
DIDENKO 76E P	10.-70. WAKABAYASHI 75B CS	+GAMMA +GT.4PRONG	40. BALEA 73B MULT
0PRONG	15.-60. DENISOV 73B CS	40. ANGELOV 76B ANG	+NEUTRON +GT.9PRONG
4.9 GLAGOLEV 74 CS	15.-65. GORIN 73	+GAMMA +GT.7PRONG	40. ANGELOV 75D MULT
5.0 ANAGLCBELI 76D CS	18. CASON 73	40. ANGELOV 75E ANGP,	+NEUTRON ANYTHING
40. ABESALASHVIL 75B	POWERS 73	P,PT	10. ELLIOTT 77
CS	20.-65. ALLABY 71B CS	+GAMMA ANYTHING	40. ABOURAKHIMOV 74E
BALEA 74B CS	VASILIEV 72	.14 ULLRICH 74	MULT
GRISHIN 76 CS	20.-500 FNAL-104 CS	5.0 ANAGLCBELI 75C	ANGELOV 75D MULT
50. AKOPOZHANOV 74 CS	23. CARROLL 76E CS	ANGP,	ANGELOV 75J MULT
FRANCESOVIET 74C CS	23.-280 KOHLER 75	CS,P	BALEA 73B MULT
CS	25. CARROLL 76E CS	ANAGLCBELI 76E	GERDYUKOV 75 MULT
205 BOGERT 73 CS	40. ANGELOV 75J MULT	18. BISWAS 74	+NEPI-1 ANYTHING
+PRONG	BALEA 74B CS	40. ABOURAKHIMOV 73C	40. ABOURAKHIMOV 74E
40. KLADNITSKAYA 76B	50. AKOPOZHANOV 74 CS,	ABOURAKHIMOV 74E	MULT
MULT,	MULT	P,	
P	AYRES 76C CS	PI	

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PI- P --> (CONT.)

PI+ PI(1/2)
3.9 BERLAC 74 ANGP,CS, MASS
*PI+ DEL-
.55-1.6 BRODY 71B I
.90-1.1 BRODY 68 I
.93-1.0 GENSOLLEN 63 I
1.5-1.8 KEPNAN 69 I
1.6-1.8 BRODY 71B I
2.0-3.2 JACOBS 66 I
2.1 FICE 71 I
2.1-2.9 RICE 70 I
2.8 BATEN 70 I
3.0 CLEAR 67 I
4.0 BENDAR 66B I
5.1 ANL-E-379 ANGP I
6.0 FICE 71 I
7 DERADO 71 I
PI+ PI(1*3/2)
3.9 BERLAC 74 ANGP,CS, MASS
*PI+ PRONG
8.0 GO 75 I
18. GO 75 I
147 PRONG 74 P I
*PI+ ANYTHING
2.7 ABRAMOV 75C I
3.2 ABRAMOV 75C I
3.7-4.0 WHITMORE 75C I
4.0 BEIER 76D CS I
5.1 ANL-E-379 MASS I
6.0 BEIER 76D CS I
8.0 AKHABABYAN 74C I
BEIER 76D CS I
BEIER 76D CS I
GO 75 I
10. BEIER 76D CS I
BEIER 76D CS I
DELAY 74 CS,P I
12. BEIER 76D CS I
15. BEIER 76D CS I
BEIER 76D CS I
DELAY 74 I
16. BARTKE 76 PT I
BARTKE 76D ANG+,P I
PT I
ROSETTI 73 I
DIDENKO 73 P I
GENSCH 72 PT I
AKHABABYAN 74C I
GO 75 I
20. BEIER 76D CS I
24. BEIER 76D CS I
25. CHEN 71 I
40. ABDURAKHIMOV 74D I
P I
ABDURAKHIMOV 74E P, I
P, I
PT I
ABDURAKHIMOV 74F I
P I
ABDURAKHIMOV 74G I
P I
ABDURAKHMANO 74 P, I
PT I
AKHABABYAN 74C I
ANGELOV 75C PULT, I
P,PT I
ANGELOV 75L P,PT I
ANGELOV 76G PT I
BALEA 74 CS, P I
DIDENKO 73 P I
FNAL-324 ANGP I
GRISHIN 74B P I
GRISHIN 76 P,PT I
GRISHIN 76B PULT, I
P,PT I
PINTER 72 I
80. FNAL-324 ANGP I
100 BARTKE 76D ANG,P, I
PT I
SVRCEK 76 P,PT I
100-350 FNAL-258 ANGP I
150 BEIER 76D CS I
FNAL-299 ANGP I
160 FNAL-324 ANGP I
200 KENNEY 75B P I
250 BEIER 76C CS I
430 FNAL-213 FV I
7 ANGELOV 77F I
CHEN 71 I
ODERETSOV 68 I
FNAL-236A ANGP I
WHITMORE 75B I
2.0 I
2.0-2.6 PIFER 68 I
2.0-5.0 ORDINIS 68 I

PI- P --> (CONT.)

*PI+ N
0. GIACOMELLI 70C I
0.-2.0 BAREYRE 67 I
.020 CUCLOS 73B I
.030 DUCLOS 73B I
.040 DUCLOS 73B I
.080 BERTIN 72D I
.080-.12 SPAY 54 I
.090 MIYAKE 62 I
.10 BERTIN 72D I
CUNDY 65 I
ROBERTS 53 I
.10-.11 OCNALD 66B I
.11 OCNALD 66 I
TINLOT 54 I
.12 BERTIN 72D I
.13-.25 ANDERSON 53 I
.14 YCRK 63 I
.15 BODANSKY 54 I
.15 FRANK 67 I
YCRK 65 I
.20-.24 ANDERSON 52 I
.23 CANNIN 55 I
.24 CCMISC 74B I
.24-.35 BAYER 75 I
.25 KERNAN 70 I
.25-.72 MAUSER 71 I
.26 CCMISC 74B I
.27 ANDERSON 55 I
.27-.32 FERMI 53 I
.28 CERNIGOI 62 I
.29 CCMISC 74B I
.30 GLICKSMAN 54 I
.32 CCMISC 74B I
.33 ASHKIN 57 I
GLICKSMAN 54B I
.34 DEAHL 61 I
.34-.49 CARIS 61B I
.35 ZINOV 59 I
.35-.45 ZINOV 60C I
ZINOV 60D I
.37 CCMISC 74B I
.40 ZINOV 59 I
.42 HILL 70B I
ZINOV 58B I
.43-.49 LIND 65 I
.45 KOZODAEV 56 I
ZINOV 58 I
.47 CHEZE 74 I
CODREANU 74 I
.50-.85 BLASBERG 72B I
.50-.500 PIETARINEN 75B I
.55 CHEZE 74 ANP,ANGP, CS I
.55-1.2 BRISSON 61B I
.56-2.1 RISK 68 I
.60-1.0 DEBENHAM 75 I
.60-3.5 RMEL-081 I
RHEL-101 I
.62-1.4 CHIU 67 I
.62-2.7 BROWN 76C I
.65-1.2 BULOS 64 I
BULOS 65 I
.66 STIER 75 I
.76 FELTESSE 76 I
.99-2.0 BORGEAUD 64 I
.93 BIGI 64 I
1.0 NATAPOFF 64 I
SHANNON 73 I
.95 SHANNON 74 I
1.0-2.4 NELSON 72B I
NELSON 73 ANGP,CS I
1.2 SHANNON 73 I
SHANNON 74 I
1.4 SHANNON 73 I
SHANNON 74 I
1.4-4.0 CROUCH 68 I
CROUCH 68B I
1.5-3.8 ANTOPOLSKII 68C I
1.6 SHANNON 73 I
SHANNON 74 I
1.7-2.5 CARROLL 65 I
CARROLL 66 I
CARROLL 66B I
1.8 FELTESSE 76 ANGP, CS I
SHANNON 73 I
SHANNON 74 I
1.8-3.0 KEK-19 ANGP,POL I
1.8-5.0 KISTIAKOWSKY 65 I
1.8-6.0 KISTIAKOWSKY 71 I
MEYERSIII 72 I
2.0 FELTESSE 76 I
2.0-2.6 PIFER 68 I
2.0-5.0 ORDINIS 68 I

PI- P --> (CONT.)

*PI+ N (CONT.)
2.0-6.0 CHASE 69 I
CHASE 70 I
PETRASKE 69 I
>2.0 GIDAL 71 I
2.4-10. WAHLIG 68 I
2.5-5.7 YVERT 69 I
2.6-8.0 DEMARZO 75 I
2.8 BARMIN 67 I
3.0-100 SCHREMPP 75B ANGP I
3.1-18. SONDEREGGER 66 I
3.5 HILL 73B I
3.5-6.0 DEMARZO 72 I
3.6 HARVEY 71 I
3.7 BROCKETT 71 I
BROCKETT 71B I
3.8 BERTELUCCI 71 I
4.0 FAISSNER 64 I
4.0-11. SCHNEIDER 66 I
SCHNEIDER 71B I
4.3 CHEN 72 I
4.8 BROCKETT 71 I
BROCKETT 71B I
4.9 BCNAMT 74 ANGP,CS, POL I
5.0 BCNAMT 71B I
DUISAN 71C I
HILL 73B I
5.9 BCNAMY 66 I
BONAMY 70 I
BCRIGHT 70C I
BROCKETT 74 ANGP, CS I
5.9-14. BORIGHT 70 I
BORIGHT 70B I
6.3 CHEN 72 I
SCHREMPP 73 AMP I
6.0-18. MANNELLI 65 I
STIRLING 65 I
7.8 BCNAMY 74 I
DUISAN 71B I
LEDU 71 I
8.0 BCNAMY 71B I
DUISAN 71C I
STIER 73 ANGP,CS I
10. BACKENSTOSS 66 I
BORIGHT 70C I
11. BCNAMY 66 I
BCNAMY 70 I
14. BORIGHT 70C I
20.-100 BARNES 74B ANGP, CS I
20.-200 JOHNSON 75 ANGP, CS I
21. BARNES 74 CS I
BARNES 76 I
BCLOTOV 74E AMP, ANGP,CS I
DAHL 74 CS I
21.-48. KUTIN 73 CS I
25. BCLOTOV 74E AMP, ANGP,CS I
32. BCLOTOV 74E I
40. APEL 77C I
BCLOTOV 74E AMP, ANGP,CS I
41. BARNES 74 I
DAHL 74 I
48. BCLOTOV 74E AMP, ANGP,CS I
64. BARNES 76 I
66. BARNES 74 ANGP,CS I
DAHL 74 ANGP,CS, MASS I
101 BARNES 74 ANGP,CS I
DAHL 74 ANGP,CS, MASS I
199 BARNES 76 I
? ASHKIN 56 I
CARLSEN 73 I
DEMARZO 73B I
RHEL 74D I
*PI0 N(1232,I=3/2)
4.0 SCHAPPE 77 ANG,CS I
*PI3 N(1232,I=3/2)
9.3 BENKHEIRI 77B ANG, CS I
12. BENKHEIRI 77B ANG, CS I
*PI0 N(1518,I=1/2)
2.0-3.2 JACOBS 66 I
4.2 EISNER 67 I

PI- P --> (CONT.)

*PI0 NEUTCORR
9.0 BEAKHEIRI 77B ANG, CS
12. BENKHEIRI 77B ANG, CS
PI0 PI(1*3/2)
3.9 BERLAC 74 ANGP,CS, MASS
*PI0 DELO
1.7-2.5 CARROLL 66 I
CARROLL 66B I
2.8 BATON 70 I
3.0 CLEAR 67 I
4.0 SCHAMRE 77 ANGP, CS
BENKHEIRI 77B CS
12. BENKHEIRI 77B CS
7 DERADO 71 I
PI0 PI(1*3/2)
3.9 BERLAC 74 ANGP,CS, MASS
PI0 N(UNSPEC)0
9.0 ROUGE 77 ANGP,CS, MASS
12. ROUGE 77 ANGP,CS, MASS
*PI0 CHARGEX
5.0 AMAGLOBELI 76D CS
*PI0 NEUTRALIS)
100 FNAL-350 ANGP
150 FNAL-350 ANGP
200 FNAL-350 ANGP
*PI2 ANYTHING
5.0 ABRGSIMOV 77 I
EURLESCH 75 I
10. CHEILL 73 I
ONEILL 76B P,PT
ONEILL 76C I
ABDURAKHIMOV 74F I
P I
100 DONALOSCN 76 CS, PT
DONALOSCN 77 ANGP, P,PT
ELLIS 77 P,PT
FNAL-268 ANGP
FNAL-350 ANGP
150 FNAL-268 ANGP
FNAL-350 ANGP
150-300 FNAL-192 I
200 DONALOSCN 76 CS, PT
DONALOSCN 77 ANGP, P,PT
ELLIS 77 P,PT
FNAL-268 ANGP
FNAL-350 ANGP
360 FNAL-384 FV
? DONALOSCN 77 ANGP, P,PT
*PI- P
0. GIACOMELLI 70C I
0.-1.6 BAREYRE 65 I
0.-2.0 BAREYRE 67 I
.040-2.2 RHEL-105 I
.050-230 ENGELMANN 77 I
.10 ANGELL 53 I
ANGELL 58B I
BARNES 60B I
GIACCHELLI 60 I
KNAPP 63 I
.10-.11 CONALC 66B I
.11 BARNES 60 I
.13-.25 GRISHIN 53 I
.15 BOCANSKY 54 I
.16-.23 ANDERSON 52C I
.16-.40 CARTER 71 I
.16-.40 KLEPINOV 60 I
.18-.33 ANDERSON 52D I
.19 EDWARDS 54 I
.20 CREAR 53 I
.20-.24 ANDERSON 52 I
.23 KRUSE 55 I
.23-.38 ASHKIN 54 I
.25-.83 LINDENBAUM 55 I
.26 KELLMAN 63 I
KRUSE 59 I
.26-.50 ZINOV 60E I
.27 ANDERSON 55 I
.27-.30 KLEPINOV 60B I
.27-.32 FERMI 53 I
.30 GLICKSMAN 54 I
.33 ASHKIN 57 I
GLIC-SMAN 54B I
.34 DEAHL 61 I
KELLMAN 63 I

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PI- P --> (CONT.)		PI- P --> (CONT.)		PI- P --> (CONT.)		PI- P --> (CONT.)	
*PI- P (CONT.)		*PI- P (CONT.)		*PI- P (CONT.)		*PI- P (CONT.)	
.34-.51	ARENS 68	1.0-2.4	CCGL 70	3.0-10.	VENDABREL 60 CS	8.0-29.	FOLEY 67C
.34-.55	GOODWIN 61		GIACOMELLI 66	3.1-4.9	TING 62	8.2-9.5	ANL-E-611
.34-.58	CARIS 61	1.0-2.5	HILL 70	3.2	AUER 76	8.5	ECKARDT 65C
.35	ZINOV 59	1.1	DERADO 60		AUER 760	8.5-10.	HARTING 65
.35-.45	ZINOV 60		ERWIN 58		SCHEID 73	9.0	BENKHEIRI 77E
	ZINOV 60C	1.2	BARRELET 76	3.3	ALITTI 75		ANGP,
.36-.52	GCFN 73	1.2-2.1	KEMP 70	3.3-3.5	BAKER 69		CS
.40	GORDEEV 76	1.2-3.0	APLIN 71	3.4-9.2	VOVENKO 62B	10.	BNL-588 ANGP
	ZINOV 59	1.3	BERTANZA 61	3.5	BIRSA 76		BRANDENBURG 75
.40-1.6	LENGACRE 73	1.4	BARRELET 76		BIRSA 76B		ERANET 63
.42	OLKUVA 56		EISENMANDLER 75		BRADAMANTE 73C		CARNEGIE 75B
	OULKOVA 56B		SHEPARD 62		BRADAMANTE 74B		CARNEGIE 75C ANGP
	VASILEWSKII 66	1.5	BAILLON 74C		NORDFELDT 67		CERN-5-144 AMP,
	ZINOV 58C		BAILLON 75C	3.6	PERL 65		ANGP
.43	BEKRENEV 74		CCGK 63B	3.7	SCHEID 73		
	RUGGE 63		EISBERG 55	3.9	DEVENSKI 74 CS	10.-17.	BORGHINI 71B
.43-.78	CGOEN 65		LAI 61	4.0	BONDAR 64B	10.-20.	VONDARDEL 62
.43-.83	BIZARD 66	1.6	ABILLON 75		DALKHAZHAV 65	10.-100	FNAL-290 ANGP
.45	GORDEEV 76		ALITTI 63		SCHARRE 77 ANGP,	10.-532	SIDHU 76
	KOZODAEV 56		CHRETIEN 57		CS,MASS	11.	FERBEL 63
	ZINOV 58		WALKER 55	3.4-3.0	BNL-556 ANGP	12.	BENKHEIRI 77E
.45-.55	SAXON 70	1.6-2.3	HILL 71	4.1	SCHARENGUIVE 70B		ANGP,
.47-2.7	CARTER 68	1.6-5.3	KORNANYOS 66	4.2	EISNER 67		CS
.48	DICKINSON 66		KORNANYOS 67	4.2-7.8	BRODY 66		BNL-588 ANGP
.50-1.6	BRESSON 61	1.6-6.0	DIDDENS 63C	4.3	KUTLIN4 70	14.	BLAHA 73B
.50-500	PIETARINEN 75B	1.6-16.	ABRAMS 75E		WIKNER 57		GOLDSACK 73B
.52	GORDEEV 76	1.7	ALLEN 66	4.4	JACQUES 74		GRINDHAMMER 73
.53	BANNER 67		ALLEN 68		KARTAMYSHEV 73B	15.-25.	FOLEY 65
	DERE 69		BUSZA 66		SCHEID 73 ANGP,	16.	AMBLARD 71B
.53-.76	DEBEER 69		SUWA 65		POL		ANDERSON 68
.54-2.1	DEVLIN 65	1.7-2.5	BUSZA 67	4.5-10.	VENDARDEL 61		BARTKE 62
.55-1.3	BIZARD 68		ESTERLING 66	4.6	FEMING 64		CZAPEK 62
	WCOD 61		YOKOSAWA 66		FEMING 64B		DELESQUEN 72
.57-1.1	GRARD 61	1.7-2.8	BUSZA 69	4.7-5.2	DIXON 76		DELESQUEN 74B POL
.5-1.6	BRODY 71B	1.7-3.0	HULL 70	5.0	AKERLOF 71B ANGP,		GOLDSACK 62
	BRODY 71C	1.8	ALLEN 58		POL		GRASSLER 74 CS
6	GORDEEV 76	1.8-2.0	BRODY 69		AMAGLOBELI 76D CS	18.	POWERS 73
*	BEKRENEV 76	1.9	GOVORUN 73		BAKER 71	20.	CERN-WA-007 ANGP
	ROTHSCHILD 71B		SUWA 65		BNL-588 ANGP	20.-60.	DENISOV 71B CS
	POIRIER 65E		YORGBEV 74		CARLSEN 74B ANGP	23.	ELAHA 73B
.58- .1	CRITTENDEN 59	1.9-2.5	CARROLL 68D		CERN-5-144 AMP,		CORNILLOS 73B
.58-1.6	DEVLIN 62	2.0	BAILLON 74C ANGP,		ANGP		GRINDHAMMER 73
.58-2.0	COOL 56		CS		CHABAUD 72		MAJKA 76 ANGP,CS
.59-.82	BERTANZA 69		BAILLON 75C AMP,		LUNDBY 72	24.	CZAPEK 62
.60-1.0	DEBENHAM 75		ANGP		PIERRARD 76 AMP	25.	ANTIPOV 72F
.60-1.2	RICHARDS 72		CCGK 63B		RUS- 73		ANTIPOV 73P
.60-1.3	CRABB 71		DANOUTH 63		SCHMIDT 73C		ANTIPOV 74D
	RICHARDS 74		LAI 61		SCHMIDT 75B ANGP		BABAEV 76 ANGP,CS
.60-1.6	ROTHSCHILD 72		TREILLE 71		TREILLE 71		ROBERTSON 71
.60-3.3	HANSROUL 67	2.0-3.2	JACOBS 66		YOKOSAWA 72 POL	25.-200	FNAL-356 ANGP
.61	BEKRENEV 74B	2.0-4.0	KEK-21 ANGP,POL	5.0-11.	VONDARDEL 60B	30.-55.	BUGORSKII 72
.62	BAILLEN 74C ANGP,	2.0-4.5	SAKER 64	5.0-15.	CERN-5-153 ANGP	33.-35.	DEREVSHCHIKC 73D
	CS	2.0-5.0	LENGO 62B	5.0-250	KELLER 75C CS	33.-55.	DEREVSHCHIKO 73
	BANNER 67		ROYCHOUDHURY 70	5.1	ESTERLING 68		ANGP,
	DERE 69	2.0-7.0	CITRON 66		HOFFMAN 75B ANGP		CS
.62-1.1	BEALL 62	2.0-8.0	AACHEN-335 ANGP		MAENCHEN 57	33.-60.	APOKIN 75 AMP,
.63-1.6	MOYER 61		ANL-E-365 ANGP		SCHEID 73		ANGP
.64-2.1	CGX 60C	>2.0	GIOAL 71	5.2	THOMAS 60	34.	NURUSHEV 74B
	CGX 65B	2.1	SUWA 65	5.8	OWEN 69 ANGP	37.	NURUSHEV 74B
.65	EANCI 64C		WEST 66	5.9-17.	BEAR 68B	38.	BABAEV 76 ANGP,CS
.65-1.1	HELLAND 64B	2.3	HAGOPIAN 72	6.0	AMBLARD 71	39.	NURUSHEV 74B
.68	BURNSTEIN 65		REYNOLDS 67		AMBLARD 71B	40.	ABESALASHVIL 74B
.70	EANCI 64C		REYNOLDS 68		AKEI 71B		CS
.72-1.1	DOLBEAU 74	2.3-6.0	COFFIN 67		BIRSA 76B PWA		ADYLOV 74E
.73	VITTITOE 64	2.4	GOVORUN 73		BORGHINI 70 POL		ANTIPOV 72F
.74	GAILLARD 55		VOVENKO 74		DELESQUEN 72		ANTIPOV 73P
.74-.88	SHONLE 60	2.4-3.C	CRITTENDEN 70B		DELESQUEN 74B POL		ANTIPOV 74D
.77	OLIVER 66	2.5	CCGK 63B		DICK 73 ANGP,POL		APOKIN 74 AMP,
.82	EANDI 64C		LAI 61		GAIDOT 72		ANGP,CS
.85	VANDEWALLE 68		SCHEID 73		PELLET 71B		APOKIN 75B AMP,
.86-2.7	ALBROW 72B	2.5-3.0	FELLINGER 69C	6.0-12.	BORGHINI 67 POL		ANGP
.87	ABILLON 75	2.5-6.C	BAKER 63B	6.0-14.	PETERSON 70		ERUNETON 73B
.87-1.6	ABILLON 7C		COFFIN 65	6.0-17.	ASMORE 67		ERUNETON 75 PCL
	DURE 66	2.7	ANDERSSON 69B		BORGHINI 71E		ERUNETON 75B PCL
	DURE 67		BATON 65		OLIVIER 71		ERUNETON 76C AMP,
	DURE 68		MILLER 67		OWEN 69 ANGP		CS
.89	DAWES 68		SCHARENGUIVE 70B	6.1	NORDFELDT 67		CERN-WA-007 ANGP
.90	BERTANZA 66		SCHEID 73	6.2	BURAN 76 ANGP,CS		DUCROS 74B PCL
	BRACAMANTE 65	2.7-5.1	BOOTH 69	6.4	WANG 60		GAIDOT 75 CS,PCL
.90-1.0	CASON 66	2.8	BATON 70	6.4-20.	FOLEY 63		GAIDOT 75B
.90-1.8	AMBLARD 64		KOTENKO 62	6.9	BAKER 68		KAZARINOV 76 ANGP,
	STIRLING 66		LAURENS 71		MILGRAM 70		CS
.93	MCCORMICK 5E	2.8-3.5	BANAICS 68	7.0	BAKER 71		PIERRARC 75 AMP,
.93-1.0	GENSOLLEN 63	2.9	AUER 76		BNL-588 ANGP		PCL
.99-1.4	EANDI 64		AUER 760		HCFMCKL 63	45.	NURUSHEV 74B
	EDGINGTON 69		SCHEID 73	7.0-20.	FOLEY 63 ANGP,CS	50.	ADYLOV 74E
1.0	BAILLEN 74C ANGP,	3.0	HOFFMAN 75B ANGP		FOLEY 63C		AKERLOF 75 ANGP,
	CS	3.0-5.0	BRABSON 70	7.3	AINUTDINOV 62		CS
	BAILLON 75C AMP,		PAIK 71	7.8-26.	FOLEY 67		AKERLOF 76 ANGP,
	ANGP		PERL 63	8.0	ANDERSON 68		CS
	DAWES 68	3.0-5.5	DIXON 75B		POWERS 73		APOKIN 74 AMP,
	WALKER 56		DIXON 76B	8.0-12.	BREAR 66		ANGP,CS
1.0-1.2	PICKUP 63	3.0-6.0	AMBATS 74	8.0-20.	LINDENBAUM 61B		APOKIN 75B AMP,
1.0-1.3	BARBER 74	3.C-8.0	PETERSON 75 ANGP,	8.0-26.	FOLEY 67		ANGP
1.0-2.0	RHEL-128 ANGP		CS		FOLEY 69		AYRES 75 AMP
							AYRES 76C AMP,
							ANGP,CS

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PI- P --> (CONT.)			PI- P --> (CONT.)			PI- P --> (CONT.)			PI- P --> (CONT.)		
*PI- P (CONT.)			*PI- P (CONT.)			*PI- ANYTHING (CONT.)			*ETA N (CONT.)		
	CERN-MA-009	AMP, ANGP		RHEL 74B			AKHABABYAN 74C		.72-1.0	DEINET 69	
		ANGP	*PI- N				ANGELOV 75C	MULT, P,PT	.76	FELTESSE 75	
	DEREVSHCHIKOV 74	ANGP	1.2	SLAC-BC-058	ANGP			P,PT		FELTESSE 76	
		ANGP	*PI- N(1470)P+				ANGELOV 75L	P,PT		LEMOIGNE 73	
	FNAL-007	ANGP	3.9	WOHLMUT 70			BALEA 74	CS,P		SCHMITT 70	
	FNAL-061	POL	4.2	EISNER 67			DIDENKO 73	P	.78	KANDASKY 70	
	NURUSHEV 74B		8.0	ANDERSON 70			FNAL-32A	ANGP	.82	BUTTRAN 70	
50.-150	CERN-HA-20C	POL	14.	ROSENFELD 77	ANG, CS		GRISHIN 76B	P	.83	KANDASKY 70	
50.-175	AYRES 76C	ANGP,CS			DME,MASS		GRISHIN 76	P,PT	.88	CHAFFEE 75	ANGP, CS
50.-200	FNAL-069A	ANGP	16.	ANDERSON 70			GRISHIN 76B	MULT, P,PT	.93	CHAFFEE 75	ANGP, CS
57.	NURUSHEV 74B			BOESEBECK 71D	CS				.98	CHAFFEE 75	ANGP, CS
59.	NURLSHEV 74B		18.	LICHTMAN 74			PINTER 72				
60.	CERN-HA-007	ANGP	*PI- N(1520)D13+			42.	APURIN 77		.98	CHAFFEE 75	ANGP, CS
70.	ANKENBRANDT 75		16.	GRASSLER 75B	ANG, CS		DEREVSHCHIKO 73C				
		AMP, ANGP	*PI- N(1520)D+			50.-175	ANDERSON 76F	P	1.0	CHAFFEE 75	
	AYRES 75	ANGP	4.5	BEKETOV 74B			ANDERSON 76H	CS,P	1.1	CHAFFEE 75	
	AYRES 76C	AMP, ANGP,CS	*PI- N(1688)F15)+			51.	DEREVSHCHIKO 73C		1.4-4.0	CRCUCH 68B	
			2.0-3.2	JACOBS 66		80.	FNAL-32A	ANGP	1.7-2.5	CARROLL 69B	
75.	CERN-HA-009	AMP, ANGP	2.7	MILLER 67		100	BARTKE 76D	ANG,PT	2.0	PELTESSE 76	
80.	CERN-HA-007	ANGP	4.2	EISNER 67			HORRIS 75	CS,MULT, P	2.0-5.0	DROBNIS 68	
	FNAL-007	ANGP	16.	GRASSLER 75B	ANG, CS		SVRCEK 76	P,PT	2.2	GIDAL 71	
100	AKERLOF 75	ANGP, CS	*PI- N(1700)D+			100-350	FNAL-258	ANGP	2.6	BOYD 68	
	AKERLCF 76	ANGP, CS	4.5	BEKETOV 74B		140	AYRES 76B	ANGP,CS, MASS	2.5-5.0	WAHLIG 68	
			14.	ROSENFELD 77	CS				2.9-16.	BORGEAUC 70	
	AKERLCF 76	ANGP, CS	16.	BOESEBECK 71D	CS	147	FONG 76D		3.0-18.	GUISAN 65	
	ANKENBRANDT 75		18.	LICHTMAN 74		150	BEIER 76D	CS	3.3	ASTVATSATURO 77	
		AMP, ANGP	*PI- DEL+				FNAL-299	ANGP	3.6	HARVEY 71	
	AUER 77B	POL	.35-1.6	BRODY 71B		160	FNAL-32A	ANGP	3.7	KIRBY 71	
	AYRES 75	ANGP	.93-1.0	GENSOLLEN 63		175	AYRES 76B	ANGP,CS, MASS	3.8	BERTOLUCCI 71	
	AYRES 76C	AMP, ANGP,CS	2.7	MILLER 67						SIGURDSSON 73	ANGP, CS
			3.8	BATCH 70		203	KENNEY 75B	P			
		ANGP,CS	3.0-5.5	DIXCN 76B			SMITH 75E	P	4.0	FAISSNER 64	
	BURO 77	AMP,ANGP, CS	4.0	SCHARRE 77	ANGP, CS	250	BEIER 76D	CS		HLADKY 70	
						400	FNAL-138		4.8	KIRBY 71	
	CERN-MA-009	AMP, ANGP	4.2	EISNER 67			FNAL-215	FV	4.9	BONAMY 74	ANGP,CS, PCL
		ANGP	14.	CHADWICK 75	ANGP, CS	7	ANGELOV 77F				
	CHAMBERLAIN 77						BISWAS 72		5.0	BONAMY 71B	
		POL	7	DERADO 71	CS		FNAL-238A	ANGP	5.9	BONAMY 7C	
	FNAL-061	POL	*PI- N(UNSPEC)+				WHITMORE 75B		5.9-14.	BORIGHT 70B	
	NEVER 74	ANGP	150	FNAL-299	ANGP	*PI- DD < (2PRONG)			6.0	SHAEVITZ 75	ANGP
110	FNAL-007	ANGP	*PI- -GT.13PRONG			* (4PRONG) >			7.8	GUISAN 65	
125	ANKENERANDT 75		200	KENNEY 75B	P	205	ABRAMS 73	CS		GUISAN 71B	
		AMP, ANGP	*PI- PRONG			*PI- DD < PI+ NEUTRALS >				LEDU 71	
		ANGP	147	FONG 76	P	147	FENG 76	CS	8.0	BONAMY 71B	
	CERN-MA-009	AMP, ANGP	200	SMITH 75E	P	205	ABRAMS 73	CS		STIER 75	ANGP, CS
		ANGP	*PI- NEUTRALS(1)			*PI- DD < N PI+ >			8.4	EDWARDS 76C	
140	AYRES 75	ANGP	13.	THUN 72		14.	BALLAM 76	ANG,CS, MASS		EDWARDS 76D	
	AYRES 76C	AMP, ANGP, ANGP,CS	*PI- ANYTHING				CHADWICK 75	ANG, CS,MASS	11.	MANN 71	
			3.7-400	WHITMORE 75C					15.	APEL 74	ANGP,CS
	BURO 77	AMP,ANGP, ANGP,CS	4.0	BEIER 76D	CS				20.-100	BARNE 71	CS
			4.7-5.2	DIXON 76			OCHS 75		20.-200	JOHNSON 75	ANGP, CS
	FNAL-007	ANGP	5.1	HOFFMAN 75B	MASS	16.	GRASSLER 74	CS			
147	FONG 76	ANGP,CS	6.0	BEIER 76D	CS		GRASSLER 75B	AMP, ANG,ANGP,CS	21.	BOLOTOV 73E	ANGP, CS
	FENG 76	CS		BEIER 76E	CS					BOLOTOV 74F	ANGP, CS
	FENG 76C	ANGP,CS		GORDON 75B	CS,PT			MASS			
150	ANKENERANDT 75		8.0	AKHABABYAN 74C		*PI- DD < 2PI+ PI- NEUTRALS >				DAHL 74	
		AMP, ANGP		BEIER 76D	CS					DAHL 76	
		ANGP		BEIER 76E	CS	205	ABRAMS 73	CS	21.-48.	KUTIN 73	CS
	CERN-MA-009	AMP, ANGP		DICK 75	ASYM,P	*PI- DD < DEL++ PI- >			25.	BOLOTOV 73E	ANGP, CS
	FNAL-061	POL		POWERS 73		3.9	FERRANDO 73				
	FNAL-299	ANGP		RHEL-112	ANGP, ASYM,P	16.	BOSETTI 75D	ANG, ANGP,CS,MASS		BOLOTOV 74F	ANGP, CS
170	FNAL-007	ANGP	10.	BEIER 76D	CS		GRASSLER 76	CS	32.	BOLOTOV 73E	
175	AYRES 75	ANGP		BEIER 76E	CS	?	KAMALOV 76B	ANG, ANGP,MASS		BOLOTOV 74F	
	AYRES 76C	AMP, ANGP,CS		DELAY 74	CS,P				40.	APEL 74	ANGP,CS
			12.	BEIER 76D	CS	*PI- DD < P PI+ PI- NEUTRALS >				APEL 77	ANGP
200	AKERLCF 75	ANGP, CS	15.	BEIER 76D	CS	205	ABRAMS 73	CS		BOLOTOV 73E	ANGP, CS
	AKERLCF 76	ANGP, CS		DELAY 74	CS	*PI- DD < P NEUTRALS >					
			16.	BARTKE 76	PT	147	FENG 76	CS		BOLOTOV 74F	ANGP, CS
205	BOGERT 73	ANGP,CS		BARTKE 76D	ANG,PT	205	ABRAMS 73	CS			
	BOGERT 73	ANGP,CS			PT	*PI- DD < P PI3 >			41.	DAHL 74	
	LJUNG 76	ANGP,CS, P		BOSETTI 73		16.	GRASSLER 75B	AMP, ANG,ANGP,CS, MASS	48.	BOLOTOV 73E	ANGP, CS
				DEUTSCHMANN 74D	P, PT					BOLOTOV 74F	ANGP, CS
	TRILLING 74B	ANGP, CS		DIDENKO 73	P	*PI- DD < P PI+ PI- >				DAHL 76	
300	FIRESTONE 76	ANGP, CS		GENSCH 71	PT	3.9	FERRANDO 73		64.	DAHL 76	
		CS	18.	AKHABABYAN 74C		14.	ROSENFELD 77	ANGP, CS,MASS	66.	DAHL 74	ANGP,CS, MASS
400	FNAL-215	ANGP		BISWAS 72					101	DAHL 74	ANGP,CS, MASS
7	ASHKIN 56			POWERS 73		16.	GRASSLER 76	ANG, ANGP,CS,MASS			
	BAILLON 75B	AMP, ANGP	20.	BEIER 76D	CS				199	DAHL 76	
			22.	GORDON 75B	CS,PT	205	ABRAMS 73	CS,MASS	7	BUTTRAN 73C	
	BAKER 67		24.	BEIER 76D	CS	?	BALLAM 76	CS,MASS		CARLSON 73	
	BAREYRE 65B		25.	CHEN 71		*ETA P				JANE 75D	
	BHANDARI 77B	PWA	40.	ABDURAKHIMOV 73	P	.80	BASILE 71B			RHEL 74C	
	BLEAGGY 61			ABDURAKHIMOV 74D		*ETA N				RICHARDS 70	
	CARLSON 73				P	.60-3.5	RHEL-C81		*ETA < 2GAMMA > N		
	COLTON 68			ABDURAKHIMOV 74E			RHEL-101		3.8	APEL 73	CS
	DERRICK 75				P, PT	.68-.73	BINNIE 73B		6.0	APEL 73	CS
	FRISKEN 65				PT	.72	GOMLEY 70		9.0	APEL 73	CS
	GODDWIN 59			ABDURAKHIMOV 74G			GOMLEY 70B		12.	APEL 73	CS
	KEMCFILCV 72				P		JANE 74B				
	GREAR 65			ABDURAKHMAD 74	P, PT		SCHMITT 70				
	OWEN 69	ANGP					STEIN 69				

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*ETA NEUTRAL(S)		
100	FNAL-350	ANGP
150	FNAL-350	ANGP
200	FNAL-350	ANGP
*ETA ANYTHING		
16.	MALHOTRA 76B	CS,P
100	FNAL-26B	ANGP
	FNAL-350	ANGP
150	FNAL-26B	ANGP
	FNAL-350	ANGP
200	FNAL-26B	ANGP
	FNAL-350	ANGP
*ETA < MU- MU+ > ANYTHING		
16.	BUNNELL 77	CS
*EPSILON(1700) N		
1.7-2.5	CORBETT 67	
1.8	DEINET 65B	
2.0	CLEGG 70	
2.4	HUKE 67	
*RHO P		
15.	LEITH 72D	
*RHO N		
0.-20.	VASAVADA 74B	DME, PWA
<55-1.6	BRODY 71B	
1.4	PICKUP 61	
	PICKUP 61B	
1.6	ALITTI 63	
2.0	GLTAY 65	
2.0-3.2	JACOBS 66	
>2.0	CICAL 71	
2.1	MAGOPIAN 66B	
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2.3	MAGOPIAN 70	
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2.4	HUKE 67	
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	BATON 70	
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3.0	CLEAR 67	
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	WICKLUND 77	ANG, ANGP
3.0-4.0	GELFAND 65	
3.6-4.2	JOHNSEN 68	
3.7-4.2	GOLOHABER 69C	
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4.0	BONDAR 64B	
	BOUCHEZ 77	AMP
	DERACO 65	
	GUIRAGOSSIAN 73	
	WICKLUND 77	ANG, ANGP
4.2	EISNER 67	
	JOHNSON 67	
4.4	KARTAMYSHEV 74	
4.5	BAPTSH 72	
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5.0	OVERLY 70	
	GRAMENITSKII 76	ANG, ANGP
	RANGASWAMY 71	147
6.0	CRENNELL 71C	ANGP, CS
	GORDON 73	AMP, ANGP,CS,DME
	WICKLUND 77	ANG, ANGP
7.0	CARROLL 71	
	MATTHEWS 71B	CS
	OH 70	
8.0	ALLARD 67	
	BISWAS 66	
	MCLLET 75	
	POIRIER 67	
	SELOVE 66	
	SELOVE 68	
11.	CASO 69	
	HYAMS 68	
	HYAMS 69	
12.	JONES 66	
	JOHES 68	
15.	BULOS 71B	
	BULOS 71C	
	BULOS 71E	
	RATCLIFF 71	
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16.	BALLAM 70C	
	BELLINI 68	
17.	ESTABROOKS 74B	
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*RHO- N (CONT.)		
	GRAYER 74	
	HYAMS 74	
	SCHREMPP 75B	DME
18.	JONES 66	
	JCMES 68	
50.	FNAL-110A	
100	FNAL-110A	ANGP
200	FNAL-110A	
?	HYAMS 75B	ASPK
	JOHNSEN 68	
	MUSGRAVE 71B	
*RHO N(1520)D13(0)		
3.9	FERRANDO 73	
8.0	ABASHIAN 75B	ANG, ANGP,DME
*RHO N(1520)D15(0)		
3.9	FERRANDO 73B	
9.0	BENKHEIRI 77B	CS
	FERRERSORIA 77	ANGP,CS,DME
12.	BENKHEIRI 77B	CS
	FERRERSORIA 77	ANGP,CS,DME
*RHO N(1688)F15(0)		
3.9	FERRANDO 73	
	FERRANDO 73B	
9.0	FERRERSORIA 77	ANGP,CS,DME
12.	FERRERSORIA 77	ANGP,CS,DME
*RHO N(1700)D13(0)		
9.0	BENKHEIRI 77B	ANG, CS,DME
12.	BENKHEIRI 77B	ANG, CS,DME
*RHO0 DELO		
2.1	BOYD 68	
2.3-7.0	BPCHN 67	
3.9	FERRANDO 73B	
	WOHLMUT 70	
8.0	ABASHIAN 75B	ANG, ANGP,DME
	ALLARD 67	ANGP,DME
9.0	BENKHEIRI 77B	CS
	FERRERSORIA 77	ANGP,CS,DME
7	FERRANDO 73	ANG, ANGP,CS,DME
205	BINGHAM 74	CS
7	FERRANDO 73	ANG, ANGP,CS,DME
*RHO0 ,GT,12PRONG		
40.	ANGELOV 76G	CS
*RHO0 ,GT,4PRONG		
40.	ANGELOV 76G	CS
*RHO0 NEUTRALS		
147	FCNG 75B	CS
*RHO0 ANYTHING		
6.0	GORDON 73B	CS,P, PT
15.	BRAU 75	
16.	BARTKE 76	CS,MULT, PT
	MALHOTRA 76B	CS,P
22.	GORDON 75B	CS,P, PT
40.	ANGELOV 76G	CS,P, PT
	ANGELOV 77D	
100	SVRCEK 76	CS,P,PT
100-400	MUSGRAVE 75	
147	FCNG 75B	CS,P,PT
205	WINKELMANN 74B	CS
7	STROMANSKI 75	
*PHOO DD < P PI- >		
16.	GRASSLER 76	ANG, ANGP,CS,MASS
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1.6	ALITT: 63	
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2.0	GLTAY 65	
2.0-3.2	JACOBS 66	
>2.0	GIDAL 71	

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	REYNOLDS 68B	
2.7	BATON 65	
	MILLER 67	
2.8	BATON 70	
	BOUCHEZ 71	
2.9	HAGOPIAN 66	
3.0	CLEAR 67	
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3.2	BLIEDEN 66	
3.9	HABER 74	ANGP,CS, DME
4.0	BONDAR 64B	
	SCHARRE 77	ANG, ANGP,CS,DME
>4.0	BNL-566	ANGP
4.2	EISNER 67	
	JOHNSON 67	
	YEN 67	
5.0	BYERLY 73	
6.0	CRENNELL 71C	ANG, CS
	GORDON 73	AMP, ANGP,CS,DME
7.0	OH 70	
8.0	ANDERSON 69F	
	BARISH 69	
	DERAGO 67	
9.0	BENKHEIRI 77B	ANG, ANGP,CS,DME
	BENKHEIRI 77C	ANG, ANGP,CS,DME
12.	BENKHEIRI 77B	ANG, ANGP,CS,DME
	BENKHEIRI 77C	ANG, ANGP,CS,DME
15.	PRATT 74	
16.	ANDERSON 69F	
25.	ANTIPOV 73J	ANGP, CS
40.	ANTIPOV 73J	ANGP, CS
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8.0	ALLARD 67	
RHO- N(UNSPEC)*		
150	FNAL-38S	ANGP
*OMEGA N		
2.6-03-.31		
	BINNIE 74B	
.93-1.3	KEYNE 76	
1.0-2.0	RHEL-12B	ANGP
1.1-1.2	BINNIE 73B	
1.5	DEINET 69C	
1.7	DACON 65B	
2.0	LEEPER 75	
2.1	BOYD 68	
2.4	LEEPER 75	
3.0	WICKLUND 77	ANG, ANGP
3.6	HCLLOWAY 73	
	ROSENBERG 71	
	RUSSELL 71	
3.6-5.5	HCLLOWAY 71	
3.7-4.0	GOLOHABER 69C	
3.8	APEL 75E	ANGP,DME
	BERTOLUCCI 71	
4.0	WICKLUND 77	ANG, ANGP
4.5	HCLLOWAY 73	
	ROSENBERG 71	
	RUSSELL 71	
5.0	SHAPIRO 69	
5.5	HCLLOWAY 73	
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6.0	ANL-E-380	ANGP, DME
	3PEL 75E	ANGP,DME
	SHAEVITZ 75D	AMP, ANGP,DME
	SHAEVITZ 75C	
	WICKLUND 77	ANG, ANGP
8.0	ALLARD 67	
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	DOWELL 75B	ANGP, CS,DME
8.4	EDWARDS 7EC	
10.	SHIBATA 66	
12.	DOWELL 75	ANGP
	DOWELL 75B	ANGP, CS,DME
17.	ESTABROOKS 74B	

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*OMEGA N (CONT.)		
20.	DAHL 76B	ANGP,CS, DME
21.	BOLOTOV 75B	ANGP, CS
	DAHL 74	
25.	BOLOTOV 75B	ANGP, CS
32.	BOLOTOV 75B	
40.	BOLOTOV 75B	ANGP, CS
	DAHL 76B	ANGP,CS, DME
100	DAHL 76B	ANGP,CS, DME
101	DAHL 74	ANGP,CS, MASS
150	DAHL 76B	ANGP,CS, DME
200	DAHL 76B	ANGP,CS, DME
*OMEGA N(1760)D13		
9.0	BENKHEIRI 77B	ANG, ANGP,CS,DME
12.	BENKHEIRI 77B	ANG, CS,DME
*OMEGA ,GT.12PRONG		
40.	ANGELOV 76G	CS
*OMEGA ,GT.1OPRONG		
40.	ANGELOV 76G	CS
*OMEGA ,GT.8PRONG		
40.	ANGELOV 76G	CS
*OMEGA ,GT.4PRONG		
40.	ANGELOV 76G	CS
7	ANGELOV 76G	CS
*OMEGA NEUTRALES		
100	FNAL-350	ANGP
150	FNAL-350	ANGP
200	FNAL-350	ANGP
*OMEGA ANYTHING		
16.	MALHOTRA 76B	CS,P
40.	ANGELOV 76G	CS
	ANGELOV 77C	
100	FNAL-26B	ANGP
	FNAL-350	ANGP
150	FNAL-26B	ANGP
	FNAL-350	ANGP
200	FNAL-26B	ANGP
	FNAL-350	ANGP
*OMEGA < MU- MU+ > ANYTHING		
16.	BUNNELL 77	CS
*M(940) N		
2.4	EUTEAM 7E	
	CHESHIRE 72	
*M(953) N		
2.4	CHESHIRE 72	
*ETAPRIME N		
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1.3-1.6	UPADHYAY 75	
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2.0	CUANE 74	MASS
2.4	CHESHIRE 72	
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15.	APEL 74B	ANGP,CS, MASS
	VINCELLI 74	CS
21.	DAHL 74	
32.	BOLOTOV 74H	
40.	APEL 74B	ANGP,CS, MASS
	VINCELLI 74	CS
41.	DAHL 74	
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101	DAHL 74	ANGP,CS, MASS

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*ETAPRIME < ZGAMMA > N
3.8 APEL 73 CS
8.0 APEL 73 CS
8.0 APEL 73 CS
12. APEL 73 CS
*ETAPRIME ANYTHING
100 FNAL-268 ANGP
150 FNAL-268 ANGP
200 FNAL-268 ANGP
*K1(960) N
0.-2.6 BINNIE 72
1.5 DUFEY 72
1.6 BASILE 71
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CHESHIRE 72
3.8 APEL 72B
7 LEDNICKY 75C
*DELTA(9700) N
2.4 BUTTRAM 75
*DELTA(9701)- P
1.0-2.0 UPADHYAY 73 CS
UPADHYAY 73C
1.4-1.7 UPADHYAY 73C
4.5 BNL-557
7.0 BNL-557
12. BNL-557
*H(9901) N
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1.0-2.0 AHEL-128 ANGP
2.0 BUTTRAM 76
LEEPER 75
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11. WILLIAMS 70
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1.6 BIANKIE 73B
1.8 BASILE 71B
BASILE 72
BASILE 72B
2.1 BOND 68
3.0 AYRES 74 ANGP,CS,
MASS
4.0 AYRES 74 ANGP,CS,
MASS
5.0 AYRES 74 ANGP,CS,
MASS
6.0 AYRES 74 ANGP,CS,
MASS
COHEN 76 AMP,ANGP
11. HYAMS 70
7 BISHARI 77B
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100 FNAL-268 ANGP
150 FNAL-268 ANGP
200 FNAL-268 ANGP
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' ' BEKETOV 70
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5.. KRUSE 71
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ANTIPOV 73H ANGP,
CS,DME

PI- P --> (CONT.)

*A1(1100)- P (CONT.)
50. FNAL-110A
100 FNAL-110A
150 FNAL-299 ANGP
200 FNAL-110A
*A1(11031- DD < P PI? >
16. GRASSLER 74 CS
*A1(11100)- DD < N PI+ >
16. GRASSLER 74 CS
*PI11501 N
2.4 BUTTRAM 75
*B1(1235)- P
3.2 ERPENSY 70
3.9 CHALOUPKA 74
4.0 SCHARRE 77 CS
4.5 DUBOVIKOV 74
5.0 CHALOUPKA 74
7.5 CHALOUPKA 74
9.1 ARMENISE 73 CS
ARMENISE 73B ANG,
ANGP,CS,DME
11. AFZAL 73
16. BALLAM 71D CS
18. CASON 73
*F P
7.0 CARROLL 72
*F N
2.0-3.2 JACOBS 66
2.7 BATON 65
MILLER 67
CLEAR 67
3.0-4.0 GELFAND 65
3.5 LOUIE 73
4.0 BONDAR 64B
DERADO 65
4.2 EISNER 67
4.5 HALLOWAY 74
JORDAN 72
NICOLINAS 73
5.0 GRAMENITSKII 76
ANG,
ANGP
7.0 LJAZ 68
OH 70
8.0 ALLARD 67
MOLLET 75
POIRIER 67
STUNTEBECK 70
11. CASO 69
16. BALLAM 70C
BELLINI 68
17. GRAYER 710
GRAYER 74
GRAYER 74
7 SCLOTCV 74B ANGP,
CS
GUZHAVIN 76
HYAMS 75B ASTP
MUSGRAVE 71B
*F N(1520)D310
8.0 ABASHIAN 75B ANG,
ANGP,DME
*F N(1520)D30
9.0 BENKHEIRI 77B CS
FERRERSORIA 77
ANGP,CS,DME,
MASS
12. BENKHEIRI 77B CS
FERRERSORIA 77
ANGP,CS,DME,
MASS
*F N(1670)D150
8.0 ABASHIAN 75B ANG,
ANGP,DME
*F N(1688)F150
9.0 FERRERSORIA 77
ANGP,CS,DME,
MASS
*F N(1700)D30
9.0 BENKHEIRI 77B ANG,
CS,DME
12. BENKHEIRI 77B ANG,
CS,DME
*F D(5)
8.0 ABASHIAN 75B ANG,
ANGP,DME
9.0 BENKHEIRI 77B CS
FERRERSORIA 77
ANGP,CS,DME,
MASS
12. BENKHEIRI 77B CS
FERRERSORIA 77
ANGP,CS,DME,
MASS

PI- P --> (CONT.)

*F ANYTHING
16. BARTKE 76 CS,MULT
40. ANGELEV 77D
100 FNAL-268 ANGP
150 FNAL-268 ANGP
200 FNAL-268 ANGP
*F DD < P PI? >
16. GRASSLER 76 ANG,
ANGP,CS,MASS
*D(12951) N
8.4 EDWARDS 76D
*A2(1310) N
3.2 OZAKI 75
3.7-25. RCSNER 71
4.5 JORDAN 72
NOOULMAN 73
POLYCHRONAKO 76
6.0 POLYCHRONAKO 76
7.0 WETZEL 76 AMP,
ANGP
12. CORDEN 77B ANGP,
DME
CORDEN 77B ANGP,
DME
15. GRAYER 71
*A2(1313) ANYTHING
100 FNAL-268 ANGP
150 FNAL-268 ANGP
200 FNAL-268 ANGP
*A2(1318)D- P
0.-2.6 BINNIE 71
1.4 HARRISON 75
2.0-3.2 JACOBS 66
2.0 GIDAL 71
3.2 TIKHOMIROV 73
3.7-25. RCSNER 71
3.9 CHALOUPKA 73B
FERRANDO 73
FERRANDO 73B
GANDOIS 75 ANGP,
CS,DME
LOSTY 74 ANGP,DME
WOHLMUT 73
3.9-16. LACY 71B
4.0 ABSHIRE 73B ANGP,
PGL
ANKENBRANDT 72
ANKENBRANDT 73
ANG,
DME
SCHARRE 77 CS
4.4 BEKETOV 71
4.5 BEKETOV 74
CRENNELL 71B
GORDON 74B
LAI 71B
5.0 ASCOLI 73
BOWEN 71
5.0-8.5 BROCKWAY 70B
6.0 CONFORTO 73
GORDON 74B AMP,
ANG,ANGP
KEY 73
UNDERWOOD 75 ANG,
ANGP,DME
7.0 BAUD 70
BAUD 70B
BOWEN 71
CARROLL 70
JOHNSTON 70
MORSE 72
ASCOLI 73
8.0 ALASKIAN 75 CS
MORRIS 75C
9.0 BENKHEIRI 77B
ANGP,
CS
FERRERSORIA 77
ANGP,
CS,DME
KOCHOWSKI 69
THOMPSON 75
11. BENKHEIRI 77B
ANGP,
CS
FERRERSORIA 77
ANGP,
CS,DME
14. BALLAM 71B CS
GRASSLER 76 CS
17. CERN-5-136
GRAYER 710
20. FOLEY 71
OZAKI 71
22. LINDENBAUM 74
23. MARGULIES 75

PI- P --> (CONT.)

*A2(1310)- P (CONT.)
24. LINDENBAUM 74
25. ANTIPOV 73H ANGP,
CS,DME
40. ANTIPOV 72B
ANTIPOV 73H ANGP,
CS,DME
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
7 BEKETOV 71
LAI 71
MARGULIES 76 AMP,
ANG,ANGP,CS
VLADIMIRSKII 68
*E(1420) N
8.4 EDWARDS 76D
*PRIME N
6.0 POLYCHRONAKO 76
7.0 POLYCHRONAKO 76
8.9 BEUSCH 75 PBA
*A3(1640)- P
4.4 BEKETOV 71
BEKETOV 74E
4.5 BNL-557
5.0 ASCOLI 71B
FELDMAN 71
5.0-25. ASCOLI 73C PBA
7.0 BNL-557
7.5 ASCOLI 71B
9.1 ARMENISE 72
11. CASC 69B
THOMPSON 75
11.-40. ASCOLI 71C
12. BNL-557
13. HARRISON 72D
16. GRASSLER 76 ANG,
ANGP,CS,MASS
18. LICHTMAN 74
20. HARRISON 72C
25. ANTIPOV 73H ANG,
ANGP,CS,DME
40. ANTIPOV 73H ANG,
ANGP,CS,DME
*OMEGA(1675) N
8.4 EDWARDS 76C
12. CORDEN 77B ANGP,
DME
15. CCRDEN 77B ANGP,
DME
*G(1680)0 N
4.5 KLIGER 74
*G(1680)0 N
4.7 VETLITSKII 69B
5.0 GRAMENITSKII 76
ANG,
ANGP
5.7 VETLITSKII 69B
6.0-16. BARTSCH 70D ANGP,
CS
7.0 MATTHEWS 71C ANGP,
CS
8.0 ALLARD 67
BARTSCH 70D
GOLDBERG 65
POIRIER 67
STUNTEBECK 70
11. CASO 69
16. BALLAM 70C
BELLINI 68
17. GRAYER 71B
GRAYER 74
HYAMS 74
7 HYAMS 75B ASTP
MUSGRAVE 71B
*G(1680)- P
4.5 BNL-557
KLIGER 74
7.0 BNL-557
8.0 CASON 73B
9.1 ARMENISE 72B
ARMENISE 75 ANG,
ANGP,CS
12. BNL-557
16. BALLAM 71D CS
18. CASON 73B
*A5(1790)- P
11. THOMPSON 75
*APRIME(1800)- P
16. GRASSLER 76 ANG,
ANGP,CS,MASS
*A4(1900)- P
11. THOMPSON 75
25. ANTIPOV 76C ANGP,
CS

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

*H120401 N
 18. BLUM 75
*XI2030) N
 40. APEL 72E CS
*MESON(2950)- ANYTHING
 16. EVANGELISTA 77B CS
*J/PSI(3100)0 N
 8.2-9.5 ANL-E-411
 8.2-9.8 JENKINS 77 CS
 40. PROKOSHKIN 75B CS
*PIPI(5201)-- DEL++
 3.9 WOHLMUT 70
 6.0 MOTT 73
*K5(15) ANYTHING
 40. ABDURAKHIMOV 73E
 CS,
 P,PT
*NK5) OPRONG
 15. PORTER 77 MULT
 40. ABDURAKHIMOV 73E
 MULT
*NK5) ANYTHING
 40. ABDURAKHIMOV 73E
 MULT
*K+ SIGMA-
 0.-2.0 LANGBEIN 73B
 1.5-4.2 GAHL 67
 1.5-5.0 AKERLOF 74
 2.7-5.0 AKERLOF 71
 2.7-10. BASHIAN 71
 3.5 BRACAMANTE 73C
 BRACAMANTE 74
 >4.0 BRL-566 ANGP
 4.9 GLAGOLEV 75B CS
 5.0 BNL-588 ANGP
 7.0 BNL-588 ANGP
 10. BNL-588 ANGP
 12. BNL-588 ANGP
 50.-150 CERN-WA-006 PCL
*K+ SIGI1385P131-
 2.7-10. BASHIAN 71
 4.3 ALESHIN 76
 4.5 CRENNELL 71
 4.8 ALESHIN 76
 6.0 CRENNELL 71
*K0 HYPERCN
 4.9 GLAGOLEV 74 CS
*K+ ANYTHING
 4.0 BEIER 76D CS
 4.9 GLAGOLEV 74 CS
 5.0 GLAGOLEV 75C ANGP,
 P,PT
 6.0 BEIER 76D CS
 8.0 BEIER 76D CS
 10. BEIER 76D CS
 12. BEIER 76D CS
 15. BEIER 76D CS
 20. BEIER 76D CS
 24. BEIER 76D CS
 40. FNAL-324 ANGP
 80. FNAL-324 ANGP
 100-350 FNAL-258 ANGP
 150 BEIER 76D CS
 160 FNAL-324 ANGP
 250 BEIER 76D CS
 7 FNAL-236A ANGP
*K0 LAMBDA
 0.-2.3 BAKER 77B
 .85-1.1 JONES 69
 .89-2.1 BAKER 74C
 .90-1.1 JONES 71B
 .92-1.2 VANDYCK 69
 .93 KNASEL 71
 .93-1.1 KNASEL 75
 NELSON 73B
 .93-1.3 COUTURES 75
 .93-1.4 BATON 74
 .94-1.2 BOYLE 69
 .98-1.3 ABBOTT 75
 1.0 CONELL 74
 HART 73C
 SNAPE 73
 1.0-2.1 RHEL-166 PDL
 1.1 KNASEL 71
 SMITH 79F
 1.4-2.3 RHEL-114 ANGP,PDL
 1.5-4.2 CAHL 67
 3.0 LESNIK 73 ANGP,CS,
 PDL
 WARD 73B ANGP,CS
 WARE 77 ANGP,CS,
 PDL
 3.0-6.0 WARD 73C
 3.5 ABRAMOVICH 71
 4.0 LESNIK 73 ANGP,CS,
 PDL

PI- P --> (CONT.)

*K0 LAMBDA (CONT.)
 WARD 73B ANGP,CS
 WARD 77 ANGP,CS,
 PDL
 4.9 GLAGOLEV 75D CS
 5.0 ASTBURY 75 AMP,
 ANGP,PDL
 BEUSCH 74 PDL
 CERN-S-134 PDL
 LESNIK 73 ANGP,CS,
 PDL
 PEPIN 67 PDL
 WARD 73B ANGP,CS
 WARD 77 ANGP,CS,
 PDL
 5.0-10. BAL-554
 6.2 BEUSCH 70B
 7.0 PEPIN 67
 8.0 FOLEY 74 ANGP,CS
 11. FOLEY 74
 12. PEPIN 67
 50. FNAL-110A
 100 FNAL-110A
 200 FNAL-110A
 ? BAKER 77
 JONES 73B
*K0 SIGMAO
 0.-2.0 LANGBEIN 73B
 .93-1.1 KNASEL 75
 .93-1.4 BATON 74
 1.5-4.2 GAHL 67
 3.0 LESNIK 73 ANGP,CS
 WARD 73B ANGP,CS
 3.0-6.0 WARD 73C
 3.5 ABRAMOVICH 71
 4.0 LESNIK 73 ANGP,CS,
 PDL
 5.0 LESNIK 73 ANGP,CS
 6.0 LESNIK 73 ANGP,CS
 WARD 73B ANGP,CS
 WARD 77 ANGP,CS,
 PDL
 BALEA 74B CS,P,PT
 205 BOGERT 74 ANG,CS,
 LJUNG 76 ANG,CS,
 MASS,MULT,P,
 PT

PI- P --> (CONT.)

*K5 ANYTHING (CONT.)
 250 BOGERT 75B
 360 FNAL-38A FV
*KL HYPERON
 4.9 GLAGOLEV 74 CS
*KL ANYTHING
 .96-1.2 PEACH 77
*K- ANYTHING
 5.0 GLAGOLEV 75C ANGP,
 P,PT
 40. FNAL-324 ANGP
 80. FNAL-324 ANGP
 100-350 FNAL-258 ANGP
 160 FNAL-324 ANGP
 7 FNAL-236A ANGP
K(892)+ SIGI1385P131-
 4.3 ALESHIN 76
 4.8 ALESHIN 76
K(892)- LAMBDA
 1.6-4.3 HOCH 72
 3.0 WARD 77 ANGP,CS,
 PCL
 3.9 ABRAMCVICH 72B
 ABRAMOVICH 72C
 YAFFE 74
 4.0 SCHARRE 77 ANGP,
 CS,DME,MASS,
 PCL
 WARD 77 ANGP,CS,
 PCL
 4.2 SCHREMPP 75B ANGP,
 DME
 5.0 WARD 77 ANGP,CS,
 PCL
 6.0 WARD 77 ANGP,CS,
 PCL
 8.0 FLURI 75 FCNC
 FOLEY 74 ANGP
 11. FOLEY 74
 ? FIELD 72
K(36210 SIGMA0
 3.9 ABRAMCVICH 72B
 YAFFE 74
K(89210 SIGI1385P131G
 3.9 YAFFE 74
 7.0 PEEKNA 71
K(89210 ANYTHING
 16. EVANGELISTA 77C
 MASS,
 P,PT
*Q1(1240-1400)0 LAMBDA
 4.3 ALESHIN 76
 4.8 ALESHIN 76
K(1422)+ SIGI1385P131-
 4.3 ALESHIN 76
 4.8 ALESHIN 76
K(UNSPEC)0 LAMBDA
 6.0-10. BAL-554
K(UNSPEC)0 ANYTHING(S3
 20.-25. BNL-479 FV
*EXOTIC-MESON P
 14. BCNAMY 75
*EXOTIC-MESON DEL++
 4.0 SCHARRE 77 CS
*EXOTIC-MESON ANYTHING
 12. NYAKO 76 CS
 7 BUHL 72
*P PRONG
 6.0 GG 75
 18. GG 75
 205 TRILLING 74B CS,
 MASS
*P NE(PRONG)
 205 ALBINI 78B MASS,
 MULT
 BAKSHAY 74D MASS,
 MULT
*P NEUTRALS
 3.2 BASILE 73
*P ANYTHING
 1.3 KALBFLEISCH 74C
 MASS
 1.4 HARRISON 75
 1.6 KALBFLEISCH 74C
 1.6-10. ABRAMOV 75E
 2.1 ABRAMOV 73
 2.7 ABRAMOV 73
 3.2 BALOSHIN 71
 4.0 BEIER 76D CS
 4.5 BNL-557
 6.0 BEIER 76D CS
 BEIER 76D CS
 CONFORTO 73
 UNDERWOOD 75 MASS
 7.0 BNL-557
 8.0 BEIER 76D CS
 GG 75

PI- P --> (CONT.)

*P ANYTHING (CONT.)
 8.0-16. BOWEN 72B
 10. BEIER 76C CS
 12. BEIER 76D CS
 BEIER 76D CS
 BNL-557
 WOHLMUT 73
 15. BEIER 76D CS
 16. BOSETTI 73
 GENSCH 71 PT
 20. GG 75
 20. BEIER 76D CS
 24. BEIER 76C CS
 25. ANTIPOV 73N ANGP,
 MASS,P
 ANTIPOV 74C
 FNAL-356 ANGP,P
 40. ANGELOV 75K ANGP,
 MASS,P
 ANTIPOV 73N ANGP,
 MASS,P
 ANTIPOV 74C
 BLANAR 75D
 BOYER 76 ANGP,
 MASS
 FNAL-324 ANGP
 GRISHIN 74C
 80. FNAL-324 ANGP
 100 BLANAR 75D
 SVRCEK 76 P,PT
 TAUTZ 76 ANGP,CS,
 MASS
 100-350 FNAL-258 ANGP
 150 BEIER 76D CS
 FNAL-356 ANGP
 160 FNAL-324 ANGP
 200 BLANAR 75D
 BOYER 76 ANGP,
 MASS
 FORTNEY 76 CS,P
 205 CHAN 74 MULT
 TRILLING 74B CS,
 MASS
 WINKELMANN 73
 MASS
 WINKELMANN 73B
 MASS
 240 BLANAR 75D
 BOYER 76 ANGP,
 MASS
 250 BEIER 76C CS
 400 FNAL-38B
 FNAL-215 FV
 7 DERRICK 75
 FNAL-236B ANGP
*P DD < PI+ 2PI- >
 16. GRASSLER 74 CS
 205 ABRAMS 73 CS,MASS
*P DD < PI+ 2PI- NEUTRALS >
 205 ABRAMS 73 CS
*P DD < (2PRONG)
* + (NPRONG > 1)
 205 ABRAMS 73 CS
*P DD < PI- NEUTRALS >
 147 FONG 76 CS
 205 ABRAMS 73 CS
*P DD < ANYTHING >
 205 WINKELMANN 73 CS
*P DD < K+ NE >
 16. CYTER 75C CS
*N MM=GE=2
 2.E-03-.31
 BINNIE 74B
 .74 BINNIE 73
 BINNIE 74
 DUANE 74
 .75 KENDALL 74
 2.0 BINNIE 73 MASS
 BINNIE 74 MASS
 DUANE 74 MASS
*N NEUTRALS
 2.4 BUTTRAM 75
*N NEUTRALS)
 0.-2.6 BINNIE 72
 1.0-1.5 HARRIS 72
 2.4 CHESTER 72
 JACOBEL 73
 2.5 HOLLOWAY 72
 3.8 SIGUPOSSCK 73
 MASS
 4.0 APEL 76B ANG,CS,
 MASS
*N ANYTHING
 16. GENSCH 71 PT

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

*AP DEUT
4.0 PAWLICKI 73 ANGP, CS
5.0 BAGLIN 72
PAWLICKI 73 ANGP, CS
6.0 PAWLICKI 73 ANGP, CS
10. EVANGELISTA 77
16. EVANGELISTA 77
*AP ANYTHING
40. FNAL-324 ANGP
80. FNAL-324 ANGP
100-350 FNAL-258 ANGP
160 FNAL-324 ANGP
200 FORTNEY 76 CS,P
7 FNAL-236A ANGP
*N(P) ANYTHING
40. ANGELOV 760 MULT
*N(16GEV15)+ ANYTHING
4.3 ALESHIN 75C
4.8 ALESHIN 75C
*N(16GEV15)0 ANYTHING
4.3 ALESHIN 75C
4.8 ALESHIN 75C
*DEL++ ANYTHING
5.0 LEBEDEV 74 P
16. BARTKE 77
BOSETTI 74 CS
CHOUDHURY 74E CS, P,PT
PLESS 73 P,PT
100 SVRCEK 76 CS
300 PLESS 73 P,PT
400 FNAL-138
*DELD ANYTHING
430 FNAL-138
*LAMBDA DPRONG
40. ABDURAKHIMOV 73E CS
BALEA 74B CS
*LAMBDA N(PRONG)
4.9 DZHMUKHADZE 76 MULT
7.5 DZHMUKHADZE 76
40. DZHMUKHADZE 76 MULT
*LAMBDA ANYTHING
4.8 ALESHIN 73B
ALESHIN 74
ALESHIN 74B
4.9 GLASGOLEW 75D CS
5.0 AMAGLOBELI 77
GLAGOLEV 75 POL
GLAGOLEV 75C ANGP, P,PT
5.9 SMALL 68
6.1 DORE 75
11. BORZATTA 73C
18. GO 75
PALER 74
STUNTEBECK 74
20. BALEA 73C
40. ABDURAKHIMOV 73E CS, P,PT
ABDURAKHIMOV 74E P, PT
ANGELOV 76D CS,P, PT
BALEA 74B CS,P,PT
BALEA 74B CS,P,PT
PINTER 72
150 FNAL-299 ANGP
200 BOGERT 74
LJUNG 76 ANG,CS, MASS,MULT,P, PT
250 BOGERT 75B
360 FNAL-384 FV
*LAMBDA ANYTHING
7.0-8.0 BELYAKOV 64
16. GE 75
STUNTEBECK 74
20. BALEA 70
200 BOGERT 74
LJUNG 76 ANG,CS, MASS,MULT,P, PT
250 BOGERT 75B
360 FNAL-384 FV
*(LAMBDA) DPRONG
15. PORTER 77 MULT

PI- P --> (CONT.)

*(LAMBDA) ANYTHING
40. ABDURAKHIMOV 73E MULT
*SIGMA+ ANYTHING
4.9 GLAGOLEV 74 CS
GLAGOLEV 75D CS
5.0 GLAGOLEV 75 POL
GLAGOLEV 75C ANGP, P,PT
*SIGMA0 ANYTHING
4.8 ALESHIN 73B
*SIGMA- ANYTHING
4.9 GLAGOLEV 75D CS
5.0 GLAGOLEV 75 PCL
GLAGOLEV 75C ANGP, P,PT
*SIG(1385P13)+ ANYTHING
4.5-4.8 ALESHIN 75B
*SIG(1385P13)- ANYTHING
4.5-4.8 ALESHIN 75B
*SIG(1480)+ ANYTHING
4.5-4.8 ALESHIN 75B
*SIG(1480)- ANYTHING
4.5-4.8 ALESHIN 75B
*XI- ANYTHING
5.1 BUDAGCV 70C
*DEUT ANYTHING
100-350 FNAL-258 ANGP
*ADEUT ANYTHING
100-350 FNAL-258 ANGP
*CIBARYON ANYTHING
4.0 SHAHEBZIAN 74B CS
*CHARM ANYTHING
16. GHINDI 76 CS,MASS
250 BOGERT 75 CS,MASS
HARRIS 75D P
*CHARGED- CHARGED+
100 SVRCEK 76 P
*2CHARGED
4.9 SVRCEK 76 P
*.GT.1DPRONG NIVEE1
40. ANGELOV 75D MULT
*DPRONG STRANGE
4.9 GLAGOLEV 75D CS
*DPRONG N(PRONG)
4.0 ALESHIN 73B
40. BALEA 74B CS
*DPRONG N(VEE)
40. ANGELOV 75D MULT
*PRONG STRANGE
4.9 GLAGOLEV 75D CS
*2PRONG
4.9 GLAGOLEV 74 CS
5.0 AMAGLOBELI 76D CS
8.0 POWERS 73
10. ELLIOTT 77
18. POWERS 73
40. ABESALASHVILI 75B
AMAGLOBELI 74 CS
ANGELOV 74B CS, MASS,P
BALEA 74B CS
GRISHIN 76 CS
KLADNITSKAYA 76 P
50. AKOPDZHANOV 74 CS
FRANCESCHINI 74C CS
FONG 74 CS
FONG 76C CS
150 BOGERT 73 CS
FREITER 75 CS
TRILLING 74B CS
WINKELMANN 73C CS
360 FIRESTONE 76 CS
*PM.GE.2 .GT.2PRONG
40. ANGELOV 75K CS, MASS
*PM.GE.2 .GT.4PRONG
40. ANGELOV 75K CS, MASS
*PM.GE.2 .GT.6PRONG
40. ANGELOV 75K CS, MASS
*NEUTRALS VEE
4.0 POLYCHRONAKO 74 CS
5.0 POLYCHRONAKO 74 CS
6.0 POLYCHRONAKO 74 CS
7.0 POLYCHRONAKO 74 CS

PI- P --> (CONT.)

*NEUTRALS VEE (CONT.)
8.0 POLYCHRONAKO 74 CS
*ANYTHING STRANGEO
40. IFA 73
IFA 73
*ANYTHING STRANGE
4.9 GLAGOLEV 74 CS
*ANYTHING STRANGES
1.7 THOMAS 72
THOMS 73
2.1 HOYER 72
11. DANIELI 72
VINCENT 71
*ANYTHING STRANGES1
4.8 ALESHIN 73B
*ANYTHING VEE
4.9 DZHMUKHADZE 77
7.5 DZHMUKHADZE 77
40. BALEA 74B CS
DZHMUKHADZE 77
JUNG 73B
*ANYTHING VEE1
5.0 AMAGLOBELI 76D CS
16. BALYA 74
40. ABDURAKHIMOV 73E CS
PRICE 76B
*ANYTHING CHARGED+
205 PFEIFFER 75 CS,P, PT
*ANYTHING CHARGEC-
205 FREITER 75 CS,P, PT
*ANYTHING CHARGEC
100 SPEDDING 76 P
*ANYTHING N(CHARGED+)
40. ANGELOV 76D MULT
*ANYTHING N(CHARGED-)
40. ANGELOV 76D MULT
*ANYTHING N(CHARGED)
205 WINKELMANN 73 MULT
*ANYTHING N(PRONG)
150 FNAL-299 ANGP
*DD < CHARGED> + ANYTHING
205 HARTNER 75 CS
*DD < CHARGED- > ANYTHING
205 HARTNER 75 CS
*DD (CHARGED-)
235 HARTNER 75 CS
* (3CHARGED+) > ANYTHING
203 LAMSA 76 P
* DD 2CHARGED- > ANYTHING
205 HARTNER 75 CS
*DD <CHARGED- > ANYTHING
205 HARTNER 75 CS
*DD < 3CHARGED> ANYTHING
205 HARTNER 75 CS
*DD < 4CHARGED+ > ANYTHING
200 LAMSA 76 P
*DD < N(CHARGED) > ANYTHING
205 WINKELMANN 73 MULT
*DD < NEUTRALS > ANYTHING
235 HARTNER 75 CS
*DD < P PI- > DD < PI+ PI- >
5.0 BORESKOV 76B ANGP
*DD < P NEUTRALS > DD < PI-
NEUTRALS >
147 FONG 76 CS
*DD < P PI+ > DD < 2PI- >
5.0 BORESKOV 76B ANGP
*DD < PI+ NEUTRALS > DD < PI- NEUTRALS >
147 FONG 76 CS
*DD < N PI+ > DD < PI+ 2PI- >
16. GRASSLER 74 CS
*DD < P PI3 > DD < PI+ 2PI- >
16. GRASSLER 74 CS
*2GAMMA HADRONS
150-300 FNAL-192
*2GAMMA ANYTHING
14. ONEILL 76B MASS
20. DAHL 76B ANG,MASS
40. ANGELOV 76B P
DAHL 76B ANG,MASS
GERDYUKOV 75 CS

PI+ P --> (CONT.)

*2GAMMA ANYTHING (CONT.)
64. DAHL 76B ANG,MASS
100 DAHL 76B ANG,MASS
150 DAHL 76B ANG,MASS
150-300 FNAL-192
200 DAHL 76B ANG,MASS
*GAMMA CHARGED ANYTHING
40. ANGELOV 76P ANG,P
*GAMMA 2PRONG
40. ANGELOV 76B ANG
*GAMMA NEUTRAL ANYTHING
40. ANGELOV 76B P
*N(GAMMA) CHARGED- CHARGED+
150 FNAL-393 FV
*N(GAMMA) 2PRONG
15. PORTER 77 MULT
40. ABESALASHVILI 75B MULT
ANGELOV 75D MULT
GRISHIN 76 MULT
*GAMMA(S) 2PRONG
18. BISWAS 74
*E- GAMMA HADRONS
150-300 FNAL-192
*E- E+ HADRONS
150-300 FNAL-192
*E- E+ ANYTHING
.39 ALIZADE 76
2.9 VAISENBERG 70
4.9 BNL-688 MASS
960 ANDERSON 76G CS, MASS,P
*E- VEE ANYTHING
225 CCCK 76B CS
*E+ GAMMA HADRONS
150-300 FNAL-192
*MU- GAMMA HADRONS
150-300 FNAL-192
*MU- MU+ HADRONS
150-300 FNAL-192
*MU- MU+ ANYTHING
0.-150 CERN-WA-011
11. WEINGARTNER 69
15. SLAC-E-123A FV
18. BUNNELL 77 CS, MASS
17. SLAC-E-123A FV
20. BNL-688 MASS
150 FNAL-331 ANGP,P
*MU- NEUTRAL ANYTHING
20. BNL-688
*MU+ GAMMA HADRONS
150-300 FNAL-192
*MU+ E- HADRONS
150-300 FNAL-192
*2MU+ ANYTHING
40. BUNNELL 77 CS
*MU+ NEUTRAL ANYTHING
20. BNL-688
*MUON E- ANYTHING
210 COCH 76B CS
*2PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*N(PI0) 2PRONG
40. ANGELOV 75D MULT
GERDYUKOV 75 MULT
*PI+ GAMMA ANYTHING
40. ANGELOV 76B P
ANGELOV 76P ANG,P
*2PI+ ANYTHING
40. ABDURAKHIMOV 73 ANG, MULT,P
ABDURAKHIMOV 74G P
ABDURAKHMANG 74 ANG, P
ABDURAKHMAND 76B P
AKHABADIAN 76 P
BLUTHER 74 P
CRISHIN 75C P
RANEY 76F MULT,P
200 BISWAS 75 ANG,P
*PI+ PI- NEUTRALS
147 FONG 76 ANG,CS, MASS,P
205 ABRAMS 73 CS
*PI+ PI- NEUTRAL(S)
15. BAILLON 72
*PI+ PI- ANYTHING
6.0 GORDON 75B MASS
11. BORZATTA 73 ANG,P

REACTIONS 3277 TO 3342

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

*PI+ PI- ANYTHING (CONT.)
15. LEVY 74 MASS
16. BARTKE 76 CS,MASS,P
P,PT
22. GORDON 75B MASS
40. ABDURAKHIMOV 73 P
ANG,
MULT,P
ABDURAKHIMOV 74D P
MASS
ABDURAKHIMOV 74G P
P
ABDURAKHMANO 74 P
ANG,
P
ABDURAKHMANO 74B P
P
ABDURAKHMANO 74C P
100 SVRCEK 76 MASS
100-400 MUSGRAVE 75 P
FENG 75B MASS
200 BISWAS 75 ANG,P
BISWAS 76 ANGP
*PI+ 2PRONG
16. BOSETTI 73
*2P1O CHARGEC
5.0 AMAGLOBELI 76D CS
*PI- GAMMA ANYTHING
40. ANGELOV 76F P
ANGELOV 76H ANG,P
*2PI- ANYTHING
11. BORZATTA 72 ANG,P
40. ABDURAKHIMOV 73
ANG,
MULT,P
ABDURAKHIMOV 74G
P
ABDURAKHMANO 74
ANG,
P
AHMABABIAN 76
BLUTNER 74
GRISHIN 75C
RANFT 74F MULT,P
100 GIM 75 P
200 BISWAS 75 ANG,P
BISWAS 76 ANGP
*PI- 2PRONG
16. BOSETTI 73
*RHOO 2PRONG
5.0 LEBEDEV 74 P
147 FONG 75B CS
*NEKS) 2PRONG
15. PORTER 77 MULT
40. ABDURAKHIMOV 73E
MULT
*K+ PI- ANYTHING
100 SVRCEK 76 MASS
*2K+ ANYTHING
24. BNL-682
*K+ KO ANYTHING
4.5 GLAGOLEV 75D CS
*K+ K- MM=GEV
18. BLUM 75
*K+ K- ANYTHING
4.9 GLAGOLEV 75D CS
100 SVRCEK 76 MASS
*K+ ANYTHING
4.9 GLAGOLEV 75D CS
*KO AKO OPRONG
40. ABDURAKHIMOV 73E
CS
BALEA 74B CS
*KO AKO NEUTRAL(S)
4.8 ALESHIN 74
*KO AKO ANYTHING
40. BALEA 74B CS
*KO K- ANYTHING
4.9 GLAGOLEV 75D CS
*KS PI- ANYTHING
250 BOGERT 75 CS,MASS
*KS PI- ANYTHING
250 BOGERT 75 CS,MASS
*2KS N(PRONG)
40. ABDURAKHIMOV 73E
MULT
*2KS NEUTRAL(S)
20. BNL-705 MASS
*2KS ANYTHING
4.0 BOLDEA 71
4.9 GLAGOLEV 75D CS

PI- P --> (CONT.)

*2KS ANYTHING (CONT.)
5.0 BOLDEA 71
20. BNL-668 ANG,MASS
24. KRAMER 74 MASS
40. ABDURAKHIMOV 73E
P
CS
360 FNAL-384 FV
*KS KL ANYTHING
4.9 GLAGOLEV 75D CS
*KS 2PRONG
40. ABDURAKHIMOV 73E
P
CS
BALEA 74B CS
*K- PI+ ANYTHING
100 SVRCEK 76 MASS
*K- 2ANYTHING
4.9 GLAGOLEV 75D CS
*LJ ACO ANYTHING
230 CCOK 76B CS
* P ZOAMRA
150-300 FNAL-192
* P KU- ANYTHING
200 FNAL-411 FV
*P PU+ ANYTHING
200 FNAL-411 FV
*P NUON ANYTHING
230 BLANAR 76B MASS
* P PI+ NEUTRAL(S)
8.0 DZIERBA 70
* P PI+ ANYTHING
11. BORZATTA 73 ANG,P
16. GENSCH 71 MASS,PT
PLESS 73 MASS
100 SVRCEK 76 MASS
303 PLESS 73 MASS
* P PIO PI-
4.0-10.0 LCNGACRE 73
.41 JONES 74
SOBER 74
DOLBEAU 75
.49-1.2 LCNGACRE 73
.52-1.1 LCNGACRE 76
.53-.76 NGUYEN 73
.55-.71 SMADJA 72
.72-1.1 DOLBEAU 74
.85-1.1 DOLBEAU 76
1.7 ALLEN 68
2.8 BATON 69B
BATON 69
LAURENS 71
3.9 BERLAC 74 CS,MASS
BERLAC 76B ANG,
MASS
DEVENSKI 74 CS
MASS
HABER 74 CS,MASS
4.0 SCHARRE 77 ANGP,
P
JACQUES 74
5.0 ANAGLEBELI 76D CS
6.0 GORDON 73 ANGP,
MASS
KEK-12 FV
8.0 BOCKMANN 73 AMP,
ANGP,CS,MASS
9.0 BENKHEIRI 77B
MASS
BENKHEIRI 77C P
MASS
BENKHEIRI 77E
MASS
BENKHEIRI 77C
MASS
CHADWICK 75 ANG,
CS,MASS
CHADWICK 77 ANGP,
MASS
DCHS 74 PWA
16. BOCKMANN 73 AMP,
ANGP,CS,MASS
GRASSLER 73 P
GRASSLER 74 CS
GRASSLER 75B CS
OTTER 77 CS,MASS,
PWA
PLOTHOW 75 ANG,
ANGP,CS,MASS
150 FNAL-089 ANGP
7 ANTIPOV 73J MASS
BOCKMANN 73 AMP,
ANGP,CS,MASS
* P PI- GAMMA
.41 SOBER 74
* P PI- PIONIS)
8.0 GRASSLER 73 P
16. GRASSLER 73 P
23. GRASSLER 73 P

PI- P --> (CONT.)

* P PI- PI3S
16. GRASSLER 73 P
* P PI- MM.GE.1
.72-1.1 DOLBEAU 74
* P PI- NEUTRALS
147 FONG 76 ANG+ANGP,
CS,MASS+P
205 ABRAMS 73 CS
* P PI- NEUTRAL(S)
8.0 DZIERBA 72
16. BCSETTI 73
* P PI- ANYTHING
11. BORZATTA 73 ANG,P
15. LEVY 74 MASS
16. GENSCH 71 MASS,PT
100 SVRCEK 76 MASS
* P ETA PI-
3.-3.2 WITHERELL 73
2.3 WIECKCWICZ 69
3.9 LOSTY 74 CS
3.9-16. LACY 71B
4.0 SCHARRE 77 ANGP,
CS,DME,MASS
6.0 KEY 73 CS
PREPOST 72
UNDERWOOD 75 MASS
16. BARTKE 76 CS
18. CASON 73
40. ANTIPOV 73K ANGP,
MASS
* P ETA CHARGED
16. MALHOTRA 76B CS
* P XPSILCN(700) PI-
25. ANTIPCV 73H MASS,
PWA
ANTIPOV 73M MASS,
PWA
* P RHOO PI-
4.0 SCHARRE 77 ANG,
ANGP,DME,MASS
4.4 BEKETOV 70D
4.5 BEKETOV 74
5.0 BCRESKOV 74 ANG,
MASS
6.0 CRENNELL 70D
GORDON 75B CS
8.0 MORRIS 75C
13. LEVY 74 MASS
18. LICHTMAN 74
22. GORDON 75B CS
25. ANTIPOV 73H MASS,
PWA
ANTIPOV 73I MASS
ANTIPCV 76C CS
40. ANTIPOV 73M MASS,
PWA
ANTIPOV 73I MASS
* P RHOO RHO-
4.5 KLIGER 74
5.1 ANDREEVA 75 MASS
18. CASON 73
* P RHOO CHARGED
16. MALHOTRA 76B CS
* P OMEGA PI-
3.9 CHALOUPKA 74
4.0 SCHARRE 77 ANGP,
DME,MASS
4.5 DAVIDSON 74B
DUBOVIKOV 74
KLIGER 74
5.0 ASCOLI 69
CHALOUPKA 74
6.0 DAVIDSON 74B ANG,
ANGP,MASS
GORDON 75B CS
7.5 ASCOLI 69
CHALCUPKA 74
9.0 BENKHEIRI 77B
MASS
9.1 ARMENISE 73 ANGP,
CS,MASS,P,PT
ARMENISE 73B CS,
MASS
9.3 ANL-E-428 PWA
12. BENKHEIRI 77B
MASS
14. DAVIDSON 74B ANG,
ANGP,MASS
15. LEVY 74 MASS
18. CASON 73
22. GORDON 75B CS
* P OMEGA CHARGED
16. MALHOTRA 76B CS
* P ETAPRIME PI-
13. DEBONTE 75

PI- P --> (CONT.)

* P PHI ANYTHING
6.0 GORDON 75B CS
22. GORDON 75B CS
* P F PI-
3.9 FERRANDC 73
4.0 SCHARRE 77 ANG,
ANGP,DME,MASS
4.4 BEKETOV 74E
4.5 KLIGER 73
6.0 CRENNELL 70D
8.0 MORRIS 75C
9.2 OZHOYANI 6Z CS
12. LICHTMAN 74
25. ANTIPOV 76C CS
40. ANTIPOV 73H MASS,
PWA
* P A2(1310) PI-
4.5 KLIGER 74
18. CASON 73
* P A2(1310) PI- PIO
4.5 KLIGER 74
18. CASON 73
* P G(1680)0 PI-
25. ANTIPCV 76C CS,
MASS
* P H(1920 PI-
25. ANTIPOV 76C CS,
MASS
* P ANN(193510 PI-
9.0 BENKHEIRI 77 ANG,
CS
12. BENKHEIRI 77 ANG,
CS
* P ANN(202010 PI-
9.0 BENKHEIRI 77 ANG,
CS
12. BENKHEIRI 77 ANG+
CS
* P ANN(220010 PI-
9.0 BENKHEIRI 77 ANG,
CS
12. BENKHEIRI 77 ANG,
CS
* P K+ ANYTHING
24. BNL-682
* P KO K-
3.45 LOSTY 74 CS
4.0 SCHARRE 77 MASS
4.9 GLAGOLEV 75D CS
4.2-10. FNAL-110A
17. CERN-S-136
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
* P KS K-
4.5 GORDCY 74B
LBL TAG
6.0 GORDON 74B MASS
10. BALDI 77 ANG
BALDI 78 ANGP,
MASS
CERN-S-131 FV
20. CERN-WA-010 FV
22. LINDENBAUM 74
MARGULIES 76
23. MACGREGOR 76D
MASS
MARGULIES 75
LINDENBAUM 74
MARGULIES 78
30. CERN-WA-009 FV
40. CERN-WA-013 FV
55. CERN-WA-003 FV
80. CERN-WA-003 FV
CERN-WA-013 FV
* P KL K-
4.0 ANKENBRANDT 73
MASS
* P K- GAMMA
.25-1.8 LECALVEZ 71
* P K(UNSPECIO K*(UNSPECI-
20.-25. BNL-679 FV
* P N AP
9.8 HYAMS 73 ANG,ANGP,
CS,MASS,PWA
MEISSBURGER 74
GHIDINI 77B
RENNEBERG 76
13. CELUDE 75
OULUDE 75
16. EVANGELISTA 77E
ANG,
CS,MASS
17. CERN-S-136
19. GRAYER 72E
MEISSBURGER 74

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

+P N AP (CONT.)
30. CERN-HA-003 FV
55. CERN-HA-003 FV
80. CERN-HA-003 FV
7 WAGNER 74 PWA
+P AP N11470810
9.0 BENKHEIRI 77 MASS
12. BENKHEIRI 77 MASS
+P AP DELO
9.0 BENKHEIRI 77 MASS
12. BENKHEIRI 77 MASS
+P ZPRONG
16. BOSETTI 73
+N 2GAMMA
.76 FELTESSE 76
2.0 FELTESSE 76
8.0 STIER 75 MASS
40. APEL 75F MASS
APEL 77E ANGP,
MASS
+N GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73
MASS
+N 3GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73
MASS
+N E- E+
.27 AKIMOV 71
.39 ALIZADE 76
BEREZHNEV 73
BEREZHNEV 76B
BEREZHNEV 76C
SMIRNOV 76
4.0 BEREZHNEV 76 ANGP
8.2-9.8 JENKINS 77 MASS
+N PI+ PI-
.16 BUNYATOV 74B
.18 BUNYATOV 74B
.28-1.4 ECKLUND 71
.31-.37 BATUSOV 73B
.35 BATUSOV 62
.40-1.6 LONGACRE 73
.41 JONES 74
.45 BLOKHINTSEVA 7C
.48 MAKAROV 76
.49-1.2 DOLBEAU 75
.52 MAKAROV 76
.52-1.1 LONGACRE 76
.53-.76 NGUYEN 73
.55 MAKAROV 72
.55-.71 SHADJA 70
.72-1.1 DOLBEAU 74
.74 BINNIE 73
.85-1.1 COLBEAU 76
1.0 ZSEMBERY 69
1.2 NASH 70
1.6-3.2 DUBAL 69
1.7 BASILE 71F
1.7-3.2 JACOBS 71
2.0 BINNIE 73 MASS
EUTTAM 76
LEEPER 77
2.0-5.0 ROWER 70B
2.3 HAGOPIAN 70C
HAGOPIAN 70D
HAGOPIAN 73B
HAGOPIAN 73C
PEWITT 71
REYNOLDS 70D
2.4 LEEPER 77
REYNOLDS 70D
2.8 EATON 73B
EATON 70C
EATON 72
LALPENS 71
3.0 KRAMER 74B ANGP,
MASS
WICKLUND 77 ANGP,
CS,MASS
3.2 LEMOIGNE 74
3.7-4.0 GOLCHABER 69C
3.9 ABRAMOVICH 70B
BERLAD 74 CS,MASS
BERLAD 74B ANG,
MASS
DEVENSHI 74 CS
FABER 74 CS,MASS
LOUIE 73
4.0 KRAMER 74B ANGP,
MASS
WICKLUND 77 ANGP,
CS,MASS
4.4 JACQUES 74
KARTAMYSHEV 72
KARTAMYSHEV 74
4.5 HOLLOWAY 74
JACQUES 73

PI- P --> (CONT.)

+N PI+ PI- (CONT.)
JORDAN 72
KARAMYSHEV 76
AMAGLOBELI 76D CS
5.0 GLAGOLEV 73C
GRAMENITSKII 76 MASS
SRINIVASAN 75 ANGP,
MASS
6.0 GORDON 73 ANGP,
MASS
KEK-12 FV
KRAMER 74E ANGP,
MASS
WICKLUND 77 ANGP,
CS,MASS
7.0 CARROLL 72 PWA
CH 69E
CH 69C
8.0 BOCKMANN 73 AMP,
ANGP,CS,MASS
JANE 74 MASS
MILLET 75
STUNTEBECK 70
TAKAHASHI 72D
YARUKI 73
11. 12. CORDEN 77D ANG,
ANGP,MASS
SLAC-EC-258 ANG
14. CHADWICK 77 ANGP,
MASS
CCHS 74 PWA
CCHS 75
15. BAILLON 71
CORDEN 77C ANG,
ANGP,MASS
RATCLIFF 72
WILLIAMS 72B
16. BOCKMANN 73 AMP,
ANGP,CS,MASS
GRASSLER 74 CS
GRASSLER 75B CS
CTTEF 77 CS,MASS
PWA
PLCTHCW 75 ANG,
ANGP,CS,MASS
17. BECKER 76
CERN-S-136
COHEN 75
ESTABECKS 73B
ESTABECKS 74
ESTABROOKS 74E
ESTABROOKS 74C
ESTABROOKS 75
PROGGATT 75
GRAYER 71C
GRAYER 72
GRAYER 72B
GRAYER 72C
GRAYER 73B
GRAYER 74
HYAMS 73B
HYAMS 74
HYAMS 75
MANNER 74
MARTIN 73
MARTIN 74C AMP
MARTIN 76B
ROBERTSON 73
30. CERN-HA-003 FV
BARKOV 75B
BARKOV 76B
FNAL-110A
CERN-HA-003 FV
CERN-HA-003 FV
FNAL-110A
FNAL-110A
BAILLON 73
CHAN 70C
DENDNUE 77
HYAMS 75B ANG,
ASYM,MASS
+N PI+ ANYTHING
GENSCH 71 MASS,PT
+N PIO GAMMA
.38 BUNYATOV 74C
BOLOTOV 75B MASS
BOLOTOV 75B MASS
BOLOTOV 75B MASS
BOLOTOV 75B MASS
APEL 75F MASS
BOLOTOV 75B MASS
BOLOTOV 75B MASS
48. BOLOTOV 75B MASS
+N 2PIO
.38 BUNYATOV 76C
MAUNG 73

PI- P --> (CONT.)

+N 2PIO (CONT.)
.39 KRAVTSOV 74
.57 BUNIATOV 72
DAINEY 71
.74 BINNIE 73
1.3 GLEESON 69
1.5 GLEESON 69
1.6 SKUJA 72B
SKUJA 73
1.6-2.4 SKUJA 72
1.8 SKUJA 73
2.0 BINNIE 73 MASS
SKUJA 73
VILLET 73
2.2 SKUJA 73
2.4 SKUJA 72B
SKUJA 73
6.0 APEL 75D
8.0 APEL 75D
BOCKMANN 73 AMP,
ANGP,CS,MASS
12. APEL 75D
16. BOCKMANN 73 AMP,
ANGP,CS,MASS
20.-53. BOLOTOV 74B MASS
43. APEL 75B ANG,MASS
APEL 75F MASS
FRENCH 72 MASS
? APEL 76C
BOTKE 70
+N PI- ANYTHING
16. GEYSLEN 71 MASS,PT
+N ZETA
70. APEL 75C ANG,CS
+N OMEGA GAMMA
8.4 ZANFINO 77 ANG,
MASS
+N K+ K-
2.0 BUTTRAM 76
LEEPER 77
2.4 LEEPER 77
4.9 GLAGOLEV 75D CS
6.0 COHEN 76 MASS
MARTIN 76B ANG
PAWLICKI 75 ANG,
MASS
PAWLICKI 76 ANGP,MASS
PAWLICKI 76C ANG,
ANGP,CS,MASS
PAWLICKI 76D AMP,
ANGP,MASS,PWA
HYAMS 73 MASS
9.6 MATTIG 76 ANG,
MASS
10. DIETL 70
11. WILLIAMS 72B
15. CERN-S-136
17. BLUM 72
18. MARTIN 76B
WATERS 70
25. CERN-HA-003 FV
30. FNAL-110A
50. CERN-HA-003 FV
83. CERN-HA-003 FV
100 FNAL-110A
200 FNAL-110A
? HYAMS 75B ANG,
MASS
PAWLICKI 76 ANGP,
ANG
+N K0 AKO
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+N 2KS
4.0 HUANG 69B
PHELAN 73
4.9 GLAGOLEV 75D CS
HUANG 69B
6.0 POLYCHRONAKO 76
7.0 POLYCHRONAKO 76
8.9 BOUSKO 75 PWA
WETZEL 76 ANG,
ANGP,CS,MASS
20. KRAMER 74 ANGP
25. WATERS 73
40. BALOSHIN 76 ANG,
ANGP,CS,MASS
? CASON 76 AMP,ANG,
ANGP,MASS
+N K+K(UNSPECIO AK+(UNSPECIO
23.-25. BNL-679 FV
+N 00 A00
43. APEL 76 CS

PI- P --> (CONT.)

+N LAMBDA ALAMBDA
7.0 BEUSCH 68
12. BEUSCH 68
40. BARKOV 75C CS,
MASS
50. BARKOV 75C CS,
MASS
+N11470810 PI+ ANYTHING
16. GENSCH 71 MASS,PT
+DELO+ 2PI-
2.7-4.2 COLTON 71D
3.2 VETLITSKII 68
3.9 FERRANDO 73
FERRANDO 73B
GANDOIS 75 MASS
LOSIY 74B
4.0 SCHARRE 77 MASS
4.4 BEKETOV 70B
BEKETOV 74C
4.5 BEKETOV 70C
BEKETOV 74B
BEKETOV 74F
4.6 BEKETOV 74C ANG,
ANGP,MASS,PWA
5.0 BORESKOV 74 ANG,
ANGP,MASS
14. CHADWICK 77 ANGP,
MASS
ROSENFELC 77 ANC,
DME
16. BOSETTI 75D ANG,
ANGP,CS,MASS
GRASSLER 76 ANG,
ANGP,CS,MASS
18. LICHTMAN 74
? KAMALOV 76B ANG,
ANGP,MASS
+DEL++ PI- ANYTHING
15. BRICK 73 ANGP,CS,
MASS,P,PT
16. GENSCH 71 MASS,PT
PLESS 73 MASS
303 PLESS 73 MASS
+DELO PI+ PI-
3.9 GANDOIS 75 MASS
13 PSLEP 70C
+DELC 2PIO
10. SHIBATA 70
+K+(UNSPECI+ CMEGA PI-
150 ENAL-C86 ANGP
+LAMBDA PI+ PI-
4.C KUZNETSOV 6C
+LAMBDA PI+ ANYTHING
4.3 ALESHIN 75
4.5-4.8 ALESHIN 75B
4.8 ALESHIN 75
250 BOGERT 75 CS,MASS
+LAMBDA PI- ANYTHING
4.3 ALESHIN 75
4.5-4.8 ALESHIN 75B
4.8 ALESHIN 75
250 BOGERT 75 CS,MASS
+LAMBDA K+ PI-
4.3 ALESHIN 76
4.8 ALESHIN 76
4.9 GLAGOLEV 75D CS
7.0 LYNCH 71
? LYNCH 71
+LAMBDA K+ ANYTHING
4.3 ALESHIN 75C
4.8 ALESHIN 75C
4.9 GLAGOLEV 75D CS
+LAMBDA KO PIO
4.9 GLAGOLEV 75D CS
7.0 LYNCH 71
+LAMBDA KO OPRONG
40. BALEA 74B CS
+LAMBDA KO NEUTRALS
4.8 ALESHIN 74B
+LAMBDA KO ANYTHING
4.3 ALESHIN 75C
4.8 ALESHIN 75C
4.9 GLAGOLEV 75D CS
40. BALEA 74B CS
+LAMBDA KS NEUTRALS
20. BNL-705 MASS
+LAMBDA KS ANYTHING
20. BNL-688 ANG,MASS,
PCL
360 FNAL-384 FV
+LAMBDA K+B9Z1+ PI-
4.5-4.8 ALESHIN 75B

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)

+LAMBDA K+(1420)+ PI-
4.5-4.8 ALESHIN 75B
+LAMBDA ALAMBDA NEUTRALS
18. LICHTMAN 76
+LAMBDA ALAMBDA NEUTRALS)
20. BNL-705 MASS
+LAMBDA ALAMBDA ANYTHING
18. LICHTMAN 76
360 FNAL-384 FV
+LAMBDA 2PRONG
4.2 ABDURAKHIMOV 73E
CS
BALEA 74B CS
+ELAMB : PI+ ANYTHING
250 BOGERT 75 CS,MASS
+ELAMBDA PI- ANYTHING
250 BOGERT 75 CS,MASS
+ELAMBDA KS NEUTRALS
20. BNL-705 MASS
+ELAMBDA KS ANYTHING
360 FNAL-384 FV
+NILAMBDA) 2PRONG
15. PORTER 77 MULT
+SIGMA+ K+ ANYTHING
4.9 GLAGOLEV 75D CS
+SIGMA+ KO PI-
4.9 GLAGOLEV 75C CS
+SIGMA+ KO ANYTHING
4.9 GLAGLEV 75D CS
+SIGMA- K+ PI3
4.9 GLAGOLEV 75D CS
+SIGMA- K+ ANYTHING
4.5 GLAGOLEV 75C CS
+SIGMA- KO PI+
4.5 GLAGOLEV 75D CS
+SIGMA- KO ANYTHING
4.9 GLAGOLEV 75D CS
+SIGMA- 2ANYTHING
4.9 GLAGOLEV 74 CS
+Y*(UNSPEC) K*(UNSPEC) PIONS
20.-25. ENL-679 FV
+XI- K+ KO
4.5 ALESHIN 77
+HYPERON KACN PION
1.4 MARTIN 77B
+ZCHARM ANYTHING
200 BLANAR 76 CS
240 BLANAR 76 CS
+KINK+ 2PRONG
4.8 ALESHIN 73B
+KINK- 2PRONG
4.8 ALESHIN 73B
+VEE 2PRONG
4.0 PCLYCHRONAKO 74
CS
5.0 PCLYCHRONAKO 74
CS
6.0 PCLYCHRONAKC 74
CS
7.C PCLYCHRONAKO 74
CS
8.0 PCLYCHRONAKO 74
CS
+VEE 2PRONG
4.8 ALESHIN 73B
40. BALEA 74B CS
+N(VEE) 2PRONG
40. ANGELOV 75D MULT
+ZCHARGED+ ANYTHING
200 KENNEY 75
+CHARGED+ CHARGED- ANYTHING
200 KENNEY 75
+ZCHARGED- ANYTHING
200 KENNEY 75
+ZCHARGED ANYTHING
40. ANGELOV 76P ANG,P
200 SREEDHAR 76 P
+NICHARGED) ZANYTHING
4.9 GLAGOLEV 74 MULT
+3PRONG
14. FONG 74 CS
+2PRONG NEUTRALS
400 MORRIS 75 CS,P
+3GAMMA ANYTHING
20. DAHL 76B ANG,MASS
40. DAHL 76B ANG,MASS
GERDYUKOV 75 CS
60. DAHL 76B ANG,MASS
100 DAHL 76B ANG,MASS
150 DAHL 76B ANG,MASS
150-300 FNAL-192
200 DAHL 76B ANG,MASS

PI- P --> (CONT.)

+2GAMMA CHARGED ANYTHING
40. ANGELOV 76P ANG,P
+2MUON E- ANYTHING
225 CCOK 76B CS
+3PION NEUTRALS)
40. GERDYUKOV 75 CS
+2PI+ PI- ANYTHING
100 SVRCEK 76 MASS
+2PI+ 2PRONG
5.0 LEBEDEV 74 P
+PI+ PIO PI- CHARGED
6.0 BARTKE 76E MASS
16. BARTKE 76E MASS
23. BARTKE 76E MASS
+PI+ PI- NIPI+) ANYTHING
40. ABDURAKHMANO 74
MULT
+PI+ PI- N(PI-) ANYTHING
CS,MASS
MULT
+PI+ 2PI- ANYTHING
100 SVRCEK 76 MASS
+PI+ PI- 2PRONG
5.0 LEBEDEV 74 P
6.0 LEBEDEV 74 P
147 FONG 74 P
+3PIO CHARGED
5.0 AMAGLOBELI 76D CS
+3PIO ANYTHING
3.5 BARMIN 73C
+2PI- 2PRONG
5.0 LEBEDEV 74 P
200 BISWAS 75 P
+PI- 3PRONG
5.0 LEBEDEV 74 P
8.0 GO 75
18. GO 75
147 FONG 74 P
+3PIO CHARGED
5.0 AMAGLOBELI 76D CS
+3PIO ANYTHING
3.5 BARMIN 73C
+2PI- 2PRONG
5.0 LEBEDEV 74 P
200 BISWAS 75 P
+PI- 3PRONG
5.0 LEBEDEV 74 P
6.0 LEBEDEV 74 P
FONG 74 P
SMITH 75E P
+NEK+) 3ANYTHING
4.9 GLAGOLEV 74 MULT
+NK+) 3ANYTHING
4.9 GLAGOLEV 74 MULT
+KO AKO 2PRONG
40. ABDURAKHIMOV 73E
CS
BALEA 74B CS
+KS PI+ PI- ANYTHING
250 BOGERT 75 CS,MASS
+P 3GAMMA
150-300 FNAL-192
+P 2MU- ANYTHING
200 FNAL-411 FV
+P MU- MU+ ANYTHING
200 FNAL-411 FV
+P 2MU+ ANYTHING
200 FNAL-411 FV
+P 3PION
1.4-2.8 LENGACPT 76B
+P 2PI+ PI-
ROST 72
+P PI+ 2PI-
1.0-2.0 UPADHYAY 73E MASS
2.7 KLEIN 69
2.2-20. PALER 70
3.9 FERRANDO 73
FERRANDO 73B
GANDOLFI 75 ANG,
ANGP,MASS,PWA
LOSTY 74 CS,MASS,
PWA
LCSTY 74B
4.0 SCHARRE 77 ANGP,
MASS
4.4 BEKETOV 71B
BEKETOV 74E
4.5 BEKETOV 74
BEKETOV 74B
BEKETOV 74D
BEKETOV 74F
BEKETOV 75C
KLIGER 73
4.9 BDETTCHER 74
5.0 AMAGLOBELI 76D CS
BORESKOV 74 MASS
BORESKOV 74B MASS
BROCKWAY 66 ANG,
ANGP,MASS,PWA
JONES 70E
5.0-25. KRUSE 71B
6.0 CRENNELL 70D
GALLINARO 70
6.7 VCNKRCGH 68
VCNKRCGH 69

PI- P --> (CONT.)

+P PI+ 2PI- (CONT.)
7.0 CHUNG 75C PWA
MORSE 72
STRAKHMAN 69
BROCKWAY 68 ANGP,
8.0 ABASHIAN 75 MASS,
MULT
ABASHIAN 75B ANGP,
MASS
BOSETTI 75C
CHUNG 75C PWA
MORRIS 75C
RHINES 75 MASS
SALMERON 72 ANGP
BENKHEIRI 77B
MASS
FERRERSORIA 77
ANGP,
CS,MASS
DZHOVANI 62 CS
TAKIBAEV 74F
KOCHINSKI 69
THOMPSON 75
ASCOLI 71C
BENKHEIRI 77B
MASS
FERRERSORIA 77
ANGP,
CS,MASS
BALLAM 70D
BOSI 75B PT
CHUNG 75C PWA
GRASSLER 73 P
GRASSLER 74 CS
GRASSLER 76 CS,
MASS
SALMERON 72 ANGP
LICHTMAN 76
BRANTSBURG 70B
HARRISON 72D
SALZBERG 72
CHUNG 75C PWA
ANTIPOV 73H ANGP,
CS,MASS,PWA
ANTIPOV 73I ANGP,
CS,MASS,PWA
ANTIPOV 76C ANG,
MASS,PWA
ASCOLI 74F PWA
KLANNER 73
ROBERTSON 71
ANGELOV 76C CS,
MASS
ANTIPOV 72B
ANTIPOV 73H ANGP,
CS,MASS,PWA
ANTIPOV 73I ANGP,
CS,MASS,PWA
ASCOLI 74F PWA
FNAL-110A
CERN-HA-006 ASYM
FNAL-110A
SMYSER 75
FNAL-299 ANGP
FNAL-110A
ABRAMS 73 ANGP,CS,
MASS
BINGHAM 74 ANG,CS,
MASS
CHEW 73C P
CHEW 74 P
TALLING 74B CS
MASS
WINKELMANN 73C CS,
MASS
FNAL-215 FV
ASCOLI 74D
BERGIER 75
ROST 72
+P PI+ PI- ANYTHING
BRICK 73 MASS
PLESS 73 MASS
SVRCEK 76 MASS
PLESS 73 MASS
+P PI+ 2PRONG
5.2 LEBEDEV 74 P
+P 2PIO PI-
5.0 AMAGLOBELI 76D CS
FNAL-289 ANGP

PI- P --> (CONT.)

+P PI- 2GAMMA
5.0 BUDAGOV 71B MASS
6.0 UNDERWOOD 75 MASS
+P 2PI- ANYTHING
100 SVRCEK 76 MASS
+P RHO+ 2PI-
18. CASON 73
+P RHOO PIO PI-
4.5 KLIGER 74
18. CASCN 73
+P RHO- PI+ PI-
18. CASON 73
+P K+ K- PI-
4.0 SCHARRE 77 MASS
4.4 GLAGOLEV 75D CS
9.0 FERRERSORIA 77
ANGP,
CS,MASS
12. FERRERSORIA 77
ANGP,
CS,MASS
16. OTTER 75C ANGP,CS,
DME,MASS,PWA
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+P KO K- PI0
4.5 GLAGOLEV 75D CS
+P 2KS PI-
4.9 GLAGCLEV 75D CS
+2P AP PI-
4.0 BENKHEIRI 77 MASS
12. BENKHEIRI 77 MASS
HAVACH 76 CS,MASS
16. EVANGELISTA 77B
MASS
18. LICHTMAN 76
+P 2AP PI-
9.0 FERRERSORIA 77
ANGP,
CS,MASS
12. FERRERSORIA 77
ANGP,
CS,MASS
+P 3PRONG
5.0 LEBEDEV 74 P
8.0 GO 75
18. GO 75
205 TRILLING 74B CS,
MASS
+N 2GAMMA NEUTRAL(S)
3.0 SIGURDSCN 73
MASS
+N PI+ PIO PI-
3.0 HOLLEWAY 73
4.5 HOLLEWAY 73
JORDAN 72
5.0 AMAGLOBELI 76D CS
5.5 HOLLOWAY 73
6.0 ANL-E-380 MASS
SHAEVITZ 75 MASS
SHAEVITZ 75B ANGP,
MASS
STANTON 75 ANGP,
MASS
6.0 COWELL 75B MASS
JANE 74 MASS
EDWARDS 76C
6.5 ANL-E-397
STANTON 75
12. CORDEN 77B
CORDEN 77C MASS,
PWA
COWELL 75 DME,
MASS
COWELL 75B MASS
15. CORDEN 77B
CORDEN 77C MASS,
PWA
+N PI+ PI- GAMMA
8.0 JANE 74 MASS
+N PI+ PI- P(G(3)
4.0 GRISHIN 69
+N PI+ PI- PM,GE.1
- P2-L.1 DOLBEAU 74
+N ETA PI+ PI-
6.0 ANL-E-380 MASS
8.4 EDWARDS 76D
8.5 ANL-E-397
100 STANTON 75
+N RHOO PI+ PI-
4.5 NILOV 76B
+N OMEGA PI+ PI-
9.3 ANL-E-42E

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 3468 TO 3579

PI- P --> (CONT.)		
+N K+ AKO PI-		
4.9	GLAGOLEV 75D	CS
+N KO K- PI+		
4.9	GLAGOLEV 75D	CS
+N ZK5 PIO		
40.	APEL 76	MASS
+DEL++ PIO 2PI-		
4.0	SCHARRE 77	MASS
18.	CASON 73	
+DEL++ ETA 2PI-		
13.	DEBONTE 75	
+DEL++ RHOO 2PI-		
13.	DEBONTE 75	
+DEL+ OMEGA 2PI-		
13.	DEBONTE 75	
+DEL+ PI+ 2PI-		
4.5	NELOV 76B	
18.	CASON 73	
+DEL- 2PI+ PI-		
4.5	NELOV 76B	
+LAMBDA PI+ PI- ANYTHING		
250	BOGERT 75	CS,MASS
+LAMBDA K+ PIO PI-		
3.4	YAFFE 74	
4.0	KUZNETSOV 69	
4.3	ALESHIN 76	
4.8	ALESHIN 74	
4.9	GLAGOLEV 75D	CS
+LAMBDA K+ PI- NEUTRAL(S)		
4.8	ALESHIN 74	
+LAMBDA KO PI+ PI-		
4.3	ALESHIN 76	
4.8	ALESHIN 74	
+LAMBDA KO 2PRONG		
40.	BALEA 74B	CS
+LAMBDA KS N(PRONG) ANYTHING		
40.	ABOURAKHIMOV 73E	
		MULT
+LAMBDA LAMBDA 2PRONG		
18.	LICHTMAN 76	
+LAMBDA PI+ PI- ANYTHING		
250	BOGERT 75	CS,MASS
+SIGMA+ K+ 2PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA+ KC PIO PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA- K+ PI+ PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA- KO PI+ PIO		
4.9	GLAGOLEV 75D	CS
+STRANGE 3PRONG		
4.9	GLAGOLEV 75D	CS
+2VEE 2PRONG		
4.8	ALESHIN 73B	
+4PRONG		
4.8	ALESHIN 73B	
4.9	BOETTCHER 74	
	GLAGOLEV 74	CS
5.0	AMAGLOBELI 76D	CS
6.0	KEK-006	FV
8.0	PCNERS 73	
10.	ELLIOTT 77	
11.	GAITINOV 76	ANGP,
		P,PT
14.	RCSENFELC 7T	CS
18.	POWERS 73	
40.	ABESALASHVIL 75B	
		CS
	APAILCBELI 74	CS
	ANGELOV 76E	CS,
		MASS,P
	ANGELOV 76I	CS,P
	BALEA 74B	CS
	GRISHIN 76	
	KLADNITSKAYA 76	P
50.	AKOPDZHANOV 74	CS
	FRANCESOVIET 74C	
		CS
147	FCNG 74	CS
	FONG 76	P
	FONG 76C	CS
200	LAMSA 76	P
205	BOGERT 73	CS
	FRETTER 75	CS
	TRILLING 74B	CS
	WINKELMANN 73	
		MASS
	WINKELMANN 73B	CS
360	FIRESTONE 76	CS
+GAMMA ANYTHING		
40.	GERDYUKOV 75	CS
150-300	FNAL-192	

PI- P --> (CONT.)		
+GAMMA 4PRONG		
40.	ANGELOV 76B	ANG
+N(GAMMA) 4PRONG		
15.	PCRTER 77	MULT
40.	ABESALASHVIL 75B	
		MULT
	ANGELOV 75D	MULT
	GRISHIN 76	MULT
+GAMMA(S) 4PRONG		
18.	BISWAS 74	
+2MUON E- VEE ANYTHING		
225	COOK 76B	CS
+PION NEUTRAL(S)		
40.	GERDYUKOV 75	CS
+PION(S) 4CHARGED		
10.	ELLIOTT 77	
+N(PIO) 4PRONG		
40.	ANGELOV 75D	MULT
	GERDYUKOV 75	MULT
+2PI+ 2PI- NEUTRALS		
205	ABRAMS 73	CS
+2PI+ 2PI- NEUTRAL(S)		
4.0	AZIMOV 68B	
+2PI+ 2PI- ANYTHING		
100	SMIRER 76	MASS
+PI+ PI- 2GAMMA XM.GE.2		
6.0	SHAEVITZ 75	MASS
	SHAEVITZ 75B	MASS
+PI+ 4PRONG		
18.	BOSETTI 73	
+4PI0 CHARGED		
5.0	AMAGLOBELI 76D	CS
+PI- 3CHARGED NEUTRAL(S)		
7.5	BALEA 73	
+PI- 4PRONG		
18.	BOSETTI 73	
+PIPO 4PRONG		
40.	ANGELOV 76G	CS
147	FCNG 75B	CS
200	BISWAS 75	
	PCRTER 77	MULT
40.	ABOURAKHIMOV 73E	
		MULT
+K0 AKO PI+ PI- ANYTHING		
200	FNAL-369	
?	FNAL-369	
+K5 4PRONG		
40.	BALEA 74B	CS
+P AGAMMA		
150-300	FNAL-192	
+P PI+ PIO 2PI-		
4.0	SCHARRE 77	ANGP,
		MASS
4.5	BEKETOV 75D	
	DAVIDSON 74B	
	KLIGER 74	
4.9	BOETTCHER 74	
5.0	AMAGLOBELI 75	CS
	AMAGLOBELI 76D	CS
	AMAGLOBELI 76G	CS
6.0	CAVIDSON 74B	MASS
	LEE 70	
8.0	CASCN 70	
9.0	BENKHEIRI 77B	
		MASS
9.1	ARMENISE 73	CS,
		MASS
	ARMENISE 73B	CS,
		MASS
	ANL-E-428	
9.3	FORING 76B	CS
11.	GESSARDLI 77	
12.	BENKHEIRI 77B	
		MASS
	NAVACH 76	CS,MASS
13.	BRANDENBURG 76C	
14.	DAVIDSON 74B	MASS
16.	BALEA 73D	CS
	BOSETTI 75B	PT
	GRASSLER 74	CS
18.	CASON 73	
20.	BRANDENBURG 70C	
40.	ANTIPOV 73K	ANGP,
		MASS
150	*FNAL-C89*	ANGP
+P PI+ 2PI- PIOS		
3.9	LOSTY 74B	
4.9	BOETTCHER 74	
+P PI+ 2PI- NEUTRALS		
16.	BOSETTI 73	
	GRASSLER 76D	ANG,
		CS,MASS
205	ABRAMS 73	CS
7	ABRAMS 73	CS

PI- P --> (CONT.)		
	FNAL-38B	ANGP
+P PI+ 2PI- ANYTHING		
360	FNAL-38B	FV
+P 3PIO PI-		
5.2	AMAGLOBELI 76D	CS
150	FNAL-C89	ANGP
+P PI- 3GAMMA		
5.0	BUDAGOV 71B	MASS
+P ETA PI+ 2PI-		
13.	DEBONTE 75	
16.	BARTKE 76E	CS
+P ETA 3CHARGED		
16.	MALHOTRA 76B	CS
+P RHOO PI+ 2PI-		
13.	DEBONTE 75	
+P RHOO 3CHARGED		
16.	MALHOTRA 76B	CS
+P OMEGA PI+ 2PI-		
13.	DEBONTE 75	
19.	WCODWORTH 76	CS
+P OMEGA 3CHARGED		
16.	MALHCTRA 76B	CS
+P PHI PI+ 2PI-		
19.	WCODWORTH 76	CS
+P PI+ PI+ 2PI-		
13.	*DEBONTE 75*	
+P K+ K- PIO PI-		
4.9	GLAGOLEV 75D	CS
+P K+ K- RHOO PI-		
19.	WCODWORTH 76	CS
+P K+ K- PHI PI-		
19.	WCODWORTH 76	CS
+P K0 K- PI+ PI-		
4.9	GLAGOLEV 75D	CS
+P 2K5 PIO PI-		
4.9	GLAGOLEV 75D	CS
+P K5 K- PI+ PI-		
4.8	ALESHIN 74	
13.	DEBONTE 75	
+2P AP PIO PI-		
12.	NAVACH 76	CS,MASS
16.	EVANGELISTA 77B	
		MASS
+P N AP PI+ PI-		
16.	EVANGELISTA 77B	
		MASS
+P 4PRONG		
16.	BOSETTI 73	
+N AGAMMA		
70.	APEL 75C	MASS
+N 3GAMMA NEUTRAL(S)		
3.8	SIGURDSON 73	
		MASS
+N 2PI+ 2PI-		
3.9	LOUIE 73	
4.9	NILOV 76B	
4.9	BOETTCHER 74	
5.0	AMAGLOBELI 76D	CS
6.0	POWERS 68	
11.	LESTIENNE 73	PT
16.	BOSETTI 75B	PT
	GRASSLER 74	CS
50.	FNAL-110A	
100	FNAL-110A	
200	FNAL-110A	
+N PI+ 2PI- 2PIO		
5.0	AMAGLOBELI 76D	CS
6.5	ANL-E-420	
8.5	ANL-E-420	
+N PI+ PI- 2GAMMA		
5.0	BUDAGOV 71B	MASS
+N K+ K- PI+ PI-		
4.9	GLAGOLEV 75D	CS
20.-25.	BNL-679	FV
+N PI+ PI- 3PI-		
4.9	GLAGOLEV 75D	CS
20.-25.	BNL-679	FV
+N PI+ PI- 4PI-		
4.9	GLAGOLEV 75D	CS
+N 2K5 2PIO		
4.2	APEL 76	MASS
+DEL++ PI+ 3PI-		
13.	DEBONTE 75	
+LAMBDA K+ PI- 2PI-		
4.9	GLAGOLEV 75D	CS
20.-25.	BNL-679	FV
+LAMBDA K+ 2PIO PI-		
4.3	*ALESHIN 76*	
4.8	ALESHIN 76	
+LAMBDA KO PI+ PIO PI-		
4.3	ALESHIN 76	
4.8	ALESHIN 74B	
+LAMBDA KO PI+ PI- NEUTRALS		
4.8	ALESHIN 74B	
+LAMBDA KO PI+ PI- NEUTRAL(S)		
4.8	ALESHIN 74	

PI- P --> (CONT.)		
+LAMBDA 4PRONG		
40.	ABOURAKHIMOV 73E	
		CS
	BALEA 74B	CS
+N(LAMBDA) 4PRONG		
15.	PCRTER 77	MULT
+SIGMA+ K+ PIO 2PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA+ KO PI+ 2PI-		
4.9	GLAGOLEV 75D	CS
+SIGMAO KO PI+ PIO PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA- K+ PI+ PIO PI-		
4.9	GLAGOLEV 75D	CS
+SIGMA- KO 2PI+ PI-		
4.9	GLAGOLEV 75D	CS
+*KINK+ 4PRONG		
4.8	ALESHIN 73B	
+*KINK- 4PRONG		
4.8	ALESHIN 73B	
+VEE 4PRONG		
4.8	ALESHIN 73B	
40.	BALEA 74B	CS
+N(VEE) 4PRONG		
40.	ANGELOV 75D	MULT
+5PRONG		
11.	GAITINOV 76	ANGP,
		P,PT
147	FCNG 74	CS
+4PRONG NEUTRAL(S)		
100	MORRIS 75	CS,P
205	ABRAMS 73	ANGP,
		MASS
+5GAMMA ANYTHING		
40.	GERDYUKOV 75	CS
+5PION NEUTRAL(S)		
40.	GERDYUKOV 75	CS
+PI+ PI- 4PRONG		
147	FONG 75B	MASS
200	BISWAS 75	P
+PI+ 5PRONG		
8.0	GO 76	
18.	GO 76	
147	FONG 74	P
+5PIO CHARGED		
5.0	AMAGLOBELI 76D	CS
+6PRONG		
200	BISWAS 75	P
+PI- 5PRONG		
147	FONG 74	P
200	SMITH 75E	P
+KO AKO 4PRONG		
40.	ABOURAKHIMOV 73E	
		CS
	BALEA 74B	CS
+K5 4PRONG ANYTHING		
40.	ABOURAKHIMOV 73E	
		CS
+P 2PI+ 3PI-		
3.9	ABE 70	
	LOSTY 74B	
4.0	DEUTSCHMANN 75	P
5.0	AMAGLOBELI 76D	CS
6.1	DEUTSCHMANN 75	P
13.	DEBONTE 75	
16.	BOESEBECK 71	CS,
		MASS
	BOSETTI 75B	PT
	BOTTCHER 74	CS,P
	DEUTSCHMANN 75	P
	GRASSLER 76D	ANG,
		CS,MASS
25.	DEUTSCHMANN 75	P
40.	ANGELOV 76C	CS,
		MASS
150	FNAL-299	ANGP
+P PI+ 2PIO 2PI-		
5.0	AMAGLOBELI 75	CS
	AMAGLOBELI 76D	CS
	AMAGLOBELI 76G	CS
150	FNAL-089	ANGP
+P 4PIO PI-		
5.0	AMAGLOBELI 76D	CS
+P RHOO PI+ PIO 2PI-		
13.	*DEBONTE 75*	
+P 2K+ 2K- PI-		
19.	WCCDWORTH 76	MASS,
		P
+P K+ AKO PIO 2PI-		
4.9	GLAGOLEV 75D	CS
+P K+ K- PI+ 2PI-		
19.	WODDWORTH 76	MASS
20.-25.	BNL-679	FV
7	BNL-679	FV

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)
*P 2RS PI+ 2PI-
4.9 GLAGOLEV 75D CS
*2P AP PI+ 2PI-
16. EVANGELISTA 77B MASS
*P SPRONG
8.0 GO 75
18. GO 75
205 TRILLING 74B CS, MASS
*N 4GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73 MASS
*N 2PI+ PIO 2PI-
5.0 AMAGLOBELI 76D CS
*N PI+ PI- 2GAMMA
8.5 ANL-E-420 MASS
*N K+ KS PI+ 2PI-
20.-25. BNL-679 FV
*N K+ AKO PI+ 2PI-
4.6 GLAGOLEV 75D CS
*N K0 K- 2PI+ PI-
4.9 GLAGOLEV 75D CS
*OEL++ PI+ PIO 3PI-
13. DEBONTE 75 PT
*LAMBDA K+ PI+ PIO 2PI-
4.9 GLAGOLEV 75D CS
*LAMBDA K0 2PI+ 2PI-
4.9 GLAGOLEV 75D CS
*LAMBDA 2K0 PI+ PI- NEUTRALS
4.8 ALESHIN 74B
*LAMBDA K0 APRONG
40. BALEA 74B CS
*LAMBDA ALAMBDA APRONG
18. LICHTMAN 76
*SIGMA+ K0 PI+ PIO 2PI-
4.9 GLAGOLEV 75D CS
*STRANGE SPRONG
6.6 GLAGOLEV 75C CS
*6PRONG
4.5 GLAGOLEV 74 CS
5.0 AMAGLOBELI 76D CS
6.0 KEK-006 FV
8.0 POWERS 73
10. ELLIOTT 77
11. GAITINOV 76 ANGP, P,PT
18. POWERS 73
40. ABESALASHVIL 75B CS
AMAGLOBELI 74 CS
ANGELOV 76T CS,P
BALEA 74B CS
GRISHIN 76 CS
*LADNITSKAYA 76 P
AKOPDZHANOV 74 CS
FRANCESOVIET 74C CS
147 FONG 74 CS
FONG 76 P
FONG 76C CS
200 LAMSA 76 P
205 BGGER 73 CS
FRETTER 75 CS
TRILLING 74B CS
WINKELMANN 73 MASS
WINKELMANN 73C CS
360 FIRESTONE 76 CS
*4GAMMA ANYTHING
3.5 BARMIN 73C
40. GERDYUKOV 75 CS
*GAMMA 6PRONG
40. ANGELOV 75E ANGP, P,PT
ANGELOV 76B ANG
*N(GAMMA) 6PRONG
15. PORTER 77 MULT
40. ABESALASHVIL 75B MULT
ANGELOV 75D MULT
GRISHIN 76 MULT

PI- P --> (CONT.)
*GAMMA(S) 6PRONG
18. BISWAS 74
*6PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*6PRONG NEUTRALS
100 MORRIS 75 P
*GAMMA ANYTHING
40. GERDYUKOV 75 CS
*7PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*PI+ PI- 6PRONG
147 FONG 75B MASS
200 BISWAS 75 P
*PI+ 7PRONG
8.0 GO 75
18. GO 75
*2PI- 6PRONG
200 BISWAS 75 P
*K0 AK0 6PRONG
40. ABDURAKHIMOV 73E
BALEA 74B CS
*P 3PI+ 4PI-
16. BOSETTI 75B PT
43. ANGELOV 76C CS, MASS
*P 2PI+ 2PI0 3PI-
5.3 AMAGLOBELI 76D CS
150 FNAL-389 ANGP
*P PI+ 4PI0 2PI-
5.3 AMAGLOBELI 75 CS
AMAGLOBELI 76D CS
AMAGLOBELI 76G CS
*P 7PRONG
8.0 GC 75
18. GC 75
205 TRILLING 74B CS, MASS
*N 6GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73 MASS
*N 3PI+ PI0 3PI-
5.3 AMAGLOBELI 76C CS
*N 2PI+ 3PI2- 2PI-
5.3 AMAGLOBELI 75 CS
AMAGLOBELI 76C CS
AMAGLOBELI 76G CS
*N PI+ 5PI0 2PI-
5.3 AMAGLOBELI 76D CS
*LAMBDA K0 6PRONG
16. BALEA 74B CS
*STRANGE 7PRONG
4.9 GLAGOLEV 75D CS
*8PRONG
4.9 GLAGOLEV 74 CS
8.3 POWERS 73
13. ELLIOTT 77
200 BISWAS 75 P
*P RHO0 3CHARGED
13. DEBONTE 75 PT
*P RHO0 5CHARGED
16. MALHOTRA 76B CS
*P OMEGA 5CHARGED
16. MALHOTRA 76B CS
*P K+ AK0 PI+ 3PI-
20.-25. BNL-679 FV
*P K0 K- 2PI+ 2PI-
20.-25. BNL-679 FV
*P 8PRONG
16. BOSETTI 73
*N 6GAMMA
2.9 NOVIKOV 72
*N 5GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73 MASS
*N 3PI+ 3PI-
5.0 AMAGLOBELI 76D CS
16. BOSETTI 75B PT
*N 2PI+ 2PI0 2PI-
5.0 AMAGLOBELI 75 CS
AMAGLOBELI 76D CS
AMAGLOBELI 76G CS
*N PI+ 4PI0 PI-
5.0 AMAGLOBELI 76D CS
*N PI+ PI- 4GAMMA
8.5 ANL-E-420
*N K+ K- 2PI+ 2PI-
20.-25. BNL-679 FV
*LAMBDA 6PRONG
40. ABDURAKHIMOV 73E
BALEA 74B CS
*N(LAMBDA) 6PRONG
15. PORTER 77 MULT
*N(GAMMA) 6PRONG
15. PORTER 77 MULT
*WEE 6PRONG
40. BALEA 74B CS
*N(WEE) 6PRONG
40. ANGELOV 75D MULT

PI- P --> (CONT.)
*7PRONG
11. GAITINOV 76 ANGP, P,PT
147 FONG 74 CS
*6PRONG NEUTRALS
100 MORRIS 75 P
*7GAMMA ANYTHING
40. GERDYUKOV 75 CS
*7PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*PI+ PI- 6PRONG
147 FONG 75B MASS
200 BISWAS 75 P
*PI+ 7PRONG
8.0 GO 75
18. GC 75
*2PI- 6PRONG
200 BISWAS 75 P
*K0 AK0 6PRONG
43. ABDURAKHIMOV 73E
BALEA 74B CS
*P 3PI+ 4PI-
16. BOSETTI 75B PT
43. ANGELOV 76C CS, MASS
*P 2PI+ 2PI0 3PI-
5.3 AMAGLOBELI 76D CS
150 FNAL-389 ANGP
*P PI+ 4PI0 2PI-
5.3 AMAGLOBELI 75 CS
AMAGLOBELI 76D CS
AMAGLOBELI 76G CS
*P 7PRONG
8.0 GC 75
18. GC 75
205 TRILLING 74B CS, MASS
*N 6GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73 MASS
*N 3PI+ PI0 3PI-
5.3 AMAGLOBELI 76C CS
*N 2PI+ 3PI2- 2PI-
5.3 AMAGLOBELI 75 CS
AMAGLOBELI 76C CS
AMAGLOBELI 76G CS
*N PI+ 5PI0 2PI-
5.3 AMAGLOBELI 76D CS
*LAMBDA K0 6PRONG
16. BALEA 74B CS
*STRANGE 7PRONG
4.9 GLAGOLEV 75D CS
*8PRONG
4.9 GLAGOLEV 74 CS
8.3 POWERS 73
13. ELLIOTT 77
11. GAITINOV 76 ANGP, P,PT
18. POWERS 73
40. ABESALASHVIL 75B CS
AMAGLOBELI 74 CS
ANGELOV 76T CS,P
BALEA 74B CS
GRISHIN 76 CS
KLADNITSKAYA 76 P
53. AKOPDZHANOV 74 CS
FRANCESOVIET 74C CS
147 FONG 74 CS
FONG 76 P
FONG 76C CS
205 BGGER 73 CS
FRETTER 75 CS
TRILLING 74B CS
WINKELMANN 73 MASS
WINKELMANN 73C CS
FIRESTONE 76 CS
*4GAMMA ANYTHING
3.5 BARMIN 73C
40. GERDYUKOV 75 CS
*GAMMA 8PRONG
40. ANGELOV 76B ANG
*N(GAMMA) 8PRONG
15. PORTER 77 MULT
40. ABESALASHVIL 75B MULT
ANGELOV 75D MULT
GRISHIN 76 MULT

PI- P --> (CONT.)
*GAMMA(S) 8PRONG
18. BISWAS 74
*8PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*9PION NEUTRAL(S)
10. ELLIOTT 77
*N(PI0) 8PRONG
40. ANGELOV 75D MULT
GERDYUKOV 75 MULT
*PI+ 8PRONG
18. BOSETTI 73
*PI- 8PRONG
18. BOSETTI 73
*RHO0 8PRONG
40. ANGELOV 76G CS
147 FONG 75B CS
*N(K0) 8PRONG
15. PDG 78 77 MULT
40. ABCURAKHIMOV 73E MULT
7 ABDURAKHIMOV 73E MULT
*KS 8PRONG
40. ABDURAKHIMOV 73E
BALEA 74B CS
*P 3PI+ PI0 4PI-
16. BOSETTI 75B PT
*P ETA 3PI+ 4PI-
16. BARTKE 76E CS
*P RHO0 7CHARGED
16. MALHOTRA 76B CS
*P 8PRONG
16. BOSETTI 73
*N 7GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73
*N API+ 4PI-
16. BOSETTI 75B PT
*N K+ K- 3PI+ 3PI-
20.-25. BNL-679 FV
*LAMBDA 8PRONG
40. ABDURAKHIMOV 73E
BALEA 74B CS
*N(LAMBDA) 8PRONG
15. PORTER 77 MULT
*WEE 8PRONG
40. BALEA 74B CS
*N(WEE) 8PRONG
40. ANGELOV 75D MULT
*9PRONG
147 FONG 74 CS
*9PION NEUTRAL(S)
40. GERDYUKOV 75 CS
*PI+ PI- 8PRONG
147 FONG 75B MASS
200 BISWAS 75 P
*PI+ 9PRONG
8.0 GO 75
18. GO 75
*2PI- 8PRONG
200 BISWAS 75 P
*K0 AK0 8PRONG
42. ABDURAKHIMOV 73E
BALEA 74B CS
*P API+ 5PI-
40. ANGELOV 76C CS, MASS
*P OMEGA 7CHARGED NEUTRALS
16. MALHOTRA 76B CS
*P 9PRONG
8.0 GO 75
18. GO 75
*N 8GAMMA NEUTRAL(S)
3.8 SIGURDSSON 73 MASS
*LAMBDA K0 8PRONG
40. BALEA 74B CS
*10PRONG
8.0 POWERS 73
18. POWERS 73
40. ABESALASHVIL 75B
AMAGLOBELI 74 CS
BALEA 74B CS
GRISHIN 76 CS
KLADNITSKAYA 76 P
50. AKOPDZHANOV 74 CS
FRANCESOVIET 74C CS
147 FONG 74 CS
FONG 76C CS

REACTION/MOMENTUM INDEX (CONT'D)

PI- P --> (CONT.)
 200 LAMSA 76 P
 205 BOGERT 73 CS
 FRETTER 75 CS
 TRILLING 74B CS
 WINKELMANN 73C CS
 360 FIRESTONE 76 CS
•NIGAMMA) 10PRONG
 15. PORTER 77 MULT
 40. ABESALASHVIL 75B
 MULT
 GRISHIN 76 MULT
•GAMMA(S) 10PRONG
 18. BISWAS 74
•10PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•PI+ 10PRONG
 16. BOSETTI 73
•PI- 10PRONG
 16. BOSETTI 73
•AHDO 10PRONG
 40. AAGELOW 76G CS
•N(AS) 10PRONG
 40. ABDURAKHIMOV 73E
 MULT
•K$ 10PRONG
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS
•P 10PRONG
 16. BOSETTI 73
•LAMBDA 10PRONG
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS
•VEE 10PRONG
 40. BALEA 74B CS
•11PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•11PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•PI+ PI- 10PRONG
 200 BISWAS 75 P
•PI+ 11PRONG
 8.0 GD 75
 18. GD 75
•2PI- 10PRONG
 200 BISWAS 75 P
•K0 AK0 10PRONG
 40. BALEA 74B CS
•P 5PI+ 5PI-
 40. ANGELOV 76C CS,
 MASS
•LAMBDA K0 10PRONG
 40. BALEA 74B CS
•12PRONG
 8.0 PEWERS 73
 18. PEWERS 73
 40. ABESALASHVIL 75B
 CS
 AMAGLOBELI 74 CS
 BALEA 74B CS
 KLADNITSKAYA 76 P
 50. AKOPDZHANOV 74 CS
 FRANCESOVIET 74C
 CS
 147 FCNG 74 CS
 FCNG 76C CS
 200 LAMSA 76 P
 205 BOGERT 73 CS
 FRETTER 75 CS
 TRILLING 74B CS
 WINKELMANN 73C CS
 360 FIRESTONE 76 CS
•NIGAMMA) 12PRONG
 40. ABESALASHVIL 75B
 MULT
 GRISHIN 76 MULT
•GAMMA(S) 12PRONG
 18. BISWAS 74
•12PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•N(KS) 12PRONG
 40. ABDURAKHIMOV 73E
 MULT
•K0 2AK0 10PRONG
 40. ABDURAKHIMOV 73E
 CS
•K$ 12PRONG
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS
•LAMBDA 12PRONG
 40. BALEA 74B CS

PI- P --> (CONT.)
•VEE 12PRONG
 40. BALEA 74B CS
•13PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•13PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•PI+ 13PRONG
 8.0 GD 75
 18. GD 75
•K0 AK0 12PRONG
 40. ABDURAKHIMOV 73E
 CS
•14PRONG
 8.0 POWERS 73
 18. POWERS 73
 40. ABESALASHVIL 75B
 CS
 AMAGLOBELI 74 CS
 BALEA 74B CS
 50. AKOPDZHANOV 74 CS
 FRANCESOVIET 74C
 CS
 147 FCNG 74 CS
 FCNG 76C CS
 200 LAMSA 76 P
 205 BOGERT 73 CS
 FRETTER 75 CS
 TRILLING 74B CS
 WINKELMANN 73C CS
 360 FIRESTONE 76 CS
•14PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•N(KS) 14PRONG
 40. ABDURAKHIMOV 73E
 MULT
•K$ 14PRONG
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS
•LAMBDA 14PRONG
 40. ABDURAKHIMOV 73E
 CS
•VEE 14PRONG
 40. BALEA 74B CS
•15PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•15PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•K0 AK0 14PRONG
 40. ABDURAKHIMOV 73E
 CS
•16PRONG
 8.0 POWERS 73
 18. POWERS 73
 40. AMAGLOBELI 74 CS
 BALEA 74B CS
 50. AKOPDZHANOV 74 CS
 FRANCESOVIET 74C
 CS
 147 FCNG 74 CS
 FCNG 76C CS
 200 LAMSA 76 P
 205 BOGERT 73 CS
 FRETTER 75 CS
 TRILLING 74B CS
 WINKELMANN 73C CS
 360 FIRESTONE 76 CS
•16PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•N(KS) 16PRONG
 40. ABDURAKHIMOV 73E
 MULT
•K$ 16PRONG
 40. BALEA 74B CS
•LAMBDA 16PRONG
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS

PI- P --> (CONT.)
•VEE 16PRONG
 40. BALEA 74B CS
•17PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•17PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•K0 AK0 16PRONG
 40. ABDURAKHIMOV 73E
 CS
•18PRONG
 40. AMAGLOBELI 74 CS
 147 FCNG 74 CS
 FCNG 76C CS
 200 LAMSA 76 P
 205 BOGERT 73 CS
 FRETTER 75 CS
 363 FIRESTONE 76 CS
•18PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•19PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•19PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•20PRONG
 40. AMAGLOBELI 74 CS
 147 FCNG 74 CS
 FCNG 76C CS
 205 BOGERT 73 CS
 360 FIRESTONE 76 CS
•20PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•21PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•21PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•22PRONG
 147 FCNG 74 CS
 FCNG 76C CS
 205 BOGERT 73 CS
 360 FIRESTONE 76 CS
•22PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•23PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•23PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•24PRONG
 147 FCNG 74 CS
 FCNG 76C CS
 205 BOGERT 73 CS
 360 FIRESTONE 76 CS
•24PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•25PRONG
 147 FCNG 76C CS
•25PION NEUTRAL(S)
 40. GERDYUKOV 75
•26PRONG
 147 FCNG 76C
 360 FIRESTONE 76
•28PRONG
 360 FIRESTONE 76
•30PRONG
 360 FIRESTONE 76
•ANYTHING - PI- P
 8.0 POWERS 73
 18. POWERS 73
 250 NAGOPIAN 76 CS
•GAMMA 2PRONG
 40. ANGELOV 75E ANGP,
 P+PT
•PI+ PRONG - PI- P
 8.0 GD 75
 18. GD 75
 360 FIRESTONE 76 CS
•PI+ ANYTHING
 40. ANGELOV 75L P+PT
•PI0 N
 40. CHEZE 74
 55 CHEZE 74 CS
•PI3 ANYTHING
 40. ABDURAKHIMOV 73E
 CS
 BALEA 74B CS
 BALEA 76B CS

PI- P --> (CONT.)
-- PI- P
 2PRONG (CONT.)
 205 ABRAMS 73 ANGP,
 MASS
•PI- PRONG
 PI- 3PRONG
 200 KENNEY 75B P
•OMEGA N
 RHDO N
 4.0 KRAMER 74B
 4.0 KRAMER 74B
 6.0 KRAMER 74B
•N(KO) ANYTHING
 4.6 GLASGLEW 74 MULT
•K0 2AMBDA
 TRILLING 74B CS
 WINKELMANN 73C CS
 360 FIRESTONE 76 CS
•N(PION NEUTRAL(S)
 40. GERDYUKOV 75 CS
•19PRONG
 147 FCNG 74 CS
 FCNG 76C CS
•K0 ANYTHING
 AK0 ANYTHING
 4.9 GLASGLEW 74 CS
•K$ SIG(1385P)310
 K$ LAM(1405S01)
 8.0 FOLEY 76B ANGP,CS
 18. FOLEY 76B
 FOLEY 76B
•K•(1892)0 LAMBDA
 K•(1285)10 SIGMA0
 7.0 PEEKNA 71
•K•(1420)10 LAMBDA
 K•(1420)0 SIGMA0
 7.0 PEEKNA 71
•P PRONG - PI- P
 8.0 GD 75
 18. GD 75
•P ANYTHING - PI- P
 205 WINKELMANN 73B
 ANGP
•PI+ GAMMA ANYTHING
•P PI- GAMMA ANYTHING
 40. GRISHIN 75C P
•2PI+ ANYTHING
 2PI- ANYTHING
 100 SVFCEK 76 MASS
•2PI+ ANYTHING
•P 2PI- ANYTHING
 40. RANFT 76 P,PT
•PI- 2PRONG
 PI- 4PRONG
 205 ABRAMS 73 CS
•P NU- ANYTHING
 P NU+ ANYTHING
 200 BLANAR 76 MASS
 240 BLANAR 76 MASS
•P 2PRONG
 P 4PRONG
 205 ABRAMS 73 CS
•N 2PI0
 N PI0 GAMMA
 40. APEL 75B MASS
 4.6 GLASGLEW 74 MULT
•P K0 AK0 PI- NEUTRAL(S)
 K0 AK0 PI+ PI- NEUTRAL(S)
 4.8 ALESHIN 74
•GAMMA 10PRONG
 GAMMA 12PRONG
 40. ANGELOV 75E
-- PI- P
 2PRONG
 50. FRANCESOVIET 74C
 CS
 205 WINKELMANN 73 MASS
 WINKELMANN 73B
 MASS
•N(PI+) NUCLEON
 N(PI0) NUCLEON + N(PI-)
 NUCLEON
 5.0 AMAGLOBELI 76C
 MULT
 10. AMAGLOBELI 76C
 MULT
 AMAGLOBELI 76C
 MULT
 16. AMAGLOBELI 76C
 MULT
 40. AMAGLOBELI 76C
 MULT
•P PI0 PI-
 N PI+ PI- + N 2PI0
 .40-1.6 ROSENFELC 74B
 4.8 ALESHIN 74
 200 KENNEY 75B

REACTION/MOMENTUM INDEX (CONT'D)

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PI- N -->  (CONT.)
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*(NOT ENCODED)
  <40-1.2   KGRKEAAHD 738
  2.3       BENVENUTI 69
  5.0       DURUSOY 73
  12.       OH 72C
  40.       ABDURAKHIMOV 72
            ABDURAKHIMOV 72B
            ABDURAKHIMOV 72D
            ABDURAKHIMOV 74C
            ANGELOV 76N
            BALEA 72B
            BALEA 72C
            BUCHAREST 72
            GRISHIN 73C
            GRISHIN 73E
            JINR 73
            KLADNITSKAYA 75B
    ?       OH 72E
*SHOWER
  60.       ABDO 73          MULT
*(NCHARGED)
  205       DZIUNIKOWSKA 75
                             MULT
*PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
            KLADNITSKAYA 76B
                             MULT, P
                               P
*N(PRONG)
  40.       ABDURAKHIMOV 74E
                             MULT
            ABESALASHVIL 74B
                             MULT
            AEESALASHVIL 75B
                             MULT
            AMAGLOBELI 74
                             MULT
            ANGELOV 75E      MULT
            GEMESY 76        MASS, P
                             MULT,P
            KLADNITSKAYA 76B
                             MULT
*ANYTHING
  15.-60.   DENISOV 73B      CS
  40.       BALEA 74B        CS
*INELASTIC
  40.       ABDURAKHIMOV 74E
                               CS
*STAR
  17.       AZIMOV 76J
*GAMMA N
  150-300   FNAL-152
*GAMMA HADRONS
  150-300   FNAL-192
*GAMMA ANYTHING
  40.       ABDURAKHIMOV 73C
            ABDURAKHIMOV 74E
                               P,
                               PT
            ANGELOV 76K
            BALEA 73B        ANGP,P
                               PT
            BUDA 73
  150-300   FNAL-192
  205       CSORNA 77        CS
*N(GAMMA) +GT.5PRONG
  40.       ANGELOV 75D      MULT
*N(GAMMA) PRONG
  15.       PORTER 77        MULT
  40.       ABESALASHVIL 75B
                             MULT
*N(GAMMA) ANYTHING
  40.       ANGELOV 75D      MULT
*E- HADRONS
  150-300   FNAL-192
*E+ HADRONS
  150-300   FNAL-152
*MU- HADRONS
  150-300   FNAL-192
*MU+ HADRONS
  150-300   FNAL-192
*N(PI+) ANYTHING
  40.       ABDURAKHIMOV 74E
                             MULT
*N(PI0) N(CHARGED)
  40.       BALEA 73B        MULT
*N(PI0) +GT.5PRONG
  40.       ANGELOV 75D      MULT
*N(PI0) ANYTHING
  40.       ABDURAKHIMOV 74E
                             MULT
            ANGELOV 75D      MULT
            BALEA 73B        MULT

PI- N -->  (CONT.)
-----------
*N(PI-) ANYTHING
  40.       ABDURAKHIMOV 74E
                             MULT
*PI+ ANYTHING
  40.       ABDURAKHIMOV 74E
                               P,
                               PT
  200       FNAL-338         FV
  400       FNAL-238         FV
    7       ANGELOV 77F
*PI0 ANYTHING
  205       CSORNA 77        CS
*PI- N
  1.4-4.0   ALIKHANOV 65
  1.5-3.5   ANTOPOLSKII 680
  4.6       FEMINO 64
  6.0-22.   GALBRAITH 65
  23.       BABAEV 72
  23.-40.   BABAEV 70
  40.       BABAEV 72
*PI- N(1700)810
  15.       HARRIS 76B       CS
*PI- ANYTHING
  40.       ABDURAKHIMOV 74E
                               P,
                               PT
  200       FNAL-338         FV
  400       FNAL-238         FV
    7       ANGELOV 77F
*RHO0 DEL-
  5.0       AMAGLOBELI 76F   CS
*A1(1030)0 DEL-
  7.0       COHEN 72
*P DEL-
  5.0       AMAGLOBELI 76F   CS
*K0(S) ANYTHING
  40.       ABDURAKHIMOV 73E
                               CS
*K0 P(0)BARYON
    7       GUSTAFSON 68
*K0 ANYTHING
  40.       ABDURAKHIMOV 74E
                               P,
                               PT
*K- ANYTHING
  40.       ANGELOV 76D      CS
            BALEA 74B        CS
  205       CSORNA 77        CS
*EXOTIC-MESON ANYTHING
  12.       NAVACH 76        CS
*N(N) ANYTHING
  40.       ANGELOV 76D      MULT
*LAMBDA ANYTHING
  40.       ABDURAKHIMOV 73E
                               CS
            ABDURAKHIMOV 74E
                               P,
                               PT
            ANGELOV 76D      CS
            BALEA 74B        CS
  205       CSORNA 77        CS
*N(LAMBDA) PRONG
  15.       PORTER 77        MULT
*ANYTHING VEE
  40.       BALEA 74B        CS
            JINR 73E
*ANYTHING VEE(S)
  40.       ABDURAKHIMOV 73E
                               CS
*ANYTHING N(CHARGED>4)
  40.       ANGELOV 76D      MULT
*ANYTHING N(CHARGED>1)
  40.       ANGELOV 76D      MULT
*ANYTHING N(CHARGED)
  40.       ANGELOV 76D      MULT
*2GAMMA HADRONS
  150-300   FNAL-192
*2GAMMA ANYTHING
  40.       ANGELOV 76       P
  150-300   FNAL-192
*GAMMA NEUTRAL ANYTHING
  40.       ANGELOV 76       P
*N(GAMMA) 2PRONG
  40.       ANGELOV 75D      MULT
*E- GAMMA HADRONS
  150-300   FNAL-192
*E- E+ HADRONS
  150-300   FNAL-192
*E+ GAMMA HADRONS
  150-300   FNAL-192
*MU- GAMMA HADRONS
  150-300   FNAL-192

PI- N -->  (CONT.)
-----------
*MU- E+ HADRONS
  150-300   FNAL-192
*MU- MU+ HADRONS
  150-300   FNAL-192
*MU+ MU+ ANYTHING
  150       FNAL-331         ANGP,P
*MU+ GAMMA HADRONS
  150-300   FNAL-192
*MU+ E- HADRONS
  150-300   FNAL-192
*N(PI0) 2PRONG
  40.       ANGELOV 75D      MULT
*PI+ GAMMA ANYTHING
  40.       ANGELOV 76       P
*2PI+ ANYTHING
  40.       ANGELOV 76L      P
*PI+ PI- ANYTHING
  40.       ANGELOV 76L      P
*2PI- GAMMA ANYTHING
  40.       ANGELOV 76       P
*2PI- ANYTHING
  40.       ANGELOV 76L      P
*P 2PI-
  .33       KRAVTSOV 76
  .36       KRAVTSOV 76
  .43       KRAVTSOV 76
  2.3       BENVENUTI 69
  7.0       COHEN 72C
  15.       HARRIS 76B       ANG,
                             ANGP,CS,MASS,
                               P
    7       COHEN 72C
*P PI- ANYTHING
  200       FNAL-338         FV
  400       FNAL-338         FV
*N 2GAMMA
  150-300   FNAL-152
*N RHO0 P1-
  5.0       AMAGLOBELI 76F
                             ANGP,
                             CS,DME
*N F PI-
  5.0       AMAGLOBELI 76F   C,
*N SIGMA- K0
    7       GUSTAFSON 68
*DEL- PI+ PI-
  5.0       AMAGLOBELI 76F
                             ANGP,
                             CS,DME
*2CHARGED ANYTHING
  40.       ANGELOV 76       P
            ANGELOV 76L      P
*3PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*3GAMMA ANYTHING
  150-300   FNAL-192
*GAMMA 3PRONG
  205       CSORNA 77        CS
*N(GAMMA) 3PRONG
  15.       PORTER 77        MULT
  40.       ABESALASHVIL 75B
                             MULT
*N(K0S) 3PRONG
  15.       PORTER 77        MULT
*K0 3PRONG
  205       CSORNA 77        CS
*N 3GAMMA
  150-300   FNAL-192
*N PI+ 2PI-
  5.0       AMAGLOBELI 74C
                             ANGP,
                             MASS,P
            AMAGLOBELI 76F   CS,
                             MASS
*LAMBDA 3PRONG
  205       CSORNA 77        CS
*N(LAMBDA) 3PRONG
  15.       PORTER 77        MULT
*4GAMMA ANYTHING
  150-300   FNAL-192
*N(GAMMA) 4PRONG
  40.       ANGELOV 75D      MULT
*N(PI-) 4PRONG
  40.       ANGELOV 75D      MULT
*P PI+ 3PI-
  12.       NAVACH 76        CS,MASS
*2P 4P 2PI-
  12.       NAVACH 76        CS,MASS
*N 4GAMMA
  150-300   FNAL-192
*5PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS

PI- N -->  (CONT.)
-----------
*GAMMA 5PRONG
  205       CSORNA 77        CS
*N(GAMMA) 5PRONG
  15.       PORTER 77        MULT
  40.       ABESALASHVIL 75B
                             MULT
*N(K0S) 5PRONG
  15.       PORTER 77        MULT
*K0 5PRONG
  205       CSORNA 77        CS
*LAMBDA 5PRONG
  205       CSORNA 77        CS
*N(LAMBDA) 5PRONG
  15.       PORTER 77        MULT
*N(GAMMA) 6PRONG
  40.       ANGELOV 75D      MULT
*N(PI0) 6PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*7PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*GAMMA 7PRONG
  205       CSORNA 77        CS
*N(GAMMA) 7PRONG
  15.       PORTER 77        MULT
  40.       ABESALASHVIL 75B
                             MULT
*N(K0S) 7PRONG
  15.       PORTER 77        MULT
*K0 7PRONG
  205       CSORNA 77        CS
*LAMBDA 7PRONG
  205       CSORNA 77        CS
*N(LAMBDA) 7PRONG
  15.       PORTER 77        MULT
*N(GAMMA) 8PRONG
  40.       ANGELOV 75D      MULT
*N(PI0) 8PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*9PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*GAMMA 9PRONG
  205       CSORNA 77        CS
*N(GAMMA) 9PRONG
  15.       PORTER 77        MULT
  40.       ABESALASHVIL 75B
                             MULT
*K0 9PRONG
  205       CSORNA 77        CS
*LAMBDA 9PRONG
  205       CSORNA 77        CS
*11PRONG
  40.       ABESALASHVIL 75B
                               CS
            AMAGLOBELI 74      CS
*GAMMA 11PRONG
  205       CSORNA 77        CS
*N(GAMMA) 11PRONG
  40.       ABESALASHVIL 75B
                             MULT
*K0 11PRONG
  205       CSORNA 77        CS
*LAMBDA 11PRONG
  205       CSORNA 77        CS
*13PRONG
  40.       AMAGLOBELI 74    CS
*GAMMA 13PRONG
  205       CSORNA 77        CS
*K0 13PRONG
  205       CSORNA 77        CS
*LAMBDA 13PRONG
  205       CSORNA 77        CS
*15PRONG
  40.       AMAGLOBELI 74    CS
*GAMMA 15PRONG
  205       CSORNA 77        CS
*K0 15PRONG
  205       CSORNA 77        CS
*LAMBDA 15PRONG
  205       CSORNA 77        CS
*GAMMA 17PRONG
  205       CSORNA 77        CS
*K0 17PRONG
  205       CSORNA 77        CS
*LAMBDA 17PRONG
  205       CSORNA 77        CS
*GAMMA 19PRONG
  205       CSORNA 77        CS
*K0 19PRONG
  205       CSORNA 77        CS
*LAMBDA 19PRONG
  205       CSORNA 77        CS
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REACTION/MOMENTUM INDEX (CONT'D)

PI- N --> (CONT.)

*GAMMA 21PRONG
205 CSORNA 77 CS
+LAMBDA 21PRONG
205 CSORNA 77 CS
+GAMMA 23PRONG
205 CSORNA 77 CS
+NFRAG
+ SHOWER
60. ABCO 73 MULT
PI- NUCLEON -->
+NOT ENCODED)
20.-70. MORRISON 74B MANY
50. BARLOW 71 MULT,P
60. MASLENNIKOVA 72
MASLENNIKOVA 72
120 LYS 77
100-400 WHITMORE 76 CS,
MASS,MULT,P
*PRONG
45. ANZON 70 ANGP,
MULT
AZIMOV 74H CS
AZIMOV 74L ANGP,P
50. BHOWMIK 73 ANGP,
MULT,P
60. ANZON 70 ANGP,
MULT
AZIMOV 74L ANGP,P
+NUCLEON ANYTHING
225 COOK 76 CS,MULT,P
*PI+ N(PRONG)
50. VIONOV 75 MULT
*PI+ ANYTHING
50. VIONOV 75 P,PT
*PI- NUCLEON
0.-200 PIEVARINEN 75 PWA
*PI- N(PRONG)
50. VIONOV 75 MULT
*PI- ANYTHING
50. VIONOV 75 P,PT
*JPSI(3100)C ANYTHING
200 WEINSTEIN 75 CS
*K0 ANYTHING
1.0 HART 73C
*LAMBDA ANYTHING
1.1 JONES 74
*AT ANYTHING
25. BALDIN 74 CS
*CHARM ANYTHING
225 COOK 76 CS
JONCKHEERE 76 CS
*2PRONG
45. AZIMOV 74H CS
*ANYTHING N(VEE)
225 JONCKHEERE 76 CS,
MASS,MULT
*APRONG
45. AZIMOV 74H CS
*5PRONG
45. AZIMOV 74H CS
*6PRONG
45. AZIMOV 74H CS
*7PRONG
45. AZIMOV 74H CS
*8PRONG
45. AZIMOV 74H CS
*9PRONG
45. AZIMOV 74H CS
*10PRONG
45. AZIMOV 74H CS
*11PRONG
45. AZIMOV 74H CS
*12PRONG
45. AZIMOV 74H CS

PI- NUCLEON --> (CONT.)

*13PRONG
45. AZIMOV 74H CS
*14PRONG
45. AZIMOV 74H CS
*15PRONG
45. AZIMOV 74H CS
*16PRONG
45. AZIMOV 74H CS
+NUCLEON PI+ PI-
+ NUCLEON 2PI-
0.-2.0 LONGACRE 74 PWA
PI- DEUT -->
+NOT ENCODED)
0. MACDONALD 76
PETRUKHIN 71
0.-300 EINHORN 74C
.68 BRADAMANTE 68
.95 BRADAMANTE 69C
1.1 DAVIS 70
2.3 BENVENUTI 68
BENVENUTI 69C
BENVENUTI 69B
2.6 BENVENUTI 69B
3.0 AYRES 73C
3.1 WATKINS 70
4.0 AYRES 73C
GERALDINI 71B
5.0 DURUSCY 73
GHIDINI 68
VANDERMACHEN 69
5.5 CHASE 69C
COLEMAN 73B
6.0 AYRES 73C
7.0 COHEN 73C
COHEN 73E PWA
COHEN 73F
KATZ 69
KATZ 71B
SLAC-E-103 FM,
MASS
9.0 DURUSCY 73B
10. BRADAPANTE 71
12. OH 71
OH 73B
15. GOLDHABER 73B
15.-60. GORIN 72C
16. SLAC-E-103 FM,
MASS
20. ALLABI 69
65. ALLABI 69
100 LYS 77
7 GUSTAFSON 68
VOYVODIC 74 CS,
MANY,MULT
+-GT.2PRONG
205 SZIUMIKOWSKA 75
CS
*N(PRONG)
21. ANSORGE 76 CS,
MULT,P
*ANYTHING
6.0-20. GALBRAITH 65 CS
15. GORIN 73
15.-60. DENISOV 73B CS
GORIN 71F
45. ALLABY 71B CS
205 FNAL-304 CS
23. CARROLL 76E CS
23.-260 MOHLER 75
35. CARROLL 76E CS
90. CARROLL 76E CS
50.-200 CARROLL 74E CS
65. GORIN 73
70. CARROLL 76E CS
100 CARROLL 76E CS
120 CARROLL 76E CS
150 CARROLL 76E CS
170 CARROLL 76E CS
200 CARROLL 76E CS
FNAL-338 CS
240 CARROLL 76E CS
280 CARROLL 76E CS
400 FNAL-338 CS
7 GORIN 71F
+GAMMA N(NEUTRAL)
205 CSORNA 77 MULT
+GAMMA ANYTHING
15. PORTER 77 P,PT
205 CSORNA 77 CS,MULT,
P,PT
+N(GAMMA) +GT./PPRONG
15. PORTER 77 CS

PI- DEUT --> (CONT.)

+N(GAMMA) 2PRONG
15. PORTER 77 CS
+N(GAMMA) 4PRONG
15. PORTER 77 CS
+N(GAMMA) ANYTHING
15. PORTER 77 MULT
+GAMMA(S) ANYTHING
15. PORTER 77 P
+N(PI0) ANYTHING
15. PORTER 77 MULT
+PI0 ANYTHING
205 CSORNA 77 CS,PT
+PI- DEUT
.16-.23 ANDERSON 52C
.23-.38 ASHKIN 54
.37 GABATHULER 73
ANGP
.42 DULKOVA 56B
.47-2.7 CARTER 68
.50-1.0 KELLER 75
SCHROEDER 71
1.0-2.4 COOL 50
GIACOMELLI 66
1.2 ABRAMOV 75E
1.4 ABRAMOV 75E
ABRAMOV 75E
25.-200 FNAL-396 ANGP,F
200 FNAL-338 FV
400 FNAL-338 FV
+DEUT DD < PI+ 2PI- >
15. HARRIS 75 ANGP
+DEUT DD < 2PI+ 3PI- >
15. HARRIS 75 CS,MASS,
P,PT
HARRIS 75E MASS
+CHARM ANYTHING
200 KLEMS 75
+ANYTHING N(VEE)
15. PORTER 77 MULT
+ANYTHING V0(K0S)
15. PORTER 77 P
+ANYTHING N(PRONG)
15. PORTER 77 MULT
+ANYTHING NEUTRAL(S)
15. PORTER 77 P
+GAMMA +GT.0PRONG ANYTHING
15. PORTER 77 P
+GAMMA 0PRONG ANYTHING
15. PORTER 77 P
+GAMMA 2PRONG ANYTHING
15. PORTER 77 P
+N(GAMM.) 2PRONG
15. PORTER 77 CS
+GA..(.[+GT.0PRONG
ANYTHING
15. PORTER 77 P
+GAMMA(S) 0PRONG ANYTHING
15. PORTER 77 P
+GAMMA(S) PRONG ANYTHING
15. PORTER 77 CS
+GAMMA(S) ANYTHING CDC-PRONG
15. PORTER 77 P
+GAMMA(S) ANYTHING
EVEN-PRONG
15. PORTER 77 P
+K0(S) +GT.0PRONG ANYTHING
15. PORTER 77 P
+K0(S) 0PRONG ANYTHING
15. PORTER 77 P
+K0(S) PRONG ANYTHING
15. PORTER 77 P
+K0(S) ANYTHING CDC-PRONG
15. PORTER 77 P
+K0(S) ANYTHING EVEN-PRONG
15. PORTER 77 P
+N(K0) 2PRONG
15. PORTER 77 CS
+K0 +GT.0PRONG ANYTHING
15. PORTER 77 P
+K0 0PRONG ANYTHING
15. PORTER 77 P
+K0 PRONG ANYTHING
15. PORTER 77 P
+PSIPEI(N(1170B10 PI-
9.0 RIVEAL 74 ANG,
ANGP
+PSIPEI(N(1170B10 PI-
9.0 RIVEAL 74 ANG,
ANGP
+P N PI-
1.2-2.6 ABRAMOV 75E
3.6 AREREV 75C
+P N(1520B10 PI-
15. HARRIS 75 CS
+P N(1700B10 PI-
15. HARRIS 75 CS
+2N GAMMA
0.-.050 GIBBS 75 ANG,CS,
PWA
.20 SALTER 75
.7 SALTER 72
+DEL++ DEL- PI-
15. HORNE 74 ANG,CS

REACTION/MOMENTUM INDEX (CONT'D)

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PI- DEUT --> (CONT.)
-----------------------
*LAMBDA  *GT.&PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA  OPRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA  PRONG ANYTHING
   15.      PORTER 77          P
*MILAMBDA) 2PRONG
   15.      PORTER 77          CS
*LAMBDA(S)  *GT.&PRONG
  ANYTHING
   15.      PORTER 77          P
*LAMBDA(S) OPRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA(S) PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA(S) ANYTHING
  ODD-PRONG
   15.      PORTER 77          P
*LAMBDA(S) ANYTHING
  EVEN-PRONG
   15.      PORTER 77          P
*DEUT*(217010 PI+ PI-
   3.7      ABOLINS 65B
   15.      HARRIS 75          CS
*DEUT*(2170)0+ 2PI-
   15.      HARRIS 75          CS
*VEES) .GT.&PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) 3PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) ANYTHING ODD-PRONG
   15.      PORTER 77          P
*VEE(S) ANYTHING EVEN-PRONG
   15.      PORTER 77          P
*3PRONG
   205      DZIUNIKOWSKA 75
                               CS
    ?       HARRIS 77B         CS
-GAMMA 3PRONG
   205      CSORNA 77          CS
-GAMMA 2PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 3PRONG
   15.      PORTER 77          CS
*GAMA(S) 2PRONG ANYTHING
   15.      PORTER 77          P
*K(S) 2PRONG ANYTHING
   15.      PORTER 77          P
*NIK) 3PRONG
   15.      PERTER 77          CS
*K5 3PRONG
   205      CSORNA 77          CS
*K5 2PRONG ANYTHING
   15.      PORTER 77          P
*PISPECT) P 2PI-
   9.0      RIVOAL 74  ANGP,CS,
                       MASS,P
   15.      HARRIS 76B   CS,P
*2P 2PI-
   7.0      KATZ 70C
   15.      BASTIEN 74B    ANGP,
                           MASS
            HARRIS 75  ANGP,CS,
                       MASS,P
            PORTER 77          CS
    ?       KATZ 69
*2N PI+ PI-
   3.0      KRAMER 74B     ANGP,
                           MASS
   4.0      KRAMER 74B     ANGP,
                           MASS
   6.0      KRAMER 74B     ANGP,
                           MASS
*LAMBDA 3PRONG
   205      CSORNA 77          CS
*LAMBDA 2PRONG ANYTHING
   15.      PORTER 77          P
*MILAMBDA) 3PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 2PRONG ANYTHING
   15.      PORTER 77          P
*DEUT PI+ 2PI-
   3.7      ABOLINS 65B
   9.0      BAUBILLIER 76B
                               PMA
   15.      BASTIEN 74B    ANGP,
                           MASS
            BINGHAM 7E
            HARRIS 75  ANGP,CS,
                       MASS,P,PT
            HARRIS 77B     ANGP,
                           MASS,P
            LESNIAK 75     ANGP,
                           CS
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PI- DEUT --> (CONT.)
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*DEUT PI+ 2PI- (CONT.)
    ?       HARRIS 77B     ANGP,
                           CS,MASS,P
*VEE(S) 2PRONG ANYTHING
   15.      PORTER 77          P
*4PRONG
   205      DZIUNIKOWSKA 75
                               CS
    ?       HARRIS 77B         CS
*GAMMA 4PRONG
   205      CSORNA 77          CS
*GAMMA 3PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 4PRONG
   15.      PORTER 77          CS
*GAMMA(S) 3PRONG ANYTHING
   15.      PORTER 77          P
*K(S) 3PRONG ANYTHING
   15.      PORTER 77          P
*K5 4PRONG
   205      CSORNA 77          CS
*K5 3PRONG ANYTHING
   15.      PORTER 77          P
*P N PI+ 2PI-
   15.      HORNE 74           MASS
*LAMBDA 4PRONG
   205      CSORNA 77          CS
*LAMBDA 3PRONG ANYTHING
   15.      PORTER 77          P
*MILAMBDA) 4PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 3PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) 3PRONG ANYTHING
   15.      PORTER 77          P
*5PRONG
   205      DZIUNIKOWSKA 75
                               CS
    ?       HARRIS 77B         CS
*GAMMA 5PRONG
   205      CSORNA 77          CS
*GAMMA 4PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 5PRONG
   15.      PORTER 77          CS
*GAMMA(S) 4PRONG ANYTHING
   15.      PORTER 77          P
*K(S) 4PRONG ANYTHING
   15.      PORTER 77          P
*NIK5) 5PRONG
   15.      PORTER 77          CS
*K5 5PRONG
   205      CSORNA 77          CS
*K5 4PRONG ANYTHING
   15.      PORTER 77          P
*PISPECT) 2P AP 2PI-
   12.      NAVACH 76          P
*LAMBDA 5PRONG
   205      CSORNA 77          CS
*LAMBDA 4PRONG ANYTHING
   15.      PORTER 77          P
*NILAMBDA) 5PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 4PRONG ANYTHING
   15.      PORTER 77          P
*DEUT 2PI+ 3PI-
   15.      HARRIS 75  ANGP,CS,
                       MASS,P,PT
            HARRIS 75B     MASS
            HARRIS 77B     ANGP,
                           MASS,P
    ?       HARRIS 77B     ANGP,
                           CS,MASS,P
*VEE(S) 4PRONG ANYTHING
   15.      PORTER 77          P
*6PRONG
   205      DZIUNIKOWSKA 75
*GAMMA 6PRONG
   205      CSORNA 77          CS
*GAMMA 5PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 6PRONG
   15.      PORTER 77          CS
*GAMMA(S) 5PRONG ANYTHING
   15.      PORTER 77          P
*NIK5) 6PRONG
   15.      PORTER 77          CS
*K5 5PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA 6PRONG
   205      CSORNA 77          CS
*LAMBDA 5PRONG ANYTHING
   15.      PORTER 77          P
*NILAMBDA) 6PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 5PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) 5PRONG ANYTHING
   15.      PORTER 77          P
*7PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 7PRONG
   205      CSORNA 77          CS
*GAMMA 6PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 7PRONG
   15.      PORTER 77          CS
*GAMMA(S) 6PRONG ANYTHING
   15.      PORTER 77          P
*K5 6PRONG
   205      CSORNA 77          CS
*K5 5PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA 7PRONG
   205      CSORNA 77          CS
*LAMBDA 6PRONG ANYTHING
   15.      PORTER 77          P
*NILAMBDA) 7PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 6PRONG ANYTHING
   15.      PORTER 77          P
*8PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 8PRONG
   205      CSORNA 77          CS
*GAMMA 7PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 8PRONG
   15.      PORTER 77          CS
*GAMMA(S) 7PRONG ANYTHING
   15.      PORTER 77          P
*K(S) 7PRONG ANYTHING
   15.      PORTER 77          P
*NIK5) 8PRONG
   15.      PORTER 77          CS
*K5 8PRONG
   205      CSORNA 77          CS
*K5 7PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA 8PRONG
   205      CSORNA 77          CS
*LAMBDA 7PRONG ANYTHING
   15.      PORTER 77          P
*NILAMBDA) 8PRONG
   15.      PORTER 77          CS
*LAMBDA(S) 7PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) 7PRONG ANYTHING
   15.      PORTER 77          P
*9PRONG
   205      DZIUNIKOWSKA 75
*GAMMA 9PRONG
   205      CSORNA 77          CS
*GAMMA 8PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 9PRONG
   15.      PORTER 77          CS
*GAMMA(S) 8PRONG ANYTHING
   15.      PORTER 77          P
*K(S) 8PRONG ANYTHING
   15.      PORTER 77          P
*NIK5) 9PRONG
   15.      PORTER 77          CS
*K5 9PRONG
   205      CSORNA 77          CS
*K5 8PRONG ANYTHING
   15.      PORTER 77          P
*LAMBDA 9PRONG
   205      CSORNA 77          CS
*LAMBDA(S) 8PRONG ANYTHING
   15.      PORTER 77          P
*VEE(S) 8PRONG ANYTHING
   15.      PORTER 77          P
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PI- DEUT --> (CONT.)
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*10PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 10PRONG
   205      CSORNA 77          CS
*GAMMA 9PRONG ANYTHING
   15.      PORTER 77          P
*NIGAMMA) 10PRONG
   15.      PORTER 77          CS
*GAMMA(S) 9PRONG ANYTHING
   15.      PORTER 77          P
*NIK5) 10PRONG
   15.      PORTER 77          CS
*K5 10PRONG
   205      CSORNA 77          CS
*LAMBDA 10PRONG
   205      CSORNA 77          CS
*NILAMBDA) 10PRONG
   15.      PORTER 77          CS
*11PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 11PRONG
   205      CSORNA 77          CS
*GAMMA 10PRONG ANYTHING
   15.      PORTER 77          P
*GAMMA(S) 10PRONG ANYTHING
   15.      PORTER 77          P
*K5 11PRONG
   205      CSORNA 77          CS
*LAMBDA 11PRONG
   205      CSORNA 77          CS
*12PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 12PRONG
   205      CSORNA 77          CS
*K5 12PRONG
   205      CSORNA 77          CS
*LAMBDA 12PRONG
   205      CSORNA 77          CS
*13PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 13PRONG
   205      CSORNA 77          CS
*K5 13PRONG
   205      CSORNA 77          CS
*LAMBDA 13PRONG
   205      CSORNA 77          CS
*14PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 14PRONG
   205      CSORNA 77          CS
*K5 14PRONG
   205      CSORNA 77          CS
*LAMBDA 14PRONG
   205      CSORNA 77          CS
*15PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 15PRONG
   205      CSORNA 77          CS
*K5 15PRONG
   205      CSORNA 77          CS
*LAMBDA 15PRONG
   205      CSORNA 77          CS
*16PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 16PRONG
   205      CSORNA 77          CS
*K5 16PRONG
   205      CSORNA 77          CS
*LAMBDA 16PRONG
   205      CSORNA 77          CS
*17PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 17PRONG
   205      CSORNA 77          CS
*K5 17PRONG
   205      CSORNA 77          CS
*LAMBDA 17PRONG
   205      CSORNA 77          CS
*18PRONG
   205      DZIUNIKOWSKA 75
                               CS
*GAMMA 18PRONG
   205      CSORNA 77          CS
*K5 18PRONG
   205      CSORNA 77          CS
*LAMBDA 18PRONG
   205      CSORNA 77          CS
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*GAMMA 19PRONG
205 CSORNA 77 CS
*KS 19PRONG
205 CSORNA 77 CS
*LAMBDA 19PRONG
205 CSORNA 77 CS
*20PRONG
205 DZIUNIKOWSKA 75 CS
*GAMMA 20PRONG
205 CSORNA 77 CS
*KS 20PRONG
205 CSORNA 77 CS
*LAMBDA 20PRONG
205 CSORNA 77 CS
*21PRONG
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*GAMMA 21PRONG
205 CSORNA 77 CS
*KS 21PRONG
205 CSORNA 77 CS
*LAMBDA 21PRONG
205 CSORNA 77 CS
*22PRONG
205 DZIUNIKOWSKA 75 CS
*GAMMA 22PRONG
205 CSORNA 77 CS
*LAMBDA 22PRONG
205 CSORNA 77 CS
*23PRONG
205 DZIUNIKOWSKA 75 CS
*GAMMA 23PRONG
205 CSORNA 77 CS
*24PRONG
205 DZIUNIKOWSKA 75 CS
*GAMMA 24PRONG
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*25PRONG
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*26PRONG
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*27PRONG
205 DZIUNIKOWSKA 75
*28PRONG
205 DZIUNIKOWSKA 75
*29PRONG
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*30PRONG
205 DZIUNIKOWSKA 75
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4 2N RHOD
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4.0 KRAMER 74B
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.20-.37 BINCN 77
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.13 KCETKE 70
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*PI- HE (CONT.)
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.19 FALOMKIN 72
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.37 BINCN 75
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*HE ANYTHING
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5.0 CERN-S-143
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5.0 CERN-S-143
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48. BCLOTOV 74 CS
*PI- LI
33. APOKIN 76B
39. APOKIN 76B
45. APOKIN 76B
50. APOKIN 76B
*ETA NUCLEUS
48. BCLOTOV 74 CS
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.75-1.1 FRANKEL 69
*ANYTHING
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33. APOKIN 76B
39. APOKIN 76B
45. APOKIN 76B
50. APOKIN 76B
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43. ANTIPOV 76 P,PT
*//PSI(3100)// ANYTHING
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43. ANTIPOV 76 MASS
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JANCSO 73
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60. DALKHAZHAV 72C
7 NAZARGULOV 76C
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*0PRONG
40. ANGELOV 76J CS
*PRONG
ANGELOV 76J CS
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*P N(PRONG)
5.0 AZIMOVA 74 MULT
40. ANGELOV 76D MULT
*ANYTHING
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4.9 AGABABIAN 76 CS
20.-65. ALLABY 71B CS
40. BALEA 74B CS
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BUSZA 75 CS
175 BUSZA 74 CS
BUSZA 75 CS
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*N(GAMMA) *GT.1*PRONG
40. ANGELOV 75D MULT
*MU- ANYTHING
16. BNL-687 PT
24. BNL-687 PT
*MU+ ANYTHING
16. BNL-687 PT
24. BNL-687 PT
*N(PI0) *LT.2PRONG
40. ANGELCV 75D MULT
*N(PI0) *GT.1*PRONG
ANGELCV 75D MULT
*N(PI0) ANYTHING
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39. APOKIN 76B
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A2(1310)- C(4,4A)
25. BNL-647 ANG,ANGP,
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A3(1640)- C(4,4A)
25. BNL-647 ANG,ANGP,
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*J/PSI(3100)0 ANYTHING
16. BNL-687 P,PT
24. BNL-687 P,PT
225 ANDERSON 76M ANG,
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? BNL-687 P,PT
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40. ABDURAKHIMOV 73E
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*K$ ANYTHING
5.0 AMAGLOBELI 76
40. ANGELOV 76D CS,P,
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BALEA 74B CS
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*P N(PRONG)
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40. ANGELOV 76D MULT
*N(N) ANYTHING
40. ANGELCV 76D MULT
*PRONGS ANYTHING
4.0 AZIMOV 76K
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40. AZIMOV 76K
AZIMOV 76L P,PT
*LAMBDA ANYTHING
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40. ABDURAKHIMOV 73E
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*2PRONG
40. ABESALASHVIL 74B
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40. ANGELOV 76J MULT
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40. BALEA 74B CS
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*ANYTHING N1VEE)
40. ANGELOV 76D MULT
*ANYTHING N1CHARGED+1
40. ANGELOV 76D MULT
*ANYTHING N1CHARGED-1
40. ANGELOV 76D MULT
*ANYTHING N1CHARGED)
40. ANGELOV 76D MULT
*2GAMMA ANYTHING
40. ANGELOV 77G
*MU- MU+ ANYTHING
.22 FNAL-444
16. BNL-687 MASS
24. BNL-687 MASS
225 ANDERSON 76M ANG,
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*P PI+ ANYTHING CS,P
5.0 BUDAKOV 76C ANG
*2P N1PRONG)
40. ANGELOV 76D MULT
*2P ANYTHING
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*P LAMBDA ANYTHING
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40. ANGELOV 76J CS
*3P NEPRONG)
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*C PI+ 2PI-
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*C 2PIO PI-
40. ABDULLAEVA 73 CS
*C 3PI-
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9.0 BEMPORAD 74B PWA
15. BEMPORAD 74B
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*4PRONG
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*4P NEPRONG)
5.0 AZIMOVA 74 MULT
40. ANGELOV 76C MULT
*N PI+ 2PI- ANYTHING
5.0 AMAGLOBELI 75F CS
*5PRONG
40. ANGELOV 76J CS
*5P NEPRONG)
5.0 AZIMOVA 74 MULT
*C 2PI+ 3PI-
5.0 AMAGLOBELI 73 CS
40. ANGELOV 75H ANGP,
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*C PI+ 2PIO 2PI-
40. ANGELOV 75B CS
*6PRONG
40. ABESALASHVIL 74B
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*6P NEPRONG)
5.0 AZIMOVA 74 MULT
*7PRONG
40. ANGELOV 76J CS
*8PRONG
40. ABESALASHVIL 74B
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*9PRONG
40. ANGELOV 76J CS
*10PRONG
40. ABESALASHVIL 74B
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*11PRONG
40. ANGELOV 76J CS
*12PRONG
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*13PRONG
40. ANGELOV 76J CS
*14PRONG
40. ABESALASHVIL 74B
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*15PRONG
40. ANGELOV 76J CS
*16PRONG
40. ABESALASHVIL 74B
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*20PRONG
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40. ANGELOV 76J CS
*22PRONG
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*23PRONG
40. ANGELOV 76J CS
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40. ABESALASHVIL 74B
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* N(PIO) 5PRONG
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* N(GAMMA) 7PRONG
40. ANGELOV 75D MULT
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40. ANGELOV 75D MULT
*A(PIO) 8PRONG
* N(PIO) 9PRONG
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* N(GAMMA) 11PRONG
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* N(PIO) 11PRONG
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*N(GAMMA) 12PRONG
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*NE A1(1100)- RHO0
150 FNAL-089 ANGP
*NE F PI-
150 FNAL-089 ANGP
*NE F A1(1100)-
150 FNAL-089 ANGP
*NE PI+ 2PI-
150 FNAL-089 ANGP
*NE RHO0 PI-
150 FNAL-089 ANGP
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BUSZA 75 CS
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40. BOLOTOV 74 CS
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.33 JACKSON 77
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BUSZA 75 MULT
175 BUSZA 74 MULT
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MASS
 15. BELLINI 73
BEUSCH 74B
 22. RUSS 74B
 23. KRUSE 74 ANGP,
MASS,PWA

PI- AG --> (CONT.)
ROBERTS 75D
*AG 3PI-
 8.0 BEMPORAD 74B PWA
 9.0 BEMPORAD 74B PWA
 15. BEMPORAD 74B
*(NEPAG)
* SHOWER
 60. ABDG 73 MULT
****
PI- CD -->
----
*P ANYTHING
 1.5 BURGOV 75B
 3.1 BURGOV 75B P
 5.2 BURGOV 75B
 6.2 BURGOV 75B P
----
*ANYTHING
 2.5-.A3 CARROLL 76
 20.-65. ALLABY 71B CS
*PI- SN
 33. APOKIN 76B
 36. APOKIN 76B
 45. APOKIN 76B
 50. APOKIN 76B
****
PI- XE -->
----
*(NOT ENCODED)
 9.0 ESKREYS 69
*N(GAMMA)
 3.5 CKHRIMENKO 74C
*N(N)
 3.5 CKHRIMENKO 74C
*N(VEE)
 3.5 CKHRIMENKO 74C
*N(PRONG)
 3.5 CKHRIMENKO 74C
*GAMMA CHARGED
 3.5 PLUTA 73B
*GAMMA ANYTHING
 3.5 PLUTA 73B
*GGAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) PRONG
 3.5 PLUTA 73B
*N(GAMMA) 1PRONG
 3.5 STRUGALSKII 74
*PI+ ANYTHING
 2.3 SLOWINSKI 73B
 5.0 SLOWINSKI 73B
 9.0 SLOWINSKI 73B MULT
*PIO ANYTHING
 2.3 SLOWINSKI 73B
 5.0 SLOWINSKI 73B
 9.0 SLOWINSKI 73B MULT
*K5 ANYTHING
 3.5 BARMIN 73B
*OP ANYTHING
 3.5 STRUGALSKII 74
*P ANYTHING
 2.3 SLOWINSKI 73B
 3.5 BAYUKOV 74
OKHRIMENKO 76D
PLUTA 73
STRUGALSKII 74
 3.7 AREFEV 75B
 5.0 SLOWINSKI 73B
 9.0 SLOWINSKI 73B MULT
MULT
*LAMBDA ANYTHING
 2.9 VORDBEV 75D CS,P,
PCL
*GAMMA CHARGED
 3.5 PLUTA 73B
*GGAMMA ANYTHING
 3.5 BARMIN 73B
PLUTA 73B
*N(GAMMA) 2PRONG
 3.5 PLUTA 73B
*2P ANYTHING
 3.5 STRUGALSKII 74

PI- XE --> (CONT.)
*N(P) 2PION
 3.5 STRUGALSKII 74
*3GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 3PRONG
 3.5 PLUTA 73B
*PIO 2PRONG NEUTRALS
 3.5 PLUTA 73B
*3P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 3PION
 3.5 STRUGALSKII 74
*NUCLEUS 2PIO PI-
 3.5 OKHRIMENKO 77
*NUCLEUS P 2PIO
 3.5 OKHRIMENKO 77
*NUCLEUS NEUTRONS 2PIO
 3.5 OKHRIMENKO 77
*NUCLEUS NEUTRONS ETA PIO
 3.5 OKHRIMENKO 77
*4GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 4PRONG
 3.5 PLUTA 73B
*N(P) 3PRONG NEUTRALS
 3.5 PLUTA 73B
*4P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 4PION
 3.5 STRUGALSKII 74
*5GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 4PRONG NEUTRALS
 3.5 PLUTA 73B
*5P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 5PION
 3.5 STRUGALSKII 74
*NUCLEUS NEUTRONS 4GAMMA
 3.5 OKHRIMENKO 77
*6GAMMA CHARGED
 3.5 PLUTA 73B
*6P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 6PION
 3.5 STRUGALSKII 74
*7GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 7PRONG NEUTRALS
 3.5 PLUTA 73B
*7P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 7PION
 3.5 STRUGALSKII 74
*8GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 8PRONG
 3.5 PLUTA 73B
*PIO 7PRONG NEUTRALS
 3.5 PLUTA 73B
*8P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 8PION
 3.5 STRUGALSKII 74
*9GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 9PRONG
 3.5 PLUTA 73B
*PIO 8PRONG NEUTRALS
 3.5 PLUTA 73B
*9P ANYTHING
 3.5 STRUGALSKII 74
*N(P) 9PION
 3.5 STRUGALSKII 74
*10GAMMA CHARGED
 3.5 PLUTA 73B
*N(GAMMA) 10PRONG
 3.5 PLUTA 73B
*PIO 9PRONG NEUTRALS
 3.5 PLUTA 73B
*10P ANYTHING
 3.5 STRUGALSKII 74
*N(GAMMA) 11PRONG
 3.5 PLUTA 73B
*PIO 10PRONG NEUTRALS
 3.5 PLUTA 73B
*11P ANYTHING
 3.5 STRUGALSKII 74

PI- XE --> (CONT.)
*N(GAMMA) 12PRONG
 3.5 PLUTA 73B
*PIO 11PRONG NEUTRALS
 3.5 PLUTA 73B
*12P ANYTHING
 3.5 STRUGALSKII 74
*N(GAMMA) 13PRONG
 3.5 PLUTA 73B
*PIO 12PRONG NEUTRALS
 3.5 PLUTA 73B
*13P ANYTHING
 3.5 STRUGALSKII 74
*N(GAMMA) 14PRONG
 3.5 PLUTA 73B
*PIO 13PRONG NEUTRALS
 3.5 PLUTA 73B
*N(GAMMA) 15PRONG
 3.5 PLUTA 73B
*PIO 14PRONG NEUTRALS
 3.5 PLUTA 73B
*N(GAMMA) 16PRONG
 3.5 PLUTA 73B
*PIO 15PRONG NEUTRALS
 3.5 PLUTA 73B
*PIO 16PRONG NEUTRALS
 3.5 PLUTA 73B
****
PI- TA -->
----
*P ANYTHING
 .19 JACKSON 77
 .33 JACKSON 77
*DEUT ANYTHING
 .19 JACKSON 77
 .33 JACKSON 77
*TA PI+ 2PI-
 8.9 BELLINI 73 CS,
MASS
 15. BELLINI 73
BEUSCH 74B
 22. RUSS 74B
*TA 3PI-
 8.0 BEMPORAD 74B PWA
 9.0 BEMPORAD 74B PWA
 15. BEMPORAD 74B
****
PI- WT -->
----
*(NOT ENCODED)
 .92 FRANKEL 69
*MU- ANYTHING
 10. BNL-687 PT
 24. BNL-687 PT
*MU+ ANYTHING
 10. BNL-687 PT
 24. BNL-687 PT
*J/PSI(3100)0 ANYTHING
 10. BNL-687 P,PT
 24. BNL-687 P,PT
*LAMBDA ANYTHING
 7 FRANKEL 69
*MU- MU+ ANYTHING
 10. BNL-687 MASS
 24. BNL-687 MASS
****
PI- PB -->
----
*(NOT ENCODED)
 10. GREEN 71
 19. GREEN 71
*N(PRONG)
 100 BUSZA 74 MULT
 BUSZA 75 MULT
 175 BUSZA 74 MULT
 BUSZA 75 MULT
*ANYTHING
 .15-.43 CARROLL 76
 20.-65. ALLABY 71B CS
 100 BUSZA 74 CS
 BUSZA 75 CS
 175 BUSZA 74 CS
 BUSZA 75 CS
 200 MASUDA 76F
*PIONS PB
 300 FNAL-304
*N(PION) ANYTHING
 300 FNAL-304 MULT
*PI+ ANYTHING
 300 FNAL-304 P
*PI- PB
 9.9 BLIECEN 75
 33. APOKIN 76B
 39. APOKIN 76B
 45. APCKIN 76B
 50. APCKIN 76B

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REACTION/MOMENTUM INDEX (CONT'D)

PI- PB --> (CONT.)

*PI- ANYTHING
300 FNAL-304 P
*RHO- PB
? GOBBI 76
*P ANYTHING
1.5 BURGOV 75B
3.1 BURGOV 75B P
3.7 ARefEV 75B
5.2 BURGOV 75B
6.2 BURGOV 75B P
300 FNAL-304 P
*PB PIO PI-
23. STRAWCZYNSKI 74
*PB PI+ 2PI-
8.9 BELLINI 73 CS,
MASS
15. BELLINI 73
BEUSCH 74B
22. RUSS 74B
23. ROBERTS 75D
*PB 3PI-
6.0 BEMPORAD 74B PWA
9.0 BEMPORAD 74B PWA
15. BEMPORAD 74B
PI- U -->
*INOT ENCODED!
1.0-4.0 ANL-E-406 MULT
*CHARGED
10. FABJAN 75B P
*NPRONG)
100 BUSZA 74 MULT
BUSZA 75 MULT
175 BLSZA 74 MULT
ELSZA 75 MULT
*ANYTHING
20.-65. ALLABY 71B CS
100 BUSZA 74 CS
BUSZA 75 CS
175 BUSZA 74 CS
BUSZA 75 CS
*PIONS U
300 FNAL-304
*N(PION) ANYTHING
300 FNAL-304 MULT
*PI+ ANYTHING
300 FNAL-304 P
*PI- U
9.9 BLIEDEN 75
*PI- ANYTHING
300 FNAL-304 P
*RHO0 ANYTHING
16. ALSPECTOR 77 CS
*RHO- U
? GOBBI 76
*P ANYTHING
300 FNAL-304 P
*HE ANYTHING
.18 BATUSCV 73
*MU- MU+ ANYTHING
16. ALSPECTOR 77 CS,
MASS,PT
*U PIO PI-
23. STRAWCZYNSKI 74
*U PI+ 2PI-
22. RLSS 74B
PI- NUCLEUS -->
*INOT ENCODED!
0. PETRUKHIN 71
.007-.020
HECKMAN 69
.32-.49 BATLSOV 65B
1.0 CONELL 72
2.9 VCRGBEV 72
3.5 DEKA 68B
WARGEN 70
3.9 BECERKIN 7C
DEMIDOV 69
DEMIDOV 69C
4.0 ANSORGE 73C
KIRILLEVUGFY 71
SHANBAZIAN 73B
5.0 BLDAGOV 71J
5.1 BOGACHEV 6C
BUCACOV 70B
7.0-8.0 ARRUZOV 62 ANGP,
CS
7.2 ASSOVSKAYA 69
7.5 ANZON 71
15. BEMPORAD 72
CAUGERAS 71C
16. ANZON 70P
CAUGERAS 71C
HUSON 68B

PI- NUCLEUS --> (CONT.)

*(NOT ENCODED) (CONT.)
MIRK 72
GREILLY 70
SAMIMI 70
17. ANZON 71
AZIMOV 69B
AZIMOV 69C
AZIMOV 71
AZIMOV ?1
AZIMOV ?1
AZIMOV ?1
AZIMOV 71E
AZIMOV 71G
45.-67. DALKHAZHAV 72B
33. BARTKE 71 MULT,P
SALCMCV 77
ZHDANOV 69
60. AGNESE 73
ALEKSEEVA 72B
ANZON 69
ANZON 70E
ANZON 70F
ANZON 70G
ANZON 70H
ANZON 71
ANZEN 74
AZIMOV 71C
DALKHAZHAV 70
DALKHAZHAV 72C
GERYACHKIN 71
ORLOVA 71
*P ANYBIEI 69
VINITSKII 70
VINITSKII 71
VOINOV 65
VOINOV 70
WEISSENBERG 72
100-300 FNAL-387
100-300 FNAL-389 ANGP
200-400 FNAL-382
? BATUSCV 76D
BOHM 70E
CERN-HA-001 FV
SHAMBAZIAN 73
*.LT.&PRONG
50. SALCMCV 75 P,PT
*STRANGE
3.9 BEGERKIN 71
*NACHARGED
60. ABOO 74 MULT
*.GT.7PRONG
50. SALOMCV 75 P,PT
*PRONG
50. KAUL 76 MULT
60. GAGARIN 74 ANGP,
MULT
ZHDANOV 7J ANGP,P,
PT
200 ANTONCVA 74D CS
*NPRONG)
17. KOHLI 75
60. ALEKSEEVA 76 MULT
SHABRATOVA 74 MULT
MULT
100 FNAL-178 MULT
200 FNAL-178 MULT
*FRONGS
200 ANZON 77B ANGP,P
ANZON 77C ANGP,
MULT,P
*INELASTIC
6.0-60. DENISCV 73
*E- ANYTHING
100-350 FNAL-258 ANGP
*E+ ANYTHING
100-350 FNAL-258 ANGP
*PU- ANYTHING
100-350 FNAL-258 ANGP
? BNL-654 P
FNAL-379
*PU+ ANYTHING
100-350 FNAL-238 ANGP
? BNL-654 P
FNAL-379

PI- NUCLEUS --> (CONT.)

*PIONS NUCLEUS
45. ANZON 70B ANGP,
MULT
60. ANZON 73B ANGP,
MULT
*PI+ NEPRONG)
50. VIONOV 75 MULT
*PI+ ANYTHING
17. MASLENNIKOVA 74 P
50. VIONOV 75 P,PT
100-350 FNAL-258 ANGP
*PIO NUCLEUS
7.8 GUTSAN 71B
*PI- NUCLEUS
150 FNAL-272 FV
300 FNAL-272 FV
*PI- NEPRONG)
50. VIONOV 75 MULT
*PI- ANYTHING
17. MASLENNIKOVA 74 P
50. VIONOV 75 P,PT
100-350 FNAL-258 ANGP
*ETA NUCLEUS
7.8 GUTSAN 71B
*KNOD ANYTHING
3.7 APEFEV 76
*RHO- NUCLEUS
3.9 VASILKOVA 74 CS
23. GOBBI 74
150 FNAL-272 FV
300 FNAL-272 FV
*2(I(3)3)- NUCLEUS
150 FNAL-272 FV
300 FNAL-272 FV
*2PS(I(3)3)0)0 HADRONS
225 JONCKHEERE 77 CS
*J/PS(I(3)0)0)3 ANYTHING
? BNL-654 P
*K+ ANYTHING
100-350 FNAL-258 ANGP
*K5 ANYTHING
150 FNAL-416 FV
*K- ANYTHING
100-350 FNAL-258 ANGP
*LAMBDA ANYTHING
4.0 SHAMBAZIAN 74B P
225 FNAL-416 FV
*LOBUT ANYTHING
100-350 FNAL-258 ANGP
*LOBUT ANYTHING
100-350 FNAL-258 ANGP
*LI ANYTHING
50. KUMAR 75
*MOLECULES ANYTHING
4.0 SHAMBAZIAN 74B CS
*2PRONG
200 ANTONCVA 74D CS
*ANYTHING SHOWER
60. ABOO 73 ANGP
ABOO 74 ANGP
*ANYTHING FRAGB
60. ABOO 73 ANGP
*ANYTHING FRAG
60. ABOO 73 ANGP
*ANYTHING NUCLEONS
? FNAL-379
*ANYTHING CHARGED
60. ALEKSEEVA 76 P
BLISIEEV 73B P
*ANYTHING NEUTRALES)
17. MASLENNIKOVA 74 P
*2GAMMA ANYTHING
? BNL-654 MASS
*MU- MU+ HADRONS
225 JONCKHEERE 77 MASS
*MU- MU+ N(PRONG)
225 JONCKHEERE 77 MULT
*MU- MU+ ANYTHING
225 BRANSON 77 CS
200 FNAL-515 FV
*MU+ CHARM ANYTHING
200 FNAL-515 FV

PI- NUCLEUS --> (CONT.)

*MU+ CHARGED ANYTHING
200 FNAL-515 FV
*2PI+ ANYTHING
50. VOINOV 76 P
*PI+ PI- ANYTHING
50. VOINOV 76 P
*2PI- ANYTHING
50. VOINOV 76 P
*K+ PI- ANYTHING
225 FNAL-416 FV
*K5 MU- ANYTHING
225 FNAL-416 FV
*K- PI+ ANYTHING
? BNL-654 MASS
*LAMBDA MU- ANYTHING
225 FNAL-416 FV
*LAMBDA MU+ ANYTHING
225 FNAL-416 FV
*NUCLEUS PIO PI-
3.9 VASILKOVA 74 CS,
MASS
23. GOBBI 74
150 FNAL-272 FV
300 FNAL-272 FV
*NUCLEUS PI- GAMMA
60. MASLENNIKCVA 71
*NUCLEUS ETA PI+
150 FNAL-272 FV
300 FNAL-272 FV
*NUCLEUS K5 K-
150 FNAL-272 FV
300 FNAL-272 FV
*NUCLEUS PROTONS NEUTRALS
3.7 BAYUKOV 76B
*3PRONG
200 ANTONOVA 74C CS
*2MU- MU+ ANYTHING
225 BRANSON 77 CS,
MASS,P
*MU- MU+ HADRONS NEE
225 JONCKHEERE 77
MASS,
PT
*MU- MU+ HADRONS NEVEEI
225 JONCKHEEPE 77
MULT
*K5 2MU- ANYTHING
225 FNAL-416 FV
*K5 MU- MU+ ANYTHING
225 FNAL-416 FV
*K5 2MU+ ANYTHING
225 FNAL-416 FV
*LAMBDA 2MU- ANYTHING
225 FNAL-416 FV
*LAMBDA 2MU+ ANYTHING
225 FNAL-416 FV
*NUCLEUS PI+ 2PI-
4.0-15. MUZHICHKIN 73
23. ROBERTS 75D
150 FNAL-272 FV
300 FNAL-272 FV
*4PRONG
200 ANTONOVA 74C CS
*2MU- 2MU+ ANYTHING
225 BRANSON 77 CS
*MU- MU+ HADRONS VEE OPPCNG
225 JONCKHEERE 77 CS
*NUCLEUS 2PI+ PI- GAMMAS
4.0 VASILKCVA 73B MASS
*NUCLEUS 2PI+ PI- GAMMAS)
3.9 VASILKOVA 75
*5PRONG
200 ANTONOVA 74C CS
*MU- MU+ HADRONS VEE 2PRONG
225 JONCKHEERE 77 CS
*6PRONG
200 ANTONOVA 74D CS
*7PRONG
200 ANTONOVA 74C CS
*MU- MU+ HADRONS VEE 4PRONG
225 JONCKHEERE 77 CS
*8PRONG
200 ANTONOVA 74C CS,
*MU- MU+ HADRONS VEE 6PRONG
225 JONCKHEERE 77 CS
*10PRONG
200 ANTONOVA 74C CS

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 4643 TO 4702

PI- NUCLEUS --> (CONT.)
+11PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 8PRONG
225 JONCKHEERE 77 CS
+12PRONG
200 ANTONOVA 74D CS
+13PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 10PRONG
225 JONCKHEERE 77 CS
+14PRONG
200 ANTONOVA 74C CS
+15PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 12PRONG
225 JONCKHEERE 77 CS
+16PRONG
200 ANTONOVA 74C CS
+17PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 14PRONG
225 JONCKHEERE 77 CS
+18PRONG
200 ANTONOVA 74C CS
+19PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 16PRONG
225 JONCKHEERE 77 CS
+20PRONG
200 ANTONOVA 74C CS
+21PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 18PRONG
225 JONCKHEERE 77 CS
+22PRONG
200 ANTONOVA 74C CS
+23PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 20PRONG
225 JONCKHEERE 77 CS
+24PRONG
200 ANTONOVA 74C CS
+25PRONG
200 ANTONOVA 74C CS
+MU- MU+ HADRONS VEE 22PRONG
225 JONCKHEERE 77
+26PRONG
200 ANTONOVA 74C
+MU- MU+ HADRONS VEE 24PRONG
225 JONCKHEERE 77
+MU- MU+ HADRONS VEE 26PRONG
225 JONCKHEERE 77
+MU- MU+ HADRONS VEE 28PRONG
225 JONCKHEERE 77
+MU- MU+ HADRONS VEE 30PRONG
225 JONCKHEERE 77
+MU- MU+ HADRONS VEE 32PRONG
225 JONCKHEERE 77
+MU- MU+ HADRONS VEE 34PRONG
225 JONCKHEERE 77
+D+ D- HADRONS
+ 00 ADD HADRONS
225 JONCKHEERE 77 CS
PI- UNSPEC -->
+(NOT ENCODED)
7 LACH 76
ETA NUCLEON -->
+(NOT ENCODED)
7 BARNIN 77 CS
+ANYTHING
.28 DUDKIN 76
.40 DUDKIN 76
.51 DUDKIN 76 CS
+ETA NUCLEON
.28 DUDKIN 76
.40 DUDKIN 76
.51 DUDKIN 76 CS
RHOO NUCLEON -->
+ANYTHING
3.5 CHAUDHARY 73
RHOO DEUT -->
+ANYTHING
4.0 EISENBERG 75B CS
OMEGA DEUT -->
K+ P -->
+ANYTHING
3.9 MORRIS 76 CS
4.0 EISENBERG 75B CS
F NUCLEON -->
+ANYTHING
3.5 CHAUDHARY 73
A3(1640)- PI+ -->
+(NOT ENCODED)
1.6 DAVIDSON 74
1.8 DAVIDSON 74
DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74 CS
A3(1(3100)0 NUCLEON -->
+(NOT ENCODED)
7 NEASE 76 CS
+ANYTHING
2.3-20S KNAPP 75
13. OAKIN 75
7 ANDERS 75 CS
PIPII(=0) -->
+(NOT ENCODED)
.17 BUNYAT0V 74B
7 BATON 70B
BENSINGER 71
MAUNG 70
PIPII(=1) -->
+(NOT ENCODED)
0.-2.0 BAKER 75
.74-7.9 HOWLAND 74
7 DUDUSCV 73B
STENGER 65
+ANYTHING
1.6-6.9 BEKETCV 74C
K+ E- -->
+E- K+
200 FNAL-446 ANGP
K+ PI+ -->
+(NOT ENCODED)
7 HENRI 69
+PI+ K+
7 ESTABROOKS 77 PWA
K+ PI0 -->
+(NOT ENCODED)
7 HENRI 69
K+ PI- -->
+(NOT ENCODED)
.24-2.7 BARBAROGALTI 73C
.49-5.8 DEBAERE 69B
7 HENRI 69
METTEL 72
+NEUTRAL5
.16-11. CHLIAPNIKOV 74D
+ANYTHING
0.-42. CHLIAPNIKOV 75F
.16-11. CHLIAPNIKOV 74D
+PI+ K+
0.-8.5 VIGNAUD 76
.18-2.6 FOX 74
.81-6.3 BAKER 74
1.3-11. CARNEGIE 74
WAGNER 74 PWA
+2PRONG
.16-11. CHLIAPNIKOV 74D
+4PRONG
.16-11. CHLIAPNIKOV 74D
K+ K- -->
+K- K+
0.-.83 FLATTE 76B
7 WAGNER 74 PWA
K+ P -->
+(NOT ENCODED)
0.-1.5 LEA 69B
3.-303 EINHORN 74C
0.-500 DIDDENS 74 ANGP,
CS,MANY,PCL
3.-.93 MARTIN 69
0.-1.3 MARTIN 72
0.-1.5 CUTKOSKY 73
0.-2.3 MARTIN 73B
0.-2.5 AYED 70S
.10-1000 MCFRISON 73
.25-2.0 CARRERAS 70B
.41-1.1 CARROLL 73D
.43-.94 BIRMINGHAM 71
CARRERAS 71
.53-2.5 MILLER 72
.57-1.2 BOHEN 73
.60-1.5 CASTELLI 72
GIACOMELLI 73F
WILSON 72
.78-1.4 BARNETT 70B
.85 HALL 70B
HAUPTMAN 69
.86-1.6 BLAND 67
BOWLER 65B
.86-1.9 KATO 70B
.90-1.5 BART 72
.90-1.9 BRISTOL 71
CHARLES 72B
1.3-2.5 CARROLL 68F
1.0-200 DRONKERS 75 AMP
1.2 HALL 70B
1.2-1.7 BURGUN 72
SAETRE 73
1.3-2.2 BARISH 70
LOKEN 72B
1.4 ALITTI 72
BURGUN 71
1.4-2.2 LOKEN 72
1.5 CHADWICK 63
1.6-2.3 YOKASAWA 71
1.7 BURGUN 71
2.0 GOLDHABER 65B
2.1-2.7 BRUNET 72
2.2 PESSARD 72
2.3 PESSARD 72
2.5-13. BINGHAM 72B
FIRESTONE 72C
3.0 DODD 69
FERROLUZZI 64B
FERROLUZZI 64C
LYNCH 64
ZRALEK 71
3.0-5.0 CGNFORTO 69
3.0-6.0 AMBAIS 72
3.5 BISHOP 70
BONNEL 70
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DUFLO 69
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FERROLUZZI 64C
GOSHAW 66
4.3 DEJONGH 73
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4.6 SMEN 66
4.6-5.0 ALEXANDER 69D
5.0 ALMEIDA 65
BASSOMPIERRE 69
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CHLIAPNIKOV 72B
DEBAERE 70B
DEWOLF 71
EAEC 73
FERROLUZZI 64C
FERROLUZZI 64C
HENRI 69
HUG 70C
HUG 72
METTEL 72
5.0-13. DEWOLF 72
5.2 CARLSON 65
5.4 GILLESPIE 68
5.5 ANTICH 66
ANTICH 69B
LUTZ 68
YUTA 72
6.0 REIBAL 70
6.0-17. DICK 71B
6.9 CARLSON 69
7.3 MELLEMA 71
MELLEMA 73
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10. LO 74B CS
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15.-80. CORIN 71D CS
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FRANCESOVIET 74C | I
CS | I
35. CARROLL 76E CS | I
42. APKIN 76 CS | I
50. AYRES 76C CS | I
CARROLL 76E CS | I
50.-200 CARROLL 74E CS | I
52. APOKIN 76 | I
953. JACOB 74F P | I
70. AYRES 76C CS | I
CARROLL 76E CS | I
100 AYRES 76C CS | I
BARNES 75 CS | I
CARROLL 76E CS | I
120 CARROLL 76E CS | I
140 AYRES 76C CS | I
150 CARROLL 76E CS | I
FNAL-259 CS | I
170 CARROLL 76E CS | I
175 AYRES 76C CS | I
200 CARROLL 76E CS | I
240 CARROLL 76E CS | I
280 CARROLL 76E CS | I
*INELASTIC | I
0.-2.4 APNDT 74C PWA | I
.20-.60 BURNSTEIN 74 CS | I
.59 BLANSTEIN 74B | I
FRAM 73 CS | I
.78 FOCARDI 67 I | I
.81 STUBBS 61 I | I
8.2 BAKER 74D CS | I
16. BAKER 74D CS | I
32. FRANCESGVIET 74C | I
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*GAMMA ANYTHING | I
8.2 ESKREYS 73C ANGP, P | I
32. BEILLIERE 75B CS, MULT,P | I
*PION N(PENG) | I
32. AZHINENKO 76 | I
*PI-(S) ANYTHING | I
32. BLUMENFELD 75B | I
*N(PI+) ANYTHING | I
32. BARLOUTAUD 76 MULT | I
*N(PI0) ANYTHING | I
8.2 ESKREYS 73C MULT | I
32. BARLOUTAUD 76 MULT | I
*N(PI-) ANYTHING | I
32. BARLOUTAUD 76 MULT | I
*PI+ ANYTHING | I
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4.0-20. BEIER 74 CS | I
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8.0 BEIER 76D CS | I
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10. BEIER 76D CS | I
12. BEIER 76C CS | I
13. CHEN YI I | I
15. BEIER 76D CS | I
16. BAKER 74C CS,MASS, P | I
20. BEIER 76D CS | I
24. BEIER 76C CS | I
43. FNAL-324 ANGP | I
50. FNAL-118A ANGP | I
80. FNAL-324 ANGP | I
100 FNAL-118A ANGP | I
150 BEIER 76D CS | I
FNAL-118A ANGP | I
160 FNAL-324 ANGP | I
250 BEIER 76D CS | I
? CHEN 71 I | I
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WHITMORE 75B I | I
*PI0 ANYTHING | I
32. BEILLIERE 75B CS, MULT,P | I
*PI- ANYTHING | I
3.7-400 WHITMORE 75C I | I
4.0 BEIER 76D CS | I
6.0 BEIER 76D CS | I
8.0 BEIER 76D CS | I
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K+ P --> (CONT.)

*PI- ANYTHING (CONT.)
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BEIER 76D CS | I
LO 74B P,PT | I
12. BEIER 76D CS | I
BEIER 76D CS | I
KO 71 I | I
KO 72 I | I
13. CHEN 71 I | I
STONE 71 I | I
15. BEIER 76C CS | I
16. BAKER 74D CS,MASS, P | I
CHLIAPNIKOV 75H I | I
DEBEER 76 I | I
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20. BEIER 76D CS | I
24. BEIER 76D CS | I
32. AJINENKO 75B I | I
AZHINENKO 77 CS,P | I
CHLIAPNIKOV 74F P | I
CHLIAPNIKOV 75H I | I
DEBEER 76 I | I
WINDMOLDERS 75 I | I
MASS, P | I
40. FNAL-324 ANGP | I
50. FNAL-118A ANGP | I
80. FNAL-324 ANGP | I
100 BARNES 75 P,PT | I
CUTTS 77 CS,P | I
ERWIN 75B P,PT | I
FNAL-118A ANGP | I
150 BEIER 76D CS | I
FNAL-118A ANGP | I
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? FNAL-236A ANGP | I
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*PHI ANYTHING | I
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0.-2.7 DEROO 74 I | I
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.14-.64 GOLDHABER 62 I | I
.14-1.5 LEA 68 I | I
.15-.60 BURNSTEIN 74B I | I
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.17-1.4 LEA 66 I | I
.20-.60 BURNSTEIN 74 ANGP, PWA | I
.32 COCCONI 57 I | I
.40-.73 CALDWELL 65C I | I
.41-.72 CALDWELL 70 I | I
.43 ADAMS 73 I | I
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.47 FRAM 73 I | I
.48 ADAMS 73 I | I
.50 BNL-524 I | I
.50-1.1 BNL-651 I | I
.50-2.5 BAILLON 74 I | I
.50-15. CRUZ 74 I | I
.52 ADAMS 73 I | I
.56 ADAMS 73 I | I
.59 FRAM 73 ANGP,CS, PWA | I
.60 ADAMS 73 I | I
DAMERELL 75 I | I
.60-2.6 BUGG 68 I | I
.63 EVANS 58 I | I
.65 ADAMS 73 I | I
.65 ADAMS 73 I | I
.70-1.1 BNL-524 I | I
.70-1.9 CHARLES 73 I | I
.73 ADAMS 73 I | I
.77 ADAMS 73 I | I
.78 FEMINO 67B I | I
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.81 ADAMS 73 I | I
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.86-1.2 BLAND 69 I | I
.86-1.4 ANDERSSON 69C I | I
.86-1.6 BLAND 68C I | I
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.86-1.8 ERNE 70 I | I
.86-2.1 ABE 75C I | I
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*K+ P (CONT.)
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.90-1.5 GIACCMELLI 70 I | I
.90-1.9 CHARLES 72 I | I
.93-2.6 BAILLON 74B I | I
.94 ADAMS 73 I | I
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.97 HALL 73 I | I
.97-2.0 CERN 63 I | I
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1.0-1.5 ADAMS 75B I | I
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1.0-3.3 ABRAMS 70B I | I
1.0-7.0 LUNDBY 69 I | I
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1.2-2.5 ANDERSSON 69 I | I
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1.3-2.6 EHRLICH 71C I | I
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1.4 BARNETT 73 I | I
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1.4-1.9 ASBURY 69 I | I
1.4-2.3 BALLAM 70 PWA | I
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BARBER 73 I | I
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1.6 BARNETT 73 I | I
1.6-2.3 BARNETT 71B I | I
1.7 BARNETT 73 I | I
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BARNETT 73 ANGP, ASYM | I
1.9 BARNETT 73 I | I
2.0 BAILLON 75B AMP, ANGP | I
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2.0-8.0 AHL-E-335 ANGP | I
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2.1-2.7 DANYSZ 69 I | I
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2.4 PATTON 75B ANGP, PCL | I
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2.7 ANDERSSON 69B I | I
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*K+ P (CONT.)
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3.7 BOCH 69B I | I
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3.9 EISNER 73 I | I
4.0 AKERLOF 70B I | I
4.0-6.0 BAILLON 69 ANGP | I
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4.7 LINNACHEV 62 I | I
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5.2-6.9 BORGHINI 70 PCL | I
6.0 CLIVIER 71 I | I
6.0-18. CRENNERGER 70 I | I
6.4 BRANDENBURG 75 I | I
CARNEGIE 75B I | I
6.8-15. FOLEY 63B I | I
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10. BAGLIN 73 I | I
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14. BELL 73 I | I
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32. AJINENKO 75 I | I
BARLOUTAUD 76 I | I
GRANET 76 ANGP, CS | I
42. APOKIN 76 I | I
43. ANTIPOV 74 ANGP | I
ANTIPOV 76B ANGP, CS | I
ANTIPOV 76D ANGP | I
45. BRUNETON 76B I | I
GAIDOT 75B I | I
GAIDOT 76 ANGP, PCL | I
KAZARINOV 76 ANGP, CS | I
50. AKERLOF 75 ANGP, CS | I
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ANDERSON 76C ANGP, CS | I
AYRES 75 ANGP | I
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CERN-WA-009 AMP, ANGP | I
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X+ P ---> (CONT.)
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50.-175 AYRES 76D ANGP,CS
50.-200 FNAL-069A ANGP
FNAL-096 ANGP
52. ARKIN 76 P
70. ANDERSON 76C ANGP,
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ANKENBRANDT 75
ANGP,
ANGP
AYRES 75 ANGP
AYRES 76C ANGP,
ANGP,CS
75. CERN-HA-009 ANGP
ANGP
80. FNAL-007 ANGP
100 AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANDERSON 76C ANGP,
CS
ANKENBRANDT 75
ANGP,
ANGP
AYRES 75 ANGP
AYRES 76C ANGP,
ANGP
BARNES 75 CS
CERN-WA-009 ANGP
ANGP
110 FNAL-007 ANGP
125 ANKENBRANDT 75
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140 ANDERSON 76C ANGP,
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AYRES 75 ANGP
AYRES 76C ANGP,
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150 ANKENBRANDT 75
ANGP,
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170 FNAL-007 ANGP
175 ANDERSON 76C ANGP,
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2.8 MUSGRAVE 74
3.2 MUSGRAVE 74
*K+ NI15208I+
2.5 MUSGRAVE 74
2.8 MUSGRAVE 74
3.2 MUSGRAVE 74
*K+ NI16868I5I+
2.1-2.7 BRUNET 71B
*K+ NI17008I+
2.5 MUSGRAVE 74
2.8 MUSGRAVE 74
3.2 MUSGRAVE 74
*K+ DEL+
.86-1.6 BLAND 68C
1.2 BLAND 66
2.1-2.7 BRUNET 71B
3.0 SALLSTROM 67
SALLSTROM 68
7 BLAND 68C
SALLSTROM 67
*K+ RESONANCE+
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*K+ ANYTHING
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6.0 BEIER 76D
8.0 BEIER 76D
10. BEIER 76D
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14. CARNEGIE 75D
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MASS
ANGP
CS
CS
CS
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
CS
CS
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP
ANGP,CS
ANGP,
CS
ANGP,
CS
CS
CS

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1.7 BERTHON 73
2.0 COLDNABER 63
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2.1 BCPG 70
2.3 GONSE 67
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2.5 ABRAMS 70D
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>2.5 HENRI 71
2.6 NEWMAN 67
2.7 BCPG 70
2.8 ABRAMS 70D
3.0 BUCHNER 71
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3.0-13. MERCER 70B
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3.3 BISHOP 67
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10. BIRMINGHAM 68
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13. BERLINGHIERI 68
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CS
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12. EISNER 75 AMP,
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K(8921)0 DEL(1950F37)++
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K(8921)0 ANYTHING
8.2 CHLIAPNIKOV 72C
13. CARNEGIE 74 MASS
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5.0 DEBAERE 69
*CLCW(1240)+ P
2.5-13. GRARD 71
5.0 KRUSE 71
9.0 ALEXANDER 69
10. BARNHAM 70B
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*QLCW(1240)0 DEL++
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12. DAVIS 72H
14. BAPLOUTAUC 73
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100 FNAL-110A
230 FNAL-110A
*01(240-1400)+ ANYTHING
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*GHIGH(1340)+ P
7.4 CHIEN 68
13. BRANDENBURG 75E
14. BCWLER 76 CS
*KPRIME(1400)+ P
13. BRANDENBURG 75E
BRANDENBURG 76
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CS
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3.0 CAFNEY 76 ANG,
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3.0-13. BARLOUTAUC 72C
3.5 BISHOP 67
CAFNEY 76

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4.6 CARNEY 76 ANG,
ANGP,CS,OME
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5.0 BASSCMPIERRE 69B
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7.3 MELLEMA 73
8.2 CARNEY 76
COLLEY 76
9.0 CARNEY 76 ANG,
ANGP,CS,OME
FU 70B
BARNHAM 71
BIRMINGHAM 68
CARNEY 76 ANG,
ANGP,CS,OME
12. CARNEY 76 ANG,
ANGP,CS,OME
WALUCH 73 ANG,
ANGP,CS,OME
YAMDAGNI 73B ANG,
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BERLINGHIERI 68
CARNEY 76
16. CARNEY 76 ANG,
ANGP,CS,OME
COLLEY 76 ANGP,CS
K(1420)+ DEL+
5.0 DEBAERE 69
K(1420)+ ANYTHING
8.2 CHLIAPNIKOV 72C
K(1420)0 DEL++
2.5 ABRAMS 70D
2.8 ABRAMS 70D
3.2 ABRAMS 70D
3.3-5.0 GEORGE 67
5.0 BASSCMPIERRE 69B
DEBAERE 69
ESKREYS 71
10. COLLEY 74 CS
13. BERLINGHIERI 68
ESTABROOKS 76B
7 DEBAERE 69 CS
K(1420)0 DEL(1950F37)++
10. COLLEY 74 CS
K(1420)0 ANYTHING
8.2 CHLIAPNIKOV 72C
13. CARNEGIE 74 MASS
*KN(1700)+ P
5.0 DEBAERE 69
6.8 FEICCK 75
*L(1770)+ P
5.0 KRUSE 71
10. COLLEY 71
12. BARBAROGAL71 69B
K(1780)+ P
10. BALDI 76 CS
*KN(1800)+ P
12. WALUCH 73 CS
*KPI(1+/2) NUCLEON
5.0 ESKREYS 74 AMP,
ANGP,CS
8.2 ESKREYS 74 AMP,
ANGP,CS,
MASS
8.2 ESKREYS 74 AMP,
ANGP,CS,
MASS
*K*PI(1=3/2) NUCLEON
5.0 ESKREYS 74 AMP,
ANGP,CS
8.2 ESKREYS 74 AMP,
ANGP,CS,
MASS
*P ANYTHING
4.0 BEIER 76D CS
4.0-20. BEIER 74 CS
6.0 BEIER 76C CS
8.0 BEIER 76D CS
10. BEIER 76D CS
12. BEIER 76D CS
15. BEIER 76D CS
16. AJINENKO 76 ANGP,
MASS,P
20. BEIER 76D CS
24. BEIER 76D CS

K+ P --> (CONT.)

*P ANYTHING (CONT.)
25.-200 FNAL-396 ANGP,P
29. ANTIPOV 76F CS,
MASS
32. BARLOUTAUD 75B
CHLIAPNIKOV 75G
40. FNAL-324 ANGP
43. ANTIPOV 76F CS,
MASS
50. FNAL-118A ANGP
80. FNAL-324 ANGP
100 BARNES 75 P,PI
FNAL-110A ANGP
150 BEIER 76D CS
FNAL-118A ANGP
160 FNAL-324 ANGP
250 BEIER 76D CS
FNAL-236A ANGP
*P DD
32. DENEGRI 77 CS
*4P ANYTHING
9.0 LISSAUER 70
40. FNAL-324 ANGP
50. FNAL-118A ANGP
80. FNAL-324 ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
160 FNAL-324 ANGP
7 FNAL-236A ANGP
*DEL+ ANYTHING
8.2 CHLIAPNIKOV 74D
ANGP,CS,OME,
MASS
32. AJINENKO 75B
*LAMBDA ANYTHING
8.2 CHLIAPNIKOV 76
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MULT,P,POL,PT
GRARD 74B ANGP,CS,
MASS,P,PT
16. ALPGARD 74C ANGP,
MASS
ALPGARD 76B ANGP,
MASS
CHLIAPNIKOV 76
ANGP,CS,MASS,
MULT,P,POL,PT
GRARD 74B ANGP,CS,
MASS,P,PT
32. BARLOUTAUD 76 CS
BEILLIERE 75 CS,P
*LAMBDA ANYTHING
8.2 CHLIAPNIKOV 76 CS,
MASS,MULT,P,
POL,PT
GRARD 74B ANGP,CS,
MASS,P,PT
9.0 LISSAUER 70
10. BARNHAM 71B
16. CHLIAPNIKOV 76 CS,
MASS,MULT,P,
POL,PT
GRARD 74B ANGP,CS,
MASS,P,PT
32. BEILLIERE 75 CS,P
*N(LAMBDA) ANYTHING
32. BARLOUTAUD 76
MULT
*SIGMA- PRONG
14. BARDAGINOTWI 74
*XI- ANYTHING
13. STONE 70
*XI0 ANYTHING
13. STONE 70
*2PRONG
8.2 ESKREYS 73C CS
16. AJINENKO 76 CS
32. ANDPOZHANOV 74 CS
BEILLIERE 75 CS
FRANCESOVIET 74C
CS
100 BARNES 75 CS
*GAMMA 2PRONG
32. BEILLIERE 75B CS
*MU- MU+ ANYTHING
153 FNAL-331 ANGP,P
*NIP101 2PRONG
8.2 ESKREYS 73C MULT
*2P10 ANYTHING
32. BEILLIERE 75B
MULT,
P
*P10 CHARGED ANYTHING
32. BEILLIERE 75B
MULT,
P

K+ P --> (CONT.)

*2PI- ANYTHING
10. LO 74B P
32. AZHINENOC 77 P
*KO PI+ ANYTHING
5.0 ESKREYS 75 P
8.2 CHLIAPNIKOV 74E
MASS,
P
CHLIAPNIKOV 76E
CS,
MASS,P
ESKREYS 75 P
VERBEURE 75 P
WATKINS 75B MASS,
P
16. CHLIAPNIKOV 74E
MASS,
P
CHLIAPNIKOV 76E
CS,
MASS,P
VERBEURE 75 P
WATKINS 75B MASS,
P
*KO PI- ANYTHING
5.0 ESKREYS 75 P
8.2 CHLIAPNIKOV 74E P
CHLIAPNIKOV 76E
CS,
MASS,P
VERBEURE 75 P
WATKINS 75B MASS,
P
*KO PHI ANYTHING
6.8 CHIEN 75B P
*KS PI+ ANYTHING
32. BARLOUTAUD 76
MASS
*P K+ PIO
.64-.81 FISK 62
.73-.78 FILIPPAS 67
.86-1.6 BLAND 68C
1.2 BLAND 66 CS
1.5 BETTINI 55
2.0 CHIENEY 65
2.1-2.7 BRUNET 71D
2.5 MUSGRAVE 74
2.8 MUSGRAVE 74
3.0 SALLSTROM 67
3.0-5.0 BASSCMPIERRE 68
CS
3.2 MUSGRAVE 74
4.3 SEIDL 73B
? BLAND 68C CS
*P K+ RHO
5.0 CEBAERE 69
HUG 73 ANGP
*P K+ OMEGA
2.6 NEWMAN 67
3.0 FERROLUZZI 64 CS
6.8 CHIEN 75B ANG,
ANGP,CS,MASS,
P
12. DAVIS 72C
*P K+ PHI
6.8 CHIEN 75B ANG,
ANGP,CS,MASS,
P
12. DAVIS 72C
*P KO PI+
.59 BUFNSTEIN 74B
.64-.81 FISK 62
.73-.78 FILIPPAS 67
.86-1.6 BLAND 68C
1.1 BOLDT 64
1.2 BERTHON 73
BLAND 66 CS
LESQUOY 75
1.3 BERTHON 73
BURGUN 74
LESQUOY 75
1.4 BERTHON 73
LESQUOY 75
1.5 BETTINI 65
1.7 BERTHON 73
LESQUOY 75
2.0 CHINOWSKY 65
COLOMBIER 66

REACTION/MOMENTUM INDEX (CONT'D)

K+ P --> (CONT.)

*P KO PI+ (CONT.)
2.1-2.7 BRUNET 71C
2.3 BCNSE 67B
2.4 NIEDERGALL 74
2.5 MUSGRAVE 74
2.6 NEWMAN 67
2.8 MUSGRAVE 74
3.0 CARNEY 76 CS
FERRCLUZZI 65C
SALLSTROM 67
3.0-5.0 BASSOMPIERRE 68
CS
CHARRIERE 73 ANG
CS,MASS
3.2 MUSGRAVE 74
SHUFELDT 70
3.5 BISHOP 67
CARNEY 76
4.3 CARNEY 76 CS
SEIDL 739
4.6 CARNEY 76 CS
FU 68 ANGP,CS
5.0 CARNEY 76 CS
COLLEY 76 ANG,
ANGP,CS,MASS
FERRANDO 74 DME,
MASS,PWA
6.0-10. BNL-564
8.2 CARNEY 76
COLLEY 76
9.0 CARNEY 76 CS
LIND 69B
10. CARNEY 76 CS
12. CARNEY 76 CS
WALUCH 72
WALUCH 72B
WALUCH 73 AMP,
ANGP,CS,MASS
13. CARNEY 76
16. CARNEY 76 CS
COLLEY 76 ANG,
ANGP,CS,MASS
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
? BISHOP 67 CS
BLAND 68C CS
GOLDHABER 65
HIRATA 68
KEMDE 63
*P KO RHO+
5.0 DEEAFFE 69
*P K3 PI+
3.0-4.0 RHEL-126 FV
10. BALDI 76 ANG,MASS
BALCI 78B ANGP,
ESKREYS 74
CERN-S-131 FV
CERN-WA-010 FV
20. CERN-WA-010 FV
40. CERN-WA-010 FV
60. CERN-WA-010 FV
P K(892)+ PIO
3.5 BISHOP 67
5.0 DEBAERE 69
ESKREYS 74 CS
8.2 ESKREYS 74 CS
P K(892)+ ETA
6.2 ESKREYS 73B
P K(892)+ PHOD
8.2 ESKREYS 73B
P K(892)+ OMEGA
8.2 ESKREYS 73B
P K(892)0 PI+
2.3 BCNSE 67
2.6 NEWMAN 67
3.5 BISHOP 67
5.0 DEBAERE 69
ESKREYS 74 CS
HUG 73 ANGP
6.8 FEIOCK 75
7.3 CHIEN 69B
8.2 ESKREYS 74 CS
STERGIOU 74B
12. CHUNG 75B ANGP,CS,
DME
CHUNG 75D ANG
EISNER 75 ANG
13. CARNEGIE 76 ANGP,
MASS,PWA
P K(892)0 PI-
8.2 VASSILIADIS 75
*P OMEGA(1324)0 PI+
6.8 CHIEN 75 CS
P K(1420)0 PI+
5.0 DEBAERE 69
HUG 73 ANGP

K+ P --> (CONT.)

*P KN(17003)0 PI+
6.8 CHIEN 75B CS
+2P LAMBDA
5.0 BASSOMPIERRE 67B
10. CERN-S-131 FV
13. BERLINGHIERI 68C
COHEN 730
+N K+ PI+
4.55 BURNSTEIN 76B
4.64-4.81 FISK 62
4.72-4.76 FILIPPAS 67
4.86-5.6 BLAND 68C
5.2 BLAND 66 CS
5.5 BETTINI 65
7.0 CHINOWSKY 65
8.5 MUSGRAVE 74
8.8 MUSGRAVE 74
3.0-5.0 EASSOMPIERRE 68
CS
3.2 MUSGRAVE 74
4.3 ESTABROOKS 77
ESTABROOKS 77B
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
? BLAND 68C CS
+N K*(892)+ PI-
3.5 BISHOP 67
5.0 DEBAERE 69
ESKREYS 74 CS
8.2 ESKREYS 74 CS
13. BERLINGHIERI 68C
+NUCLEON KACN PION
4.64-4.81 FISK 62
4.73-4.76 FILIPPAS 67
4.86-5.6 BLAND 68C
5.5 BETTINI 65
7.0 CHINOWSKY 65
8.5 SALLSTROM 67
3.0-5.0 BASSOMPIERRE 68
CS
? HIRATA 68
+N(1470)0+ KO PI+
3.5 BISHOP 67
+N(1520)0+ KO PI+
3.5 BISHOP 67
+N(1700)0+ KO PI+
3.5 BISHOP 67
+DEL++ PI- ANYTHING
8.2 VORDBEV 76B MASS,
P
8.3 CHLIAPNIKOV 75C
ANGP,DME,MASS,
P,PT
10. CHLIAPNIKOV 75D
ANGP,DME,MASS,
P,PT
VORDBEV 76B MASS,
P
*DEL++ K+ PI-
2.3 BCNSE 67
2.5-13. LINGLIN 73
2.6 NEWMAN 67
5.0 BASSOMPIERRE 69C
BIALAS 709
DEBAERE 69
ESKREYS 74 CS
HUG 73 ANGP
5.4 MERCER 69
7.3 CARNEY 76B MASS
8.2 CARNEY 76B
ESKREYS 74 CS
VORDBEV 76B MASS
8.9 CARNEY 76B MASS
9.0 FU 65
10. CARNEY 76B
12. BINGHAM 72E
CARNEY 76B MASS
MATISEN 74 ANG,
ANGP,CS,MASS
PWA
WAGNER 74B ANGP,
MASS
13. BRANDENBURG 75C
ANG,
MASS

K+ P --> (CONT.)

*DEL++ K+ PI- (CONT.)
CARNEGIE 74 ANG,
MASS
CARNEY 76B
ESTABROOKS 77B
FERBEL 71
16. CARNEY 76B MASS
VERCBEV 76B MASS
? ANTICH 69C
*DEL+ KO PIO
2.5-13. BINGHAM 72
3.5 BISHOP 67
5.0 DEBAERE 69
ESKREYS 74 CS
7.3 CARNEY 76B MASS
8.2 CARNEY 76B
ESKREYS 74 CS
8.9 CARNEY 76B MASS
10. CARNEY 76B
12. CARNEY 76B
ESKREYS 74 CS
COLLEY 76
HUG 73B
16. CARNEY 76B ANGP,
MASS
DEL+ K(892)+ PI-
8.2 ESKREYS 73B
DEL++ K(892)0 CMEGA
8.2 ESKREYS 73B
*DEL+ KO PI+
3.5 BISHOP 67
5.0 DEBAERE 69
*DELO K+ PI+
5.0 DEBAERE 69
ESKREYS 74 CS
8.2 ESKREYS 74 CS
+LAMBDA 2PKO
2.6 NEWMAN 67
3.0 ALDEBSMA 66 CS
3.0-5.0 FERROLUZZI 65
3.5 BISHOP 67
13. BERLINGHIERI 68C
COHEN 730
+LAMBDA 2PRONG
8.2 CHLIAPNIKOV 76 CS
CHLIAPNIKOV 76 CS
+LAMBDA 2PRONG
8.2 CHLIAPNIKOV 76 CS
16. CHLIAPNIKOV 76 CS
+SIGMA+ K+ KO
2.6 NEWMAN 67
3.0 ALDEBSMA 66 CS
3.0-5.0 FERROLUZZI 65
3.5 BISHOP 67
3.8 CCHEN 730
+VEE 2PRONG
13. LO 74B CS
13. CCHEN 73D
+PRONG OVEE
10. LC 74B CS
+PI- 3PRONG
3.2 AZHINENKO 77 P
+KO 2PI+ NEUTRAL(S)
3.5 BISHOP 67
*P K+ PI+ PI-
.86-1.6 BLAND 68C
1.5 BETTINI 65
1.7 BERTHON 73
2.0 CHINOWSKY 65
2.3 BCNSE 67
2.6 NEWMAN 67
3.0-5.0 BASSOMPIERRE 68
CS
3.2 EISENSTEIN 73D
3.5-5.0 GEORGE 67
5.0 BASSOMPIERRE 67C
DEBAERE 69
ESKREYS 74 CS
HUG 73 ANGP,MASS
STOPA 75
5.4 BCNSE 68
6.8 CHIEN 75B MASS
CHIEN 75D MASS
FEIOCK 75
7.3 CARNEY 76B AMP,
ANG,ANGP,CS,
MASS,PWA
7.3-16. METZGER 76
8.2 CARNEY 76B
ESKREYS 74 CS

K+ P --> (CONT.)

*P K+ PI+ PI- (CONT.)
STERGIOU 74B
VORDBEV 76B MASS
8.9 CARNLY 76B AMP,
ANG,ANGP,CS,
MASS,PWA
12. BLIND 73 ANGP,
ANG,ANGP,CS,
MASS,PWA
BLING 74 MASS
BOHLER 74 AMP,
MASS,PWA
CARNEY 76B
CERN-S-131
COLLEY 74 FV
HUG 70B
12. CARNEY 76B AMP,
ANG,ANGP,CS,
MASS,PWA
CHUNG 75B MASS
CHUNG 75D MASS
EISNER 75 CS,MASS
13. BERLINGHIERI 68C
BRANDENBURG 75E
PWA
BRANGENBURG 75F
BRANDENBURG 76
ANGP,CS,MASS,
PWA
CARNEGIE 76 ANGP,
MASS,PWA
CARNEGIE 76B PWA
CARNEY 76B
CARNEY 76B
14. BOHLER 76 PWA
16. CARNEY 76B AMP,
ANG,ANGP,CS,
MASS,PWA
VORDBEV 76B MASS
32. BARLGUTAUC 76 CS,
P
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+P 2K+ K-
6.8 CHIEN 75E CS,MASS
8.2 CARNEY 75 ANGP,
MASS,PWA
10. CARNEY 75 ANGP,
MASS,PWA
16. CARNEY 75 ANGP,
MASS,PWA
18. CERN-WA-008 FV
32. CERN-WA-008 FV
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+P K+ KO PIO
7.3 TRIPPE 68C
+P KO PI+ PIOS
3.5 BISHOP 67
+P KO PI+ PIO
.86-1.6 BLAND 68C
1.2 BERTHON 73
1.3 BERTHON 73
1.4 BERTHON 73
1.5 BETTINI 65
1.7 BERTHON 73
2.0 CHINOWSKY 65
2.6 NEWMAN 67
3.0 FERRCLUZZI 65B
3.0-5.0 EASSCMPIERRE 68
CS
3.5 BISHOP 67
3.5-5.0 GEORGE 67
5.0 BASSCMPIERRE 67C
DEBAERE 69
ESKREYS 74 CS
5.4 BCMSE 68
7.3 CARNEY 76B AMP,
ANG,ANGP,CS,MASS
8.2 CARNEY 76B
ESKREYS 74 CS
8.9 CARNEY 76B AMP,
ANGP,CS,MASS
10. BOHLER 74 AMP,
MASS,PWA
CARNEY 76B
12. CARNEY 76B AMP,
ANGP,CS,MASS
13. BERLINGHIERI 68C
CARNEY 76B
16. CARNEY 76B AMP,
ANGP,CS,MASS
? BISHOP 67 CS

REACTIONS 4832 TO 4926

REACTION/MOMENTUM INDEX (CONT'D)

K+ P --> (CONT.)						
+P K0 ETA PI+						
3.5	BISHOP 67					
8.2	ESKREYS 73B					
+P K0 RHO PI+						
8.2	ESKREYS 73B					
+P K0 CHEGA PI+						
3.5	BISHOP 67					
6.8	CHIEN 75B	ANGP, MASS,P				
8.2	ESKREYS 73B					
+P K0 PHI PI+						
6.8	CHIEN 75B	CS,MASS				
+P K(892)+ PI+ PI-						
8.2	ESKREYS 73B					
+2P AP K+						
18.	CERN-WA-008	FV				
32.	CERN-WA-008	FV				
+2P AP K-						
18.	CERN-WA-008	FV				
32.	CERN-WA-008	FV				
+2P ALAMBDA PI0						
9.0	ALEXANDER 68E	CS				
13.	COHEN 73D					
+P N ALAMBDA PI+						
9.0	ALEXANDER 68E	CS				
13.	COHEN 73D					
+N K+ PI+ PI0						
2.0	CHIMOWSKY 65					
+N 2K+ AK0						
3.5	BISHOP 67					
+N K0 2PI+						
.86-1.6	BLAND 68C					
1.2	BERTHON 73					
1.3	BERTHON 73					
1.4	BERTHON 73					
1.5	BETTINI 65					
1.7	BERTHON 73					
2.0	CHIMOWSKY 65					
2.6	NEWMAN 67					
3.0	FERROLUZZI 65B					
3.0-5.0	BASSOMPIERRE 68					
		CS				
3.5	BISHOP 67					
3.5-5.0	GEORGE 67					
5.0	BASSOMPIERRE 67C					
	DEBAERE 69					
	ESKREYS 74	CS				
8.2	ESKREYS 74	CS				
13.	BERLINGHIERI 68B					
	BERLINGHIERI 68C					
50.	FNAL-110A					
100	FNAL-110A					
200	FNAL-110A					
+NUCLEON KAON 2PION						
.86-1.6	BLAND 68C					
+DEL++ K0 PI+ PI+						
8.2	ESKREYS 73B					
+LAMBDA 2K+ PI0						
2.6	NEWMAN 67					
3.0	JOLDERSMA 66					
3.0-5.0	FERROLUZZI 65					
3.5	BISHOP 67					
13.	BERLINGHIERI 68E					
	COHEN 73D					
+LAMBDA K+ K0 PI+						
2.6	NEWMAN 67					
3.0	JOLDERSMA 66	CS				
3.0-5.0	FERROLUZZI 65					
13.	BERLINGHIERI 68B					
	COHEN 73D					
+SIGMAO K+ K0 PI+						
13.	COHEN 73D					
+SIGMA- 3PRONG						
	BARCADINOTWI 74					
+2VEE 2PRONG						
10.	L0 74B	CS				
13.	COHEN 73D					
+4PRONG						
2.1-2.7	LEWIS 73					
8.2	ESKREYS 73C	CS				
16.	AJINENKO 76	CS				
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	BEILLIERE 75	CS				
	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
+GAMMA 4PRONG						
32.	BEILLIERE 75B	CS				
+N(PI0) 4PRENG						
8.2	ESKREYS 73C	MULT				
+P K+ PI+ PI0 PI-						
.86-1.6	BLAND 68C					
2.0	CHIMOWSKY 65					
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				

K+ P --> (CONT.)						
+P K+ PI+ PI0 PI- (CONT.)						
3.0-5.0	BASSOMPIERRE 68					
		CS				
6.8	CHIEN 75	ANG,MASS				
+P K+ PI+ PI- MMGE2.2						
6.8	CHIEN 75B	CS,MASS				
+P K+ K0 K- PI+						
.86-1.6	BLAND 68C					
2.0	CHINOWSKY 65					
+P K0 2PI+ PI-						
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				
3.0-5.0	BASSOMPIERRE 68					
		CS				
+P K0 PI+ PI-						
2.0	CHINOWSKY 65					
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				
3.0-5.0	BASSOMPIERRE 68					
		CS				
6.8	CHIEN 75B	MASS				
8.2	ESKREYS 73B					
+P K0 PHI PI+ PIO						
6.8	CHIEN 75B	CS				
+P K+(892)+ PI+ PIO PI-						
2.0	CHINOWSKY 65					
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				
3.0-5.0	BASSOMPIERRE 68					
		CS				
+P K+ K0 PI+ PI0						
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				
3.0-5.0	BASSOMPIERRE 68					
		CS				
+P 2K+ K- PIO						
6.8	CERN-WA-008	FV				
8.2	ESKREYS 73B					
+P K0 K- PI0						
6.8	CERN-WA-008	FV				
+P K0 2PI+ PI-						
2.6	NEWMAN 67					
6.8	CHIEN 75	MASS				
8.2	ESKREYS 73B					
+P K0 PHI PI+ PIO						
6.8	CHIEN 75B	CS,MASS				
+P K0 2PI+ PI-						
.86-1.6	BLAND 68C					
2.0	CHINOWSKY 65					
2.6	NEWMAN 67					
3.0	FERROLUZZI 64	CS				
3.0-5.0	BASSOMPIERRE 68					
		CS				
+P K+(892)+ PI+ PIO PI-						
8.2	ESKREYS 73B					
+2P ALAMBDA PI- PI-						
9.0	ALEXANDER 68E	CS				
13.	COHEN 73D					
+LAMBDA 2K+ PI- PI-						
13.	COHEN 73D					
+LAMBDA 3K+ K-						
13.	COHEN 73D					
+LAMBDA K+ K0 PI+ PI0						
13.	BERLINGHIERI 68B					
+LAMBDA 2K0 2PI+						
13.	BERLINGHIERI 68B					
+LAMBDA 4PRONG						
8.4	CHLIAPNIKOV 76	CS				
16.	CHLIAPNIKOV 76	CS				
+ALAMBDA 4PRONG						
8.4	CHLIAPNIKOV 76	CS				
16.	CHLIAPNIKOV 76	CS				
+SIGMA0 2K+ PI+ PI-						
13.	COHEN 73D					
+VEE 4PRONG						
10.	L0 74B	CS				
13.	COHEN 73D					
+4PRONG 0VEE						
10.	L0 74B	CS				
+5PRONG						
2.1-2.7	LEWIS 73					
+PI- 5PRONG						
32.	AZHINENKO 77	P				
+P K+ 2PI+ 2PI-						
2.6	NEWMAN 67					
13.	JAIN 73					
	JAIN 73C					
16.	DEWCLF 76	ANG, MASS,MULT,P, PT				
32.	BARLOLTAUD 76	CS				
+P K+ K0 K- PI+ PI0						
6.8	CHIEN 75B	MASS				
+P K0 2PI+ PIO PI-						
2.6	NEWMAN 67					
6.8	CHIEN 75B	CS,MASS				
8.2	ESKREYS 73B					
+P K0 2PI+ PI- MMGE2						
6.8	CHIEN 75B	MASS				
+N K0 3PI+ PI-						
6.8	CHIEN 75B					
+LAMBDA K+ 2PI+ PI-						
13.	BERLINGHIERI 68B					
+SIGMA- 5PRONG						
14.	BARDACINOTWI 74					
+2VEE 4PRONG						
13.	COHEN 73D					
+6PRONG						
8.2	ESKREYS 73C	CS				
16.	AJINENKO 76	CS				
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	BEILLIERE 75	CS				
	FRANCESOVIET 74C					
		CS				

K+ P --> (CONT.)						
+6PRONG (CONT.)						
100	BARNES 75	CS				
+GAMMA 6PRONG						
32.	BEILLIERE 75B	CS				
+N(PI0) 6PRENG						
8.2	ESKREYS 73C	MULT				
+LAMBDA 6PRONG						
8.2	CHLIAPNIKOV 76	CS				
16.	CHLIAPNIKOV 76	CS				
+LAMBDA 6PRONG						
8.2	CHLIAPNIKOV 76	CS				
16.	CHLIAPNIKOV 76	CS				
+VEE 6PRONG						
10.	L0 74B	CS				
13.	COHEN 73D					
+6PRONG 0VEE						
10.	L0 74B	CS				
+PI- 7PRONG						
32.	AZHINENKO 77	P				
+SIGMA- 7PRONG						
14.	BARDACINOTWI 74					
+8PRONG						
8.2	CCGHEN 74					
	ESKREYS 73C	CS				
16.	AJINENKO 76	CS				
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	BEILLIERE 75	CS				
	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
+GAMMA 8PRONG						
32.	BEILLIERE 75B	CS				
+LAMBDA 8PRONG						
8.2	CHLIAPNIKOV 76	CS				
16.	CHLIAPNIKOV 76	CS				
+VEE 8PRONG						
10.	L0 74B	CS				
+8PRONG 3VEE						
10.	LC 74B	CS				
+PI- 9PRONG						
32.	AZHINENKO 77	P				
+10PRONG						
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	BEILLIERE 75	CS				
	FRANCESOVIET 74C					
100	BARNES 75	CS				
+GAMMA 10PRONG						
32.	BEILLIERE 75B	CS				
+PI- 11PRONG						
32.	AZHINENKO 77	P				
+12PRONG						
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
+GAMMA 12PRONG						
32.	BEILLIERE 75B	CS				
+14PRONG						
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
+16PRONG						
32.	AKOPDZHANOV 74	CS				
	AZHINENKO 77	CS				
	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
+18PRONG						
100	BARNES 75	CS				
+PI+ ANYTHING						
+ PI- ANYTHING						
100	REASE 76	P				
+K+ ANYTHING						
+ PI+ ANYTHING						
100	BARNES 75	P,PT				
+K0 ANYTHING						
+ AK0 ANYTHING						
32.	BEILLIERE 75	CS,P				
+K0 PI0 ANYTHING						
+ AK0 PI0 ANYTHING						
32.	BEILLIERE 75B	MULT, P				
+2K0 ANYTHING						
+ 2AK0 ANYTHING						
32.	BEILLIERE 75	CS				

K+ P --> (CONT.)						
+K0 CHARGED ANYTHING						
+ AK0 CHARGED ANYTHING						
32.	BEILLIERE 75B					
		MULT, P				
+K0 2PRONG						
+ AK0 2PRONG						
32.	BEILLIERE 75	CS				
+2P ALAMBDA						
+ 2P ASIGMA0						
9.0	ALEXANDER 68E	CS				
13.	COHEN 73C					
+LAMBDA 2K+						
+ SIGMA0 2K+						
3.5	ERWIN 66					
13.	BERLINGHIERI 68B					
	COHEN 73C					
+LAMBDA K0 ANYTHING						
+ LAMBDA AK0 ANYTHING						
32.	BEILLIERE 75	CS				
+LAMBDA K+ K0 PI+						
+ SIGMA0 K+ K0 PI+						
13.	COHEN 73D					
+K0 4PRONG						
+ AK0 4PRONG						
32.	BEILLIERE 75	CS				
+2P ALAMBDA PI+ PI-						
+ 2P ASIGMA0 PI+ PI-						
13.	COHEN 73C					
+LAMBDA 2K+ PI+ PI-						
+ SIGMA0 2K+ PI+ PI-						
13.	COHEN 73C					
+K0 6PRONG						
+ AK0 6PRONG						
32.	BEILLIERE 75	CS				
+K0 8PRONG						
+ AK0 8PRONG						
32.	BEILLIERE 75	CS				
+- K+ P						
+ 2PRONG						
32.	FRANCESOVIET 74C					
		CS				
100	BARNES 75	CS				
**********						
K+ N -->						
(ENDF ENCODED)						
.60-1.5	CASTELLI 72					
	WILSON 72					
.68	RAY 69C					
1.0	LITTENBERG 69C					
1.0-200	CRONKERS 75	AMP				
2.0	GREEN 70					
3.6	MARSHALL 72					
4.6	BUCNGH 73					
9.0	CLEPP 70					
	CORDS 73					
12.	FIRESTONE 71					
	LISSAUER 71					
	LISSAUER 72					
?	ROTH 72					
+ANYTHING						
.36-.72	PETERSON 70B					
.90-2.4	COOL 66					
1.5-3.3	ABRAMS 67					
10.-70.	NAKAJIMI 75B	CS				
25.	ANISOVICH 74F					
50.	CARROLL 76E	CS				
50.	CARROLL 76E	CS				
60.	ANISCVICH 74F					
80.	CARROLL 76E	CS				
100	CARROLL 76E	CS				
120	CARROLL 76E	CS				
150	CARROLL 76E	CS				
170	CARROLL 76E	CS				
200	CARROLL 76E	CS				
240	CARROLL 76E	CS				
280	CARROLL 76E	CS				
?	COOK 61					
	GALBRAITH 65					
+K+ N						
0.-.60	KNUDSEN 73	CS,PWA				
.45-.81	CAVIS 60					
.64-1.5	BOLOGNAGLSAG 72					
	CHERNAEV 73C					
.70-.90	BNL-641	PCL				
.70-1.4	RHEL-136					
.98-2.0	BURROWES 69					
.98-2.4	BURROWES 69					
1.0	CARTER 73					
1.0-1.5	ADAMS 75E					
1.0-2.4	COOL 70					
1.0-3.3	ABRAMS 70B					
1.2	BAILLON 75D	AMP				
1.3	NEW-34	POL				
1.4	BAILLON 75D	AMP				

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K+ N ---> (CONT.)

*K+ A (CONT.)
1.5 CARTER 73
1.6 KEK-34
1.6 KEK-34
2.5-6.0 BAKER 63B
2.6 BAILLON 75D AMP
10. BAILLON 77 AMP
15.-60. DENISOV 71
7 STENGER 64
*K+ N(1476)810
8.2 GINESTET 74
*K+ N(1770)810
8.2 GINESTET 74
*K+ DELO
1.6 SEEGER 71
3.0 BASSOMPIERRE 70
*K0 P
0.-.60 KNUDSEN 73 CS,PWA
.20-.80 SLATER 61
.23-.81 SLATER 61
.45-.81 DAVIS 60
.60 RAY 69D
.64-1.5 GIACOMELLI 72B
.70 SAKITT 76
.70-1.4 PRL-136
.80 SAKITT 76
.86-1.6 HIRATA 71
.90 SAKITT 76
1.3 KEK-34 POL
1.6 KEK-34
SEEGER 71
1.9 DAVIES 72
KEK-34
2.2 BANERJEE 76 AMP,
3.0 BENKHEIRI 71 ANGP,CS
2.3 BUTTERWORTH 65
ANGP,
CS
2.4 BANERJEE 76
2.7 BANERJEE 76 AMP,
ANGP,CS
3.0 DIEBOLD 74 ANGP,
CS
3.8 EISENSTEIN 70B
MONTINGER 71
MONINGER 73
4.0 DIEBOLD 74 ANGP,
CS
5.5 CLINE 65
CLINE 70
6.0 CERN-S-137 POL
DIEBOLD 74 ANGP,
CS
8.2 DEJONGH 74B
8.4 GILCHRIESE 77
10. HAGUENAUER 71B
12. FIRESTONE 70
13. GILCHRIESE 77
7 GOLDSCHMIDT 68
K0 N(1688)151
3.0 BASSOMPIERRE 70
K0 DEL
1.6 SEEGER 71
3.0 BASSOMPIERRE 70
8.2 VIGNAUD 75
*K- P
9.0 CLOPP 72
*K+(892)0 N
.86-1.6 HIRATA 71B
1.6 SEEGER 71
3.0 BASSOMPIERRE 70
4.6 BUCHNER 72B
8.2 HENDRICKX 76
*K+(892)0 P
.86-1.6 HIRATA 71B
1.6 SEEGER 71
2.0 CAVIES 70B
2.2 BAKER 74
2.4 BAKER 74
2.7 BAKER 74 ANG,CME
3.0 BASSOMPIERRE 70
WICKLUND 77 ANG,
ANGP
4.0 WICKLUND 77 ANG,
ANGP
4.6 BUCHNER 72E
VIGNAUD 76 AMP
5.5 EKLUND 75
6.0 WICKLUND 77 ANG,
ANGP
8.2 DEJONGH 74B
GINESTET 74
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VIGNAUD 76
9.0 CORDS 71
9.1 CORDS 71B

K+ N ---> (CONT.)

*K+(892)0 P (CONT.)
12. FIRESTONE 70B
VIGNAUD 76 AMP
7 BUCHNER 72B
GOLDHABER 65
MUSGRAVE 71B
K+(1420) N
4.6 BUCHNER 72B
*K+(1420)0 P
3.0 BASSOMPIERRE 70
4.6 BUCHNER 72B
VIGNAUD 76 AMP
5.5 EKLUND 75
8.2 DEJONGH 74B
GINESTET 74
HENDRICKX 76
*K+(1780)0 P
9.0 CARMONY 71
*KN(1800)0 P
8.2 HENDRICKX 76
*EXOTIC-MESON ANYTHING
1.9 YOUNG 72
*PI- PI- MU- ANYTHING
150 FNAL-331 ANGP,P
*P K+ PI-
2.0 FOX 74 AMP,ANG,
ANGP
2.2 BAKER 74
2.4 BAKER 74
2.7 BAKER 74 ANGP,CS
3.0 WICKLUND 77 ANGP,
CS,MASS
4.0 WICKLUND 77 ANGP,
CS,MASS
4.6 VIGNAUD 76 ANG,CS,
MASS,PWA
5.5 EKLUND 75
6.0 WICKLUND 77 ANGP,
CS,MASS
8.2 DEJONGH 74B
GINESTET 74
HENDRICKX 76
VIGNAUD 76
9.0 CARMONY 75 ANG
CARMONY 77 ANG,CS,
MASS
CLOPP 72
CORDS 71
YEN 74B ANG,ANGP,
CS,MASS
9.1 CORDS 71B
12. FIRESTONE 72B
FOX 74 AMP,ANG,
ANGP
VIGNAUD 76 ANG,CS,
MASS,PWA
7 CORDS 71B
GOLDHABER 65
*P KO PIO
5.5 EKLUND 75
8.2 VIGNAUD 75
9.0 CARMONY 77 CS,
MASS
CLOPP 72
*P KO OMEGA
9.0 CARMONY 7. CS,
MASS
P K(892)0 PIO
9.0 CARMONY 77 CS,
MASS
*P ALAMBDA ANYTHING
9.0 CARMONY 77 CS,
MASS
*K NUCLEON KAON PION
7 HIRATA 68
P K PIO PI-
2.2 BANERJEE 75C
2.4 BANERJEE 75C
2.7 BANERJEE 75C
*P KO PI+ PI-
2.2 BANERJEE 75C
2.4 BANERJEE 75C
2.7 BANERJEE 75C
8.2 DEJONGH 74B

K+ N ---> (CONT.)

*P K0 PI+ PI- (CONT.)
9.0 CARMONY 77 CS,
MASS
CLOPP 72
*P K$ PI+ PI-
8.2 HENDRICKX 76
*N K+ PI+ PI-
2.2 BANERJEE 75C
2.4 BANERJEE 75C
2.7 BANERJEE 75C
*P K+ PI+ 2PI-
9.0 CARMONY 77 CS,
MASS
*P K0 PI+ PIO PI-
9.0 CARMONY 77 CS,
MASS
*P K+ PI+ PIO 2PI-
9.0 CARMONY 77 CS,
MASS
*P K+ NUCLEON -->
*(NOT ENCODED)
7 CARTER 67 CS
K+ DEUT -->
*(NOT ENCODED)
1.-300 EINNHORN 74C
.41-1.1 CARROLL 73D
.60 CANTER 68
CHO 73B
DRALLE 71
.63-1.5 GIACOMELLI 73F
GIACOMELLI 72C
.81 MCRSE 72B
.84-.91 FISK 62
.84-1.5 GIACOMELLI 72E
.86-2.4 HIRATA 73
.98 RAY 69C
.98-2.0 BURROWES 59
.98-2.4 BURROWES 59
2.3 GOLDHABER 65 ANGP,
CS
GOLDHABER 65B
BLECHNER 72
4.6 TAVERNIER 73
9.5 PEASE 71
9.3 CARMONY 71B
CLOPP 72
GARFINKEL 71B
HOLLAND 72
12. FIRESTONE 72D
LISSAUER 71
7 CHO 71C
HILL 71C
*K-GT.?PRONG
8.2 DEJONGH 74B
*ANYTHING
.36-.72 BCWE 70
.40-1.0 CARROLL 73B
.41-1.1 MICHAEL 73
.43 DAMERELL 75
.53 DAMERELL 75
.57-1.2 DEMEK 73
.60 DAMERELL 75
.69 DAMERELL 75
.77 DAMERELL 75
.77-2.8 COOK 61
.85 DAMERELL 75
.92-2.4 COOL 66
.94 DAMERELL 75
1.5-3.3 ABRAMS 67
4.0-20. GALBRAITH 65
8.2 DEJONGH 74B
15.-60. GORIN 71D
20.-500 FNAL-104
23.-260 KOHLER 75
35. CARROLL 76E
52. CARROLL 76E
50.-200 CARROLL 76E
70. CARROLL 76E
103 CARROLL 76E
123 CARROLL 76E
150 CARROLL 76E
170 CARROLL 76E
200 CARROLL 76E
243 CARROLL 76E
300 CARROLL 76E
*INELASTIC
.43 DAMERELL 75
.53 DAMERELL 75
.60 DAMERELL 75
.69 DAMERELL 75
.77 DAMERELL 75
.85 DAMERELL 75

K+ DEUT --> (CONT.)

*INELASTIC (CONT.)
.94 DAMERELL 75
*PI+ ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
*PI- ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
*K+ DEUT
.34 TREVWETT 74
.47 TREVWETT 74 ANGP,
PWA
.60 SAKITT 74 ANGP,CS
SAKITT 75 ANP,
ANGP,CS
.60-2.6 BUGG 68
.64-1.5 GIACOMELLI 74B
.69 SAKITT 74
SAKITT 75 AMP,
ANGP,CS
.75 SAKITT 74
SAKITT 75 AMP,
ANGP,CS
.85 SAKITT 74
SAKITT 75 AMP,
ANGP,CS
1.0 SAKITT 75 AMP,
ANGP,CS
1.0-2.4 COOL 70
GIACOMELLI 66
1.0-3.3 ABRAMS 70B
2.5-6.0 BAKER 63B
3.0 DUFFUS 73
4.6 DEHM 75
8.2 BRANKIN 72
10. BAILLON 77 ANGP
15.-60. DENISOV 71 CS
25.-200 FNAL-398 ANGP
*K+ ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
*K0 ANYTHING
4.6 CHARRIERE 73B ANG,
ANGP,CS,DME
*GLOW(1240)+ DEUT
3.8 EISENSTEIN 70B
*K(1240-1400)+ DEUT
4.6 DUNWOODIE 75 ANG,
ANGP,CS,DME
5.0 GARFINKEL 71
HOLLAND 69
*P(SPECT) PRONG
8.2 DEJONGH 74B
*P ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
*AP ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
150 FNAL-118A ANGP
ALAMBDA ANYTHING
12. FIRESTONE 71C
*DEUT ANYTHING
25.-300 FNAL-396 ANGP,P
*2PRONG
8.2 DEJONGH 74B
*P(SPECT) K0 ANYTHING
3.9 DIEBOLD 74 MASS
4.0 DIEBOLD 74 MASS
6.0 DIEBOLD 74 MASS
*P(SPECT) K0
.43 DAMERELL 75
.53 DAMERELL 75
.60 DAMERELL 75
.69 DAMERELL 75
.72-1.5 BRESSI 73
.77 DAMERELL 75
.85 DAMERELL 75
.94 DAMERELL 75
4.0 PHELAN 75 ANGP,CS
6.0 PHELAN 75 ANGP,CS
8.2 DEJONGH 74B
P(SPECT) P K(892)0
.86-1.6 GIACOMELLI 76
3.0-5.0 CHARRIERE 73 ANGP,
CS,DME

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REACTION/MOMENTUM INDEX (CONT'D)

K+ DEUT --> (CONT.)

*(PSEC') N K+
.43 DAMERELL 75
.53 DAMERELL 75
.60 DAMERELL 75
.69 DAMERELL 75
.77 DAMERELL 75
.85 DAMERELL 75
.94 DAMERELL 75
*(PSEC') N K+(892)+
0.-1.5 GIACOMELLI 76
*N(SPECT) P K+
.43 DAMERELL 75
.53 DAMERELL 75
.60 DAMERELL 75
.69 DAMERELL 75
.65 DAMERELL 75
.77 DAMERELL 75
.85 DAMERELL 75
.94 DAMERELL 75
*N(SPECT) P K+(892)+
0.-1.5 GIACOMELLI 76
*N(SPECT) DEL++ K0
0.-1.5 GIACOMELLI 76
*2P K0
0.-.60 ROSENBLATT 74
.20-.80 SLATER 61
.23-.81 SLATER 61
.60 MILL 73
RAY 65 ANGP,POL
SAKITT 74 CS
.69 SAKITT 74
.76 SAKITT 74
.86-1.4 HIRATA 68
.85 SAKITT 74
2.2 BANERJEE 76 ANGP,
CS,MASS,P
2.3 BLITTERSWORTH 65
ANGP,
CS
2.4 BANERJEE 76
2.7 BANERJEE 76 ANGP,
CS,MASS,P
3.3 DUFOUR 73
GOLDSCHMIDT 68
4.6 DEHM 73
8.2 BRANKIN 72
*2P K0(89210
1.9 POSTER 73
2.0 POSTER 74 ANGP,
MASS,P
*2P ANYTHING
4.2 WHITE 72
*P N K+
.34 TREVWETT 74
.47 TREVWETT 74 ANGP,
PWB
.60 SAKITT 74 ANGP,CS
.69 SAKITT 74
.79 SAKITT 74
.86-1.4 HIRATA 68
.89 SAKITT 74
3.0 DUFOUR 73
4.6 DEHM 75
8.2 BRANKIN 72
*DEL0+ DEL- K0
13. HORNE 74
*DEU0 K0 PI+
.64-1.2 GIACOMELLI 76B
.86-1.4 HIRATA 68
2.3 BUTTERWORTH 65B
ANGP,
CS
3.0 BUCHNER 65
4.8 CHARRIERE 73B
ANGP,
CS,MASS
*DEUT K+(892)0 PI+
4.6 DUMMODDIE 75 ANG,
ANGP,CS,DME,
MASS
*P(SPECT) P K+ PI-
0.-1.5 GIACOMELLI 76
3.0-5.0 CHARRIERE 73 ANG,
MASS
4.6 DEHM 74 MASS
5.4 BOWLER 77
7.5 ERLUND 75
8.2 DEJONGH 74B
HENDRICKX 76
*P(SPECT) P K0 PIO
0.-1.5 GIACOMELLI 76
5.5 ERLUND 75
*P(SPECT) P K5 PIO
8.2 HENDRICKX 76
*P(SPECT) N K0 PI+
0.-1.5 GIACOMELLI 76
3.0-5.0 CHARRIERE 73 ANG,
CS,MASS

K+ DEUT --> (CONT.)

*(PSECT) N K5 PI+
8.2 HENDRICKX 76
*(PSECT) 3PRONG
8.2 DEJONGH 74B
*N(SPECT) P K0 PI+
0.-1.5 GIACOMELLI 76
*2P K+ PI-
.86-1.4 HIRATA 68
*P N K0 PI+
.86-1.4 HIRATA 68
*2NUCLEON KACN PION
.86-1.4 HIRATA 68
*DEUT K+ PI+ PI-
.64-1.5 GIACOPELLI 74B
2.3 BUTTERWORTH 65B
ANGP,
CS
3.0 BUCHNER 65
3.8 ROBINSON 71
4.6 DUNWOODIE 75 ANGP,
CS,MASS
8.2 BURLAUD 75
5.0 GARFINKEL 71
12. FIRESTONE 72
*4PRONG
8.2 DEJONGH 74B
*(PSECT) P PI+ PI- ANYTHING
3.0 DIEBOLD 74 MASS
4.0 DIEBOLD 74 MASS
6.0 DIEBOLD 74 MASS
*(PSECT) P K0 PI+ PI-
4.6 DEHM 74 MASS
8.2 DEJONGH 74B
*N(SPECT) P K+ PI+ PI-
4.6 DEHM 74C CS
*P N K+ PI+ PI-
13. HORNE 74
*2NUCLEON KACN 2PION
.86-1.4 HIRATA (B
*(PSECT) 5PRONG
8.2 DEJONGH 74B
*2P K+ PI+ 2PI-
4.6 DEHM 77 CS,MASS,P,
PT
7 DEHM 77 CS,MASS,P,
PT
*2P K0 PI+ PIO PI-
4.6 DEHM 77 CS,MASS,P,
PT
*P N K0 2PI+ PI-
4.6 DEHM 77 CS,MASS,P,
PT
*6PRONG
8.2 DEJONGH 74B
*2P K+ PI+ PIO 2PI-
4.6 DEHM 77 CS,MASS,P,
PT
*2P K0 2PI+ 2PI-
4.6 DEHM 77 CS,MASS,P,
PT
*P N K+ 2PI+ 2PI-
4.6 DEHM 77 CS,MASS,P,
PT
*K+ DEUT
+ P(SPECT) N K+ + N(SPECT)
P K+
.23-.53 STENGER 64
.43 DAMERELL 75
.53 DAMERELL 75
.60 DAMERELL 75
.69 DAMERELL 75
.77 DAMERELL 75
.85 DAMERELL 75
.86-1.4 HIRATA 68
.94 DAMERELL 75
*K+ HE --> P
*(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
*(NOT ENCODED)
7 GOBBI 69B
K+ E -->
*(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
10. BEMPORAD 73
13. BEMPORAD 73
16. BEMPORAD 73
7 BANNER 73

K+ C --> (CONT.)

*ANYTHING
1.3-2.3 ABRAMS 71B
*PI+ ANYTHING
.39 BENAZZOLA 74B P
*K+ C
2.0 GOBBI 72
*C K+ PI+ PI-
10. BEMPORAD 74 ANGP,
MASS
13. BEMPORAD 74 ANGP,
MASS
16. BEMPORAD 74 ANGP,
MASS
K+ HE -->
*(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
K+ AL -->
*AL K+ PI+ PI-
10. BEMPORAD 74 ANGP,
MASS
13. BEMPORAD 74 ANGP,
MASS
16. BEMPORAD 74 ANGP,
MASS
K+ TI -->
*TI K+ PI+ PI-
10. BEMPORAD 74 ANGP,
MASS
13. BEMPORAD 74 ANGP,
MASS
16. BEMPORAD 74 ANGP,
MASS
K+ CU -->
*(NOT ENCODED)
7 LITTENBERG 69
*ANYTHING
1.0-3.0 ABRAMS 71B
*J/PSI(3100) ANYTHING
.39. CORDEN 77
*MU- MU+ ANYTHING
39. CORDEN 77
K+ AG -->
*AG K+ PI+ PI-
10. BEMPORAD 74 ANGP,
MASS
13. BEMPORAD 74 ANGP,
MASS
16. BEMPORAD 74 ANGP,
MASS
K+ PT -->
*K0 ANYTHING
2.9 FACKLER 73
3.0 SMOOT 75
K+ PB -->
*(NOT ENCODED)
10. BEMPORAD 73
13. BEMPORAD 73
16. BEMPORAD 73
*PB K+ PI+ PI-
10. BEMPORAD 74 ANGP,
MASS
13. BEMPORAD 74 ANGP,
MASS
16. BEMPORAD 74 ANGP,
MASS
K+ U -->
*(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
K+ NUCLEUS -->
*(NOT ENCODED)
.27 SCOV 71
.70 MORFIN 69
MAGY 72
.77-.95 FIORINI 68
.82 MORFIN 73B
.85 BALDOCCHOLIN 75
BOBISUT 74
LING 71

K+ NUCLEUS --> (CONT.)

*(NOT ENCODED) (CONT.)
.91 HIRSCH 64
KEHOE 63
6.0-18. CRCNENBERGER 70
8.0 BOZOKI 66
10. BEMPORAD 73
CONCEPCION 77
MAATUFT 72
13. BEMPORAD 73
16. BEMPORAD 73
*(PRONG) CERN-NA-001 FV
100 FNAL-178 MULT
200 FNAL-178 MULT
*INELASTIC
6.0-60. DENISOV 73
*MU- ANYTHING
7 BNL-.34 P
FNAL-379
*MU+ ANYTHING
7 BNL-694 P
FNAL-379
*J/PSI(3100)0 ANYTHING
7 BNL-694 P
*K+(892)+ NUCLEUS
10. FREUDENREICH 73
CS
13. FREUDENREICH 73
CS
16. FREUDENREICH 73
CS
*QI(1240-1400)+ NUCLEUS
10. HAGUENAUER 71
*ANYTHING HADRONS
FNAL-379
*ZGAMMA ANYTHING
7 BNL-694 MASS
*MU- MU+ ANYTHING
7 FNAL-379
*K+ PI- ANYTHING
7 BNL-694 MASS
*K- PI+ ANYTHING
7 BNL-694 MASS
*NUCLEUS K+ PI+ PI-
10. BLIND 73 ANGP,
MASS
BLIND 74 ANGP,
MASS,P
K+ UNSPEC -->
*(NOT ENCODED)
7 LACH 76
K0 AK0 -->
*AK0 K0
0.-3.1 AGUILLARBENIT 77B
K0 P -->
*(NOT ENCODED)
0.-.60 MEISNER 71 CS
1.0-10. LODS 72
7 LEITH 72C
*K0 N
.60-1.5 ARMITAGE 77
*K+ DELO
.60-5.0 STUMER 74
*K+(89210 P
.80-5.0 STUMER 74
*P K+ PI-
.60-5.0 STUMER 74
K0 DEUT -->
*ANYTHING
20.-50. ALBRECHT 74C ANP,
CS
K0 FE -->
*ANYTHING
25. BOLOTOV 74D CS
35. BOLOTOV 74D CS
K0 CU -->
*(NOT ENCODED)
.50-1.5 ROTH 72
K0 PB -->
*K+(89210 PB
10.-16. CARITH-ERS 75 ANGP

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KS P -->

>ANYTHING
4.0-50. CHAPMAN 76 MULT
>K S P
1.0-9.0 ANDERSON 75C ANGP, CS
KS DEUT -->

>NOT ENCODED)
0.-.60 CANTER 68
KS CU -->

>NOT ENCODED)
.80-3.0 BALATS 72
1.9 BALATS 71
KL E- -->

>E- KS
2.5-8.5 FOETH 69
? FNAL-226 ANGP,CS
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>NOT ENCODED)
0.-.50 KIM 67
0.-.28 MARTIN 73B
0.-4.5 FESESSE 73
.17-.34 SAYER 68B
.30-7.5 BLUMENFELD 69
.31-1.2 PLANE 73
.70-1.4 CHRISTENSEN 65
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.17-.34 SAYER 68
>PI+ LAMBDA
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.20-.65 LUERS 61
.30 KADYK 66 ANGP
.30-.80 BERTANZA 76 ANGP, CS
.44-.60 ENGLER 76C
.44-.82 CAMERON 77B
.55 CHO 75B ANGP,CS, POL
.59 HAWKINS 67
1.0-7.5 BRANDENBURG 73D
>PIO SIGMA+
0.-.60 MEISNER 71 CS
1.0-7.5 BRANDENBURG 73C
>K+ N
0.-.60 MEISNER 71 CS
.55-1.0 EDELSTEIN 76 ANGP, CS
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>K5 P
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.44-.82 CAMERON 77B
.55 CHO 75B ANGP,CS
.59 HAWKINS 67
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>KS P (CONT.)
3.0-8.0 BARRILLAT 70
3.0-10. BUCHANAN 71
3.5-10. FREYTAG 75
RIPPICH 75
4.0-16. CARITHERS 73D ANGP
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14.-42. BIRULEV 72
JINR 72C
15. JINR 72
35. JINR 72
>40. FNAL-082 ANP
? BIRULEV 72B
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>KL P
1.0-7.5 BRANDENBURG 73D
>K+(89210 P
? DORFAN 76
>(I)240-140)0 P
4.0-12. BRANDENBURG 72B
>AQI)240-140)0 P
4.0-12. BRANDENBURG 72B
>P PI+ PI-
10.-50. BIRULEV 76C MASS
>P K+ PI-
.80-3.0 ALEXANDER 73C
>P K- PI+
.80-3.0 ALEXANDER 73C
>LAMBDA PI+ PIO
0.-.60 MEISNER 71 CS
.30-.80 BERTANZA 76 CS, MASS
.44-.82 CAMERON 77B
.59 HAWKINS 67
>SIGMA+ PI+ PI-
0.-.60 MEISNER 71 CS
>SIGMA0 PI+ PIO
.30-.80 BERTANZA 76 CS
>SIGMA- 2PI+
.59 HAWKINS 67
KL NUCLEON -->

>ANYTHING
4.0-10. DYDAK 76B CS
>KS NUCLEON
14.-50. BIRULEV 72E
KL DEUT -->

>(NCT ENCODED)
0.-.60 CANTER 68
.34-1.2 PLANE 73
>ANYTHING
.13-.55 CLELAND 75
>KS DEUT
3.5-10. RIPPICH 75
10.-50. ALBRECHT 74B ANGP, MASS
HLADKY 76 AMP, ANGP
20.-50. ALBRECHT 74C CS
? BERLINGUDAPE 74C LEDMIS 73
KL BOR -->

>(NCT ENCODED)
2.2-4.0 ANDERSON 73
KL C -->

>(NCT ENCODED)
>12 ALEKSANYAN 70
2.2-4.0 ARONSON 70
9.0 LAKIN 70
>KS C
4.5-9.5 CARITHERS 75C
7.2 PUN 74 AMP
7.5 CARITHERS 75E
STICKER 74
10.-50. HLADKY 76 AMP
16.-40. LOBRECHT 75C
BERLINGUDAPE 74C
BIRULEV 73
>40. FNAL-082 APP
? ROEHRIG 77
>K+(89210 C CARITHERS 75B ANG, ANGP

KL FL -->

>(NOT ENCODED)
>12 ALEKSANTAN 73
KL AL -->

>(NOT ENCODED)
9.0 LAKIN 70
>ANYTHING
30.-150 FNAL-486 CS
>KS AL
30.-150 FNAL-486 CS
>K+(89210 AL
8.0-16. CARITHERS 75B ANG, ANGP
KL CL -->

>(NOT ENCODED)
>12 ALEKSANYAN 73
KL CU -->

>(NOT ENCODED)
>12 ALEKSANYAN 73
9.0 BALATS 71
2.0 CHOLLET 72
2.2-4.0 ARGNSON 70
2.5 BENNETT 69
9.0 LAKIN 70
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? CHOLLET 69
>ANYTHING
4.0-10. DYDAK 76B CS
30.-150 FNAL-486 CS
>J/PSI(3133)0 ANYTHING
2.3-16. FAESSLER 77 CS
>KS CU
.80-1.4 BIRNBAUM 74 AMP, CS
2.5 BENNETT 72
30.-150 FNAL-486 CS
>K5 ANYTHING
2.0-6.3 FAISSNER 69
2.5-5.5 FOETH 70
4.0-10. DYDAK 76B AMP, CS
>K+(89210 CU
8.0-16. CARITHERS 75B ANG, ANGP
>PU- MU+ ANYTHING
2.0-16. FAESSLER 77 CS, MASS, P, PT
8.0-23. SLAC-E-115 MASS
>PI+ PI- ANYTHING
2.0-6.3 FAISSNER 69
KL CD -->

>K+(89210 CD
8.0-16. CARITHERS 75B ANG, ANGP
KL SN -->

>ANYTHING
30.-150 FNAL-486 CS
>KS SN
30.-150 FNAL-486 CS
KL PB -->

>(NOT ENCODED)
1.4-7.4 BRANDENBURG 73C
9.0 LAKIN 70
>ANYTHING
30.-150 FNAL-486 CS
>KS PB
30.-150 FNAL-486 CS
>KS ANYTHING
2.0-7.5 FOETH 73
? FOETH 70B
>K+(89210 PB
8.0-16. CARITHERS 75B ANG, ANGP
>PB K- PI+
10.-16. CARITHERS 75 MASS
KL U -->

>ANYTHING
4.0-10. DYDAK 76B CS
>KS ANYTHING
4.0-10. DYDAK 76B AMP, CS
>K+(89210 U
8.0-16. CARITHERS 75B ANG, ANGP

KL NUCLEUS -->

>ANYTHING
? FNAL-22E ANGP, CS
>KS NUCLEUS
20. AZNARYAN 71
? FNAL-22E ANGP, CS
>KL NUCLEUS
? FNAL-22E ANGP, CS
>KL ANYTHING
? VOTRUBA 76 CS
ARO P -->

>(NOT ENCODED)
0.-.60 MEISNER 71 CS
.40-1.2 KORKEAAHC 73B
1.0-1.2 MEISNER 72
? LEITH 72C
>PI+ LAMBDA
.33-2.2 BURKHARDT 75B
1.0-12. YAMARTINO 74 ANGP, CS,POL
YAMARTINO 74B ANG, ANGP,CS,MASS, P
>2.2 BAPLOUTAUC 71
>PI+ LAM(1520)00)
.80-5.0 STUMER 74
>PI+ SIGMA0
.33-2.2 BURKHARDT 75B
1.0-12. YAMAFTINO 74 ANGP, CS,POL
YAMARTINO 74B ANG, ANGP,CS,MASS, P
>K- DEL++
.80-5.0 STUMER 74
>AK+(89210 P
.80-5.0 STUMER 74
>P K- PI+
.80-5.0 STUMER 74
ARO N -->

>(NOT ENCODED)
.40-1.2 KORKEAAHC 73B
ARO NUCLEON -->

>(NOT ENCODED)
0.-1.2 KIM 71B
0.-1.2 KIM 70
.34-1.2 PERRICUZZI 71
.44-1.2 LANGBEIN 72
? CHAO 73C
MARTIN 76H PWA
ARO DEUT -->

>ANYTHING
20.-50. ALBRECHT 74C AMP, CS
K- E- -->

>E- K-
100 FNAL-21E ANGP
200 FNAL-21E ANGF
FNAL-44E ANGP
250 FNAL-45E ANGF
K- PION -->

>(NOT ENCODED)
? YUTA 71
K- PI+ -->

>PI+ K-
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? ESTABROOKS 77 PWA
WAGNER 74 PWA
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? LINGLIN 73B
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14. BARDACIACTMI 73

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-PI- ETA
K- KO
K- P --
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1.3-8.5 VOORTHUIS 76		
*ANYTHING - PI- K-		
1.3-8.5 VOORTHUIS 76		
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K- KO -->		

-PI- ETA		
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*K- KO		
0.-.33 FLATTE 76		
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*KN(1+1)		
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*MEHADRON)		
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*STRANGE		
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*CHARGED		
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*.GT.11PRONG		
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*NIPRONG)		
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10.-70. WAKAIZUMI 75B CS
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15.-60. DENISOV 73B CS
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23.-280 KOHLER 75
32. AKOPCZHANOV 74 CS,
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CARROLL 76E CS
50.-200 CARROLL 76E CS
>53. JACOB 74F
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CARROLL 76E CS
100 AYRES 76C CS
CARROLL 76E CS
120 CARROLL 76E CS
140 AYRES 76C CS
147 FONG 76C CS
150 CARROLL 76E CS
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170 CARROLL 76E CS
175 AYRES 76C CS
200 CARROLL 76E CS
240 CARROLL 76E CS
*INELASTIC
8.2 BAKER 74D CS
16. BAKER 74D CS
32. FRANCESOVIET 74C
CS
*DD < ANYTHING >
7 MUKHIN 74 MASS
*GAMMA HADRONS
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*PI+ SIGI1670013)-
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DME
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1.9 DAUBER 66B

K- P --> (CONT.)

*PI+ SIGI1765013)- (CONT.)
2.0 DAUBER 66B
*PI+ NEPRONG)
14. LOUEDEC 76
*PI+ ANYTHING
1.9-2.5 DEBELLEFON 73
3.7-400 WHITMORE 75C
4.0 BEIER 76D CS
4.3-23. BEIER 74 CS
4.2 BLOKZIJL 77 CS,P,
PT
VANAPELDOORN 74B
5.1 ANL-E-379 MASS
6.0 BEIER 76D CS
8.0 BEIER 76D CS
10. BEIER 76D CS
BEIER 76D CS
BOSETTI 73D P,PT
12. BEIER 76D CS
13. JOHNSON 73
14. BARLOUTAUD 75C
BORG 75
BORG 75
LOUEDEC 76
15. BEIER 76D CS
16. BOSETTI 73D P,PT
20. BEIER 76D CS
24. BEIER 76D CS
32. BARLOUTAUD 75 CS,
P,PT
CCCHET 77 P
40. FNAL-324 ANGP
80. FNAL-324 ANGP
150 BEIER 76D CS
160 FNAL-324 ANGP
290 BEIER 76D CS
? FNAL-236A ANGP
WHITMORE 75B
*PI0 LAMBDA
0.-.58 RHEL-117
.10-.25 MARTIN 77B
.24-.45 MAST 74 ANGP,CS,
PDL
.28-1.8 GOPAL 76
.29-.51 FERPOLUZZI 62
WATSON 63
.42-1.9 KANE 71
.40-2.5 DEBELLEFON 75C
.44-.80 ARMENTEROS 70B
.44-2.0 VANHORN 72B
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.54-.91 LONDON 75B
.56-.91 COLAS 73
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.62-.85 BASTIEN 63
.68-.93 BAXTER 73B
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.78-1.2 ARMENTEROS 68
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.86-1.0 JONES 74D
.96-1.4 CENFOPIO 75
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1.1-1.4 GRISELIN 73B
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3.3 MASON 73
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3.5 MAQUE 66
3.6 MASON 73
3.9 SEP 70
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4.2 BLOKZIJL 77 CS,P
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KLUYVER 77 AMP,
ANGP
MARZANO 77 ANG,
ANGP,CS,MASS,
PCL

K- P --> (CONT.)

*PI0 LAMBDA (CONT.)
5.0 GALLIVAN 76 ANGP,
CS,PDL
6.0 CERN-S-140 ANGP
6.5 ANL-E-289-292
8.0 GALLIVAN 76 ANGP,
CS,PDL
14. CHAUDAND 76
CHAUDAND 76B ANGP,
CS
LOUEDEC 76
? BARLOUTAUD 69
MUSGRAVE 71B
SEP 71
*PI0 LAM(1405501)
1.2 ALSTEN 62B
1.3-1.8 BERTHON 74B
1.5 ALSTEN 62B
1.8 DAUBER 66B
1.9 DAUBER 66B
2.0 DAUBER 66B
2.2 LONDON 66
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3.5 HAQUE 66
*PI0 LAM(1520003)
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1.3 FICENEC 68
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1.5 ALSTEN 62B
1.8 DAUBER 66B
1.9 DAUBER 66B
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2.2 LONDON 66
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2.6 FICENEC 68
2.7 FICENEC 68B
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*PI0 LAM(1615053)
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1.4-1.8 LITCHFIELD 73
*PI0 SIGMA0
0.-.58 RHEL-117
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.24-.45 MAST 74 ANGP,CS,
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.30-.80 GOPAL 76
.44-.80 ARMENTEROS 70B
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*PI0 SIGI1385P13)0
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1.5 ALSTEN 62B
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ANGP
*PI0 SIGI1670D13)0
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1.9 DAUBER 66B
2.0 DAUBER 66B
*PI0 SIGI1670B)0
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*PI0 SIGI1765015)0
1.3 FICENEC 68
*PI0 NEPRONGI
14. LOUEDEC 76
*PI0 ANYTHING
1.2 BARTKE 74 MULT,P
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.50-1.1 BNL-691
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.78-1.2 ARMENTEROS 68
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.87-1.1 KANE 71B
.96-1.4 CONFORTO 75
1.0-2.0 BERTHON 70C
1.1 GRAZIANO 62
1.1-1.4 GRISELIN 75B
1.2-1.7 KANE 71
1.3 TROWER 66
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1.3-1.8 BERTHON 70
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DEGROOT 75B
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5.1 HOFFMAN 75B ANGP
5.5 LCCS 68
6.5 ANL-E-289-292
6.7 SLAC-BC-060 ANGP,
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4.2 HEMINGWAY 75B
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PI- SIGI1690B)
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1.9 DAUBER 66B
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2.5 APSELL 74
PI- SIGIUNSPEC)
7.0-9.0 SLAC-BC-061 ANGP,
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*PI- *PLUNSPEC)*
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*PI- NIPRCNG)
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3.7-4.0G WHITMORE 75C
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4.0-20. BEIER 74 CS
4.2 BLOKZIJL 77 CS,P,
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BEIER 76D CS
BEIER 76D CS
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12. BEIER 76D CS
13. JOHNSEN 73
14. BARLOUTAUD 72C
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LOUEDEC 76
15. BEIER 76D CS
16. BOSETTI 73D P,PT
20. BEIER 76D CS
24. BEIER 76D CS
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80. FNAL-324 ANGP
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250 BEIER 76D CS
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BARTKE 76E CS
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1.9 DAUBER 66B
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*ETA SIGMA0
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.93 BAXTER 73B
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1.9 DAUBER 66B
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5.5 MOTT 69
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4.2 EISNER 72
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3.9 MOSCCSO 72B
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4.2 DEGROOT 74
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*RHO- SIGI1690B)+
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3.3 COOPER 73 AMP,
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1.8 DAUBER 64B
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CERRADA 77B CS,
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*PHI SIG(NNSPEC)0
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*PHI Y0(1NSPEC)0
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6.0 BEIER 76D CS
8.0 BEIER 76D CS
10. BEIER 76D CS
12. BEIER 76D CS
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20. BEIER 76D CS
24. BEIER 76D CS
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80. FNAL-32A ANGP
150 BEIER 76D CS
180 FNAL-32A ANGP
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CAMPBELL 73
CARNEGIE 75
CARNEGIE 75B
CARNEGIE 75C ANGP
CERN-S-144 AMP,
ANGP
OLIVIER 71 AMP
PETERSON 70
10.-14. BGRGHINI 71D PCL
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12.-16. FOLEY 65
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CARNEGIE 75 AMP,
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20.-60. DENISOV 71B CS
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32. COCHET 77
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PCL
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GAIDOT 75 CS,PCL
GAIDOT 75B
KAZARINOV 76 ANGP,
CS
PIERRARD 75 AMP,
PCL
50. AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANDERSON 76C ANGP,
CS
*K- NEPRONG
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AYRES 76C ANGP,
ANGP,CS
75. CERN-WA-009 AMP,
ANGP
80. CERN-WA-007 ANGP
FNAL-007 ANGP
100 AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANDERSON 76C ANGP,
CS
ANKENBRANDT 75
AMP,
ANGP
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-WA-009 AMP,
ANGP
MEYER 74 ANGP
FNAL-007 ANGP
125 ANKENBRANDT 75
AMP,
ANGP
ANDERSON 76C ANGP,
CS
140 ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-WA-009 AMP,
ANGP
147 FCAG 76C CS
150 ANKENBRANDT 75
AMP,
ANGP
170 FNAL-007 ANGP
175 ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
200 AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
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2.7 FICENEC 68B
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1.9 CAUBER 66B
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VANAPELDOORN 74B
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CARNEGIE 75D
SLAC-E-106 ANGP
14. CARNEGIE 75D ANGP,
MASS
LOUEDEC 76
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40. FNAL-324 ANGP
50.-175 ANDERSON 76F P
ANDERSON 76P CS,P
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14. DENEGRI 76
16. OTTER 74 ANG,MASS,
P
*K- 00 < N PI+ >
14. DENEGRI 76
DENEGRI 77
PONS 76
*K- 00 < P ETA >
14. DENEGRI 77
14. DENEGRI 77
*K- 00 < P ETAPRIME >
14. DENEGRI 77
*K- 00 < OE ** PI- >
14. DENEGRI 77
PONS 76
16. OTTER 74 CS
*K- 00 < P OMEGA >
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WOHL 77
*K- 00 < LAM(1520)(31) P+ >
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WOHL 77
*K- 00 < P PI0 >
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*K- 00 < LAMBDA K+ >
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DENEGRI 77
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8.0 BEIER 76C CS
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BEIER 76C CS
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? TOVEY 74
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16. BOSETTI 73D P,PT
20. BEIER 76C CS
24. BEIER 76C CS
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40. ANTIPOV 73M ANGP,
MASS,P
FNAL-324 ANGP
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150 BEIER 76C CS
160 FNAL-324 ANGP
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14. DENEGRI 77
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WOHL 77
*P DD < K- OMEGA >
14. DENEGRI 77
WOHL 77
*P DD < AP LAMBDA >
14. DENEGRI 77
WOHL 77
P DD < AK(1420)0 PI- >
14. DENEGRI 77
DENEGRI 77E
PONS 76
P DD < AK(892)0 RHO- >
14. DENEGRI 77
*N NIPRONG)
14. LOUEDEC 76
*N ANYTHING)
4.2 BLOKZIJL 77 CS
14. LOUEDEC 76
32. CCCHET 77
*AP ANYTHING
40. FNAL-324 ANGP
80. FNAL-324 ANGP
160 FNAL-324 ANGP
7 FNAL-236A ANGP
*DEL++ ANYTHING
4.1-4.2 VOORTHUIS 76
10. BOSETTI 76 CS,
PASS
CHOUDHURY 76E CS,
P,PT
14. BARDADINOTWI 75C
BORG 75B
LOUEDEC 76
16. BARTKE 77
BOSETTI 76 CS,
PASS
CHOUDHURY 76E CS,
P,PT
32. GENSCH 77
*DEL0 ANYTHING
14. BARDADINOTWI 75C
BORG 75B
LOUEDEC 76
*LAMBDA OPRONG
.86-1.0 JONES 74D
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*LAMBDA NIPRONG)
4.2 BLOKZIJL 75
14. LOUEDEC 76
*LAMBDA MASS=2.2
6.5 ANL-E-289-252
*LAMBDA NEUTRALS
.24-.45 MAST 74 CS,MASS
.86-1.0 JONES 74D
1.1-1.4 GRISELIN 75B
1.9-2.5 DEBELLEFON 77B
2.2 DANBURG 73
*LAMBDA NEUTRAL(S)
.54-.91 LONDON 75B
.86-1.0 JONES 74E
4.2 BLOKZIJL 77 ANGP,
CS,MASS,P,PT
14. CHAURAND 76B ANGP,
MASS
*LAMBDA ANYTHING
0. KATZ 73
.50-1.0 HALPERN 74
3.6 CHARLTON 70
3.9 BORG 74
4.2 BLOKZIJL 75
BLOKZIJL 76 CS,
PASS,P,PT
BLOKZIJL 77 CS,P,
PI

K- P --> (CONT.)

*LAMBDA ANYTHING (CONT.)
DEGROOT 75B
DEUTSCHMANN 72B
GANGULI 76B CS,P,
PT
GANGULI 77 CS,P,
PT
NILSSON 74
VANAPELDOORN 74B
GHUNG 75 CS,P,POL
8.2 MUIRHEAD 75
SINGOVOGAU 75
10. BOSETTI 73D P,PT
DEUTSCHMANN 72B
DEUTSCHMANN 74D P,
PT
DEUTSCHMANN 77D P,
PT
HAUPTMAN 74 ANGP,
CS,POL
JOHNSON 73
ABRAMOWICZ 75
BORG 74
LOUEDEC 76
PALER 73
PALER 74
BOSETTI 73D P,PT
DEUTSCHMANN 74D P,
PT
ARESTOV 76 CS,P,
PT
BARLOUTAUD 76 CS,
P
BEILLIERE 75 CS,P
COCHET 75
COCHET 77
7 PALER 73
STROYNOWSKI 75
*LAMBDA NEPRONG)
14. LOUEDEC 76
*LAMBDA ANYTHING
32. BEILLIERE 75 CS
*LAMBDA) ANYTHING
14. LOUEDEC 76
7 BARDACINOTWI 75
ANG,
CS,DME,P
*LAMBDA(1520)0 ANYTHING
14. LOUEDEC 76
7 BARDADINOTWI 75
ANG,
CS,DME,P
*SIGMA+ PRONG
14. BARDACINOTWI 74
*SIGMA+ NIPRONG)
14. LOUEDEC 76
*SIGMA+ ANYTHING
4.2 BLOKZIJL 76 ANGP,
CS,MASS,P,PT
BLOKZIJL 77 CS,
MASS,P,PT
14. BARDADINOTWI 74
LOUEDEC 76
7 STROYNOWSKI 75
*SIGMA0 NIPRONG)
14. LOUEDEC 76
*SIGMA0 ANYTHING
14. BARDADINOTWI 74
LOUEDEC 76
32. COCHET 77
*SIGMA- NIPRONG)
14. LOUEDEC 76
*SIGMA- ANYTHING
14. BARDACINGTWI 74
LOUEDEC 76
*SIGMA ANYTHING
7 BARNES 69
*SIG(1385P13)+ ANYTHING
4.2 BARREIRO 76C CS,
ONE,MASS,P,PT
10. GRASSLER 76C CS,P,
PT
14. LOUEDEC 76
16. GRASSLER 76C CS,P,
PT
32. COCHET 75
GENSCH 77
7 BARDACINOTWI 75
*SIG(1385P13)0 ANYTHING
7 DEBPIEN 73

K- P --> (CONT.)

*SIG(1385P13)- ANYTHING
4.2 BARREIRO 76C CS,
ONE,MASS,P,PT
10. GRASSLER 76C CS,P,
PT
14. LOUEDEC 76
16. GRASSLER 76C CS,P,
PT
32. COCHET 75
GENSCH 77
7 BARDADINOTWI 75
*XI- PRONG
6.5 MGARIS 75B
*XI- NIPRONG)
14. LOUEDEC 76
*XI- ANYTHING
4.2 GANGULI 76B ANP,
CS,MASS,MULT,
P,POL,PT
13. JOHNSON 73
14. GAGO 75
GAGO 76B
LOUEDEC 76
7 STROYNOWSKI 75
*XI0 NIPRONG)
14. LOUEDEC 76
*XI0 ANYTHING
14. LOUEDEC 76
*XI(1533P13)0 ANYTHING
4.2 GANGULI 76B CS,P,
PT
*XI(1533P13)- ANYTHING
14. LOUEDEC 76
*XI(1760)- ANYTHING
14. GAGO 76B
XI(UNSPEC) ANYTHING
2.9 BRIEFEL 77
*OMEGA- NIPRONG)
14. LOUEDEC 76
*OMEGA- ANYTHING
14. GAGO 76B
LOUEDEC 76
7 KOCHER 74
*2PRONG
14. BARDADINOTWI 75B
LOUEDEC 76
32. AKDOPJHANOV 74 CS
BEILLIERE 75 CS
FRANCESOVIEY 74C
147 FONG 76C CS
*N(PRONG) CHARGEC
14. LOUEDEC 76
*HEDRALE(S)PRONG)
14. LOUEDEC 76
DD < N PI+ > DD < AK(892)0
PI- >
14. DENEGRI 75B
*DD < P PI+ PI- > DD < K-
PI+ PI- >
14. 77 DENEGRI 74
*2GAMMA ANYTHING
14. BERG 75
PIERRE 74
*GAMMA 2PRONG
14. PIERRE 74
32. BEILLIERE 75B CS
*MU- MU+ ANYTHING
150 FNAL-331 ANGP,P
*PI+ PI- NEUTRALS
.86-1.0 JONES 74D
*PI+ PI- ANYTHING
1.5-2.5 DEBELLEFON 75
3.2 BADINTSEV 75
*2PI0 ANYTHING
32. BEILLIERE 75B
MULT,
P
*PI0 CHARGED ANYTHING
32. BEILLIERE 75B
MULT,
P
*2PI- ANYTHING
14. BABINTSEV 75
*KO PI+ ANYTHING
32. BABINTSEV 75
*KO PI- ANYTHING
32. BABINTSEV 75
*2KO ANYTHING
32. COCHET 77
*KS PI+ ANYTHING
32. BARLOUTAUD 75
MASS

K- P --> (CONT.)

*KS PI- ANYTHING
32. BARLOUTAUD 75
MASS
BARLOUTAUD 76
MASS
*KS 2PRONG
3.9 BORG 74
14. BORG 74
*AKO PI+ ANYTHING
4.2 VANAPELDOORN 74B
*AKO PI- ANYTHING
4.2 VANAPELDOORN 74B
10. KIRK 76B CS,MASS
16. KIRK 76B CS,MASS
7 STEVANOWSKI 75
*K- PI+ ANYTHING
7.3 EISNER 77 MASS
10. KIRK 76B CS,MASS
16. KIRK 76B CS,MASS
*K- PI- ANYTHING
4.1-4.2 VOORTHUIS 76
*P PI+ ANYTHING
4.1-4.2 VOERTHUIS 76
14. BARDADINOTWI 73
BORG 75B
32. GENSCH 77
*P PI- ANYTHING
1.9-2.5 DEBELLEFON 75
14. BORG 75
25. ANTIPOV 73L MASS
40. ANTIPOV 73L MASS
*P KS PI-
10. BALDI 77B ANGP,
MASS
CERN-S-131 FV
20. CERN-WA-010 FV
30. CERN-WA-003 FV
40. CERN-WA-010 FV
55. CERN-WA-003 FV
80. CERN-WA-003 FV
CERN-WA-010 FV
*P AKO PI-
.68-.84 HEPP 76B CS
.86-1.0 JONES 74D
1.1 MSKRILL 73
1.1-1.4 GRISELIN 75B
1.3-1.8 BERTON 74P
2.9 APSELL 74
BRENNER 73
KHOURY 72
3.3 SCHREINER 70B
SCHREINER 71P
4.2 HEMINGWAY 75B
MASS
RANFT 74P
TIECKE 74
TIMMERMANS 76 CS
VANAPELDOORN 74B
.84-.94 ANL-E-285-262
6.5 ZEVGOLATAKOS 73
9.2 GRASSLER 77
10. POLLOCK 76 ANGP,
CS,MASS
14. CHAUFARD 76B CS,MASS
LOUEDEC 76
SPIRO 77
16. DEUTSCHMANN 74B
CS,
MASS
GRASSLER 77 MASS
POLLOCK 76 CS
25. ANTIPOV 73L MASS
40. ANTIPOV 73L MASS
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
*P AKO KHO-
10. OTTER 75B CS,DME
16. OTTER 75B CS,DME
*P K- PIONISI
10. BUSCHBECK 74
16. BUSCHBECK 74
*P K- PI0
.63 BARLETTA 72
.86-1.3 CARON 77
1.1 MERRILL 73
1.1-1.4 GRISELIN 75B
1.3-1.8 BERTHON 74B
LITCHFIELD 73B
LITCHFIELD 73C
LITCHFIELD 73
1.4-1.8 LITCHFIELD 73
1.5-2.5 DEBELLEFON 75
4.2 TIECKE 74
10. GRASSLER 77
POLLOCK 76 ANGP,
CS,MASS

REACTION/MOMENTUM INDEX (CONT'D)

K- P --> (CONT.)

*P K- PIO (CONT.)
14. LOUEDEC 76
SPIRO 77
16. DEUTSCHMANN 74B CS,
MASS
GRASSLER 77 MASS
POLLOCK 76 CS
25. ANTIPOV 73L MASS
40. ANTIPOV 73L MASS
*P K- ETA
10. BARTKE 76E CS
18. BARTKE 76E CS
*P K- RHOO
10. OTTER 75B CS,DME
16. OTTER 75B CS,DME
*P K- CMEGA
7.3 CHUNG 74B ANG,
MASS
8.2 THECCHARDPOU 74
10. BARTKE 76E CS
CHUNG 74 CS,MASS
OTTER 74D ANGP,CS,
DME,PWA
14. WOHL 77
16. BARTKE 76E CS
CHING 74 CS,MASS
OTTER 74D ANGP,CS,
DME,PWA
*P K- PHI
14. WOHL 77
*P K- NEUTRALS
1.9-2.5 DEBELLEFON 77B
*P K- ANYTHING
25. ANTIPOV 73L MASS
40. ANTIPOV 73L MASS
P AK(8921O PI-
5.5 PARK 68
7.3 CHUNG 69
8.2 STERGIOU 74B
VASSILIADIS 75
10. GRASSLER 74C ANGP,
CS,DME,MASS
OTTER 75B CS,DME
13. CARNEGIE 76 ANGP,
MASS,PWA
14. PONS 76
16. OTTER 75B CS,DME
P K(892)- PIO
10. GRASSLER 74C ANGP,
CS,DME,MASS
OTTER 75B CS,DME
16. OTTER 75B CS,DME
P K(892)- OMEGA
14. WOHL 77
P K(8921- PHI
14. WOHL 77
*P AKAPPA(25010 PI-
10. OTTER 75B CS
16. OTTER 75B CS
*P KAPPA(1250)- PIO
10. OTTER 75B CS
16. OTTER 75B CS
*P AO(1240-2420)Z PI-
4.2 MADHAUGHAN 74B
P AK(1420)O PI-
40. ANTIPOV 74B MASS,
PWA
*P N ANYTHING
32. COCHET 77
*P AP LAMBDA
10. CERN-S-131 FM
14. LOUEDEC 76
WOHL 77
18. CERN-WA-008 FM
32. CERN-WA-008 FM
*P AP LAM(1520003)
14. WOHL 77
*N AKO PIO
4.2 TIECKE 74
*N AKO RHOO
4.2 VERGEEST 76 PWA
*N K- PI+
1.1-1.4 GRISELIN 75B
1.3-1.8 BERTHON 74B
2.0 CHU 72
FOX 74 AMP,ANG,
ANGP
BENKHEIRI 71 ANGP,
WICKLUND 77 AMP,
CS,MASS
3.0 FOX 74
ACCUBBIN 74 CS,
MASS
4.0 WICKLUND 77 ANGP,
CS,MASS

K- P --> (CONT.)

*N K- PI+ (CONT.)
4.2 TIECKE 74 ANGP,
6.0 WICKLUND 77 CS,MASS
10. BARTSCH TOF
DEUTSCHMANN 76 MASS
GRASSLER 77 CS,MASS
LAUSCHER 74 CS,
MASS,PWA
POLLOCK 76 ANGP,
CS,MASS
SOTIRIOU 74 CS,
MASS,PWA
13. BRANDENBURG 75B PWA
BRANDENBURG 75C ANG,
MASS
CARNEGIE 74 MASS
ESTABROOKS 77 FM
ESTABROOKS 77B
16. DENEGRI 75B
DENEGRI 76
LOUEDEC 76
PONS 76
SPIRO 77
16. DEUTSCHMANN 74B CS,
MASS
DEUTSCHMANN 76 MASS
GRASSLER 77 ANG,
MASS
LAUSCHER 74 MASS,PWA
POLLOCK 76 CS
SOTIRIOU 74 CS,
MASS,PWA
30. CERN-WA-003 FV
50. FNAL-110A
55. CERN-WA-003 FV
80. CERN-WA-003 FV
100 FNAL-110A
200 FNAL-110A
N K(892)- PI+
4.2 BERGER 76G ANG,
ANGP,MASS
HEMINGWAY 75C ANG
VERGEEST 76 PWA
13. GRASSLER 74C ANGP,
CS,DME,MASS
*DEL++ K- PI-
4.2 JONDEJANS 73
MACNAUGHTEN 74B
13. BRANKIN 73
10. KALTWASSER 71 ANG,
ANGP
13. ESTABROOKS 77B
14. BARDADINOTWI 73
PONS 76
*LAMBCA 2CAMMA
.87-.97 COLAS 75
*LAMBCA PI+ PI-
.30-.47 MAST 73
.43-1.4 PREVOST 74
PREVOST 76
.60-1.1 PREVOST 74
.68-.8A HEPP 76B CS
.72 FERREIRSORIA 71
.86-1.0 JONES 74D
.96-1.4 CLAYTON 74
1.1-1.4 GRISELIN 75B
PREVOST 74
1.2-1.7 HUNE 71
1.3-1.8 BERTHON 74B
1.7 BALTAY 73
1.9-2.5 DEBELLEFON 77B
2.1 ESTES 74 MASS
2.2 BORENSTEIN 74
DANNING 73 MASS
2.6 ESTES 76 MASS
2.6 APSELL 74
4.2 BLOKZIJL 77 CS,P
DEGROOT 74
HEMINGWAY 75B
MASS
HOLMGREN 76 ANGP,
MASS
TIMMERMANS 76 CS
VANAPELDOORN 74B
ANL-E-289-292
6.5 BOSETTI 75B PT
10. CHAURAND 76B MASS
14. LOUEDEC 76
WOHL 77

K- P --> (CONT.)

*LAMBDA PI+ PI- (CONT.)
16. BOSETTI 75B PT
*LAMBDA PI+ ANYTHING
4.2 VANAPELDOORN 74B
13. GRASSLER 76C MASS
14. BARDADINOTWI 75
16. GRASSLER 76C MASS
32. GENSCH 77
*LAMBDA PIO GAMMA
.57-.97 COLAS 75
*LAMBDA 2PIO
.81-.A6 MAST 74
.82-.82 CHU 73B
.82-.90 WUTHRICH 74
.83-.91 CHU 73F
.84-.91 LONDON 75B
.68-.93 BAXTER 73B
*LAMBDA PI+ ANYTHING
4.2 VANAPELDOORN 74B
10. GRASSLER 76C MASS
14. BARDADINOTWI 75
16. GRASSLER 76C MASS
32. GENSCH 77
*LAMBDA RHOO GAMMA
2.2 KALBFLEISCH 74B
*LAMBCA DELTA(9731+ PI-
3.1-3.6 WELLS 75 CS
3.9 BARNES 69C
4.6 BARNES 69C
5.3 BARNES 69C
*LAMBDA DELTA(931+ PI+
3.9 BARNES 69C
4.6 BARNES 69C
5.3 BARNES 69C
*LAMBDA K+ PI-
3.0 BNL-593 FV
4.6 BNL-593 FV
*LAMBDA K+ K-
2.2 KALBFLEISCH 74B
KALBFLEISCH 75B
4.0 BNL-673 FV
4.2 DEGROOT 74
DEGROOT 76
GAY 76 CS,MASS
HEMINGWAY 75B
ANGP,
MASS
HEMINGWAY 77 CS,
MASS
5.0 BNL-673 FV
6.5 ANL-E-289-292
10. EVANGELISTA 77D
ANG,CS,DME,
MASS,P
14. CHAURAND 76B MASS
DEMEGRI 76
GAGO 76B
WOHL 77
18. CERN-WA-008 FV
32. CERN-WA-008 FV
*LAMBDA K0 PI+
16. LOUEDEC 76
*LAMBDA K0 KS
14. DEGROOT 74
*LAMBDA K0 AKO
2.6 RHEL-119 FV
3.0 BADIER 64B
4.2 GANGULI 77 CS
6.5 ANL-E-289-292
WOHL 77
TOUEDEC 76
*LAMBDA K0 ANYTHING
32. CCCHET 77
*LAMBDA 2KS
3.0 BNL-593 FV
4.6 BNL-593 FV
*LAMBDA KS KS
2.2 KALBFLEISCH 75B
*LAMBDA KS 3PIONS
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*LAMBDA KS ANYTHING
3.9 BORG 74
14. BORG 76
*LAMBDA AKO ANYTHING
32. COCHET 77
LAMBDA K(8921O AK0
7.0-9.0 SLAC-BC-061 ANGP,
DME
LAMBDA K(892)O K-
7.0-9.0 SLAC-BC-061 ANGP,
DME

K- P --> (CONT.)

*LAMBDA 2PIONS
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*LAM(1405501 PI+ PI-
2.9 APSELL 74
4.2 HEMINGWAY 75B
TIMMERMANS 76 ANG,
MASS
*LAM(1405501 K+ K-
10. EVANGELISTA 77D
ANG,CS,DME,
MASS,P
*LAM(1520003 K+ K-
10. EVANGELISTA 77D
ANG,CS,DME,
MASS,P
14. WOHL 77
*SIGMA+ 2PICN
2.2 BLOKZIJL 77 CS
*SIGMA+ PIO PI+
.55 BERLEY 69
.82 BERLEY 69
.86-1.0 JONES 74C
1.1-1.4 GRISELIN 75B
1.2 ALSTON 62B
1.3-1.8 BERTHON 74B
1.5 ALSTON 62B
1.9-2.5 DEBELLEFON 77B
2.1 ESTES 74 MASS
2.6 ESTES 74 MASS
2.9 APSELL 74
4.2 DEGROOT 74
DEGROOT 76
CEGROOT 75B
HEMINGWAY 75B
MASS
TIMMERMANS 76 CS,
MASS
*SIGMA+ PI- MM,GE,Z
.86-1.0 JONES 74C
*SIGMA+ PI- NEUTRALS
1.1-1.4 GRISELIN 75B
1.9-2.5 DEBELLEFON 77B
4.2 BLCKZIJL 77 CS
*SIGMA+ PI- ANYTHING
10. HEMINGWAY 77 CS,
MASS
*SIGMA+ ETA PI-
4.2 GAY 76B CS
*SIGMA+ OMEGA PI-
4.2 CLAYTE 76C MASS
*SIGMA+ K0 K-
1.9-2.5 DEBELLEFON 77B
6.5 ANL-E-289-292
MORRIS 75B
14. GAGO 76B
LOUEDEC 76
*SIGMA+ KS K-
4.2 HEMINGWAY 77 CS
*SIGMA0 PI+ PI-
.86-1.0 JONES 74D
.96-1.4 CLAYTON 74
1.1-1.4 GRISELIN 75B
1.3-1.8 BERTHON 74B
1.9-2.5 CEBELLEFON 77B
2.1 ESTES 74 MASS
2.2 BORENSTEIN 74
2.6 ESTES 74 MASS
2.9 APSELL 74
4.2 DEGROOT 74
HEMINGWAY 75B
TIMMERMANS 76 CS,
MASS
6.5 ANL-E-289-292
*SIGMA0 2PIC
.82-.82 CHU 73B
.83-.91 CHU 73F
.84-.91 LONDON 75B
*SIGMA0 K+ K-
1.9-2.5 DEBELLEFON 77B
4.0 BNL-673 FV
4.2 DEGROOT 74
GAY 76 CS
HEMINGWAY 75B
MASS
5.0 BNL-673 FV
6.5 ANL-E-289-292
10. EVANGELISTA 77D
ANG,CS,DME,
MASS,P
? ANL-E-289-292 FV

REACTION/MOMENTUM INDEX (CONT'D)

K- P --> (CCNT.)

+SIGMAO KC AKO
3.0 BADIER 64B
6.5 ANL-E-289-252
+SIGMAO ZKS
2.6 RHEL-119 FV
3.0 BNL-593 FV
4.0 BNL-593 FV
+SIGMA- P1+ P10
.56 BERLEY 69
.82 BERLEY 69
.80-1.0 JONES 74D
1.1-1.4 GRISELIN 75B
1.2 ALSTON 62B
1.2-1.8 BERTHON 74B
2.5 ALSTON 62B
1.6-2.5 DEBELLEFON 77B
2.1 ESTES 74
3.0 ESTES 74
+SIGMA- P1+ PM,GE,2
.80-1.0 JONES 74D
+SIGMA- P1+ NEUTRALS
1.1-1.4 GRISELIN 75B
+SIGMA- P1+ ANYTHING
14. BARRACINETTI 75
+SIGMA- K+ AKO
4.0 BNL-673 FV
4.2 GAY 76 CS,MASS
HEMINGWAY 75G
MASS
HEMINGWAY 77 CS,
MASS
5.0 BNL-673 FV
6.5 ANL-E-289-252
14. LOUEDEC 76
+SIGI1385P131+ ETA P1-
4.2 GAY 76B CS,MASS
+SIGI1385P131+ RHO- P1-
? BARREIRO-ALON 75
+SIGI1385P131+ OMEGA P1-
4.2 FLATTE 76C MASS
+SIGI1385P131+ KO K-
4.2 GAY 76B MASS
+SIGI1385P131+ 2PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
+SIGI1385P1310 P1+ P1-
4.2 BARREIRO 76 ANG,
DME,PWA
+SIGI1385P1310 K+ K-
10. EVANGELISTA 77D
ANG,CS,DME,
MASS,P
+SIGI1385P131- P1+ P10
2.9 APSELL 74
+SIGI1385P131- ETA P1+
4.2 GAY 76B CS
+SIGI1385P131- 2PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
+XI0 K+ P1-
4.0 BNL-673 FV
5.0 BNL-673 FV
6.5 ANL-E-289-252
+XI0 KACN PICN
2.9 APSELL 69
+XI- P1+ ANYTHING
14. GAGO 76
GAGO 76B
+XI- P1- ANYTHING
14. GAGO 76B
+XI- K+ GAMMA
2.2 KALBFLEISCH 74B
+XI- K+ PION1SI
6.5 MORRIS 75B
+XI- K+ P10
1.3-1.8 BERTHON 74B
1.9-2.5 BILLOIR 75
DEBELLEFON 75B
DEBELLEFON 77B
2.2 KALBFLEISCH 74B
3.0 BADIER 64E
4.0 BNL-673 FV
4.2 GAY 76 CS,MASS
HEMINGWAY 75B
MASS
HEMINGWAY 77 CS,
MASS
5.0 BNL-673 FV
6.5 ANL-E-289-292
14. LOUEDEC 76
+XI- KO PION1SI
6.5 MORRIS 75B
+XI- KO P1+
1.3-1.8 BERTHON 74B
1.9-2.5 BILLOIR 75
DEBELLEFON 75B
DEBELLEFON 77B

K- P --> (CCNT.)

+XI- KO P1+ (CONT.)
2.2 BORENSTEIN 72
2.8 RHEL-119 FV
3.0 BADIER 64B
6.5 ANL-E-289-252
+XI- K5 P1+
3.0 BNL-593 FV
4.0 BNL-593 FV
+XI- KACN PICN
2.9 APSELL 69
+XI- X(1318?0)- ANYTHING
14. GAGO 76B
+XI- X(1?13?)- ANYTHING
14. GAGO 76B
+XI(1530P1310 P1- ANYTHING
14. GAGO 76
GAGO 76B
+XI(1530P1310 K+ P1-
3.0 BADIER 64B
+XI(1530P1310 KO P10
3.0 BADIER 64B
+XI(1530P131- KO P1+
4.0 BNL-673 FV
5.0 BNL-673 FV
+XI0(UNSPEC)0 K+ P1-
4.0 BNL-673 FV
5.0 BNL-673 FV
+3HACRCN
10. DEUTSCHMANN 73 CS
+3PRONG
147 FCNG 76C CS
+2PRONG NEUTRALS
14. GAGO 76B
+P1+ P10 P1- CHARGE
8.0 BARTKE 76E MASS
16. BARTKE 76E MASS
32. BARTKE 76E MASS
+AKO P1- 2PRONG
10. KIRK 76B CS,MASS
+P K+ 2K-
4.0 BNL-673 FV
5.0 BNL-673 FV
10. BOSETTI 75C
OTTER 74E
14. LOUEDEC 76
WOHL 77
16. BOSETTI 75C
OTTER 74E ANG+
ANGP,CS,MASS,
PWA
18. CERN-WA-008 FV
32. CERN-WA-008 FV
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+P K0 AKO K-
14. LOUEDEC 76
+P K5 ETA P1-
10. BARTKE 76E CS
16. BARTKE 76E CS
+P K5 OMEGA P1-
10. BARTKE 76E CS
16. BARTKE 76E CS
+P AKO P10 P1-
1.1-1.4 GRISELIN 75B
2.5 KHOUFY 72
4.2 HEMINGWAY 75C CS,
MASS
VANAPELDOORN 74B
6.5 ANL-E-289-292
10. BOSETTI 75B PT
OTTER 75B ANG+
ANGP,CS,MASS,
P
OTTER 75B PWA
OTTER 76 ANGP,CS,
MASS,PWA
TOVEY 75
BOSETTI 75B PT
OTTER 75B ANG+
ANGP,CS,MASS,
PWA
OTTER 76 ANGP,CS,
MASS,PWA
+P AKO P1- NM,GE,2
4.2 VANAPELDOORN 74B
+P K- P1+ P1-
1.1-1.4 GRISELIN 75B
1.9-2.5 DEBELLEFON 77B
3.0 KIRSCHBAUM 73B
2.6 KIRSCHBAUM 73B

K- P --> (CCNT.)

+P K- P1+ P1- (CONT.)
3.9 BARNES 69D
CHUNG 75C
4.1-4.2 VCORTHUYS 76
4.2 HEINEN 76 ANGP,CS,
DME,MASS,PCL,
PWA
HEMINGWAY 75C CS,
MASS
JENGEJANS 73
MACNAUGHTON 74B
METZGER 76
4.6 AGUILARBENITO 70D
BARNES 69D
KERPELMAN 69
5.0 BARNES 69D
7.3 ANGELOPOULOS 74
8.2 BRANKIN 73
STERGIOU 74B
10. BOSETTI 75B PT
BOSETTI 75C
CERN-S-131 FV
CHUNG 75C PWA
DEUTSCHMANN 74
MASS,
PWA
MANSEN 74 MASS,
PWA
MARKYTAN 72B
OTTER 74E
OTTER 75 CS,MASS,
P,POL,PWA
OTTER 75B PWA
OTTER 76 ANGP,CS,
MASS,PWA
SALMERON 72 ANGP
13. BRANDENBURG 75E
PWA
BRANDENBURG 75F
BRANDENBURG 76
ANGP,CS,MASS,
PWA
CARNEGIE 76 ANGP,
MASS,PWA
CARNEGIE 76B PWA
LUDLAM 70
LUDLAM 73B
LUDLAM 76
14. BARDADYNOWSKI 73
BARLOUTAUD 72B
BOWLER 76
CHUNG 75C PWA
DENEGRI 76
MANSEN 75
LOUEDEC 76
OTTER 76 ANGP,CS,
MASS,PWA
RATTI 72
TOVEY 74B
TOVEY 75
BOSETTI 75B PT
16. BOSETTI 75C
CHUNG 75C PWA
DEUTSCHMANN 74
MASS,
PWA
MANSEN 74 MASS,
PWA
OTTER 74 ANG,MASS,
P
OTTER 75 CS,MASS,
P,POL,PWA
OTTER 75B PWA
OTTER 76 ANGP,CS,
MASS,PWA
ASCOLI 74F PWA
25. BARLOUTAUD 76 P,
PWA
32. ANTIPOV 74B ANG,
CS,DME,MASS
ASCOLI 74F PWA
CHUNG 75C PWA
MANSEN 74 MASS,
PWA
50. FNAL-110A
100 FNAL-110A
203 FNAL-110A
? STRAUSS 73
WAGNER 74 PWA
+2P AP K-
14. LOUEDEC 76
WOHL 77
+N K+ AKO K-
4.0 BNL-673 FV
5.0 BNL-673 FV

K- P --> (CCNT.)

+N AKO P1+ P1-
1.1-1.4 GRISELIN 75B
1.9-2.5 DEBELLEFON 77B
2.9 KHOUFY 72
3.9 DREVILLON 75B
4.2 HEINEN 76 CS,MASS
HEMINGWAY 75C
ANGP,CS,MASS,
PWA
VERGEEST 76 PWA
6.0 ETKIN 76 MASS
FELEY 76 MASS
6.0-10. BNL-594
6.5 ANL-E-289-292
8.0 MANSEN 74 MASS
SCTRIBIU 74 CS,
MASS,PWA
8.2 ETTER 74C
10. BOSETTI 75B PT
GRASSLER 77
MANSEN 74 MASS
OTTER 74C
SCTRIBIU 74 CS,
MASS,PWA
14. DREVILLON 75B
LOUEDEC 76
16. BOSETTI 75B PT
GRASSLER 77 MASS
MANSEN 74 MASS
OTTER 74C ANG,CS,
MASS,PWA
SCTRIBIU 74 CS,
MASS,PWA
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
+DEL++ AK+(3922)0 2P1-
DENEGRI 74
+LAMBDA 2P1+ P1-
14. LOUEDEC 76
+LAMBDA P1+ P10 P1-
.88-1.0 JONES 74D
.96-1.4 CLAYTON 74
1.1-1.4 GRISELIN 75B
1.3-1.8 BERTHON 74B
1.4-1.8 NARKASVAN 75
1.9-2.5 BACCARI 76
DEBELLEFON 77B
2.1-2.7 SIEGEL 68
2.2 BORENSTEIN 74
CANBURG 72
KALBFLEISCH 74B
KALBFLEISCH 75B
2.5 APSELL 74
4.2 AGUILARBENITO 75B
MASS
BARREIRO 76 ANG,
MASS
CERRADA 77 ANGP,
CS,MASS,POL,
PWA
CECROCI 74 PWA
HEMINGWAY 75B
MASS
HEMINGWAY 75C CS,
MASS,POL
TIMMERMANS 76 CS
VANAPELDOORN 74B
6.5 ANL-E-289-252
8.2 MUIRHEAD 75
10. BOSETTI 75B PT
14. CHAURAND 76E MASS
LOUEDEC 76
16. BOSETTI 75B PT
+LAMBDA P1+ P1- CANMA
2.2 CANBURG 72
KALBFLEISCH 74B
6.5 ANL-E-289-292
14. CHAURAND 76E MASS
+LAMBDA P1+ P1- NIP101
4.2 ELDRIDGE 75
+LAMBDA P1+ P1- NM,GE,2
2.2 KALBFLEISCH 74B
3.5 BARNES 69C
4.2 VANAPELDOORN 74B
4.6 BARNES 69C
5.0 BARNES 69C
+LAMBDA P1+ P1- NEUTRALS
1.1-1.4 GRISELIN 75B
1.6-2.5 DEBELLEFON 77B
3.1-3.6 WELLS 75 CS,MASS
4.2 BLEMZIJL 72 CS,P
14. CHAURAND 76
CHAUPAND 76B MASS

REACTION/MOMENTUM INDEX (CONT'D)

K- P --> (CONT.)		
*LAMBDA PI+ PI- NEUTRAL(S)		
.86-1.0	JONES 74E	
*LAMBDA PI+ PI- ANYTHING		
2.9	APSELL 74	
4.2	BLOKZIJL 77	CS,P
*LAMBDA 3PI0		
.452-.82	CHU 73B	
.854-.91	LENDON 75B	
*LAMBDA ETA PI+ PI-		
2.2	DANBURG 73	
3.1-3.6	WELLS 75	CS,MASS
3.4	BARNES 69C	
4.2	CERRADA 77D	ANG,
		CS,MASS,PHA
	GAY 76B	CS
4.6	BARNES 69C	
5.0	BARNES 69C	
10.	BARTKE 76E	CS
14.	CMARANO 76B	MASS
10.	BARTKE 76E	CS
*LAMBDA OMEGA PI+ PI-		
10.	BARTKE 76E	CS
16.	BARTKE 76E	CS,P,
		PT
*LAMBDA K+ AKO PI-		
4.0	BNL-673	FV
4.2	HEMINGWAY 77	CS,
		MASS
5.3	BNL-673	FV
8.5	ANL-E-289-292	
14.	GAGO 76B	
	LOUEDEC 76	
7	ANL-E-289-292	FV
*LAMBDA K+ AKO ANYTHING		
14.	GAGO 76B	
*LAMBDA K+ PICONIS)		
6.5	MORRIS 75B	
*LAMBDA K+ K- PIONS)		
4.2	GANGULI 77	CS
*LAMBDA K+ K- PIO		
4.2	GANGULI 77	CS
*LAMBDA K+ K- PIO		
4.0	BNL-673	FV
4.2	AGUILARBENIT 75B	
		MASS
5.0	BNL-673	FV
6.5	ANL-E-289-292	
18.	CERN-WA-008	FV
32.	CERN-WA-008	FV
7	ANL-E-289-292	FV
*LAMBDA KO AKO PI0(S)		
4.2	GANGULI 77	CS
*LAMBDA KO AKO PIOS		
4.2	GANGULI 77	CS
*LAMBDA KC AKO PIO		
6.5	ANL-E-289-292	
*LAMBDA KO K- PI+		
6.5	ANL-E-289-292	
14.	GAGO 76B	
7	ANL-E-289-292	FV
*LAMBDA KO K- ANYTHING		
14.	GAGC 76B	
*LAMBDA KS PI+ PI-		
3.0	BNL-593	FV
4.0	BNL-593	FV
7	BNL-593	FV
*LAMBDA 2K5 OPRONG		
4.2	GANGULI 77	CS
*LAMBDA KS K- PI+		
3.0	BNL-593	FV
4.6	BNL-593	FV
*LAMBDA KS 2PRONG		
3.5	BORG 74	
4.2	GANGULI 77	CS
14.	BORG 74	
*SIGMA+ 3PION		
4.2	BLOKZIJL 77	CS
*SIGMA+ PI+ 2PI-		
.86-1.0	JONES 74D	
1.1-1.4	GRISELIM 75B	
1.2	ALSTON 62B	
1.3-1.8	BERTHON 74B	
1.5	ALSTON 62B	
1.9-2.5	DEBELLEFON 77B	
2.1	ESTES 74	MASS
2.6	ESTES 74	MASS
2.9	APSELL 74	
4.1	LOCS 68B	
4.2	HEMINGWAY 75B	
	TIMMERMANS 76	CS,
		MASS
5.5	LCOS 68B	
14.	LOUEDEC 76	

K- P --> (CONT.)		
*SIGMA+ K+ K- PICNES)		
4.5	MORRIS 75B	
*SIGMA+ K+ K- PI-		
4.0	BNL-673	FV
4.1	LCOS 68B	
4.2	AGUILARBENIT 75B	
	HEMINGWAY 77	CS,
		MASS
5.0	BNL-673	FV
5.5	LCOS 68B	
14.	GAGO 76B	
	LOUEDEC 76	
*SIGMA+ KO AKO PI-		
6.5	ANL-E-289-292	
*SIGMA+ KO K- PIO		
6.5	ANL-E-289-292	
14.	GAGC 76B	
*SIGMA+ KO K- ANYTHING		
14.	BARDACINOTWI 74	
	GAGO 76B	
*SIGMA+ KS KL PI-		
4.2	AGUILARBENIT 75B	
		MASS
*SIGMA+ 2KAON ANYTHING		
4.2	BLOKZIJL 77	CS
*SIGMA+ 3PRONG		
3.0	BARDACINOTWI 74	
*SIGMOD PI+ PIO PI-		
.86-1.0	JONES 74D	
*SIGMA+ ETA PI+ PI-		
.86-1.0	JONES 74E	
*SIGMAD K+ KS PI-		
3.0	BNL-593	FV
4.6	BNL-593	FV
*SIGMAD K+ AKO PI-		
4.0	BNL-673	FV
5.0	BNL-673	FV
6.5	ANL-E-289-292	
7	ANL-E-289-292	FV
*SIGMAD K+ K- PICNES)		
4.2	MORRIS 75B	
*SIGMAD KO K- PI+		
6.5	ANL-E-289-292	
*SIGMA- 2PI+ PI-		
.86-1.0	JONES 74D	
1.1-1.4	GRISELIM 75B	
1.2	ALSTON 62B	
1.3-1.8	BERTHON 74B	
1.5	ALSTON 62B	
1.9-2.5	DEBELLEFON 77B	
2.1	ESTES 74	MASS
2.6	ESTES 74	MASS
2.9	APSELL 74	
4.1	LOCS 68B	
4.2	HEMINGWAY 75B	
	TIMMERMANS 76	CS,
		MASS
5.5	LCOS 68B	
14.	LOUEDEC 76	

K- P --> (CONT.)		
*SIGMA- K+ K- ANYTHING		
14.	GAGO 76	
	GAGO 76B	
*SIGMA- K+ K- PI-		
1.9-2.5	DEBELLEFON 77B	
2.8	RHEL-119	FV
3.0	BADIER 64B	
	BNL-593	FV
4.3	BNL-673	FV
4.2	GAY 76	CS,MASS
	HEMINGWAY 75B	
		MASS
	HEMINGWAY 77	CS,
		MASS
4.6	BNL-593	FV
5.0	BNL-673	FV
6.5	ANL-E-289-292	
14.	LOUEDEC 76	
*SIGMA- KO K- 2PI3		
3.0	BADIER 64B	
*SIGMA- KS KL PI-		
6.5	ANL-E-289-292	
*SIGMA- KO AKO		
6.5	ANL-E-289-292	
*SIGMA- KO PI+ PI0		
2.8	RHEL-119	FV
3.0	BADIER 64B	
6.5	ANL-E-289-292	
	MORRIS 75B	
*SIGMA- 3PRONG		
6.5	MORRIS 75B	
*SIGMA- K+ K- ANYTHING		
6.5	ANL-E-289-292	
*SIGMADRON		
4.2	JONGEJANS 73	
13.	LUDLAM 73B	
14.	BARDADINOTWI 75B	
	LOUEDEC 76	
32.	AKOPDZHANOV 74	CS
	BABINTSEV 75	
	BETTLIERE 75	CS
	FRANCESOVIET 74C	
		CS
147	FONG 76C	CS
*GAMMA 4PRONG		
14.	PIERRE 74	
32.	BETTLIERE 75B	CS
*K5 4PRONG		
3.9	BORG 74	
4.2	BORG 74	
*P K+ AKO K- PI-		
14.	LOUEDEC 76	
	WOHL 77	
*P K+ 2K- PIO		
18.	CERN-WA-008	FV
32.	CERN-WA-008	FV
*P KO 2K- PI+		
14.	LOUEDEC 76	
*P AKO PI+ 2PI-		
2.8	RHEL-119	FV
3.0	GOLDBERG 76	MASS
4.1-4.2	VORTHUIS 76	
4.2	VANAPELDOORN 74B	
10.	BOSETTI 75B	PT
14.	BARDADINOTWI 73	
	LOUEDEC 76	
18.	BOSETTI 75B	PT
*P K- PI+ PIO PI-		
2.9-2.9	DEBELLEFON 77B	
4.1-4.2	VORTHUIS 76	
4.2	AGUILARBENIT 75B	
		MASS
4.6	JUMALA 69	
5.0	JUMALA 69	
5.5	CHANDLER 70	
7.3	CHUNG 74B	MASS
8.2	THEOCHAROPOU 74	
10.	BOSETTI 75B	PT
	DITTER 74D	CS,MASS
13.	LUDLAM 73B	
	LUDLAM 76	
14.	LOUEDEC 76	
16.	BOSETTI 75B	PT
	OTTER 74D	CS,MASS
7	LANDACHER 73	
*P K- PI+ PI- NEUTRALS		
1.9-2.5	DEBELLEFON 77B	
*P K- ETA PI+ PI-		
10.	BARTKE 76E	CS
16.	BARTKE 76E	CS

K- P --> (CONT.)		
*P K- OMEGA PI+ PI-		
10.	BARTKE 76E	CS
16.	BARTKE 76E	CS
*P AP LAMBDA PI+ PI-		
14.	LOUEDEC 76	
*N K- 2PI+ PI-		
1 4.6	JUMALA 69	
1 5.0	JUMALA 69	
1 10.	BOSETTI 75B	PT
1 14.	OENEGRI 75B	
	LOUEDEC 76	
1 16.	BOSETTI 75B	PT
1 50.	FNAL-110A	
1 100	FNAL-110A	
1 200	FNAL-110A	
*LAMBDA 2PI+ 2PI-		
2.2	CARBURG 73	
1 2.8	RHEL-119	FV
1 3.0	BNL-593	FV
1 4.2	BLOKZIJL 77	CS,P
	VANAPELDOORN 74B	
1 4.6	BNL-593	FV
1 10.	BOSETTI 75B	PT
1 14.	LESTIENNE 73	
	LOUEDEC 76	
1 16.	BOSETTI 75B	PT
*LAMBDA K+ KS PIO PI-		
1 3.0	BNL-593	FV
1 4.6	BNL-593	FV
*LAMBDA K+ AKO PIO PI-		
1 6.5	ANL-E-289-292	
1 14.	GAGO 76B	
*LAMBDA K+ K- PI+ PI-		
1 4.0	BNL-673	FV
1 4.2	GANGULI 77	CS
1 5.0	BNL-673	FV
1 14.	GAGO 76B	
*HADRON		
1 32.	DEUTSCHMANN 73	CS
*PRONG		
1 4.2	GANGULI 77	CS
1 6.5	ANL-E-289-292	
1 14.	LOUEDEC 76	
*LAMBDA KO K- PI+ PIO		
1 4.2	GANGULI 77	CS
1 6.5	ANL-E-289-292	
1 14.	GAGO 76B	
*LAMBDA 2K5 PI+ PI-		
1 3.0	BNL-593	FV
1 4.6	BNL-593	FV
*LAMBDA 2K5 2PRONG		
1 4.2	GANGULI 77	CS
*LAMBDA K5 K- PI+ PIO		
1 3.0	BNL-593	FV
1 4.6	BNL-593	FV
*LAMBDA 4PRONG		
1 3.5	BORG 74	
1 4.2	GANGULI 77	CS
1 14.	BORG 74	
*SIGMA+ 4PION		
1 4.2	BLOKZIJL 77	CS
*SIGMA+ PI+ PI- NEUTRALS		
1 1.9-2.5	DEBELLEFON 77B	
1 4.2	BLOKZIJL 77	CS
*SIGMA+ PI+ PIO 2PI-		
1 1.9-2.5	DEBELLEFON 77B	
1 4.2	AGUILARBENIT 75B	
		MASS
	FLATTE 76C	MASS
*SIGMA+ PI+ PI- NEUTRALS		
1 1.9-2.5	DEBELLEFON 77B	
1 4.2	BLOKZIJL 77	CS
*SIGMA+ K+ AKO PI-		
1 14.	LOUEDEC 76	
*SIGMA+ KO AKO PIO PI-		
1 6.5	ANL-E-289-292	
*SIGMA+ KO K- PI+ PI-		
1 6.5	ANL-E-289-292	
1 14.	GAGO 76B	
	LOUEDEC 76	
*SIGMAD 2PI+ 2PI-		
1 1.9-2.5	DEBELLEFON 77B	
1 2.8	RHEL-119	FV
1 3.0	BNL-593	FV
1 4.6	BNL-593	FV
*SIGMAD KO AKO PI+ PI-		
1 6.5	ANL-E-289-292	
*SIGMAD 2KS PI+ PI-		
1 3.0	BNL-593	FV
1 4.6	BNL-593	FV
*SIGMA- 2PI+ PIO PI-		
1 1.9-2.5	DEBELLEFON 77B	
1 4.2	AGUILARBENIT 75B	
		MASS
*SIGMA- 2PI+ PI- NEUTRALS		
1 1.9-2.5	DEBELLEFON 77B	
*SIGMA- K+ AKO PI+ PI-		
1 6.5	ANL-E-289-292	
1 14.	GAGO 76B	
	LOUEDEC 76	

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REACTION/MOMENTUM INDEX (CONT'D)

K- P --> (CONT.)

*SIGMA- KC AKO PI+ PIO
6.5 ANL-E-285-292
*SIGMA- KO K- 2PI+
6.5 ANL-E-285-292
14. LOUEDEC 76
*SIGI1385P13)+ PI+ PIO 2PI-
4.2 GAY 76B CS
*SIGI1385P13)+ 4PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*SIGI1385P13)- 4PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*XI- K+ PI+ PIO PI-
6.5 ANL-E-285-292
14. LOUEDEC 76
*XI- KO 2PI+ PI-
6.5 ANL-E-285-292
14. LOUEDEC 76
*XI- 4PRONG
6.5 MORRIS 75B
*SHADRON
10. DEUTSCHMANN 73 CS
*SPRONG
147 FONG 76C CS
*4PRONG NEUTRALS
14. GAGO 76B
*2PI- 4PRONG
32. AZHINENKO 77 P
*AKO PI- 4PRONG
10. KIRK 76B CS,MASS
*P K+ ZK- PI+ PI-
14. LOUEDEC 76
*P KS ETA PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P KS OMEGA PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P AKO PI+ PIO 2PI-
2.8 RHEL-119 FV
4.1-4.2 VOORTHUIS 76
4.2 VANAPELDOORN 74E
10. BOSETTI 75B PT
14. LOUEDEC 76
KOHL 77
16. BOSETTI 75B PT
*P AKO PI+ 2PI- MM.GE.2
4.2 VANAPELDOORN 74B
*P K- 2PI- PI+
2.8 RHEL-119 FV
4.1-4.2 VOORTHUIS 76
10. BOSETTI 75B PT
14. DENEGRI 76
LOUEDEC 76
16. BOSETTI 75B PT
32. BARLOUTAUD 76 CS,
P,PT
*N AKO 2PI+ 2PI-
2.8 RHEL-119 FV
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA 2PI+ PIO 2PI-
1.6-2.5 DEBELLEFCH 77B
2.2 DANBURG 73
2.8 RHEL-119 FV
3.0 BNL-593 FV
3.1-3.6 WELLS 75 CS,MASS
4.2 BLOKZIJL 77 CS,P
GAY 76B CS
VANAPELDOORN 74B
4.6 BNL-593 FV
10. BOSETTI 75B PT
14. CHAURAND 76
CHAURAND 76B MASS
LESTIENNE 73
LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA 2PI+ 2PI- GAMMA
2.2 DANBURG 73
*LAMBDA 2PI+ 2PI- PIOS
3.0 BNL-593 FV
4.6 BNL-593 FV
*LAMBDA 2PI+ 2PI- NIPIO)
4.2 BLOKZIJL 75
*LAMBDA 2PI+ 2PI- MM.GE.2
4.2 VANAPELDOORN 74B
*LAMBDA 2PI+ 2PI- NEUTRALS
1.9-2.5 DEBELLEFCH 77B
4.2 BLOKZIJL 77 CS,P
*LAMBDA ETA 2PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS

K- P --> (CONT.)

*LAMBDA EMEGA 2PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*LAMBDA K+ AKO PI+ 2PI-
14. GAGO 76B
LOUEDEC 76
*LAMBDA K+ K- PI+ PI- PIO(S)
4.2 GANGULI 77 CS
*LAMBDA KO AKO PI+ PI-
14. LOUEDEC 76
10(S)I 75B PT
4.2 GANGULI 77 CS
*LAMBDA KO K- 2PI+ PI-
14. GAGO 76B
14. LOUEDEC 76
*LAMBDA KS 4PRONG
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*SIGMA+ 5PION
4.2 BLOKZIJL 77 CS
*SIGMA+ 2PI+ 3PI-
14. LOUEDEC 76
*SIGMA+ K+ K- PI+ 2PI-
14. GAGO 76B
*SIGMA+ KO K- PI+ PIO PI-
14. GAGO 76B
*SIGMA+ 5PRONG
147 BARDACINOTWI 74
*SIGMA0 2PI+ PIO 2PI-
2.8 RHEL-119 FV
*SIGMA0 2PI+ 2PI- PI3S
3.0 BNL-593 FV
4.6 BNL-593 FV
*SIGMA- 3PI+ 2PI-
14. LOUEDEC 76
*SIGMA- K+ AKO PI+ PIO PI-
14. GAGO 76B
*XI- K+ 2PI+ 2PI-
14. LOUEDEC 76
*XI- KO 2PI+ PIO PI-
14. LOUEDEC 76
*XI- 4PRONG NEUTRALS
14. GAGO 76B
*4HADRON
10. DEUTSCHMANN 73 CS
*6PRONG
13. LUDLAM 73B
14. BARDACINOTWI 75B
LOUEDEC 76
32. AKOPDZHANOV 74 CS
BABINTSEV 75
BEILLIERE 75 CS
FRANCESCOVIET 74C
147 FONG 76C CS
*OD P AKO PI+ 2PI-
10. LAVEN 76 ANGP,CS,
MASS
16. LAVEN 76 ANGP,CS,
MASS
7 LAVEN 76 ANGP,CS,
MASS
*OD P K- PI+ PIO PI-
10. LAVEN 76 ANGP,CS,
MASS
16. LAVEN 76 ANGP,CS,
MASS
7 LAVEN 76 ANGP,CS,
MASS
*OD N K- 2PI+ PI-
10. LAVEN 76 ANGP,CS,
MASS
16. LAVEN 76 ANGP,CS,
MASS
*GAMMA 6PRONG
32. BEILLIERE 75B CS
*KS 6PRONG
3.9 BORG 74
14. BORG 74
*P K+ AKO K- PI+ 2PI-
14. LOUEDEC 76
*P KO 2K- 2PI+ PI-
14. LOUEDEC 76
*P AKO 2PI+ 3PI-
4.1-4.2 VOORTHUIS 76
10. BOSETTI 75B PT
14. LOUEDEC 76
*P K- 2PI+ PIO 2PI-
4.1-4.2 VOORTHUIS 76
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT

K- P --> (CONT.)

*P K- ETA 2PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P KS OMEGA 2PI+ 2PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P K- 3PI+ 2PI-
0. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA 3PI+ 3PI-
4.2 BLOKZIJL 77 CS,P
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA K+ K- 2PI+ 2PI-
14. GAGO 76B
LOUEDEC 76
*LAMBDA KO K- 2PI+ PIO PI-
14. GAGO 76B
*LAMBDA 2KS 4PRONG
4.2 GANGULI 77 CS
*LAMBDA 6PRONG
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*SIGMA+ 6PION
4.2 BLOKZIJL 77 CS
*SIGMA+ K+ K- PI+ PIO 2PI-
14. GAGO 76B
*SIGI1385P13)+ 6PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*SIGI1385P13)- 6PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*XI- K+ 2PI+ PIO 2PI-
14. LOUEDEC 76
*7HADRON
10. DEUTSCHMANN 73 CS
*7PRONG
147 FONG 76C CS
*6PRONG NEUTRALS
14. GAGO 76B
*2PI- 8PRONG
10. AZHINENKO 77 P
*AKO PI- 6PRONG
10. KIRK 76B CS,MASS
*P KS ETA 2PI+ 3PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P KS OMEGA 2PI+ 3PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P AKO 2PI+ PIO 3PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*P K- 3PI+ 3PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
32. BARLOUTAUD 76 CS,
P,PT
*N AKO 3PI+ 3PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA 3PI+ PIO 3PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA ETA 3PI+ 3PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*LAMBDA KS 6PRONG
3.9 BORG 74
4.2 GANGULI 77 CS
14. BORG 74
*SIGMA+ KO K- 2PI+ PIO 2PI-
14. GAGO 76B
*SIGMA+ 7PRONG
14. BARDACINOTWI 74
*XI- 6PRONG NEUTRALS
14. GAGO 76B
*8HADRON
10. DEUTSCHMANN 73 CS

K- P --> (CONT.)

*8PRONG
13. LUDLAM 73B
14. LOUEDEC 76
32. AKOPDZHANOV 74 CS
BABINTSEV 75
BEILLIERE 75 CS
FRANCESCOVIET 74C
147 FONG 76C CS
*AKO 8PRONG
14. PIERRE 74
32. BEILLIERE 75B CS
*KS 8PRONG
3.9 BORG 74
14. BORG 74
*P AKO 3PI+ 4PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*P K- 3PI+ PIO 3PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*P K- ETA 3PI+ 3PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P K- OMEGA 3PI+ 3PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*LAMBDA 2KS 6PRONG
4.2 GANGULI 77 CS
*LAMBDA 8PRONG
3.9 BORG 74
14. BORG 74
*SIGI1385P13)+ 8PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*SIGI1385P13)- 8PRONG
10. GRASSLER 76C CS
16. GRASSLER 76C CS
*9HADRON
10. DEUTSCHMANN 73 CS
*9PRONG
147 FONG 76C CS
*8PRONG NEUTRALS
14. GAGO 76B
*AKO PI- 8PRONG
10. KIRK 76B CS,MASS
*P KS ETA 3PI+ 4PI-
10. BARTKE 76E CS
16. BARTKE 76E CS
*P K- 3PI+ 4PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*P AKO 3PI+ PIO 4PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*N AKO 4PI+ 4PI-
14. LOUEDEC 76
*LAMBDA 4PI+ PIO 4PI-
10. BOSETTI 75B PT
14. LOUEDEC 76
16. BOSETTI 75B PT
*LAMBDA KS 8PRONG
3.9 BORG 74
14. BORG 74
*XI- 8PRONG NEUTRALS
GAGO 76B
*10HADRON
10. DEUTSCHMANN 73 CS
*10PRONG
147 FONG 76C CS
32. AKOPDZHANOV 74 CS
BEILLIERE 75 CS
FRANCESCOVIET 74C
*11HADRON
10. DEUTSCHMANN 73 CS
*11PRONG
147 FONG 76C CS
*10PRONG NEUTRALS
14. GAGO 76B

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K- P ---> (CONT.)

*2PI- 10PRONG
32. AZHINENKO 77 P
*12PRONG
32. AKOPDZHANOV 74 CS
FRANCESOVIET 74C CS
147 FCNG 76C CS
*GAMMA 12PRONG
14. PIERRE 74
32. BEILLIERE 75B CS
*13PRONG
147 FCNG 76C CS
*12PRNG NEUTRALS
14. GAGO 76B
*14PRONG
32. AKOPDZHANOV 74 CS
FRANCESOVIET 74C CS
147 FCNG 76C CS
*GAMMA 14PRONG
14. PIERRE 74
32. BEILLIERE 75B CS
*15PRONG
147 FCNG 76C CS
*14PRONG NEUTRALS
14. GAGO 76B
*16PRONG
32. FRANCESOVIET 74C CS
147 FCNG 76C CS
*17PRONG
147 FCNG 76C CS
*18PRONG
147 FCNG 76C CS
*19PRONG
147 FCNG 76C CS
*20PRONG
147 FCNG 76C CS
*NEUTRALS)
* NEUTRALS)
14. PIERRE 74
*ANYTHING - K- P
10. BOSETTI 73C MULT, P
P
16. BOSETTI 73C MULT, P
P
*PIO LAMBDA
* PIO LAMBDA
*10-26 MUNPHREY 62
30 NORDIN 61
40 NORDIN 61
*RHOO LAMBDA
* RHOO SIGMAO
13. BRANDENBURG 76B
AMP
S(993) LAMBDA
* S*(993) SIGMAO
13. BRANDENBURG 76B
CS
*PHI LAMBDA
* PHI SIGMAO
13. BRANDENBURG 75C
MASS
BRANDENBURG 76B
AMP,ANG,AMP,
CS,DME
*PHI SIGMAO
* PHI SIGC1385P1310
4.2 KLUYVER 77 AMP,
ANGP
*PRIME LAMBDA
* PRIME SIGMAO
13. BRANDENBURG 75C
AMP,
ANGP,CS
BRANDENBURG 76B
CS,
ONE
*KO OPRONG
* AKO OPRONG
32. BEILLIERE 75 CS
*KO ANYTHING
* AKO ANYTHING
32. BEILLIERE 75 CS,P

K- P ---> (CONT.)

*DEL++ ANYTHING - DEL++ K-
* PI-
14. BARDACINOTWI 73
*LAMBDA N(PRONG)
* SIGMAO N(PRONG)
14. LOUEDEC 76
*LAMBDA ANYTHING
* SIGMAO ANYTHING
14. LOUEDEC 76
*ALAMBDA N(PRONG)
* ASIGMAO N(PRONG)
14. LOUEDEC 76
*ALAMBDA NEUTRALS
* ASIGMAO NEUTRALS
14. BARDACINOTWI 75B
*ALAMBDA ANYTHING
* ASIGMAO ANYTHING
14. BARDACINOTWI 75B
14. LOUEDEC 76
*KO PIO ANYTHING
* AKO PIO ANYTHING
32. BEILLIERE 75B
MULT,
P
*2KO ANYTHING
* 2AKO ANYTHING
32. BEILLIERE 75 CS
*KO CHARGED ANYTHING
* AKO CHARGED ANYTHING
32. BEILLIERE 75B
MULT,
P
*K0 2PRONG
* AKO 2PRONG
32. BEILLIERE 75 CS
*P PI+ ANYTHING - P K- PI+
PI-
4.1-4.2 WOORTHUIS 76
*P AKO PI-
* P K- PIO
14. SPIRO 77
*LAMBDA PI+ PI-
* SIGMAO PI+ PI-
13. BRANDENBURG 75O
ANGP,CS,DME,
MASS
BRANDENBURG 76O
MASS
*LAMBDA KO ANYTHING
* LAMBDA AKO ANYTHING
32. BEILLIERE 75 CS,P
*SIGMA+ PI- ANYTHING
* SIGMA- PI+ ANYTHING
BARDACINOTWI 75
*OMEGA- K+ ANYTHING
* OMEGA- KO ANYTHING
10. DEUTSCHMANN 73C
ANG,CS,MASS,
MULT,P,PT
*LAMBDA K+ PI- MP,GE,2
* LAMBDA K- PI+ MN,GE,2
4.2 GANGULI 77 CS
*LAMBDA K+ KS PI-
* LAMBDA KS K- PI+
4.2 GANGULI 77 CS
*LAMBDA K+ AKO PI-
* LAMBDA KO K- PI+
4.2 GANGULI 77 CS
6.2 MUIRHEAD 75
32. ARESTOV 76 CS,P
*SIGMA+ K+ K- PICOIS)
* SIGMA+ KO K- PICNS
14. GAGO 76B
*K0 4PRONG
* AKO 4PRONG
32. BEILLIERE 75 CS
*LAMBDA K+ KS PI- PIO(S)
* LAMBDA KS K- PI+ PIO(S)
4.2 GANGULI 77 CS
*LAMBDA K+ K- PI+ PI-
* LAMBDA K+ K- 2PI+ 2PI-
14. GAGO 76B
*LAMBDA K+ AKO PI+ 2PI-
* LAMBDA K+ AKO PI+ PIO
2PI-
14. GAGO 76B

K- P ---> (CONT.)

*KO 6PRONG
* AKO 6PRONG
32. BEILLIERE 75 CS
*KO 8PRONG
* AKO 8PRONG
32. BEILLIERE 75 CS
+ --- K- P
* 2PRONG
32. FRANCESOVIET 74C
CS
*LAMBDA K+ AKO PIONES)
* LAMBDA K+ K- PIONES) +
* LAMBDA KO K- PIONES)
14. GAGO 76
*SIGMA+ K+ K- PIONES) +
* SIGMA- K+ AKO PIONES)
14. GAGO 76
*LAMBDA KO K- PI+
* LAMBDA KO K- PI+ PIO +
* LAMBDA KO K- 2PI+ PI- +
LAMBDA KO K- 2PI+ PIO PI-
14. GAGO 76B
*XI- K+ PI+ PI-
* XI- K+ PI+ PIO PI- + XI-
K+ 2PI+ 2PI- + XI- K+ 2PI+
PIO 2PI-
14. GAGO 76B
* LAMBDA KO K- PI+ PIO +
****
K- N --->
(-NOT ENCODED)
0. BUNNELL 73
CANTWELL 74 P
FILIPKOWSKI 72
*.3-1.2 KORNEAAHO 73B
*.47-.69 MORRIS 73B
*.58-.88 MUELLER 69
*.58-.88 SIMS 68
*.60 CADZIMIEW 68
*.67-.91 SIMS 68
*.70-1.7 ARMENTEROS 69E
*.94 CERN-T-211
1.0 CERN-T-211
NAKJOUR 73
1.0-200 DRONKERS 75 AMP
1.4 CAMPBELL 70
CCLLEY 71B MASS
1.6 CAMPBELL 70
CCLLEY 71B MASS
2.0 CERN-T-211
2.1 CERN-T-211
2.1-3.6 MULLER 69
2.2 RHODE 69B
2.3 CERN-T-211
2.5 CERN-T-211
3.0 BARLOUTAUD 70
LANDOEY 71
SABRE 70
3.9 CRENNELL 69C
CRENNELL 69D
CRENNELL 69E
4.5 YEN 69C
4.9 DIBIANCA 70
GOUREWITCH 71
KORPI 72
5.0-5.5 AMMAR 73B
*SIGC1385P13)-
*.68-.84 HEPP 76B CS
*ANYTHING
*.36-.72 PETERSON 70B
1.5-7.0 WATANITZUMI 75B CS
15-60 DENISOV 73B CS
25. ANISOVICH 74F
35. CARROLL 76E CS
53. CARROLL 76E CS
60. ANISOVICH 74F
70. CARROLL 76E CS
100 CARROLL 76E CS
120 CARROLL 76E CS
150 CARROLL 76E CS
170 CARROLL 76E CS
200 CARROLL 76E CS
240 CARROLL 76E CS
? GALBRAITH 69
*GAMMA HADRONS
150-300 FNAL-192
*E- HADRONS
150-300 FNAL-192
*E+ HADRONS
150-300 FNAL-192
*MU- HADRONS
150-300 FNAL-192
*MU+ HADRONS
150-300 FNAL-192

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PCL,PWA
HEPP 76B CS
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*.70-1.7 ARMENTEROS 69E
1.1-1.8 ISLAM 71
*2.2 BARLOUTAUD 71
3.0 BARLOUTAUD 69C
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? MUSGRAVE 71B
*PIO SIGC1385P13)-
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3.0 HIRSCH 71
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*.68-.84 HEPP 76B CS,MASS
*.70-1.2 ARMENTEROS 70
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*2.2 BARLOUTAUD 71
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*PI- LAM(1405S31)
*2.2 BARLOUTAUD 71
3.0 BARLOUTAUD 71C
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*PI- LAM(1520S31)
*2.2 BARLOUTAUD 71
2.9 KATSOUFIS 75
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*PI- LAM(1815S01)
3.0 BARLOUTAUD 71C
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2.9 KATSOUFIS 75
*PI- SAM(2100G07)
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*.70-1.7 ARMENTEROS 69E
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*.60-1.1 PREVOST 74
2.5 KATSOUFIS 75
3.0 BARLOUTAUD 71C
*PI- SIG1660P1110
2.9 KATSOUFIS 75
*PI- SIG1670D1310
3.0 BARLOUTAUD 71C
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*PI- SIG1725S1110
2.9 KATSOUFIS 75
*PI- SIG1915S1510
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*LAMBDA K+ ANYTHING
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*T SIGMA- PI+
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DELPRETE 73

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)		
+(NOT ENCODED) (CONT.)			+(NOT ENCODED) (CONT.)			+(NOT ENCODED) (CONT.)			+(RPRNG) (CONT.)		
16.	GNAT 73	1	WHITMORE 72	1		FRANZINI 74	1		405	BROMBERG 74B	MULT
	GOLDHABER 73C	1	WHITMORE 73D	1		GOTTFRIED 73	1		479	ALBROW 74B	
17.	REIBEL 70	1	234-1500 ALBROW 72C	1		KRISCH 72C	1		503	FNAL-207	
19.	ALLABY 70B	1	241-1450 BREITENBACH 72	1		KUNDOA 73	1		505	THOME 77	
	ALLABY 70C	1	281 AMENDOLIA 73	1		LEDNICKY 75	1		1050	THOME 77	
	ALLABY 72	1	KEPHART 75	1		MILLER 74E	1		1510	THOME 77	
	ALLAN 70	1	281-1500 FLUGGE 73	1		MINTEN 72	1		2100	THOME 77	
	ALLAN 76B	1	286 BANNER 73E	1		ROBERTS 74	1		?	RANFT 75C	MULT
	BOGGILD 71B	1	286-1480 BANNER 72	1		SCHMIDTPARZE 72	1	+PRONGS			
	BAJAK 71	1	296 GIACOMELLI 75	1		SCHUBERT 73	1		?	BROMBERG 77C	P,PT
	DANIELSSON 71	1	296-1500 BERTIN 72B	1		SEAGRAVE 68	1	+ANYTHING			
	DANIELSSON 71B	1	BERTIN 72C	1		SWANSON 72	1		.14-1.5	BYSTRICKY 77B	
	HELMGREN 70	1	256-2100 ALBROW 73H	1		TING 76E	1		.17	PETTER 74	
	LACH 73 CS,MULT	1	300 FNAL-277	1		VORVODIC 74 CS,	1		.61-1.2	SCHWALTZ 71	
	MARQUIT 72	1	FNAL-281	1		MANY,MULT	1		1.0	ANL-E-433	CS,PEL
	MITTINEN 72E	1	FNAL-557	1		+PROBLEWSKI 73	1			ANL-E-434	CS,PEL
	STOH 70	1	COINI 75	1	+P				1.0-3.0	ANL-E-365	CS
	SVEDIN 74	1	303 DAO 72	1	1.1	DUCROS 71	1		1.0-200	WHITMORE 75B	CS
	TAKIBAEV 73C	1	DAO 73C	1	1.9	DUCROS 73	1		1.1	ANL-E-433	CS,PEL
	TAKIBAEV 75C	1	DAO 73D	1	+LONGLIVED					ANL-E-434	CS,PEL
	YAMAGAMI 70	1	DAO 73E	1	1500	ALBROW 75B	1		1.1-7.8	BUGG 66	
	YAMEGAMI 71	1	DAO 73F	1	+HADRONS				1.2	ANL-E-416	ASYM,CS
20.-70.	MORRISON 74B MANY	1	DAO 75C	1	144C	ELLIS 77	1			ANL-E-434	CS,PEL
20.-200	ANTONOVA 77	1	LACH 73 CS,MULT	1	+STRANGE				1.2-2.5	AUER 76C	
20.-600	AKIMOV 70	1	400 FNAL-341 ANGP,CS	1	5.4	DUNNCODIE 69	1		1.3	ANL-E-433	CS,PEL
	GRIGOROV 69	1	FNAL-557	1	6.0	DUNNCODIE 69	1			ANL-E-434	CS,PEL
	GRIGOROV 70	1	COINI 75	1	7.9	FIEREAUGH 68	1		1.4-4.0	LICHCO 62	
22.	COLEMAN 71	1	405 COHEN 73B	1	16.	FILTHUTH 61	1		1.5	ANL-E-416	
	RHODE 69	1	475 BABCOCK 72	1	+VEES					HORRIS 56	
	SCHRODER 68B	1	479-1503 SCHUBERT 72	1	19.	AHLIN 77B	1		1.6	ANL-E-433	
23.	DIBON 73B	1	485 BARBIELLIN 72	1	+(NECHARGED)					ANL-E-434	
	FRIEDMAN 72	1	500 RATNER 71B	1	31.-532	WHITMORE 75E	1		1.9	ANL-E-416	
	GOLDHABER 73C	1	505-1500 BERTIN 71	1	100	ERWIN 74B MULT	1		2.0	DEBOER 75	CS
24.	ALLABY 72	1	508 GIACOMELLI 75	1	200	ANZON 73C MULT	1		2.0-8.0	ANL-E-335	CS
	DOCO 61	1	511 ALBROW 73C	1	205	BARISH 74 MULT	1		2.2	FOWLER 56B	
	IOSCHOK 72	1	ALBROW 73D	1		WINKELMANN 73B	1		2.5	ANL-E-416	
	IWAI 73	1	ALPER 73D	1		ALPER 73D MULT	1		3.0	ABRAMS 76C	CS
	MUECK 72C	1	ALPER 73F	1	281	AMENDOLIA 75	1			ANL-E-416	ASYM,CS
	SCHRANKEL 75	1	BELLETTINI 73D	1	2359	AMENDOLIA 75	1			AUER 77	CS
	VONHOLT 76	1	KEPHART 75	1	+,GT,10PRONG					DEBOER 75	CS
25.	AZIMOV 75K	1	830 JONES 70B	1	132	BROMBERG 76 CS	1		3.3-7.7	GIDDENS 62B	
	NEUPERT 71	1	1030 ALPER 73D	1	205	WINKELMANN 73B	1		3.5	PARKER 73	
25.-200	BARTENEV 72F	1	ALPER 73F	1		MASS	1		3.6	BLOCK 56	
28.	ANDERSON 73F	1	CERN 73	1	400	BROMBERG 76 CS	1		3.7	HART 62	
	BURDETT 72	1	JOVANOVICH 74	1	+,GT,8PRONG				4.0	ANL-E-416	ASYM,CS
	CHEN 71	1	1050 BABECK 72	1	102	CHAPMAN 73 MASS,P	1			COLETTI 67	ANGP,
	ELLIS 68	1	BOGDAN 72	1	405	CHAPMAN 73 MASS,P	1				CS
	ELLIS 70B	1	1060 BARBIELLIN 72	1	+,GT,2PRONG					DEBOER 75	CS
	ELLIS 70C	1	GANGULI 72B	1	203	BIDENKO 76B P	1		4.2	JENNI 77	CS
	FOSTER 72	1	1070 RUSSER 73	1	+PRONG				5.5	ALEKSEEV 67	
	GOLDHABER 73C	1	1080 GIACOMELLI 75	1	102	COHEN 73 CS,MASS,	1		6.3	ANL-E-416	ASYM,CS
	MAMLON 72	1	KEPHART 75	1		MULT,P	1			ANL-E-419	ASYM,CS
	MANLON 72B	1	1440 JOVANOVICH 74	1	261	BELLETTINI 73	1			AUER 77	CS
	MAGNUSON 69	1	1470 BABECK 72	1	309	FNAL-239 CS	1			DEWAN 75	
	VONLINDER 71	1	1480 BANNER 73E	1	405	COHEN 73 CS,MASS,	1			DEBOER 75	CS
	WANDERER 70	1	BARBIELLIN 72	1		MULT,P	1		6.0-12.	ANL-E-434	CS,POL
29.	CONNOLLY 67B	1	2113 BELLETTINI 73	1					6.0-22.	GALBRAITH 65	
	ELLIS 69B	1	1500 ALBROW 72D	1	+N(PRONG)				6.4	ALEXANDER 66C	
30.	DIBON 73B	1	ALPER 73F	1	3.7-12303				7.3	JENNI 77	CS
45.	DIBON 73B	1	BABCOCK 72	1		ALBINI 75B	1		7.8	YAYLOR 65	
50.	AMMOSOV 72B	1	BELLETTINI 73D	1	12.	BLOBEL 74B MULT	1		7.8-26.	FOLEY 67B	
	PARI 71	1	CERN 73	1	19.-400	MALTSEV 74 P	1		7.9	FIREAUGH 68	
50.-300	SLATTERY 72	1	KEPHART 75	1	24.	BLOBEL 74B MULT	1		8.1	GINESTET 69	ANGP,
67.	ANTCHEVA 72C	1	RATNER 71B	1	26.	CLIFFORD 74B	1				CS
	FIALKOWSKI 72	1	1510 GIACOMELLI 75	1		GUTAY 73	1		9.4-28.	ASHMORE 68	
69.	AMMOSOV 72B	1	2050 AMENDOLIA 73	1		OCHIAI 74B	1		10.	ALMEIDA 69	
	BANDLOV 75	1	KEPHART 75	1		SCHREINEN 74C	1			BOHAI 77	CS
	LACH 73 CS,MULT	1	2100 GIACOMELLI 75	1	35.	BOGUSLAVSKII 72	1		10.-26.	BELLETTINI 65	
	PARI 71	1	10003-30000	1	42.-73000				10.-70.	WARAIZUMI 75B	CS
70.	SERP 71	1	YOBOH 73	CS 1		ALBINI 75B	1		12.	ANL-E-433	
70.-600	JONES 70B	1	? ALBROW 73F	1	60.	BROMBERG 76B CS,	1			BLOBEL 74B	CS
970.	ERICKSON 70	1	ALBROW 73G	1		MULT	1			VONMOLT 76B	CS
90.	JONES 70B	1	ALBROW 74D	1	65.	BABINTSEV 76 MULT	1		15.-60.	GORIN 73D	
90.-800	LYON 71D	1	ALEXANDER 72B	1	100	FNAL-156 ANGP,CS	1		20.-500	FNAL-104	CS
990.	LYON 71	1	ALPER 73C	1		MORSE 76 MULT	1		23.-280	KOHLER 75	
100	LACH 73 CS,MULT	1	AMENOLCIA 73 P	1	102	BROMBERG 76B MULT	1		24.	BLOBEL 74B	CS
	MORSE 75	1	ANTIPOLIN 73	1	150	FNAL-269 CS	1			BREITENLEHNE 63	
100-400	WHITMORE 76 CS,	1	ANTINUCCI 73B	1	200	ADAMOVICH 75 MULT,	1			VONHOLT 76B	CS
	MASS,MULT,P	1	BELLETTINI 73C	1		P	1		30.-200	LACH 75	
100-1000	JONES 72	1	JUGGETT 71B	1		ANTONOVA 74F MULT	1		42.	APOKIN 76	
10C-1600	BELLETTINI 75 CS,	1	BOGOLIO 72	1		ANZON 73D MULT	1		60.	AYRES 76C	CS
	MULT,P,PT	1	BRITISHSCANO 72	1		BROMBERG 77C MULT	1			CARROLL 74C	CS
>100	BLSSIAN 71	1	CAPOEVIELLE 73	1		WEINGARTEN 76 P	1		52.	APOKIN 76	
	JONES 70C	1	CAPELL 73	1	205	BARISH 73D MULT	1		952.	JACOB 74F	
102	BROMBERG 73C	1	CAPILUPPI 73B	1		BARISH 74 MULT	1		69.	BUMAZSHNOV 74	P
	CHAPMAN 73	1	CERN-NA-301 FV	1		FNAL-289 CS	1		72.	AYRES 76C	CS
	COHEN 73B	1	CERN-R-107	1		LUDLAM 73 MULT,P	1		100	AYRES 76C	CS
	HOMMA 76	1	COCCONI 43B	1		TRILLING 76B MULT	1			BERGER 74C	MULT
	SLATTERY 73	1	COCCONI 74B	1	212-2110	DELL 75	1			CARROLL 74C	CS
200	AZIMOV 75K	1	DENADE 74	1	281	ALBROW 74B	1			MORSE 76	CS
	CHILDRESS 73	1	OINCOVSKI 74	1	296	THOME 77	1		102	BROMBERG 73	CS
	FNAL-260	1	DUNNCODIE 70	1	300	SHENG 75 MULT	1			BROMBERG 74B	CS
	FNAL-557	1	ERNE 73	1		WEINGARTEN 76 P	1			CHAPMAN 72 MASS,P,	
205	CKARLTCN 72	1	FERBEL 74 CS,MANY	1	303	LUDLAM 73 MULT,P	1				PT
	CHARLTON 72B	1	FERBEL 75C	1	460	FNAL-138	1			CHAPMAN 73 MASS,P,	
	LACH 73 CS,MULT	1	FNAL-246	1							PT

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)		
*ANYTHING (CONT.)			*GAMMA ANYTHING			*E- ANYTHING (CONT.)			*N(PION) ANYTHING		
140	AYRES 76C	CS	11.	ANL-E-371		1440	CERN-R-605		102	STJX 77	MASS,MULT,
150	CARROLL 74C	CS	12.	CAMPBELL 73B			CERN-R-606				P,PT
	FNAL-299	CS		JAGER 74B		1480	BUSSER 74C		400	STJX 77	MASS,MULT,
175	AYRES 76C	CS		SWANSON 73			BUSSER 74F				P,PT
175-400	BARTENEV 74			SWANSON 73B			BUSSER 76B		*PION PRONG		
200	CARROLL 74C	CS	23.-1500	NEUHOFER 71B			BUSSC. 76F		1030	ELLIS 77	
	GUSTAFSON 73	CS	24.	BEIER 76B	PT		CERN-R-108		*PION ANYTHING		
205	TRILLING 74B	CS	50.	THERIGT 73	PT	1500	BLOCK 77		28.	PANVINI 72	
	WHITMORE 74	CS, MULT	51.-401	CARON 74B			BLOCK 77C		200	ELLIS 77	P
		MULT	69.	BORATAV 76	CS,		BUSSER 75D		300	ELLIS 77	P
281	AMALDI 73C				MULT,P	2050	BUSSER 75D		400	ELLIS 77	P
	DEKERNET 77C			FRANCESOVIET 74	P	2070	BUSSER 76B		1480	COMBEIGBE 76B	
281-1500	AMALDI 73D			GRANET 73			BUSSER 76F		*N(PI+) ANYTHING		
	AMENCELIA 73C		100	ALSTONGARNJO 75			CERN-R-108		12.	VONMOLT 76B	MULT
291-1480	AMENCELIA 73B				CS,	?	BANNER 75		24.	VONMOLT 76B	MULT
293	AMALDI 76				P,PT		BAUM 75		*N(PI0) OPRONG		
296	EGGERT 75			WARD 76	CS,P		CERN-R-B3ET		69.	BLUMENFELD 75	
300	DAO 74C	CS,MULT	100-500	FNAL-C954	ANGP,	*E+ ANYTHING					MULT
	FINESTENE 74	CS			MASS	*N(PI0) PRONG			*N(PI0) PRONG		
	FNAL-342		102	BROMBERG 74B	CS,P,	26	BROWMAN 76B		69.	BLUMENFELD 75	
	GUSTAFSON 73	CS			PT	74	MISCHKE 76B				MULT
405	BROMBERG 73	CS		CHAPMAN 73C	CS,	80	BROWMAN 76B	CS			
	BROMBERG 74B	CS			MULT,P,PT	1.5	MISCHKE 76B		*N(PI3) NIPRONG		
	CHAPMAN 73	MASS,P,	200	ANDERSEN 74E		10.	BEIER 75	CS	100	ALSTONGARNJO 75	
		PT	205	JAGER 74	CS,MASS,		BEIER 76	PT			MULT
498	AMALDI 76				MULT,P,PT		BEIER 76C	PT	*N(PI0) ANYTHING		
500	FNAL-207	CS	293	BUSSER 76F		15.	BEIER 76	CS	12.	VONMOLT 76B	MULT
501	EGGERT 75		300	FNAL-266	ANGP		BEIER 76	PT	24.	VONMOLT 76B	MULT
511	AMALDI 73C			FNAL-281			BEIER 76C	PT	1050	CANIEL 73	
	DEKERNET 77C			FNAL-303		24.	BEIER 75	CS	*N(PI-) ANYTHING		
1360-3C000				SMENG 74	CS,MULT,		BEIER 76	PT	1500	AMALDI 75B	
	TCOH 72				P		BEIER 76C	PT	*PI+ DEUT		
1060	AMALDI 76		303	DAO 73B	CS,P		BEIER 76C	PT	.35-2.6	MEINZ 68	
1080	DEKERRET 77C			DAO 73F		100	FNAL-284	ANGP	.65-1.9	DEKKERS 64	
1090	EGGERT 75		375	THERIGT 73	PT		FNAL-300	ANGP	.95	ABDISCHER 76B	
1480	AMALDI 76		405	BROMBERG 74B	CS,P,	203	FNAL-284	ANGP	.98	FOCARDI 65	
1500	ALBROW 76B				PT		FNAL-303	ANGP	1.0	ABDISCHER 76B	
	DEKERRET 77C		479	GRESSER 74			FNAL-303	ANGP		DOLNICK 70	
1510	EGGERT 75		485	NEUHOFER 72		293	BUSSER 76B		1.0-1.3	MESHCHERYAKO 55	
2090	AMALCI 76		498	BUSSER 76F			BUSSER 76F		1.0-1.4	ALBROW 71C	
2100	EGGERT 75		500	FNAL-207		303	FNAL-284	ANGP	1.1	ABDISCHER 76B	
?	DELLETTINI 73B		1050	DANIEL 73			FNAL-303	ANGP		ABDISCHER 76B	
	CARROLL 76E	CS	1060	GRESSER 74		400	FNAL-284	ANGP		ABDISCHER 76B	
	LONGO 56			NEUHOFER 72			FNAL-300	ANGP	1.2-1.3	MESHCHERYAKC 57C	
*INELASTIC			1070	BUSSER 76F		498	BUSSER 76B		1.2-1.5	RICHARDSERRE 70	
1.7	THIRION 73		1080	DARRILLAT 76B			BUSSER 76F		1.3	GUZHAVIN 64	
2.2	FOWLER 56E		1480	BUSSER 76F			CERN-R-138		1.6	HUGHES 56	
3.6	BLOCK 56			NEUHOFER 72		500	FNAL-300	ANGP	1.7	BUGG 64	
12.	BLOBEL 74B	CS	1490	GRESSER 74		1070	BUSSER 76B			CHAPMAN 64	
20.-60	GANGULI 74G	CS	1500	DARRILLAT 76B			BUSSER 76F		2.1-4.8	DEKKERS 64	
24.	BLOBEL 74B	CS		FINOCCHIARO 74			CERN-R-108		2.1-8.9	COCCONI 62	
102	BROMBERG 73	CS	1510	DELL 75		1440	CERN-R-605		2.2	EISNER 65	
	BROMBERG 74B	CS	2070	BUSSER 76F			CERN-R-606		2.3-3.3	DEKKERS 63	
205	BARISH 74	CS	?	CAREY 73		1480	BUSSER 74F		3.0-5.0	ANDERSON 74G	ANGP,
	TRILLING 74B	CS		CERN-P-B06T			BUSSER 76B				CS
405	BROMBERG 73	CS		GOTTFRED 72			BUSSER 76F			ANDERSON 74F	
	BROMBERG 73	CS	*NIGAMMA) ANYTHING				CERN-R-108		3.4-12.	ANDERSON 68B	
	BROMBERG 74B	CS	212-2110	DELL 75		1500	BLOCK 77			ANDERSON 70B	
?	LEEFRANZINI 73B		*GAMMAS ANYTHING				BLOCK 77C		3.7	SMITH 61	
*DD < 6PRONG >			7	DELL 75B		2070	BUSSER 76B		4.0	COLETTI 67	ANGP,
12.	BENECKE 74	ANGP,		YUAN 73			BUSSER 76F				CS
		MASS,P	*GAMMA(S) ANYTHING				CERN-R-138		4.0-12.	ANDERSON 71C	
24.	BENECKE 74	ANGP,	300	STEVENS 75		?	CERN-R-B3G7		5.0	RUDDICK 68	ANGP
		MASS,P	*E- ANYTHING			*MU- ANYTHING			6.6	COLTON 68B	ANGP,
205	BARISH 74	CS	4.0	ANL-E-415	PT	33.-300	IMLAY 74B	CS,P			CS
*DD < 8PRONG >			8.0	ANL-E-415		100	FNAL-284	ANGP	12.	LAMB 68	
12.	BENECKE 74	ANGP,	10.	BEIER 76C	PT		FNAL-303	ANGP	12.-23.	BAKER 64	
		MASS,P	12.	ANL-E-415		203	FNAL-284	ANGP	21.	ALLABY 69	
24.	BENECKE 74	ANGP,	15.	BEIER 76C	PT		FNAL-303	ANGP	?	SPULLER 75	
		MASS,P		BNL-671		300	FNAL-284	ANGP	*PI+ ,GT.8P		
205	BARISH 74	CS	24.	BEIER 76B	PT		FNAL-303	ANGP	69.	BLUMENFELD 75	P
*DD < 4PRONG >				BEIER 76C	PT	400	FNAL-284	ANGP	*PI+ PRONG		
12.	BENECKE 74	ANGP,		BEIER 76C	PT		FNAL-303	ANGP	69.	BLUMENFELD 75	P
		MASS,P		BNL-650	ANGP,P	500	FNAL-300	ANGP	*PI+ NIPRONG		
24.	BENECKE 74	ANGP,	100	FNAL-284	ANGP	1440	BIRGE 72		28.	SCHUEBELIN 75	
		MASS,P		FNAL-300	ANGP	*MU+ ANYTHING			*PI+ PRONGS		
205	BARISH 74	CS	200	FNAL-284	ANGP	33.-300	IMLAY 74B	CS,P	1470	ALBROW 77	
*DD < 2PRONG >				FNAL-300	ANGP	100	FNAL-284	ANGP	*PI+ ANYTHING		
12.	BENECKE 74	ANGP,	281	BUSSER 75D			FNAL-300	ANGP	.26	BROWMAN 76B	
		MASS,P	293	BUSSER 76B		203	FNAL-284	ANGP	.48-.66	NEGANOV 57	
24.	BENECKE 74	ANGP,		BUSSER 76F			FNAL-303	ANGP	.80	BROWMAN 76B	P?
		MASS,P		CERN-R-108		303	FNAL-284	ANGP	3.7-400	WHITMORE 75C	
205	BARISH 74	CS	300	FNAL-284	ANGP		FNAL-303	ANGP	3.7-1500	ROSSI 74	
*DD < ANYTHING >				FNAL-303	ANGP	400	FNAL-284	ANGP	3.7-2110	TAYLER 75B	
?	MUKHIN 74	ANGP,CS,	400	FNAL-284	ANGP		FNAL-300	ANGP	4.0	BEIER 76C	CS
		MASS		FNAL-300	ANGP	502	FNAL-300	ANGP	4.0-20.	BEIER 76	CS
*GAMMA NI(CHARGE)			498	BUSSER 76B		1440	BIRGE 72		6.0	ANL-E-307	FN
66.	FRANCESOVIET 74			BUSSER 76F		*MUON ANYTHING				ANL-E-393	ASYM
		MULT		CERN-R-138		?	SHARP 72			ANL-E-399	ASYM
*GAMMA NI(PRONG)			500	FNAL-300	ANGP	*PI(N(S) ANYTHING				BEIER 76B	CS
281	KEPHART 76		511	BUSSER 75D		28.	LARSON 75			BEIER 76C	CS
511	KEPHART 76		1070	BUSSER 76B		*PI(NS ANYTHING				KLEM 76	ASYM
1080	KEPHART 76			BUSSER 76F		1500	JANSCO 77		6.6	GELLERT 72B	
1500	KEPHART 76			CERN-R-138					8.0	BEIER 76B	CS
2050	KEPHART 76		1080	BUSSER 75D						RHEL-112	ANGP,
											ASYM,P

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P P --> (CONT.)

*P1+ ANYTHING (CONT.)
10. BEIER 76D CS
BEIER 76D CS
SLAC-E-109 ANGP
12. ANL-E-367 FV
ANL-E-399 ASYM
ANL-E-408 ASYM
BEIER 76D CS
BEIER 76D CS
BLOBEL 74B CS,
MASS,P,PT
KLEM 76
14. AMALDI 75E
SLAC-E-109 ANGP
15. BEIER 76D CS
19. AMALDI 75E
REFER 76D CS
24. AMALDI 75E CS,P,
PT
BEIER 76E CS
BEIER 76D CS
BLOBEL 74B CS,
MASS,P,PT
28. ANDERSON 74D
SIMS 72
40. FNAL-324 ANGP
80. FNAL-118A ANGP
69. AMMOSOV 76B PASS,
P,PT
BLUMENFELD 75 P
BORATAV 76 P
DERRE 74B MULT,P
80. FNAL-324 ANGP
100 ERWIN 74 P
FNAL-116A ANGP
FNAL-284 ANGP
FNAL-300 ANGP
100-400 MUSGRAVE 75
102 BRCMBERG 74C MULT,
P,PT
BROMBERG 76 CS,P
COHEN 73 ANG,P
>119 JACOB 74F
150 BEIER 76D CS
BEIER 76D CS
FNAL-118A ANGP
FNAL-299 ANGP
160 FNAL-324 ANGP
200 ANTREASYAN 77B PT
ANTREASYAN 77C PT
ELLIS 77 P,PT
FNAL-284 ANGP
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106 CAREY 74C
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MILLER 75B AMP,
PCL
YOKOSAWA 75B AMP
ZOLIN 72
4.0-23. LINDENBAUM 61 CS
4.4 PISERCHIO 62
5.0 BLUE 62
CERN-S-144 AMP,
ANGP
LUNDBY 72
PIERARAO 76 AMP
5.0-11. VOYVODOV 60B
5.3-13. AKERLOF 67
5.0-2000 GOULIANOS 76 AMP,
ANGP,CS
5.1 ABSHIRE 73
ABSHIRE 74
ABSHIRE 74C
BOOTH 68
RUST 73
5.5 ALEXANDER 67
6.0 ABSHIRE 75 ANGP,
PCL
ANL-E-366 ANGP,
PCL
ANL-E-372
ANL-E-381 ANGP
ANL-E-385 PCL
ANL-E-402 PCL
ANL-E-402 AMP
ANL-E-418 ASYM
ANL-E-419 ANGP,
PCL
ANL-E-431 ANGP,
PCL
AUER 76B ANGP
AUER 77 ASYM,CS
BORGHINI 70 PCL
DEREGEL 73
DIESOLD 75 PCL
DURAND 76B AMP,
PCL
FERNOW 74 ANGP,
ASYM
HICKS 74 PCL
KLEM 77 ANGP,POL
KPTSCH 74C POL,PT
MITTINEN 75
MILLER 75B AMP,
PCL
OFALLEN 74 ANGP
PARKS 66
RATNER 77 POL
RUST 73 ANGP,POL
RUST 75 PCL
YOKASAWA 74 ANGP,
PCL
YOKOSAWA 75B AMP

P P --> (CONT.)

*2P (CONT.)
6.0-12. ANL-E-432 POL
BORGHINI 67 PCL
6.0-17. BORGHINI 71E
OLIVIER 71
6.0-30. EDELSTEIN 71
6.4 KHACHATURYAN 64
6.6 COLTON 68B ANGP,
CS
6.8-20. FOLEY 63
6.9 ALEXANDER 68C
7.0 ABSHIRE 74C AMP,
ANGP,CS,PCL
RUST 73 ANGP,POL
7.0-20. FOLEY 63 ANGP,CS
FOLEY 63C
7.0-500 FNAL-158A ANGP
7.0-1500 GOTSMAN 76B ANGP
7.1 TSYGANOV 62
7.1-12. ALLABY 68C
ALLABY 68F
7.8 TAYLOR 65
8.0 ANL-E-416 ASYM
8.0-12. CREAR 66
8.0-70. BARTENEV 72B
BEZNOGIKH 73C
NIKITIN 72
8.0-400 FNAL-381 AMP,ANGP
OLSEN 74 ANGP,CS
8.1 GINESTET 69 ANGP,
CS
8.1-12. ALLABY 68
8.1-21. ALLABY 67
SACHARIDIS 69
8.5-18. HARTING 65
9.0 BAGLIN 75 ANGP
9.0-70. BEZNOGIKH 72
9.0-300 BARTENEV 74B CS
9.2 SEB 63
9.3 KANAVETS 64
9.4 LYUBIMOV 63
MAPKOV 60
SEB 62
9.7-266D STOH 74
9.9 BOGACHEV 60
10. ALPEIDA 68
BELLETTINI 66
BRANDENBURG 75
CAFNEGIE 75C ANGP
CERN-S-144 ANGP
ANGSON
10.-17. BORGHINI 71C
10.-24. ALLABY 71
10.-26. BELLETTINI 65
11.-25. FOLEY 65
11.-32. COCCONI 65
12. ABE 76C
ABSHIRE 74C
ANL-E-366 ANGP,
PCL
ANL-E-418 ASYM
ANL-E-421
ANL-E-434 ANGP,
PCL
ANL-E-435
BLOBEL 74B CS
BOZKI 76
DURAND 76B AMP,
PCL
IOSCHKOV 73 CS,
MANY,P
MIETTINEN 77
RUST 73
12.-26. BELLETTINI 62
DIDDENS 63B
12.-1500 PHILLIPS 73B AMP,
ANGP
13.-23. DIDDENS 62C
13.-28. MA 65B
14. WELL 68
15. CSEJTHEYBART 64
15.-33. BNL-642 ANGP
CARRIGAN 70
15.-60. DENISOV 71 CS
16. CZAPEK 62
DEREGEL 73
17. ALLABY 66
19. ALLABY 68B
BOGGILD 69 CS
BOGGILD 71C
19.-21. ALLABY 68B
20. ABRAHAM 62
CERN-HA-007 ANGP
21. ALLABY 68B
24. BLOBEL 74B CS
BREITENLECHNE 63
CERN-S-141 POL

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)			P P --> (CONT.)		
+2P (CONT.)			+2P (CONT.)			+2P (CONT.)			+P +GT.10PRONG (CONT.)		
	CVIJANOVIC 61B		80.-200	BARTENEV 75	AMP,	1080	HOLDER 71D		405	BROMBERG 74E	MASS,
	CZAPEK 62				ANGP	1440	CERN-H-B05				P
	DOSCPEK 73	CS,	100	AKERLOF 75	ANGP,	1490	AMALDI 76C		+P +GT.8PRONG		
		MANY,P			CS	1530	BOHM 74I		69.	BLUMENFELD 75	P
	LEHMANN 64			AKERLOF 75B	ANGP		DEKERRET 76		+P +GT.6PRONG		
25.-200	BARTENEV 72E			AKERLOF 76	ANGP,		DEKERRET 77		102	VANDERVELDE 74B	P
	FNAL-396	ANGP			CS	2050	CERN-H-B05		405	VANDERVELDE 74B	P
28.	CCANCELLY 67			ANDERSON 76C	ANGP,		FLUGGE 74		+P +GT.5PRONG		
29.	ANTIPOV 76B	ANGP,			CS		KWAN 75		102	VANDERVELDE 74B	P
		CS		ANKENBRANDT 75			NAGY 75B		405	VANDERVELDE 74B	P
	ANTIPOV 76C	ANGP			AMP,	2070	AMALDI 76C		+P +GT.3PRONG		
30.	GESHKOV 71	AMP,			ANGP	?	ALLABY 61		102	VANDERVELDE 74B	P
		ANGP		AYRES 75	ANGP		ASHMORE 65		405	VANDERVELDE 74B	P
	GESHKOV 76	ANGP,		AYRES 76	ANGP		ASHMORE 65B		+P +GT.2PRONG		
		CS		AYRES 76C	AMP,		BASKIR 57		102	VANDERVELDE 74B	P
30.-70.	CHERNEV 71				ANGP,CS		BATTY 67		405	VANDERVELDE 74B	P
30.-400	FNAL-313	POL		CERN-HA-009	AMP,		BATTY 67		+P +GT.1PRONG		
40.	BRUNETON 75	POL			ANGP		BERETVAS 68		102	VANDERVELDE 74B	P
	CERN-HA-007	ANGP		CHAMBERLAIN 77			BIRD 61		405	VANDERVELDE 74B	P
	CECL 73B				PCL		BIRD 61		+P PRONG		
40.-400	GROSS 74B	AMP,		FNAL-061	PCL		BLANPIED 55		28.	SCHUEBELIN 73	
		ANGP,CS		MEYER 74	ANGP		BOURRELY 73B		69.	BLUMENFELD 75	P
42.	APCKIN 76			MEYER 76	ANGP		BYSTRICKY 69		205	BARISH 73C	ANGP
43.	ANTIPOV 74	ANGP	102	BROMBERG 73	ANGP		CARLSON 73		+P N(PRONG)		
	ANTIPOV 76B	ANGP,		BROMBERG 74B	ANGP,		CATILLON 68		12.	BLOBEL 75	MULT
		CS			LS		CAVERZASIO 61		19.	BOGGILD 74	MULT+P,
	ANTIPOV 76D	ANGP	110	FNAL-CC7	ANGP		CAVERZASIO 63				PT
	NURUSHEV 74B	ANGP,	>119	JACOS 74F			CERN-H-A31			BOGGILD 75	CS,
			125	ANKENBRANDT 75			CHAMBERLAIN 57				MASS
45.	BRUNETON 76	AMP			AMP,		CHRISTMAS 63		24.	BLOBEL 75	MULT
	BRUNETON 76B				ANGP		DEBOER 76C		28.	SCHUEBELIN 73B	
	GAICOT 75B		140	ANDERSON 76C	ANGP,		DERRICK 75			SCHUEBELIN 75	
	GAIDOT 76	ANGP,			CS		ENGELS 63		102	BARSHAY 74D	MASS,
		POL		AYRES 75	ANGP		FIELDS 58B				MULT
	KAZARINOV 76	ANGP,		AYRES 76	ANGP		FISCHER 55		205	ALBINI 75B	MASS,
		CS		AYRES 76C	AMP,		GRIFFITH 63				MULT
	LEHAR 74	POL			ANGP,CS		HAMERMESH 55			BARISH 73C	MULT
	PIERRARD 76B	POL		FNAL-007	ANGP		HARTING 58			BARSHAY 74D	MASS,
50.	AKERLOF 75	ANGP,	150	ANKENBRANDT 75			HEE 63				MULT
		CS			AMP,		HOLT 58			WHITMORE 73B	MULT
	AKERLOF 76	ANGP,			ANGP		HWANG 60		405	ALBINI 75B	MASS,
		CS		FNAL-061	PCL		JAMIE 67				MULT
	ANDERSEN 76C	ANGP,		FNAL-255	ANGP		JARVIS 63			BARSHAY 74D	MASS,
		CS	170	FNAL-C07	ANGP		JARVIS 64				MULT
	ANTIPOV 76B	ANGP,	175	ANDERSON 76C	ANGP,		JARVIS 65		+P PRONGS		
		CS			CS		JARVIS 68		1470	ALBACW 77	
	ANTIPOV 76D	ANGP		AYRES 75	ANGP		JENNI 77	ANGP	+P ANYTHING		
	AYRES 75	ANGP		AYRES 76	ANGP		JEONG 60		0.-300	FNAL-317	ANGP,
	AYRES 76	ANGP		AYRES 76C	AMP,		JOHNSTON 58				MASS
	AYRES 76C	AMP,			ANGP,CS		JOHNSTON 59		±17	NAGEL 74	
		ANGP,CS	200	AKERLOF 75	ANGP,		JOHNSTON 59B		3.7-1500	ROSSI 74	
	CHERNEV 71B				CS		KANE 54		3.7-2110	TAYLOR 75B	
	DEVENSKI 71			AKERLOF 75B	ANGP		KAZARINOV 65		4.0	BEIER 76C	CS
	FNAL-007	ANGP		AKERLOF 76	ANGP,		KIKUCHI 60		4.0-20.	BEIER 76	CS
	FNAL-061	POL			CS		KNECHT 66		6.0	ANL-E-367	FV
	GESHKOV 71	AMP,		FNAL-177A	ANGP		KRUSE 56			ANL-E-383	ASYM
		ANGP	201	HARTMANN 77B			LAMEHIRACHTI 74			ANL-E-399	ASYM,
	GESHKOV 76	ANGP,	205	BARISH 74	CS		LEFRANCOIS 63				PCL
		CS		HYMAN 73	ANGP		LIMON 68			AYRES 76E	ASYM,CS,
50.-150	CERN-HA-006	POL		TRILLING 74B	ANGP,		MEADOW 66				MASS
50.-175	AYRES 76D	ANGP,CS			CS		NISIMURA 61			BEIER 76C	CS
50.-200	FNAL-G69A	ANGP	244-1540	BARBIELLINI 72			NISIMURA 63			BEIER 76D	CS
	FNAL-C96	ANGP	245-1550	BARBIELLIN 72B			OFALLON 77		6.6	GRILLET 72B	
50.-400	BARTENEV 73B	AMP,	257	NAGY 75B			OREAR 65		7.0-500	FNAL-198A	ANGP,
		ANGP,CS	281	ALBROW 74E			PENDROM 59				MASS
50.-500	PILACHOWSKI 74			FLUGGE 74			ROTH 65		8.0	BEIER 76C	CS
		AMP		KWAN 75			RUSS 74			RHEL-112	ANGP,
50.-2000	KASMAN 75B	AMP,	292	ALBROW 76			SANADA 67				ASYM,P
		ANGP	293	BOHM 74I			SIMMONS 56		8.0-400	BARTENEV 73	ANGP
52.	APCKIN 76		300	COOL 73B			SLOBODRIAN 68		9.0-300	ABE 74	MASS
60.	ANTIPOV 76B	ANGP,		DAO 74C	CS		STORMS 54		10.	BEIER 76D	CS
		CS		FIRESTONE 74	ANGP,		STROLIN 73			BEIER 76D	CS
	BROMBERG 76E	ANGP,			CS		TAYLOR 60			SLAC-E-105	ANGP
		CS		SCHAMBERGER 75			THORNDIKE 60		12.	ANL-E-367	FV
	CERN-HA-007	ANGP	385	ALBROW 76			THORNDIKE 60B			ANL-E-399	ASYM,
65.	ANTIPOV 76B	ANGP,	400	FNAL-177A	ANGP		TINLOT 61				PCL
		CS	405	BROMBERG 73	ANGP		VASILEVSKII 64			ANL-E-40E	ASYM
	ANTIPOV 76C	ANGP		BROMBERG 74B	ANGP,		WATASE 55			BEIER 76E	CS
69.	OTKINOWSKI 74				CS		WIGAN 68			BEIER 76D	CS
		ANGP	450-1400	HOLDER 71C			YOKOSAWA 74B			BLOBEL 74B	CS,
73.	ANDERSON 76C	ANGP,	495	HOLDER 71D			YOUNG 63				MASS,P,PT
		CS	501	CERN-H-B05		+P DEUT				BLOBEL 75	MASS
	ANKENBRANDT 75		567	ALBROW 76		30.	ZAYACHKI 71C			SCHMAEL 74	
		AMP,	598	AMALDI 76C		+P N(HADRON)			14.	AMALDI 75E	
		ANGP	500	FNAL-207	CS	12.	BLOBEL 75	MULT		SLAC-E-105	ANGP
	AYRES 75	ANGP		HOLDER 71		24.	BLOBEL 75	MULT	15.	BEIER 76D	CS
	AYRES 76	ANGP	500-1500	AMALDI 71B		+P N(CHARGED)			19.	AMALDI 75E	
	AYRES 76C	AMP,	501	BOHM 74I		12.	BENECKE 74	MASS,		BOGGILD 75	P,PT
		ANGP,CS	511	ALBROW 74E				MULT	20.	BEIER 76C	CS
	GALYAEV 73		557	ALBROW 76		24.	BENECKE 74	MASS,	24.	AMALDI 75E	CS,P,
	GESHKOV 71	AMP,	659	ALBROW 76				MULT			PT
		ANGP	779	ALBROW 76		28.	ANDERSON 75			BEIER 76C	CS
	GESHKOV 76	ANGP,	1030	CERN-H-B05		+P +GT.10PRONG				BEIER 76D	CS
		CS	1060	AMALDI 76C		102	BROMBERG 74B	MASS,		BLOBEL 74B	CS,
80.	CERN-HA-007	ANGP	1070	BOHM 74I				P			MASS,P,PT
	FNAL-007	ANGP								BLOBEL 75	MASS

REACTION/MOMENTUM INDEX (CONT'D)

P P ---> (CONT.)

+P ANYTHING (CONT.)

	SCHMARZ 74	
25.-200	FNAL-366	ANGP,P
28.	ANDERSON 76B	
	ELLIS 70	
	GUTAY 76	
	HCMMA 73	
	LAASANEN 75	
	LAASANEN 77	
	LAZARUS 74	
	RAMANAUSKAS 73	
	RAMANAUKAS 74	
30.	ELLIS 70	
30.-400	FNAL-313	POL
40.	FNAL-324	ANGP
40.-260	ABE 75I	
	SANNES 73	
42.	AFCKIN 77	
50.	FNAL-118A	ANGP
50.-175	ANDERSON 76F	P
	ANDERSON 76R	CS,P
50.-400	FNAL-522	PCL
	SANNES 75	ANGP,P
51.-401	ABE 73	
52.	AFCKIN 77	
65.	AKIMOV 77	ANGP,P
69.	AMNGSOV 76E	P
	BIALKOWSKA 76	
	ANGP,CS,MASS,	
	MULT,P	
	BIALKOWSKA 75	CS,
	MASS,MULT,P	
	BLUMENFELD 75	
	DERRE 74B	MULT,P
80.	FNAL-324	ANGP
130	FNAL-118A	ANGP
	FNAL-284	ANGP
	FNAL-300	ANGP
	TAUTZ 76	ANGP,CS,
		MASS
	VANDERVELDE 73B	
100-400	MESGRAVE 75	
	SCHAMBERGER 75	
	ANGP,	
	CS,MASS	
102	BACHBERG 76B	ANGP,
	P	
	CCOPER 76D	ANGP
	DEBRIEN 74	MASS,
	MULT,P	
	VANDERVELDE 74B	
	MASS	
>119	JACOB 76F	
140	AYRES 76B	ANGP,CS,
	MASS	
150	BEIER 76D	CS
	BEIER 76O	CS
	FNAL-118A	ANGP
	FNAL-259	ANGP
154	AKIMOV 77	ANGP,P
160	FNAL-324	ANGP
175	AYRES 76B	ANGP,CS,
	MASS	
	GOGGI 75	MASS
200	ANTREASYAN 77C	PT
	ELLIS 77	P,PT
	FNAL-284	ANGP
	FNAL-300	ANGP
	TAUTZ 76	ANGP,CS,
	MASS	
205	BARISH 74J	MASS,P,
	PT	
	KAFKA 74	
	TRILLING 76B	CS,
	MASS	
	VANDERVELDE 74B	
	MASS	
	WHITMORE 73B	ANGP,
	MASS,P,PT	
	WHITMORE 74	CS,
	MULT	
	WHITMORE 76B	ANGP,
	CS,MASS,P,PT	
	WINKELMANN 73B	
	MASS	
250	BEIER 76D	CS
	BEIER 76O	CS
	FNAL-118A	ANGP
260	GOGGI 75	MASS
	OLSEN 74	MASS
281	ALBROW 74E	
	ALPER 75	
	FRISCH 74	
288	CAPILUPPI 73	
	CAPILUPPI 74	
291	ALPER 74	

P P ---> (CONT.)

+P ANYTHING (CONT.)

292	ALBROW 76	
300	ANTREASYAN 77C	PT
	ELLIS 77	P,PT
	FNAL-284	ANGP
	FNAL-300	ANGP
	FNAL-343	
	CHILDRESS 74	
303	DAC 73	P,PT
372	AKIMOV 77	ANGP,P
385	AKIMOV 74B	CS
	ALBROW 76	
400	ANTREASYAN 77C	PT
	DEBRICK, 74	MASS,
	MULT,P	
	ELLIS 77	P,PT
	FNAL-284	ANGP
	FNAL-300	ANGP
	SEIDL 73	
	VANGERVELDE 74B	
	MASS	
476-1500	RATNER 74B	
497	ALBROW 76	
498	ALPER 73B	
	ALPER 74	
	CAPILUPPI 73	
	CAPILUPPI 74	
500	FNAL-207	
	FNAL-300	ANGP
511	ALBROW 73	
	ALBROW 74E	
	ALPER 75	
	BARBER 73B	
557	ALBROW 76	
655	ALBROW 76	
779	ALBROW 76	
1030	ELLIS 77	
1080	ALBROW 76	
	ALPER 74	
	CAPILUPPI 73	
	CAPILUPPI 74	
1080	ALBROW 73	
	ALPER 75	
	BARBER 73B	
1480	ALBROW 76	
	ALPER 73B	
	ALPER 74	MULT,P
1500	ALPER 75	
	CAPILUPPI 73	
	CAPILUPPI 74	
	FRISCH 74	
	JARLSKOG 75	
	LCCAMA 76B	
1510	ALBROW 73	
	BARBER 73B	
2070	ALBROW 76	
2090	ALBROW 73	
	BARBER 73B	
	CAPILUPPI 74	
	ALPER 74	
2110	ALPER 75	
	CERN-R-207	
	DERRICK 75	
	FNAL-236A	ANGP
	FNAL-321	ANGP,
	MULT	
	GOULIANOS 75	ANGP,
	MASS	
	STROYNOWSKI 75	
+P OD < NUCLEON APION >		
19.	BOGGILD 75	CS
+P OD < N 2PI+ PI- >		
19.	BLOMQVIST 75D	
	BOGGILD 75	CS
+P OD < N PI+ >		
12.	BOCKMANN 74	ANGP,
	MASS	
	HOFMANN 76	CS
19.	BLOMQVIST 75D	
	BOGGILD 75	CS
24.	BOCKMANN 74	ANGP,
	MASS	
	HOFMANN 76	CS
	DEKERRET 76B	
	DEKERRET 76D	
	BROLL 74	
+P OD < N(1ADRON) >		
12.	BLOBEL 75	MULT
24.	BLOBEL 75	MULT
+P OD < LAMBDA K+ >		
12.	HOFMANN 76	ANG,
	ANGP,CS,MASS	
24.	HOFMANN 76	ANG,
	ANGP,CS,MASS	

P P ---> (CONT.)

+P OD < LAMBDA K+ > (CONT.)

45.	GOGGI 75	ANGP,CS
53.	GOGGI 75	ANGP,CS
?	HOFMANN 76	ANG,
	ANGP,CS,MASS	
+P OD < DEL++ PI- >		
69.	DENEGRI 75	ANG
+P OD < P PI3 >		
12.	BOCKMANN 74	ANGP,
	MASS	
19.	BOGGILD 75	CS
24.	BOCKMANN 74	ANGP,
	MASS	
+P OD < ANYTHING >		
12.	BENECKE 74	MASS
	BLOBEL 75	MASS
	BENECKE 74	MASS
24.	BLOBEL 75	MASS
	BLOBEL 75	MASS
+P OD < NUCLEON PION >		
19.	BOGGILD 75	CS
+P OD < NUCLEON 2PIONS >		
19.	BOGGILD 75	CS
+P OD < P PI+ PI- >		
12.	BLOBEL 77	DWE,
	MASS,P,PWA	
	HOFMANN 76	CS
19.	BLOMQVIST 75D	
	BOGGILD 75	CS
24.	BLOBEL 77	DWE,
	MASS,P,PWA	
	HOFMANN 76	CS
69.	DENEGRI 75	ANGP,
	ANG	
235	HYMAN 73	ANGP,CS,
	MASS
1050	GOGGI 75	ANGP,
	MASS
1089	WEBB 74B	
+P OD < NEUTRON1 >		
12.	BLOBEL 75	MULT
24.	BLOBEL 75	MULT
+P OD < P 2PI+ 2PI- >		
19.	BOGGILD 75	CS
+P OD < NUCLEON 3PION >		
19.	BOGGILD 75	CS
+N NEPRONG1		
1500	GOGGI 75	
+N ANYTHING		
4.3-4.9	REEDER 75	
4.3	BJORK 76	
4.5	BJORK 76	
269	ENGLER 74B	
303	FNAL-404	P,PT
400	FNAL-404	P,PT
498	ENGLER 74B	
	FLAUGER 76	
1060	ENGLER 74B	
1070	FLAUGER 76	
1400	FLAUGER 76	
1500	ENGLER 74B	
2090	FLAUGER 76	
+N OD < P PI+ >		
12.	BOCKMANN 74	ANGP,
	MASS	
24.	BOCKMANN 74	ANGP,
	MASS	
+AP ,GT.17PRONG		
1500	AMALDI 75B	
+AP NEPRONG1		
1500	GOGGI 75	
+AP PRONGS		
1470	ALBROW 77	
+AP ANYTHING		
3.7-1500	ROSSI 74	
3.7-211	TAYLOR 75B	
6.0	ANL-E-399	ASYM
12.	ANL-E-399	ASYM
14.	AMALDI 75E	
19.	AMALDI 75E	
24.	AMALDI 75E	CS,P,
	PT
40.	FNAL-324	ANGP
50.	FNAL-118A	ANGP
80.	FNAL-324	ANGP
100	FNAL-118A	ANGP
	FNAL-284	ANGP
	FNAL-300	ANGP
	FNAL-118A	ANGP
201	ALPER 75	
	FRISCH 74	

P P ---> (CONT.)

+AP ANYTHING (CONT.)

288	CAPILUPPI 73	
	CAPILUPPI 74	
291	ALPER 74	
	GUETTLER 76B	
300	ANTREASYAN 77C	PT
	ELLIS 77	P,PT
	FNAL-284	ANGP
	FNAL-300	ANGP
400	ANTREASYAN 77C	PT
	ELLIS 77	P,PT
	FNAL-284	ANGP
	FNAL-300	ANGP
498	ALPER 73B	
	ALPER 74	
	CAPILUPPI 73	
	CAPILUPPI 74	
1080	ALLABY 74	
	ALPER 75	
	GUETTLER 76B	
1480	ALPER 73B	
	ALPER 74	
1500	ALLABY 74	
	ALPER 75	
	CAPILUPPI 73	
	CAPILUPPI 74	
	FRISCH 74	
	GUETTLER 76B	
2090	CAPILUPPI 74	
2110	ALLABY 74	
	ALPER 74	
	ALPER 75	
	GUETTLER 76B	
7	FNAL-236A	ANGP
	STROYNOWSKI 75	
+N(AP) ANYTHING		
1500	AMALDI 75B	
+N(P) ANYTHING		
69.	BLUMENFELD 75	
		MULT
+N(N) ANYTHING		
1500	AMALDI 75	
+N(14.7P)11+ P		
11.	ANL-E-371	
+N(14.7P)1+ P		
>1.5	MATTHIAE 71	
2.8-7.9	BLAIR 69	
5.5	ALEXANDER 67	
6.0	ANL-E-367	FV
	KINSEY 68	CS
6.0-30.	ANDERSON 66B	CS
	EDELSTEIN 71	
6.1	TAN 68	
7.9	GRETHER 68B	
	GRETHER 69	FV
8.0-400	FNAL-381	ANGP
8.1	GINESTET 69	ANGP,
		CS
10.	ALMEIDA 67	
	ALMEIDA 68	
	TAKIDAEV 73	CS
12.	ANL-E-367	FV
19.	BOGGILD 68	CS
	TAKIDAEV 74I	
22.	JESPERSEN 68	
24.	AMALDI 71	
28.	CONNELLY 67	
385	AKIMOV 74B	ANGP
+N(14.7P)10 DEL++		
5.5	ALEXANDER 67	
19.	BOGGILD 68	CS
+N(15.2QD)1+ P		
>1.5	MATTHIAE 71	
3.0-7.0	ANKENBRANDT 66	
3.4-12.	COCCONI 64	
6.4-30.	EDELSTEIN 71	
24.	AMALDI 71	
+N(15.2QD)1+ P		
28.	CONNELLY 69	
+N(15.2QD)1.3)0 DEL++		
6.8	COLTON 71C	
+N(15.2QD)1+ P		
2.2E-7.9	BLAIR 69	
3.0-7.1	ANKENBRANDT 68	
		ANGP
4.0	COLETTI 67	ANGP,
		CS
5.5	ALEXANDER 67	

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)

=N(15208)+ P (CONT.)
0.0-30. ANDERSON 66B CS
6.1 TAN 66
7.0-500 FNAL-15MA ANGP
8.0-400 FNAL-38I ANGP
10. ALMEIDA 68 CS
TAKIBAEV 73 CS
TAKIBAEV 74D CS
19. ALLABY 68D
30.-400 FNAL-313 POL
1080 WEBB 74B
=N(15208)+ DEL+
10. TAKIBAEV 74D ANG
=N(15208)0 DEL++
4.0 BODINI 68 CS
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
CASO 68
KINSEY 68 CS
6.9 YERUTIELI 69
8.1 KAYAS 68
10. TAKIBAEV 74D CS
12. ANL-E-367 FV
14. BCGGILD 68 CS
=N(1608F15)+ P
>1.5 MATTHIAE 71
3.0-7.0 ANKENBRANDT 66
3.6-12. CCCCONI 64
6.0-30. EDELSTEIN 71
10. TAKIBAEV 74D CS
24. AMALDI 71
1080 WEBB 74B
1500 NAGY 74
=2N(1668F15)+
28. CCNNOLLY 69
=N(1688F15)+ DEL+
10. TAKIBAEV 74D ANG
=N(1688F15)0 DEL++
0.6 COLTON 71C
10. TAKIBAEV 74D CS
=N(1703B)+ P
2.8-7.9 BLAIR 69
3.0-7.1 ANKENBRANDT 66
ANGP
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
6.0-30. ANDERSON 66B CS
6.1 TAN 66
6.6 COLTON 71C
7.0-500 FNAL-198A ANGP
8.0-400 FNAL-38I ANGP
8.1 GINESTET 69 ANGP,
CS
KAYAS 68
10. ALMEIDA 68
TAKIBAEV 73 CS
12. ANL-E-367 FV
16. ALLABY 68D
BCGGILD 68 CS
28. CCNNOLLY 69
30.-400 FNAL-313 POL
=N(17008)0 CEL++
4.0 BODINI 68 CS
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
CASO 68
KINSEY 68 CS
6.9 YERUTIELI 69
8.1 KAYAS 68
12. ANL-E-367 FV
19. BCGGILD 66 CS
=N(1820B)+ P
0.0 KINSEY 68 CS
=N(1890G)1+ P
>1.5 MATTHIAE 71
6.0-30. EDELSTEIN 71
24. AMALDI 71
=N(2190B)+ P
6.0-30. ANDERSEN 66B CS
=PIN(1+)21 P
10. BOCKMANN 75 ANGP,
CS,MASS
=N(UNSPEC)+ P
6.6 COLTON 71F
19. BCGGILD 71
=DEL++ N
2.8 BACON 67B ANGP,CS
4.0 COLETTI 67 ANGP,
CS
5.5 ALEXANDER 66
ALEXANDER 67
6.0 MOUNTZ 74 ANGP,CS
MOUNTZ 75 ANG,
ANGP,CS,MASS
WICKLUND 74B ANGP,
ASYM,DME,POL

P P --> (CONT.)

=DEL++ N (CONT.)
6.0-1500 MORIARTY 77
6.6 MA 69 ANGP,CS
6.6 ALEXANDER 68C
8.1 GINESTET 69 ANGP,
CS
9.0 ANL-E-391 ANGP,
ASYM
10. ALMEIDA 68
DEVNE 68
TAKIBAEV 73 CS
TAKIBAEV 74D ANG,
CS,DME
12. ANL-E-391 ANGP,
ASYM
ELCBEL 73E
POSTER 73
BLOBEL 73E
POSTER 73
19. BCGGILD 69 CS
24. MA 70
28. CCNNOLLY 67
ELLIS 69
PANVINI 69
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A P
281 DEKERNET 77C
KWAK 76
DEKERNET 77C
KWAK 76
1500 DEKERNET 77C
7 ALEXANDER 68C
ANGP,
CS
CERN-E-431
DEHNE 68 ANGP,CS
=DEL++ PRONG
205 BARISH 74J MULT
=DEL++ NIPPONGI
100 ERWIN 75 MULT
=DEL++ ANYTHING
6.6 BIALKOWSKA 74 ANG,
ANGP,MASS,P
BIALKOWSKA 75 ANG,
CS
100 ERWIN 75 ANG,ANGP,
CS,DME,MASS
ERWIN 76C ANG,DME
MULT
100-400 MUSGRAVE 75
102 DEBRION 75 ANG,
ANGP,MASS,
MULT,P
205 BARISH 74J ANG,
ANGP,CS,DME,
MASS,P,PT
281 LOCKMAN 76
400 DEBRION 75 ANG,
ANGP,MASS,
MULT,P
FNAL-138
476 LOCKMAN 76
500 FNAL-20T
652 LOCKMAN 76
? SYROKOWSKI 75
=DEL+ P
1.2 GUSELET 72
>1.5 MATTHIAE 71
2.6-7.6 BLAIR 69
3.0-7.0 ANKENBRANDT 66
3.0-7.1 ANKENBRANDT 66
ANGP
3.6-12. COCCONI 64
4.3 COLETTI 67 ANGP,
CS
5.5 ALEXANDER 67
6.0 ANL-E-395 ASYM,
PCL
6.0-30. ANDERSON 66B CS
EDELSTEIN 71
6.1 TAN 66
8.1 GINESTET 69 ANGP,
CS
10. TAKIBAEV 73 CS
TAKIBAEV 74D ANG,
CS,DME
12. ANL-E-395 ASYM,
PCL
24. AMALDI 71
=DELO DEL++
5.0-25. CASO 76 ANG,DME,
MASS

P P --> (CONT.)

=DELO DEL++ (CONT.)
6.0 ANL-E-367 FV
CASO 68
KINSEY 68 CS
6.6 COLTON 71C
6.9 YERUTIELI 69
8.1 KAYAS 68
13. TAKIBAEV 74D ANG,
CS,DME
12. ANL-E-367 FV
14. BCGGILD 68 CS
1 BACON 70
=DELO PRONG
235 BARISH 74J MULT
=DELO ANYTHING
6.9 BIALKOWSKA 74 ANG,
ANGP,MASS,P
205 BARISH 74J CS
=DELI(1640B)++ N
10. TAKIBAEV 73 CS
=DELI(1910P3I)++ N
13. ALMEIDA 68
=DELI(1950F37)++ N
5.5 ALEXANDER 67
13. BCGGILD 70
=DELI(1950F37)0 P
5.5 ALEXANDER 67
19. BCGGILD 68 CS
=DELI(1950B)++ N
6.6 COLTON 71F
11. ANL-E-371
19. BCGGILD 71
=DELI(2420B)++ N
5.5 ALEXANDER 67
=PIN(1+)21 P
12. BOCKMANN 75 ANGP,
CS,MASS
=DELUNSPEC)++ N
6.6 COLTON 71F
11. ANL-E-371
19. BCGGILD 71
=N(UNSPEC)+ P
6.0 ANL-E-399 ASYM,
POL
11. ANL-E-371
12. ANL-E-399 ASYM,
PCL
50.-200 FNAL-56B ANGP
150 FNAL-29B ANGP
=2N(UNSPEC)+
11. ANL-E-371
50. FNAL-113A
100 FNAL-110A
200 FNAL-113A
=N(UNSPEC)+ ANYTHING
6.0 ANL-E-437 PCL
=LAMBDA .GT.1.9PRONG
69. ARMDSOV 75G CS
=LAMBDA NEPRONG)
19. BCGGILD 74 MULT,P,
PT
=LAMBDA ANYTHING
5.0-400 STROYNOWSKI 75 CS,
P
6.0 AMBATS 74B POL
ANL-E-367 FV
EISNER 76B ANGP,
ASYM,CS,P,PT
KNASEL 72
LESNIK 75 PCL
SWALLOW 74 MASS
12. ANL-E-367 FV
BLOBEL 74B CS,
MASS,P,PT
FESEFELDT 73 ANGP,
CS
13.-28. BERGER 72D
19. AAHLIN 76 CS,MASS
AAHLIN 77
ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 74C ANGP,
MASS
ALPGARD 75 ANGP,
CS,MASS
ALPGARD 76 ANGP,
MASS
24. BLOBEL 74B CS,
MASS,P,PT
FESEFELDT 73 ANGP,
CS

P P --> (CONT.)

=LAMBDA ANYTHING (CONT.)
SCHWARZ 74
25. LEE 71
29. LEE 71
69. BLUMENFELD 73B
ELUMENFELC 77
ANGP,CS,MASS,
P
GRANET 73
ALSTENGAFNJC 75
100 ALSTENGAFNJC 75
ERWIN 76 CS,MASS
ERWIN 76C CS,MASS,
MULT
100-400 MUSGRAVE 75
102 BROMBERG 74B CS,P,
PT
CHAPMAN 73C CS,
MULT,P,PT
205 BARISH 74J P,PT
JAGER 74 ANGP,CS,
MASS,MULT,P,
POL,PT
300 FNAL-34J
SHENG 74 PCL
303 DAC 73B CS,P
DAC 73F
400 FNAL-44I PCL
405 BROMBERG 74B CS,P,
P
500 FNAL-20T CS
652 RANDER 76
1030 BUSSER 76B
2050 RANDER 76
CERN-R-427-40B FV
=LAMBDA DD < P +
12. HOFMANN 76 CS
24. HOFMANN 76 CS
=ALAMEDA ANYTHING
12. BLOBEL 74B CS
24. BLOBEL 74B CS
100 ALSTENGAFNJC 75
CS,
P
102 BROMBERG 74B CS
CHAPMAN 73C CS,
MULT,P,PT
205 BARISH 74J P,PT
300 FNAL-34J
303 DAC 73B CS
405 BROMBERG 74B CS
1030 BUSSER 76B
=NIALAMEDA) ANYTHING
69. ARMDSOV 75G MULT
? ARMDSOV 75G MULT
=SIGMA+ ANYTHING
6.0 ANL-E-367 FV
12. ANL-E-367 FV
BLOBEL 74B CS
FESEFELDT 73 ANGP,
CS
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
24. BLOBEL 74B CS
FESEFELDT 73 ANGP,
CS
=SIGMAO ANYTHING
12. CAMPBELL 73E
14. ALPGARD 76 CS
=SIGMA- ANYTHING
6.0 ANL-E-367 FV
12. ANL-E-367 FV
BLOBEL 74B CS
FESEFELDT 73 ANGP,
CS
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
24. BLOBEL 74B CS
FESEFELDT 73 ANGP,
CS
=SIGI1385P13)+ ANYTHING
69. FRANCESCHINI 74
=SIGI1385P13)- ANYTHING
69. FRANCESCHINI 74
=XI- ANYTHING
19. ALPGARD 74 CS
ALPGARD 74B CS
=DEUT ANYTHING
>70-1.7 AZHGIREI 72
3.8 ABELINS 70C
WICKLUND 70

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 6271 to 6324

P P --> (CONT.)

-DEUT ANYTHING (CONT.)
4.5 ABELINS 70C
WICKLUND 7C
6.3 ABOLINS 70C
WICKLUND 7C
100 FNAL-300 ANGP
230 FNAL-300 ANGP
330 FNAL-300 ANGP
400 FNAL-300 ANGP
500 FNAL-300 ANGP
+DEUT ANYTHING
100 FNAL-300 ANGP
200 FNAL-300 ANGP
300 FNAL-300 ANGP
400 FNAL-300 ANGP
500 FNAL-300 ANGP
+QUARK ANYTHING
1500 ALPER 73E
? BOTTBODENHAU 72
+N+ ANYTHING
1460 BLSSER 74F
+NO ANYTHING
1460 BUSSER 74F
+N- ANYTHING
1480 BUSSER 74F
-NO ANYTHING
1480 BLSSER 74F
+CHARM ANYTHING
19. AAHLIN 76
430 BINTINGER 76E CS
FERBEL 74D CS
1440 BAUM 75C
1500 BLOCK 77
+MCNOBLE ANYTHING
28E-2090 CARRIGAN 77B
1030 CERN-R-109
1440 CERN-R-109
2050 CERN-R-109
? CERN-R-331 CS
+LONGLIVED ANYTHING
1500 ALPER 73E
+UNSPEC ANYTHING
30.-3C0 IMLAY 74B CS
? CERN-R-406
+2PRONG
4.0 COLETTI 67 ANGP,
CS
6.9 ALEXANDER 68C
8.1 GINESTET 69 ANGP,
CS
12. BLOBEL 74B CS
BLOBEL 75 CS
BECKMANN 74 AMP,
ANGP,CS,MASS
24. BLOBEL 74B CS
BLOBEL 75 CS
BECKMANN 74 ANP,
ANGP,CS
28. SCHREINER 74C
SCHUEBELIN 75
69. BABINTSEV 76 CS
BIALKOWSKA 74
MASS,
P
BIALKOWSKA 74B
ANGP,
MASS
100 BERGER 74C CS
ERWIN 74B CS
MORSE 76 CS
102 BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 74B CS
BROMBERG 76 CS
CHAPMAN 73 MASS,P
ERWIN 74B CS
GREEN 75B
230 ADAMOVICH 75B CS,
P
ANTONOVA 74F CS
ANZON 73D ANGP
205 BARISH 74J
BARISH 74J CS
JAGER 74 CS
PRATAP 74B ANG,
ASYM
TRILLING 74B CS
300 D*D 74C CS
400 BROMBERG 76 CS
405 BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 74B CS
CHAPMAN 73 MASS,P
-NEUTRALS CHARGED
12. BLOBEL 74B MASS
24. BLOBEL 74B MASS

P P --> (CONT.)

+NEUTRALS +GT.10FRGNS
205 WHITMORE 73B MASS
+NEUTRAL(S) NECHARGED)
102 BROMBERG 73 MULT
405 BROMBERG 73 MULT
+ANYTHING HADRON+
1470 DELLANEGRA 75C
+ANYTHING HADRON(S)
281 BELLETTINI 77
281-1440 DARRIULAT 75
1080 BELLETTINI 77
? SENS 72
+ANYTHING HADRON(S)
200 FNAL-395
1480 FNAL-395
+ANYTHING STRANGE
12. BENECKE 74 CS
19. ALPGARD 74 CS
ALPGARD 74B CS
24. BENECKE 74 CS
+ANYTHING STRANGES
19. YAMDAGNI 73 CS
+ANYTHING VEE
205 CHARLTON 73
+ANYTHING CHARGED+
1470 COTTRELL 74
DELLANEGRA 75
+ANYTHING CHARGE-
69. BABINTSEV 76 MULT
200 OH 76 CS,P,PT
233-1440 BERLEIN 72
300 OH 76 CS,P,PT
+ANYTHING CHARGEC
69. BLUMENFELD 74B MULT,
P
FRANCESOVIET 74B
1440 ALPER 74B
1470 DELLANEGRA 77
1500 AMALDI 75B
EGGERT 74
2110 ALPER 74B
+ANYTHING NECHARGE(1)
1050 DANIEL 73
+ANYTHING NEPRONG)
153 FNAL-269 ANGP
+ANYTHING NEUTRAL
300 FNAL-299 ANGP,CS
+OD < ANYTHING > CHARGED
511 BOHM 74B
1080 BOHM 74B
1520 BOHM 74B
+OD < P PI+ PI- > ANYTHING
652 BAKSAY 74B
STROLIN 75
1080 WEBB 74
1440 YOKOSAWA 75
1500 BAKSAY 74B
BAKSAY 74C
STROLIN 75
+OD < P PI+ PI- > OD < P PI+
PI- >
281 CAVALLISFORZ 75
CAVALLISFORZ 75B
CAVALLISFORZ 75C
GOGGI 75C
511 CAVALLISFORZ 75
CAVALLISFORZ 75B
CAVALLISFORZ 75C
1500 CAVALLISFORZ 75
CAVALLISFORZ 75B
CAVALLISFORZ 75C
GOGGI 75C
+OD < 2PRONG > DC < P PI+
PI- >
69. BIALKOWSKA 75
MASS
300 FIRESTONE 74B CS,
P
+OD < DEL++ PI- > OD < DEL++
PI- >
281 CAVALLISFORZ 75C
511 CAVALLISFORZ 75C

P P --> (CONT.)

11. ANL-E-371
12. SWANSON 73
69. BORATAV 76 MASS
103-500 FNAL-C05A ANGP,
MASS
300 FNAL-342
479-2050 CERN-R-80E
468 BLSSER 76
1070 BUSSER 76
BUSSER 76C
1080 BARRILLAT 76B
1480 BLSSER 74D
BUSSER 76
BUSSER 76C
? CERN-R-806?
+GAMMA CHARGED ANYTHING
281-2050 DELPRETE 74B
+GAMMA 2PRONG
12. CAMPBELL 73B
205 JAGER 74 CS
300 SHENG 74 CS
+2E- ANYTHING
281-2110 CERN-R-732
+F- E+ ANYTHING
8.0 KEMP-50 FV
11.-30. TING 75B MASS
15. BNL-671 MASS
281 KOURKOUMELIS 77
281-2110 CERN-R-732
293 BUSSER 76F
CERN-R-138
479 CERN-R-138
479 GRESSER 74
479-2050 CERN-R-80E
468 BUSSER 75
BUSSER 76D
BUSSER 76F
CERN-R-138
BUSSER 76F
511 KOURKOUMELIS 77
1060 GRESSER 74
1070 BUSSER 75
BUSSER 76D
BUSSER 76F
CERN-R-138
SEGLER 76
1490 GRESSER 74
1530 KOURKOUMELIS 77
2050 CCBB 77B
CCBB 77C
KOURKOUMELIS 77
2070 BUSSER 75
BUSSER 76D
BUSSER 76F
CERN-R-138
? CERN-R-806?
+2E+ ANYTHING
281-2110 CERN-R-732
+MU- E+ ANYTHING
257 BAUM 77
479 BAUM 77
1030 BAUM 77
1440 CERN-R-605
CERN-R-636
1520 BAUM 77
2050 BAUM 77
+MU- MU+ ANYTHING
150 FNAL-331 ANGP,P
400 BINTINGER 76B CS,
MASS
1443 NAGY 75
? CERN-R-401
CERN-R-414
CERN-R-804
+MU+ E- ANYTHING
257 BAUM 77
479 BAUM 77
1030 BAUM 77
1443 CERN-R-63E
CERN-R-636
1530 BAUM 77
2050 BAUM 77

P P --> (CONT.)

+2PION ANYTHING
257 BANNER 77
479 BANNER 77
1030 BANNER 77
1480 COMBRIDGE 76B
1500 BANNER 77
2050 BANNER 77
+P(0)(1) E- ANYTHING
281-2110 CERN-R-702
+P(0)(1) E+ ANYTHING
281-2110 CERN-R-702
+P1+S P1-S ANYTHING
28. ERWIN 73
+N(P)(+) N(P)-1 ANYTHING
300 SHENG 75B MASS
+N(P)01 2PRONG
12. ELOBEL 74B MULT
CAMPBELL 73B
24. BLOBEL 74B MULT
69. BLUMENFELD 75 MULT
MULT
205 YAMDAGNI 75 MULT
40. YAMDAGNI 75 MULT
+2P1+ ANYTHING
69. BOGOLYUBSKII 76 P
130 BROMBERG 76C P
OH 75 P
102 BROMBERG 74 ANGP,
P
RANFT 75J ANG,P
KEMP 75B ANG,P
200 OH 75 P
300 OH 75 P
376 ALBROW 76C P
400 BROMBERG 76C P
1500 ALEFCW 76B
MCCUBBIN 7M
? CERN-ACC-408 FV
+P1+ P1- +GT.2PRONG
69. BLUMENFELD 75
MASS
+P1+ P1- 0PRONG
69. BLUMENFELD 75
MASS
+P1+ P1- ANYTHING
11.-30. TING 75B MASS
12. BLOBEL 73 MASS
24. BLOBEL 73 MASS
69. AMPOSOV 75D ANG,P
AMPOSOV 75E ANG,P
BLUMENFELD 75
MASS,
P
BOGOLYUBSKII 76 P
DEERE 75 ANG,MULT,
P,PT
DEERE 75B ANG,P
130 BROMBERG 76C P
KO 74 MULT,P
OH 75 P
100-400 MUNGUAVE 75 ANGP
102 BROMBERG 74 ANGP,
P
RANFT 75J ANG,P
RANFT 75B ANG,P
200 OH 75 P
SMITH 75D P
205 BARISH 74J MASS
BERGER 76C P
SINGER 75 MASS,P
300 OH 75 P
376 ALBROW 76C P
400 BINTINGER 76E CS,
MASS
BROMBERG 76C P
498-1480 BUSSER 76B
1070 BUSSER 76
1460 BUSSER 76
1500 ALBROW 76B
ALDER 76
2070 BUSSER 76
? CERN-R-407-408 FV
CERN-R-410
FNAL-357 MASS
+P1+ CHARGED ANYTHING
281 ALBROW 75
511 ALBROW 75
1060 ALBROW 74C
+P1+ 2PRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
+P10 GAMMA ANYTHING
1500 EGGERT 75B
+2P10 ANYTHING
12. SWANSON 73
205 JAGER 74 P

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CENT.)

*2P10 ANYTHING (CONT.)
293 BUSSER 76F
458 BLSSER 76F
505 EGGERT 75C
1070 BUSSER 76F
1080 EGGERT 75C
1480 BLSSER 76H
BUSSER 76F
1680 EGGERT 75C
2070 BUSSER 76F
2110 EGGERT 75C
*P10 PI- ANYTHING
12. SWANSEN 73
300 SHENG 74 P
*P10 HADRON(S) ANYTHING
200 FNAL-355
330 FNAL-395
*P10 CHARGED ANYTHING
1500 EGGERT 75E
*P10 2PRONG
12. CAMPBELL 73E
100 WARD 76 CS
205 JAGER 74 CS
*P1- N(PI+) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
65. DERRE 76 MULT,PT
*P1- N(PI-) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
*P1- N(PI-) ANYTHING
69. DERRE 76 MULT,PT
*2P1- ANYTHING
12. VONHOLT 76E CS
18. LAM 72
21. LAM 73
24. VONHOLT 76B CS
28. MANLOK 73B
69. AMMOSOV 75D ANG,P
AMMOSOV 75E ANG,P
BOGGLYWESKII 76 P
DERRE 76 MULT,P
DERRE 75 ANG,MULT,
P,PT
DERRE 75B ANG,P
FRANCESOVIET 74B
ANG,
P
100 ERCMBERG 76C P
NO 76 MULT,P
102 BRCMBERG 74 ANGP,
P
RANFT 75J ANG,P
RANFT 75K ANG,P
200 OH 75 P
SMITH 75D P
205 BERGER 76C P
300 OH 75 P
376 ALBROW 76C
400 BRCMBERG 76C P
500 FNAL-207 I
7 CERN-F-467-40B FV
*P1- CHARGED ANYTHING
281 ALBROW 75
511 ALBROW 75
1500 AMALDI 75B
*P1- N(CHARGED) NEUTRAL(S)
13. MA 73 MULT
18. MA 73 MULT
21. MA 73
24. MA 73
28. MA 73
205 MA 73 MULT
*P1- 2PRONG
12. BLCBEL 74B P,PT
24. BLCBEL 74B P,PT
*N+K(S) 2PRONG
205 YAMCAGNI 75 MULT
303 YAMCAGNI 75 MULT
*K+ E- ANYTHING
1440 CERN-R-65 I
CERN-R-66 I
*K+ E+ ANYTHING
1440 CERN-R-65 I
CERN-R-66 I
*K+ P1+ ANYTHING
376 ALBROW 76C I
*K+ P1- ANYTHING
13. TING 75B MASS I
376 ALBROW 76C I
400 BINTINGER 76B CS, I
MASS I
1500 ALBROW 76B I
BLOCK 77 I
MCCUBBIN 76 I
7 FNAL-357 MASS I

P P --> (CENT.)

*2K+ ANYTHING
5.0 BNL-703 MASS I
376 ALBROW 76C I
1500 ALBROW 76B I
*K+ K- ANYTHING
11.-30. TING 75B MASS I
24. BLOBEL 75C MASS I
293 BUSSER 76F I
376 ALBROW 76C I
458 BLSSER 76F I
1070 BUSSER 76F I
1480 BUSSER 76F I
1500 ALBROW 76B I
2070 BUSSER 76F I
7 FNAL-357 MASS I
*K+ CHARGED ANYTHING I
281 ALBROW 75 I
511 ALBROW 75 I
*K0 PI+ ANYTHING I
69. FRANCESOVIET 74 I
MASS I
*K0 PI- ANYTHING I
69. FRANCESOVIET 74 I
MASS I
*K0 K0 (CPRONG) I
19. ALPGARD 7A MULT I
*K0 K0 ANYTHING I
19. ALPGARD 74 CS I
ALPGARD 74B CS I
ALPGARD 76 CS I
*K5 E- ANYTHING I
205-2110 CERN-R-702 I
1440 CERN-R-606 I
*K5 E+ ANYTHING I
1440 CERN-R-606 I
*K5 PI- ANYTHING I
13. MA 77E CS I
18. MA 77E CS I
21. MA 77E I
24. MA 77E I
28. MA 77E I
*2K5 ANYTHING I
19. AAHLIN 76 CS,MASS I
300 FNAL-343 I
*K5 2CHARGED I
69. AMMOSOV 75G CS,P I
*K5 2PRONG I
19. ALPGARD 74 CS I
ALPGARD 74B CS I
ALPGARD 76 CS I
HAGMAN 75 CS,PT I
100 WARD 76 CS I
300 SHENG 74 CS I
*K- PI+ ANYTHING I
11.-30. TING 75B MASS I
21. CHEN 76H I
376 ALBROW 76C I
400 BINTINGER 76B CS, I
MASS I
1500 BLOCK 77 I
MCCUBBIN 76 I
7 FNAL-357 MASS I
*K- PI- ANYTHING I
376 ALBROW 76C I
*2K- ANYTHING I
376 ALBROW 76C I
1500 ALBROW 76B I
*K- CHARGED ANYTHING I
281 ALBROW 75 I
511 ALBROW 75 I
1500 AMALDI 75B I
*KACK KACN ANYTHING I
ALBROW 76 CS I
*CO AOO ANYTHING I
1500 MCCUBBIN 76 I
*P MU- ANYTHING I
300-400 FNAL-413 FV I
*P MU+ ANYTHING I
300-400 FNAL-413 FV I
*P MUON ANYTHING I
240 BLANAP 76B MASS I
*P PION ANYTHING I
257 BANNEP 77 I
475 BANNEP 77 I
1030 BANNER 77 I
1500 BANNER 77 I
2050 BANNER 77 I
*P PI+ -GT.*PRONG I
205 BARISH 74J MASS I
*P PI+ NN,GE.2 I
12. BLOBEL 73E MASS I
24. BLOBEL 73E MASS I

P P --> (CENT.)

*P PI+ ANYTHING
28. ERWIN 76B I
100 ERWIN 75 MASS I
ERWIN 76C MASS I
205 BARISH 74J MASS I
281 LOCKMAN 76 I
652 LOCKMAN 76 I
1500 ALBROW 76B I
MCCUBBIN 76 I
7 CERN-R-407-43B FV I
*P PI- ANYTHING I
6.0 LESNIK 75 MASS I
11.-30. TING 75B MASS I
28. ANDERSON 75 I
CLIFFORD 74 I
ERWIN 76B I
205 BARISH 74J MASS I
281 LOCKMAN 76 I
376 ALBROW 76C I
419 LOCKMAN 76 I
458-1480 BUSSER 76G I
511 ALLABY 74 I
652 LECKMAN 76 I
1080 ALLABY 74 I
1500 ALLABY 74 I
MCCUBBIN 76 I
2110 ALLABY 74 I
CERN-F-407-43B FV I
*P K+ ANYTHING I
376 ALPPEN 76C I
1500 MCCUBBIN 76 I
*P ANYTHING I
11.-30. TING 75B MASS I
376 ALBROW 76C I
1500 MCCUBBIN 76 I
*2P GAMMA I
.040 GREENIAUS 72 I
.10 SANNES 70 I
.11 FROIS 74 I
.19 STORK 71 I
.28 GREENIAUS 75 I
.56 WILLIS 72 I
.73 NEFKENS 77 ANGP I
NEFKENS 77B I
*2P PIONS I
28. CANTER 75 I
*2P PI0S I
6.0 BODINI 68 CS I
6.1 GINESTET 69 ANGP, I
CS I
6.6 ALMEIDA 68 I
6.9 ALEXANDER 68C I
6.1 GINESTET 69 ANGP, I
CS I
10. ALMEIDA 68 I
TAKIBAEV 73 CS, I
MASS I
11. AML-E-371 I
12. BOCKMANN 73 ANP I
BOCKMANN 74 ANP, I
ANG,ANGP,CS, I
BOCKMANN 75 CS I
VCNHOLT 76B CS I
19. BAKKEN 76B ANP, I
ANGP,CS,MASS I
BOGGILD 69 CS I
BOGGILD 75 CS,P I
24. BOCKMANN 73 ANP I
BOCKMANN 74 ANP, I
ANG,ANGP,CS, I
MASS I
BOCKMANN 75 CS I
VCNHOLT 76B CS I
BAKKEN 76B ANP, I
ANGP,CS,MASS I
BOGGILD 69 CS I
BOGGILD 75 CS,P I
PLOTHCW 75 ANG,CS, I
MASS I
VCNHOLT 76B CS I
SCHUEBELIN 75 I
28. I
*2P ETA I
4.0 BODINI 68 CS I
4.9 COLLERAINE 67 I
5.5 ALEXANDER 67 I
6.0 AML-E-367 FV I
CASO 68 I

P P --> (CENT.)

*2P ETA (CONT.)
6.6 COLTON 69B CS
6.9 YEKUTIELI 69
10. ALMEIDA 68 I
12. ANL-E-367 FV
BLOBEL 74C CS,P
BLOBEL 74C CS,P
24. BLOBEL 74C CS,P
*2P PHOO
5.5 ALEXANDER 67 I
6.0 ANL-E-367 FV
7.0 BAKKEN 76C ANG,
MASS
8.1 KAYAS 68 I
12. ANL-E-367 FV
BAKKEN 76C I
BLOBEL 73B ANGP,
CS,P
BLOBEL 74C ANG,
ANGP,CS,DME,P
BLOBEL 74C ANG,
ANGP,CS,DME,P
19. BAKKEN 76C ANP,CS,
MASS
TAKIBAEV 74I I
24. BLOBEL 73B ANGP,
CS,P
BLOBEL 74C ANG,
ANGP,CS,DME,P
BLOBEL 74C ANG,
ANGP,CS,DME,P
BLOBEL 75C CS
263 ARMITAGE 76B I
495 ARMITAGE 76B I
*2P OMEGA I
4.0 BODINI 68 CS I
NICO 83 CS I
4.9 COLLERAINE 67 I
5.5 ALEXANDER 67 I
6.0 AML-E-367 FV I
CASO 68 I
6.6 COLTON 69B CS I
6.9 YEKUTIELI 69 I
10. ALMEIDA 68 I
12. ANL-E-367 FV I
BLOBEL 73B ANGP,
CS,P I
BLOBEL 74C ANG,
ANGP,CS,DME,P I
BLOBEL 74C ANG,
ANGP,CS,DME,P I
GEICHGIMBEL 75 CS I
19. BOGGILD 68 CS I
BOGGILD 69B CS I
TAKIBAEV 74I I
24. BLOBEL 73B ANGP,
CS,P I
BLOBEL 74C ANG,
ANGP,CS,DME,P I
BLOBEL 74C ANG,
ANGP,CS,DME,P I
BLOBEL 75C CS I
GEICHGIMBEL 75 CS I
CONNOLLY 67 I
263 ARMITAGE 76B I
495 ARMITAGE 76B I
*2P S=(1953) I
12. BLOBEL 74C CS I
24. BLOBEL 74C CS I
*2P PHI I
12. BLOBEL 74C CS I
24. BLOBEL 74C CS I
BLOBEL 75C CS I
*2P P I
7.0 BAKKEN 76C ANP,CS,
MASS I
10. ALMEIDA 68 I
12. BAKKEN 76C I
BLOBEL 73B ANGP,
CS,P I
BLOBEL 74C ANP,CS,
MASS I
BOGGILD 68 CS I
24. BLOBEL 73B ANGP,
CS,P I
BLOBEL 74C ANG,
ANGP,CS,P I
263 ARMITAGE 76B I
495 ARMITAGE 76B I
*2P N I
52. MATTHAEY 72 I

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)

*2P NEPRONS
479 BAKSAY 75
1030 BAKSAY 75
1440 BAKSAY 75
2050 BAKSAY 75
*2P ANYTHING
28. ANDERSON 740
LUNDEN 76
257 BANNER 77
293-2020 ARMITAGE 76B
376 ALBROW 76C
475 BANNER 77
1030 BANNER 77
1500 ALBROW 76B
BANNER 77
MCCUBBIN 76
2050 BANNER 77
? CERN-P-267
CERN-R-4C7-40B FV
*P N PI+
.66 VOVCHENKO 70B
.80 HUDOMALJGABI 76
1.3 ASHEFIELD 71
BJORK 76B
ZULKARNEEV 71D
1.3-1.5 GLASS 77
1.5 BJORK 76B
FELDER 76
1.7 BUGG 6A
VOVCHENKO 76B
2.2 EISNER 65
2.8 FICKINGER 62
3.0 ANL-E-339 DME
3.7 SMITH 61
4.0 ANL-E-339 DME
COLETTI 67 ANGP,
CS
5.5 ALEXANDER 67
6.0 ANL-E-339 DME
MCUNTZ 74 ANG,
MASS
WICKLUND 74B MASS
6.1 TAN 68
6.6 COLTON 68B ANGP,
CS
MA 69 ANGP,CS
6.9 ALEXANDER 68C
7.0 LYONS 70
8.1 GINESTET 69 ANGP,
CS
10. ALMEIDA 67
ALMEIDA 68
DEHNE 68
TAKIBAEV 73 CS,
MASS
11. ANL-E-371
12. BLOBEL 73E ANG,
ANGP,MASS
BOCKMANN 73 AMP
BOCKMANN 74 AMP,
ANG,ANGP,CS,
MASS
BOCKMANN 75 CS
NCBE 73
VOMHOLT 76B CS
16. BNL-657 ANG,ANGP,
ASYM,MASS
19. BAKKEN 76B AMP,
ANGP,CS,MASS
BLOMQVIST 75C
BEGGILD 69
BOGGILD 75 CS,P
24. BLOBEL 73E ANG,
ANGP,MASS
BOCKMANN 73 AMP
BOCKMANN 74 AMP,
ANG,ANGP,CS,
MASS
PLOTHOW 75 ANG,CS,
MASS
VOMHOLT 76B CS
28. CCNNOLLY 67
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
281 DEKEBRET 77C
1080 BROLL 76
DEKEBRET 76D
1500 AMALDI 75
NAGY 74
? CERN-R-431
DIBON 73
KOBE 73
*P N RHO+
7.0 BAKKEN 76C AMP,CS,
MASS

P P --> (CONT.)

*P N RHO+ (CONT.)
12. BAKKEN 76C
19. BAKKEN 76C AMP,CS,
MASS
*P N ANYTHING
1.3 KIRKBY 74 P
? CERN-R-407-40B FV
*P AP ANYTHING
11.-30. TING 75B MASS
257 BANNER 77
376 ALBROW 76C
475 BANNER 77
1030 BANNER 77
1500 ALBROW 76B
BANNER 77
MCCUBBIN 76
2050 BANNER 77
? FNAL-357 MASS
*P NI1470B1+ PIO
19. TAKIBAEV 74I
*P NI1470B1O PI+
5.5 ALEXANDER 67
13. TAKIBAEV 74I
*P NI1520B1+ PIO
5.5 ALEXANDER 67
*P NI1520B1O PI+
5.5 ALEXANDER 67
6.0 CASO 68
10. ALMEIDA 68
BOGGILD 68 CS
*P NI1688F1510 PI+
19. TAKIBAEV 74I
28. CCNNOLLY 67
*P NI1700B1+ PIO
5.5 ALEXANDER 67
*P NI1700B1O PI+
5.5 ALEXANDER 67
6.0 CASO 68
10. ALMEIDA 68
BOGGILD 68 CS
*P NI1860F1C PI+
19. TAKIBAEV 74I
*P DEL++ PI+
6.0 ANL-E-339 DME
6.0 HUMBLE 73B AMP,
ANG,PWA
8.5 ALEXANDER 67
6.0 ANL-E-339 DME
10. ALMEIDA 68
BOGGILD 68 CS
*P NI2660F1C PI+
19. TAKIBAEV 74I
*P DEL++ RHO-
6.0 KIMSEY 68 CS
19. ALLAN 75B CS
BLOMQVIST 75C AMP,
ANGP,CS
BOGGILD 68 CS
*P DEL++ A2(1310)+
19. BLOMQVIST 75C CS
*P DEL+ RHO
6.0 KIMSEY 68 CS
19. BLOMQVIST 75C AMP,
CS
BOGGILD 68 CS
*P DELO PI+
5.5 ALEXANDER 67
6.0 CASO 68
10. ALMEIDA 68
19. ALLAN 75B CS
BLOMQVIST 75C AMP,
CS
BOGGILD 68 CS
*P DELO RHO+
6.0 KIMSEY 68 CS
10. ALMEIDA 68
19. BOGGILD 68 CS
TAKIBAEV 74J
*P DELO A2(1310)+
19. BLOMQVIST 75C CS
*P DELO(1670D33)+ PIO
19. TAKIBAEV 74I
*P DELO(1950B1+ PIO
19. TAKIBAEV 74I
*P LAMBDA K+
2.3-2.8 HOGAN 68
2.8 FICKINGER 62

P P --> (CONT.)

*P LAMBDA K+ (CONT.)
3.7 LCUTTIT 61
4.9 BIERMAN 66
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
ANL-E-427 ANG,
ANGP,ASYM,CS,
POL
CASO 68
CHINOWSKY 68B CS
EISNER 76B ANGP,
ASYM,MASS
6.9 ALEXANDER 68J
7.9 FIREBAUGH 68
10. CERN-S-131 FV
ANL-E-367 FV
ANL-E-427 ANG,
ANGP,ASYM,CS,
POL
23. CERN-WA-010 FV
45. CERN-WA-010 FV
80. CERN-WA-01B FV
133 ERWIN 76C CS
1080 BAKSAY 76
WEBB 75
1500 BAKSAY 76
WEBB 75
P LAMBDA K(892)+
6.0 KLEIN 68 CS
*P SIGMA+ K0
3.7 LCUTTIT 61
4.9 BIERMAN 66
SCNDHI 68
5.5 ALEXANDER 67
6.0 CHINOWSKY 68B CS
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. MCLMGREN 67 CS
*P SIGMA0 K+
3.7 LOUTIT 61
4.9 BIERMAN 66
5.5 ALEXANDER 67
6.0 CASO 68
CHINOWSKY 68B CS
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
*P SIG(1385P13)+ K0
6.0 KLEIN 68 CS
*P SIG(1385P13)0 K+
6.0 KLEIN 68 CS
*P CHARGED ANYTHING
281 ALBROW 75
282 ALBROW 76B
496 ALBROW 76B
511 ALBROW 75
1060 ALBROW 76C
*N CHARGED ANYTHING
511 ALBROW 75
*N PI+ ANYTHING
? CERN-R-407-40B FV
*N PI- ANYTHING
? CERN-R-407-40B FV
*N NI1520B1+ PI+
5.5 ALEXANDER 67
*N NI1700B1+ PI+
5.5 ALEXANDER 67
*N DEL++ RHO0
6.0 ANL-E-367 FV
KIMSEY 68 CS
12. ANL-E-367 FV
19. BLOMQVIST 75C AMP,
ANGP,CS
BOGGILD 68 CS
*N DEL++ F
19. BLOMQVIST 75C CS
BOGGILD 68 CS
*N SIGMA+ K+
3.7 LOUTTIT 61
4.9 SCNDHI 68
6.0 ANL-E-367 FV
CHINOWSKY 68B CS
12. ANL-E-367 FV
*N CHARGED +GT.1EPRONS
511 AMALDI 75
1080 AMALDI 75
1500 AMALDI 75
2110 AMALDI 75
*N CHARGED ANYTHING
511 AMALDI 75
1080 AMALDI 75
1500 AMALDI 75
2110 AMALDI 75

P P --> (CONT.)

*AP PION ANYTHING
257 BANNER 77
479 BANNER 77
1030 BANNER 77
1500 BANNER 77
2050 BANNER 77
*AP PI+ ANYTHING
11.-30. TING 75B MASS
376 ALBROW 76C
496-1480 BUSSER 76G
1500 ALBROW 76B
*AP PI- ANYTHING
376 ALBROW 76C
1500 ALBROW 76B
MCCUBBIN 76
*AP K- ANYTHING
376 ALBROW 76C
1500 ALBROW 76B
*AP ANYTHING
376 ALBROW 76C
1500 ALBROW 76B
MCCUBBIN 76
*AP CHARGED ANYTHING
281 ALBROW 75
511 ALBROW 75
1480 ALBROW 76C
1500 AMALDI 75B
*DEL++ PI-
6.6 COLTON 72
*DEL++ PI- NEPRONS
100 ERWIN 75 MASS
*DEL++ PI- ANYTHING
69. BIALKOWSKA 74
ANGP,
CS,P
BIALKOWSKA 75
ANGP,CS,MASS,
P
205 BARISH 73D ANGP,
MASS
BARISH 74J MASS
1500 BAKSAY 74
*DEL++ DEL+ PI-
5.5 ALEXANDER 67
6.0 CASO 68
19. BOGGILD 68 CS
*DEL++ DELO PIO
5.5 ALEXANDER 67
6.0 CASO 68
*DEL++ DEL- PI+
4.0 BOZZAT 68 FS
5.5 ALEXANDER 67
6.0 CASO 68
10. ALMEIDA 68
19. BOGGILD 68 CS
28. CONNOLLY 67
*DEL++ LAMBDA K0
6.0 KLEIN 68 CS
*DELO PI+ ANYTHING
1500 BAKSAY 74
*LAMBDA E- ANYTHING
281-2110 CERN-R-702
1440 CERN-R-60E
CERN-R-60E
*LAMBDA E+ ANYTHING
281-2110 CERN-R-702
1440 CERN-R-60E
CERN-R-60E
*LAMBDA PI+ ANYTHING
69. FRANCESCHIET 74
MASS
*LAMBDA PIO ANYTHING
25. LEE 71
29. LEE 71
*LAMBDA PI- ANYTHING
69. FRANCESCHIET 74
MASS
*LAMBDA K+ PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*LAMBDA K+ NEPRONGI
19. ALPGARD 74 MULT
? ALPGARD 74 MULT
*LAMBDA K+ ANYTHING
19. ALPGARD 74 CS
ALPGARD 76B CS
ALPGARD 76 CS
1500 BAKSAY 74
LOCKMAN 76B

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)

*LAMBDA KO MEPRONG
19. ALPGARD 74 MULT
*LAMBDA KO ANYTHING
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*LAMBDA KS ANYTHING
19. AAMLIN 76 CS,MASS
69. AMMCSOV 75C CS,
MASS
*LAMBDA 2CHARGEC
69. AMMOSOV 75G CS,P
*LAMBDA 2PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
HAGMAN 75 CS,PT
205 JAGER 74 CS
300 SHENG 74 CS
*LAMBDA 2CHARGED
69. AMMOSOV 75G CS
*SIGMA+ KO ANYTHING
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*SIGMA- KO ANYTHING
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*HYPERON FACN ANYTHING
19. ALPGARD 76 CS
*DEUT PI+ PIO
2.2 EISNER 65
*2CHARM ANYTHING
230 BLANAR 76 CS
240 BLANAR 76 CS
*2CNONPCLE ANYTHING
1030 CERN-R-109
1440 CERN-R-109
2030 CERN-R-109
*2HADRON+ NEPRONG
1470 DELLANEGRA 75C
*HADRON+ HADRON- NEPRONG
1470 DELLANEGRA 75C
*2HADRCA ANYTHING
293-210C CERN-R-413
*2STRANGE ANYTHING
19. ALPGARD 76 CS
*2CHARGED ANYTHING
205 SINGER 74B P
*2CHARGED CHARGED ANYTHING
69. AMMOSOV 75B P
BLUMENFELD 75 MASS,
P
200 KENNEY 75 P
205 SINGER 74B P
*2CHARGED ANYTHING
69. AMMCSOV 75B P
200 KENNEY 75
OH 76 CS,P,PT
205 SINGER 74B P
300 OH 76 CS,P,PT
*2CHARGED ANYTHING
69. BABINTSEV 74 P
100 OH 75 P
200 ANDERSCN 74F
OH 75 P
281 AMENDOLIA 75
300 ANDERSON 74F
OH 75 P
1470 BASILE 76B
2050 AMENDOLIA 75
*3PRONG
100 MCRSE 76 CS
*2PRONG NEUTRALS
205 WHITMORE 73E MASS
*2PRONG ANYTHING
257 MENZIONE 75
2050 MENZIONE 75
*3GAMMA ANYTHING
300 FNAL-343
1510 DELL 75
*NEPIO 3PRONG
69. BLUMENFELD 75
MULT
*PI+ PI- MU- ANYTHING
7 FNAL-472 MASS
*PI+ PI- MU+ ANYTHING
7 FNAL-472 MASS
*PI+ PI- 2PRONG
69. BLUMENFELD 75
MASS
*PI+ 3PRONG
69. BLUMENFELD 75 P

P P --> (CONT.)

*PIO 2CHARGEC ANYTHING
303 DAO 73B CS,MULT
1500 EGGERT 75B
*PI- E- E+ ANYTHING
20. BNL-658 MASS
22. BNL-658 MASS
24. BNL-658 MASS
28. BNL-658 MASS
*2PI- NEPI+ ANYTHING
22. VCNHOLT 76B MULT
24. VCNHOLT 76B MULT
*2PI- NEPIO ANYTHING
12. VCNHOLT 76B MULT
24. VCNHOLT 76B MULT
*3PI- ANYTHING
12. VCNHOLT 76B CS
24. VCNHOLT 76B CS
*PI- 3PRONG
13. SENE 74
69. BLUMENFELD 75 P
200 SMITH 75D P
*K+ PI- MU- ANYTHING
? FNAL-472 MASS
*K+ PI- MU+ ANYTHING
? FNAL-472 MASS
*K+ K- MU- ANYTHING
? FNAL-472 MASS
*K+ K- MU+ ANYTHING
? FNAL-472 MASS
*KO AKO 2PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*KS 2CHARGED ANYTHING
303 DAO 73B CS,MULT
*K- PI+ MU- ANYTHING
? FNAL-472 MASS
*K- PI+ MU+ ANYTHING
? FNAL-472 MASS
*K- PI+ MUON ANYTHING
300-400 FNAL-413 FV
*K- PI+ MU+ ANYTHING
300-400 FNAL-413 FV
*P 2MU+ ANYTHING
300-400 FNAL-413 FV
*P PI+ PI- ANYTHING
28. ERWIN 76B
205 BARISH 74J MASS
652 BAKSAY 74
BAKSAY 74B
SCHLEIN 74
STRCLIN 75
*P PI+ 2PRONG
205 BARISH 74J MASS
*2P NEPI-) ANYTHING
28. STRINGFELLOW 73
*2P PI+ PI-
2.2 EISNER 65
2.8 PICKUP 62
3.0 ANL-E-339 ONE
3.7 HART 62
4.0 ANL-E-339 ONE
BODINI 68
KIOD 63
KIOD 65
4.0-25. OELPINI 73
4.6 LOCKMAN 76B
5.5 ALEXANDER 67
6.0 ANL-E-339 ONE
ANL-E-367 FV
CASO 68
CHIMONSKY 68
KINSEY 68
6.6 COLTON 68B ANGP,
CS
GELLERI 66 CS
YERKUTELI 69
7.5 GRETHER 68B
8.0 TRANHAANH 70
8.1 KAYAS 68
9.0 ANL-E-351 ANGP,
ASYM
10. ALMEIDA 67
ALMEIDA 68
12. ANL-E-367 FV
ANL-E-391 ANGP,
ASYM

P P --> (CONT.)

*2P PI+ PI- (CONT.)
BIALAS 74G P
BLOBEL 73B MASS
BLOBEL 74C MASS
BLOBEL 75B CS,
MASS,PWA
IOSCHCK 73B
KOBE 73
METZGER 76
VCNHOLT 76B CS
ANDERSON 74
CONNOLLY 67
EHRLICH 68
ANDERSON 74
CONNOLLY 67
HANLON 73 CS,P
PANVINI 72B
FNAL-110A
CERN-HA-006 ASYM
DENEGRI 75 ANG,
MASS,P
FNAL-110A
FNAL-110A
OH 77 ANGP
WHITMORE 75B ANG,
ANGP,MASS
DERRICK 74D CS,
MASS,P
DERRICK 74E ANG,
ANGP,CS,MASS,
DERRICK 74F MASS,
P
HYMAN 73 ANGP,CS,
MASS
WHITMORE 73B ANG,
MASS
DEKERRET 77B
OH 77 ANGP
WHITMORE 75B ANG,
ANGP,MASS
DEKERRET 77B
AMALDI 75B
RANSAY 74
CERN-R-401
DERRICK 75
NADZHAFOV 70
*2P PI+ ANYTHING
28. SCHUEBELIN 75
*2P 2PIO
2.2 EISNER 65
4.6 ANL-E-371
*2P RHO+ PI-
4.0 BODINI 68 CS
5.5 ALEXANDER 67
*2P RHOO PIO
4.0 BODINI 68 CS
*2P RHO- PI+
4.0 BODINI 68 CS
*2P A2(1310)- PI+
5.5 ALEXANDER 67
*2P A1(1310)+ PI-
19. ALLAN 75B CS,MASS
*2P A1(1310)- PI+
19. ALLAN 75B CS,MASS
*2P A2(1310)+ PI-
19. ALLAN 75B CS,MASS
*2P K+ K-
6.6 COLTON 68B ANGP,
CS
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
*2P KO AKO
4.5 BIERMAN 66
6.0 CASO 68
7.9 FIREBAUGH 68

P P --> (CONT.)

*2P KO AKO (CONT.)
10. HOLMGREN 67 CS
*2P QUARK AQUARK
1510 FAGAN 75
*2P HADRON+ HADRON-
479 BAKSAY 75
1030 BAKSAY 75
1440 BAKSAY 75
2050 BAKSAY 75
*2P N PI+ PIOPIOSI
9.0 BODINI 68 CS
8.1 GINESTET 69 ANGP,
CS
10. ALMEIDA 68
*P N PI+ PIO
2.2 EISNER 65
4.0 BODINI 68 CS
14. ANL-E-371
*P N RHO+ PIO
4.0 BODINI 68 CS
*P N RHOO PI+
4.0 BODINI 68 CS
19. TAKIBAEV 74I
*P N K+ AKO
4.5 BIERMAN 66
6.0 CASO 68
6.8 ALEXANDER 68O
7.9 FIREBAUGH 68
*P AP MU- ANYTHING
? FNAL-472 MASS
*P AP MU+ ANYTHING
? FNAL-472 MASS
*P N(1470)+ PI+ PI-
19. TAKIBAEV 74I
*P N(1470)0 PI+ PIO
19. TAKIBAEV 74I
*P N(1520)+ PI+ PI-
10. ALMEIDA 68
*P N(1520)0 PI+ PIO
10. ALMEIDA 68
*P N(1770)0 PI+ PI-
281 GOGGI 75C
511 GOGGI 75C
1500 GOGGI 75C
*P DEL++ PIO PI-
5.5 ALEXANDER 67
6.0 CASO 68
6.9 YERKUTELI 69
10. ALMEIDA 68
19. BOGGILO 68 CS
TAKIBAEV 74I
*P DELO PI+ PIO
5.5 ALEXANDER 67
6.0 CASO 68
10. ALMEIDA 68
19. BOGGILO 68 CS
TAKIBAEV 74I
*P DEL- 2PI+
4.0 BODINI 68 CS
6.0 CASO 68
6.9 YERKUTELI 69
10. BOGGILO 68 CS
TAKIBAEV 74I
28. CONNOLLY 67
*P DEL(1650)3I0 PI+ PIO
19. TAKIBAEV 74I
*P DEL(1670)3I0 PI+ PI-
19. TAKIBAEV 74I
*P LAMBDA K+ PIO
4.9 BIERMAN 66
5.5 ALEXANDER 67
6.0 CHINCWSKY 68 CS
KLEIN 68 CS
6.9 ALEXANDER 68O
7.9 FIREBAUGH 68
*P LAMBDA KO PI+
4.9 BIERMAN 66
5.5 ALEXANDER 67
6.0 CASO 68
CHINCWSKY 68 CS
KLEIN 68 CS
6.9 ALEXANDER 68O
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P SIGMA+ K+ PI-
7.9 FIREBAUGH 68

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P P ---> (CONT.)

P SIGMA KO PIO
4.9 BIERMAN 66
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P SIGMA0 KO PI+
4.9 BIERMAN 66
6.0 CASO 68
KLEIN 68 CS
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
*P SIGMA- K+ PI+
3.7 LOUTTIT 61
7.9 FIREBAUGH 68
*P XI- 2K+
10. HOLMGREN 67 CS
*P 3PRONG
6.9 BLUMENFELD 75 P
205 BARISH 73C ANGP
BARISH 730 ANGP,
MASS
*2N 2PI+
2.2 EISNER 65
*N N(1470)D 2PI+
19. TAKIBAEV 741
*N DEL++ PI+ PI-
4.0 BODINI 68 CS
5.5 ALEXANDER 67
6.0 CASO 68
6.9 YERUTIELI 65
19. BOGGILD 68 CS
TAKIBAEV 741
28. CONNOLLY 67
*N DEL3 2PI+
10. ALMEIDA 68
19. TAKIBAEV 741
*N LAMBDA K+ PI+
4.9 BIERMAN 66
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
CHINOWSKY 68 CS
KLEIN 68 CS
6.5 ALEXANDER 68D
7.9 FIREBAUGH 68
12. ANL-E-367 FV
N SIGMA KO PI+
4.9 BIERMAN 66
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*2NUCLEON PIONS NEUTRALS
19. BOGGILD 75 CS,
MULT,P,P
NUCLEON SIGMA KACH PICN
3.7 LOUTTIT 61
*LAMBDA K0 2PRONG
19. ALPGARD 74 CS
ALPGARD 76C CS
ALPGARD 76 CS
*DEUT 2PI+ PI-
3.7 HART 62
4.0 COLETTI 67 ANGP,
CS
4.5 COLLERAINE 67
6.0 KINSEY 68 CS
*2CHARGED+ 2PRONG
205 SINGER 74B P
*CHARGED+ CHARGE- 2PRONG
205 SINGER 74B P
*3CHARGED- ANYTHING
330 OH 76 CS,P,PT
300 OH 76 CS,P,PT
*CHARGED+ 2PRONG
205 SINGER 74B P
*4CHARGED
230 PRATAP 76 P
*4PRONG
4.0 BODINI 68 CS
6.6 COLTON 68B ANGP,
CS
12. BLOBEL 74B CS
BLOBEL 75 CS
28. MA 73 P,PT
24. BLOBEL 74B CS
BLOBEL 75 CS
28. MA 73
SCHREINER 74C
SCHUEBELIN 75
69. BABINTSEV 76 CS
BIALKOWSKA 74
MASS,
P
BIALKOWSKA 75
MASS,
P

P P ---> (CONT.)

*4PRONG (CONT.)
BURMISTROV 74 P
100 BERGER 74C CS
ERWIN 74B CS
MORSE 76 CS
102 BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 76 CS
CHAPMAN 73 MASS,P
ERWIN 74B CS
200 ADAMOVICH 75B CS,
P
ANTENCVA 74F CS
ANZEN 73D ANGP
205 BARISH 74J CS
JAGER 74 CS
KARKA 75 CS
PRATAP 74B ANG, ASYM
TAILLING 74B CS
WHITMORE 74B CS,
MASS,PT
WINKELMANN 73B
MASS
MENZIONE 75 1
257 DAO 74C CS
300 FIRESTONE 74 CS
400 BROMBERG 76 CS
405 BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 76B CS
CHAPMAN 73 MASS,P
2080 MENZIONE 75
*AGAMMA ANYTHING
300 FNAL-343
1510 DELL 75
*GAMMA 4PRONG
12. CAMPBELL 73B
205 JAGER 74 CS
300 SHENG 74 CS
*N(P10) 4PRONG
12. BLOBEL 74B MULT
CAMPBELL 73B
24. BLOBEL 74B MULT
69. BLUMENFELD 75
MULT
205 YAMDAGNI 75 MULT
303 YAMDAGNI 75 MULT
*PI+ 4PRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*P10 4PRONG
12. CAMPBELL 73B
100 WARD 76 CS
205 JAGER 74 CS
*3PI- N(PI+) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
*3PI- N(PI0) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
*4PI- ANYTHING
12. VONHOLT 76B CS
24. VONHOLT 76B CS
*PI- 4PRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*(K+K-) 4PRONG
205 YAMDAGNI 75 MULT
303 YAMDAGNI 75 MULT
*K0 AKO PI+ PI- ANYTHING
205 FNAL-369 1
*K5 ACHARGED
6.9 AMNDSOV 75G CS,P
*K5 4PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*2P PI+ PI0 PI-
6.9 YERUTIELI 69
10. ALMEIDA 68
12. ANL-E-367 FV
BLOBEL 73B MASS
BLOBEL 74C MASS
BLOBEL 75 MASS
GEICHGIMBEL 75
ANGP,CS,MASS,
P
VONHOLT 76B CS
13. SENE 74
19. BOGGILD 68 CS
BOGGILD 75 CS,P
TAKIBAEV 74E
TAKIBAEV 741
24. BLOBEL 73B MASS
BLOBEL 74C MASS
BLOBEL 75 MASS
GEICHGIMBEL 75
ANGP,CS,MASS,
P
VONHOLT 76B CS
*2P PI+ PI- PI0S
10. ALMEIDA 68
*2P PI+ PI- MMGE=2
69. DENEGRI 75 MASS,
PT
*2P PI+ PI- NEUTRALES)
19. HALDORSEN 72
*2P RHO0 PI+ PI-
12. BLOBEL 76 CS,P,PT
19. ALLAN 75B CS,MASS
24. BLOBEL 75C CS
BLOBEL 76 CS,P,PT
*2P OMEGA PI+ PI-
12. BLOBEL 76 CS,P,PT
24. BLOBEL 75C CS
BLOBEL 76 CS,P,PT
*2P PI+ PI- PI-
24. BLOBEL 75C CS
*2P K+ AKO PI-
6.9 ALEXANDER 68D
7.5 FIREBAUGH 68
*2P K0 AK0 P10
10. HOLMGREN 67 CS
*2P K0 K- PI+
7.9 FIREBAUGH 68
*2P 2PRONG ANYTHING
293-2323 ARMITAGE 76B
*P N 2PI+ PI-
2.2 EISNER 65
2.8 PICKUP 62
3.7 HART 62
4.0 BODINI 68 CS
KIDD 63 CS
4.9 COLLERAINE 67
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
CASO 68
CHINOWSKY 68 CS
KINSEY 68 CS
COLTON 68B ANGP,
CS
6.6 YERUTIELI 69
10. ALMEIDA 68
12. ANL-E-367 FV
BLOBEL 75 MASS
VONHOLT 76B CS
13. SENE 74
19. BAKKEN 75
BLOMQVIST 75D
BOGGILD 68 CS
BOGGILD 75 CS,P
TAKIBAEV 74E
TAKIBAEV 741
24. BLOBEL 75 MASS
VONHOLT 76B CS
28. CONNOLLY 67
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
1 ALEXANDER 67 ANGP,
CS
*P N PI+ 2PI0
4.0 BODINI 68 CS
*P N K0 AK0 PI+
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P DEL++ PI+ 2PI-
6.0 CASO 68
24. BLOBEL 76 CS,P
*P LAMBDA K+ PI+ PI-
4.9 BIERMAN 66
6.9 ALEXANDER 68D

P P ---> (CONT.)

*2P PI+ PI0 PI- (CONT.)
6.9 YERUTIELI 69
10. ALMEIDA 68
12. ANL-E-367 FV
BLOBEL 73B MASS
BLOBEL 74C MASS
BLOBEL 75 MASS
GEICHGIMBEL 75
ANGP,CS,MASS,
P
VONHOLT 76B CS
13. SENE 74
19. BOGGILD 68 CS
BOGGILD 75 CS,P
TAKIBAEV 74E
TAKIBAEV 741
24. BLOBEL 73B MASS
BLOBEL 74C MASS
BLOBEL 75 MASS
GEICHGIMBEL 75
ANGP,CS,MASS,
P
VONHOLT 76B CS
*2P PI+ PI- PI0S
10. ALMEIDA 68
*2P PI+ PI- MMGE=2
69. DENEGRI 75 MASS,
PT
*2P PI+ PI- NEUTRALES)
19. HALDORSEN 72
*2P RHO0 PI+ PI-
12. BLOBEL 76 CS,P,PT
19. ALLAN 75B CS,MASS
24. BLOBEL 75C CS
BLOBEL 76 CS,P,PT
*2P OMEGA PI+ PI-
12. BLOBEL 76 CS,P,PT
24. BLOBEL 75C CS
BLOBEL 76 CS,P,PT
*2P PI+ PI- PI-
24. BLOBEL 75C CS
*2P K+ AKO PI-
6.9 ALEXANDER 68D
7.5 FIREBAUGH 68
*2P K0 AK0 P10
10. HOLMGREN 67 CS
*2P K0 K- PI+
7.9 FIREBAUGH 68
*2P 2PRONG ANYTHING
293-2323 ARMITAGE 76B
*P N 2PI+ PI-
2.2 EISNER 65
2.8 PICKUP 62
3.7 HART 62
4.0 BODINI 68 CS
KIDD 63 CS
4.9 COLLERAINE 67
5.5 ALEXANDER 67
6.0 ANL-E-367 FV
CASO 68
CHINOWSKY 68 CS
KINSEY 68 CS
COLTON 68B ANGP,
CS
6.6 YERUTIELI 69
10. ALMEIDA 68
12. ANL-E-367 FV
BLOBEL 75 MASS
VONHOLT 76B CS
13. SENE 74
19. BAKKEN 75
BLOMQVIST 75D
BOGGILD 68 CS
BOGGILD 75 CS,P
TAKIBAEV 74E
TAKIBAEV 741
24. BLOBEL 75 MASS
VONHOLT 76B CS
28. CONNOLLY 67
50. FNAL-110A
100 FNAL-110A
200 FNAL-110A
1 ALEXANDER 67 ANGP,
CS
*P N PI+ 2PI0
4.0 BODINI 68 CS
*P N K0 AK0 PI+
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P DEL++ PI+ 2PI-
6.0 CASO 68
24. BLOBEL 76 CS,P
*P LAMBDA K+ PI+ PI-
4.9 BIERMAN 66
6.9 ALEXANDER 68D

P P ---> (CONT.)

*P LAMBDA K+ PI+ PI- (CONT.)
7.9 FIREBAUGH 68
*P LAMBDA K0 PI+ PI0
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P SIGMA+ K+ PI0 PI-
7.9 FIREBAUGH 68
*P SIGMA+ K0 PI+ PI-
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*P SIGMA0 K+ PI+ PI0
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
*P SIGMA- K0 2PI+
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
13. HOLMGREN 67 CS
*2N 2PI+ MMGE=2
4.0 BODINI 68 CS
8.1 GINESTET 69 ANGP,
CS
13. ALMEIDA 68
*N LAMBDA K0 2PI+
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HOLMGREN 67 CS
*N SIGMA+ K+ PI+ PI-
7.9 FIREBAUGH 68
*N SIGMA- K+ 2PI+
7.9 FIREBAUGH 68
*DEL++ 4PRONG
205 DERRICK 77 CS
*LAMBDA K+ 3PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
MAGNAN 75 CS,PT
205 JAGER 74 CS
300 SHENG 74 CS
*LAMBDA ACHARGED
6.9 AMNDSOV 75G CS
*DEUT 2PI+ PI0 PI-
6.9 COLLERAINE 67
6.0 KINSEY 68 CS
*ACHARGED- ANYTHING
200 OH 76 CS,P,PT
300 OH 76 CS,P,PT
*3PRONG
100 MORSE 76 CS
*4PRONG NEUTRALS
205 WHITMORE 73B MASS
*5GAMMA ANYTHING
300 FNAL-343
1510 DELL 75
*N(PI0) 5PRONG
69. BLUMENFELD 75
MULT
*PI+ PI- 4PRONG
69. BLUMENFELD 75
MASS
MASS
*PI+ 5PRONG
BLUMENFELD 75 P
*P10 ACHARGED ANYTHING
303 DAO 73B CS,MULT
*4PI- N(PI+) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
*4PI+ N(PI0) ANYTHING
12. VONHOLT 76B MULT
24. VONHOLT 76B MULT
*3PI- ANYTHING
13. SENE 74
*3PI- 5PRONG
13. SENE 74
69. BLUMENFELD 75 P
200 SMITH 75D P
*KC AK0 4PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS

REACTION/MOMENTUM INDEX (CONT'D)

P P --> (CONT.)
*K$ &CHARGED ANYTHING
303 DAC 73B CS,MULT
*P P1+ P1- 3PRONG
205 DERRICK 77 MASS
*P PI+ 4PRONG
205 BARISH 76J MASS
DERRICK 77 MASS
*P 2PI- 3PRONG
235 DERRICK 77 MASS
*2P 2PI+ 2PI-
5.5 ALEXANDER 67
10. HELMGREN 68 CS
12. BIALAS 74C P
BLOBEL 74 CS,MULT,
P
BLOBEL 76 CS,MASS,
PT
VCNHOLT 76B CS
13. SENE 74
19. ALLAN 75 ANG,MASS,
P
ALLAN 75B CS,MASS
BOGGILD 75 CS,P
24. BIALAS 74C P
BLOBEL 74 CS,MULT,
P
BLOBEL 76 CS,MASS,
PT
VCNHOLT 76B CS
28. CONNOLLY 69
HANLON 73 CS,P
HANLON 74B
KENYON 69B P
200 WHITMORE 75B ANG,
ANGP,MASS
205 DERRICK 77 CS
281 CERN-R-411
GOGGI 75C
300 WHITMORE 75B ANG,
ANGP,MASS
511 CERN-R-411
GOGGI 75C
1080 CERN-R-411
1500 CERN-R-411
GOGGI 75C
2110 CERN-R-411
? DERRICK 75
*2P PI+ 2PI0 PI-
2.8 PICKUP 62
*2P K0 AK0 PI+ PI-
7.9 FIREBAUGH 68
10. HELMGREN 67 CS
*2P K0 K- PI+ PI0
6.5 ALEXANDER 68D
7.9 FIREBAUGH 68
*2P 4PRONG
300 FIRESTONE 75 ANG,
ANGP,MASS
*P N 2PI+ PI0 PI-
2.8 PICKUP 62
12. GEICH-GIMBEL 75
ANGP,CS,MASS,
P
24. GEICH-GIMBEL 75
ANGP,CS,MASS,
P
*P N 2PI+ PI- PI0(S)
10. ALMEIDA 68
*P N K+ AK0 PI+ PI-
6.5 ALEXANDER 68D
7.9 FIREBAUGH 68
*P N K0 K- 2PI+
7.9 FIREBAUGH 68
*P LAMBDA K+ PI+ P10 PI-
6.5 ALEXANDER 68D
7.9 FIREBAUGH 68
*P LAMBDA K0 2PI+ PI-
6.9 ALEXANDER 68D
7.9 FIREBAUGH 68
10. HELMGREN 67 CS
*P SIGMA+ K0 PI+ P10 PI-
10. HELMGREN 67 CS
*P SIGMA0 K0 2PI+ PI-
6.9 ALEXANDER 68D
*P SIGMA- K0 2PI+ P10
10. HELMGREN 67 CS
*P 5PRONG
69. BLUMENFELD 75 P
205 BARISH 73C ANGP
*N LAMBDA K+ 2PI+ PI-
6.5 ALEXANDER 68D
7.5 FIREBAUGH 68

P P --> (CONT.)
*N SIGMA+ K0 2PI+ PI-
6.9 ALEXANDER 68D
10. HELMGREN 67 CS
*N SIGMA- K0 3PI+
10. HELMGREN 67 CS
*LAMBDA K0 4PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*2CHARGED+ 4PRONG
205 SINGER 74B P
*CHARGED+ CHARGED- 4PRONG
205 SINGER 74B P
*5CHARGED- ANYTHING
200 OH 76 CS,P,PT
300 OH 76 CS,P,PT
*2CHARGED- 4PRONG
205 SINGER 74B P
*&CHARGED
200 PRATAP 76 P
*0PRONG
4.0 BOGUNI 68 CS
12. BLOBEL 74B CS
BLOBEL 75 CS
CAMPBELL 73B
SENE 74
13. MA 73 P,PT
21. MA 73
24. BLOBEL 74B CS
BLOBEL 75 CS
28. CONNOLLY 69
MA 73 P
SCHREINER 74C
SCHUBELIN 75
69. BABINTSEV 76 CS
BIALKOWSKA 74
MASS,
P
BIALKOWSKA 75
MASS,
P
BUNAZSHNOV 74 P
100 BERGER 74C CS
ERWIN 74B CS
MORSE 76 CS
102 BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 76 CS
CHAPMAN 73 MASS,P
ERWIN 74 CS
200 ADAMOVICH 75B CS,
P
ANTINCVCA 74F CS
ANZON 73D ANGP
BARISH 74 CS
BARISH 74J CS
DERRICK 77 CS
JAGER 74 CS
KAFKA 75 CS
MA 73 P,PT
PRATAP 74B ANG,
ASYM
SCHULTZ 74
TRILLING 74B CS
WHITMER 74B CS,
MASS,PT
205 MENZIONE 75 CS,P
300 DAQ 74C CS
FIRESTONE 74 CS
FIRESTONE 74B
MASS
400 BROMBERG 76 CS
405 BROMBERG 73 CS
BROMBERG 75 CS
BROMBERG 76B CS
CHAPMAN 73 MASS,P
2050 MENZIONE 75 CS
*&GAMMA ANYTHING
1510 DELL 75
*GAMMA 6PRONG
12. CAMPBELL 73B
205 JAGER 74 CS
300 SHENG 74 CS
*N(P10) 6PRONG
12. BLOBEL 74B MULT
CAMPBELL 73B
24. BLOBEL 74B MULT
69. BLUMENFELD 75 MULT
205 YAMDAGNI 75 MULT
303 YAMDAGNI 75 MULT
*PI+ 6PRONG
205 BLOBEL 74B P,PT
24. BLOBEL 74B P,PT

P P --> (CONT.)
*P10 6PRONG
12. CAMPBELL 73B
100 WARD 74 CS
205 JAGER 74 CS
*5PI- N(PI+)1 ANYTHING
12. VCNHOLT 76B MULT
24. VCNHOLT 76B MULT
*5PI- N(PI0)1 ANYTHING
12. VCNHOLT 76B MULT
24. VCNHOLT 76B MULT
*PI- 6PRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*N(K$) 6PRONG
205 YAMDAGNI 75 MULT
303 YAMDAGNI 75 MULT
*K$ &CHARGED
69. AMMOSOV 75G CS,P
*K$ 6PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
HAGMAN 75 CS,PT
100 WARD 74 CS
300 SHENG 74 CS
*2P 2PI+ P10 2PI-
12.5 ALEXANDER 67
10. HELMGREN 68 CS
12. BLOBEL 76 CS,MASS,
PT
SENE 74
24. BLOBEL 76 CS,MASS,
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*2P PI+ PI- 2CHARGED
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28. CANTER 75
*2P K0 &H20 2PI+ 2PI-
12. BLOBEL 76 CS
24. BLOBEL 75C CS
BLOBEL 76 CS
*2P OMEGA 2PI+ PI-
24. BLOBEL 75C CS
*2P PH1 2PI+ 2PI-
24. BLOBEL 75C CS
*2P K0 &K0 PI+ P10 PI-
10. HELMGREN 67 CS
*2P K0 3PI+ 2PI-
5.5 ALEXANDER 67
10. HELMGREN 68 CS
13. SENE 74
*2P K+ K0 AK0 2PI+ PI-
10. HELMGREN 67 CS
*P DEL++ 2PI+ 3PI-
12. BLOBEL 74B CS
24. BLOBEL 76 CS
*P LAMBDA K0 2PI+ P10 PI-
10. HELMGREN 67 CS
*2N 3PI+ PI- MM,GE+2
10. ALMEIDA 68
*N LAMBDA K0 3PI+ PI-
10. HELMGREN 67 CS
*LAMBDA K+ 5PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*LAMBDA 6CHARGED
69. AMMOSOV 75G CS,P
*LAMBDA 6PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*ALAMBDA 6CHARGED
69. AMMOSOV 75G CS
*&CHARGE- ANYTHING
200 OH 76 CS,P,PT
303 OH 76 CS,P,PT
*&PRONG NEUTRALS
205 WHITMORE 73B MASS
*GAMMA ANYTHING
1510 DELL 75
*N(P10) 7PRONG
69. BLUMENFELD 75
MULT
*PI+ PI- 6PRONG
69. BLUMENFELD 75
MASS
*PI+ 7PRONG
205 YAMDAGNI 75 MULT
303 YAMDAGNI 75 MULT
*PI- 6PRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT

P P --> (CONT.)
*PI- 7PRONG (CONT.)
200 SMITH 75D P
*K0 AK0 6PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*K$ &CHARGED ANYTHING
303 CAC 73B CS,MULT
*P PI+ 6PRONG
205 BARISH 74J MASS
*2P 3PI+ 3PI-
12. BIALAS 74C P
BLOBEL 74 CS,MULT,
P
BLOBEL 76 CS,MASS,
PT
VCNHOLT 76B CS
13. SENE 74
19. BOGGILD 75 CS,P
24. BIALAS 74C P
BLOBEL 74 CS,MULT,
P
BLOBEL 76 CS,MASS,
PT
VCNHOLT 76B CS
28. CONNOLLY 69
HANLON 73 CS,P
HANLON 74B
*2P &PRONG
300 FIRESTONE 75 ANG,
ANGP,MASS
*P 7PRONG
69. BLUMENFELD 75 P
205 BARISH 73C ANGP
*LAMBDA K0 6PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*2CHARGED+ 6PRONG
205 SINGER 74B P
*2CHARGED- 6PRONG
205 SINGER 74B P
*7CHARGED- ANYTHING
200 OH 76 CS,P,PT
300 OH 76 CS,P,PT
*2CHARGED- 6PRONG
205 SINGER 74B
*&CHARGED
200 PRATAP 76 P
*8PRONG
12. BLOBEL 74B CS
BLOBEL 75 CS
CAMPBELL 73B
13. SENE 74
24. BLOBEL 74B CS
BLOBEL 75 CS
28. CONNOLLY 69
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69. BABINTSEV 76 CS
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P
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ERWIN 74B CS
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102 BROMBERG 73 CS
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200 ADAMOVICH 75B CS,
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ANTINCVCA 74F CS
ANZON 73D ANGP
BARISH 74 CS
BARISH 74J CS
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69. PABINTSEV 76 CS
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ERWIN 74B CS
MORSE 76 CS
102 BROMBERG 73 CS
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200 ADAMOVICH 75B CS,
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ANTINCVCA 74F CS
ANZON 73D ANGP
BARISH 74 CS
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JAGER 74 CS
KAFKA 75 CS
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PRATAP 74B ANG,
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WINKELMANN 73B
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300 DAQ 74C CS
FIRESTONE 74 CS
400 BROMBERG 76 CS

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P P --> (CONT.)
*BPRONG (CONT.)
405 BROMBERG 73 CS
BROMBERG 73 CS
BROMBERG 74B CS
BROMBERG 74B CS
2050 MENZIONE 75
*BGAMMA ANYTHING
1510 DELL 75
*GAMMA BPRONG
12. CAMPBELL 73E
205 JAGER 74 CS
300 SHENG 74 CS
*N(PI0 BPRONG
12. BLOBEL 74B MULT
CAMPBELL 73B MULT
24. BLOBEL 74B MULT
64. BLUMENFELD 75 MULT
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205 YAMAGNI 75 MULT
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*PI+ BPRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*PI0 BPRONG
12. CAMPBELL 73B
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205 JAGER 74 CS
*PI- BPRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*N(K3) BPRONG
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303 YAMAGNI 75 MULT
*K3 BCHARGED
64. AMMOSOV 75G CS,P
*K3 BPRONG
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*2P 3PI+ PI0 3PI-
13. SENE 74
*3P RHO0 3PI+ 3PI-
24. BLOBEL 75C CS
*2P OMEGA 3PI+ 3PI-
24. BLOBEL 75C CS
*2P PHI 3PI+ 3PI-
24. BLOBEL 75C CS
*P N 4PI+ 3PI-
13. SENE 74
*LAMBDA K+ 2PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*LAMBDA BCHARGED
64. AMMOSOV 75G CS,P
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19. ALPGARD 74 CS
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ALPGARD 76 CS
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205 JAGER 74 CS
300 SHENG 74 CS
*ALAMBDA BCHARGED
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*BCHARGED- ANYTHING
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*BGAMMA ANYTHING
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*PI+ PI- BPRONG
64. BLUMENFELD 75
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*PI0 BCHARGED ANYTHING
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*PI- 0PRONG
13. SENE 74
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*K0 AK0 0PRONG
19. ALPGARD 74 CS
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*K3 BCHARGED ANYTHING
303 DAO 73B CS,MULT
*2P 4PI+ 4PI-
12. BIALAS 76G P
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13. SENE 74
19. BOGGILD 75 CS,P
24. BIALAS 76G P
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*2P 4PI+ 4PI- (CONT.)
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*5CHARGED- ANYTHING
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281 AMENDOLIA 75
2050 AMENDOLIA 75
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BIALKOWSKA 75
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*1OGAMMA ANYTHING
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*GAMMA 1OPRONG
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*N(PI0) 1OPRONG
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*PI+ 1OPRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*PI0 1OPRONG
12. CAMPBELL 73B
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205 JAGER 74 CS
*PI- 1OPRONG
12. BLOBEL 74B P,PT
24. BLOBEL 74B P,PT
*N(K3) 1OPRONG
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303 YAMAGNI 75 MULT
*K3 1OCHARGED
69. AMMOSOV 75G CS,P
*K3 1OPRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
100 WARD 76 CS

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*K3 1OPRONG (CONT.)
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*2P 4PI+ PI0 4PI-
13. SENE 74
*P N 5PI+ 4PI-
13. SENE 74
*LAMBDA K+ 3PRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
*LAMBDA 1OCHARGED
69. AMMOSOV 75G CS
*LAMBDA 1OPRONG
19. ALPGARD 74 CS
ALPGARD 74B CS
ALPGARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*ALAMBDA 1OCHARGED
69. AMMOSOV 75G CS
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300 OH 76 CS,P,PT
*1OGAMMA ANYTHING
1510 DELL 75
*2P0 12OCHARGED ANYTHING
303 DAO 73B CS,MULT
*2P- 1PRONG
200 SMITH 75D P
*K0 AK0 1OPRONG
19. ALPGARD 74 CS
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*2CHARGED+ CHARGED- 1OPRONG
205 SINGER 74B P
*1CHARGED- ANYTHING
200 OH 76 CS
300 OH 76 CS
*1CHARGED- 1OPRONG
205 SINGER 74B P
*1CHARGED
205 PRATAP 76 P
*12PRONG
12. BLOBEL 74B CS
13. SENE 74
24. BLOBEL 74B CS
28. CONNOLLY 69
SCHREINER 74C
SCHWEBELIN 75
69. BABTNTSEV 76 CS
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ANZON 73D ANGP
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BROMBERG 73 CS
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*GAMMA 12PRONG
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303 YAMAGNI 75 MULT
*PI+ 12PRONG
100 WARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*PI- 12PRONG
100 WARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*PI0 12PRONG
100 WARD 76 CS
205 JAGER 74 CS

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*N(K3) 12PRONG
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303 YAMAGNI 75 MULT
*K3 12CHARGED
64. AMMOSOV 75G CS
*K3 12PRONG
100 WARD 76 CS
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*LAMBDA 12CHARGED
64. AMMOSOV 75G CS
*LAMBDA 12PRONG
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*LAMBDA 12CHARGED
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*12CHARGED- ANYTHING
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300 OH 76 CS
*13GAMMA ANYTHING
1510 DELL 75
*P10 12CHARGED ANYTHING
303 DAO 73B CS,MULT
*P1- 13PRONG
200 SMITH 75D P
*K3 12CHARGED ANYTHING
303 DAO 73B CS,MULT
*2CHARGED+ 12PRONG
205 SINGER 74B P
*CHARGED+ CHARGED- 12PRONG
205 SINGER 74B P
*2CHARGED- 12PRONG
205 SINGER 74B P
*2CHARGED 12PRONG
281 AMENDOLIA 75
2050 AMENDOLIA 75
*14PRONG
12. BLOBEL 74B CS
24. BLOBEL 74B CS
28. SCHWEBELIN 75
69. BABINTSEV 76 CS
BUNAZHNOV 74 P
100 BERGER 74C CS
ERWIN 74B CS
MORSE 76 CS
BROMBERG 73 CS
BROMBERG 74B CS
200 ANTONCVA 74F CS
205 BARISH 74J CS
BAPISH 74J CS
JAGER 74 CS
KAFKA 75 CS
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TRILLING 74B CS
257 MENZIONE 75
300 DAO 74C CS
FIRESTONE 74 CS
405 BROMBERG 73 CS
BROMBERG 74B CS
*14GAMMA ANYTHING
1510 DELL 75
*GAMMA 14PRONG
205 JAGER 74 CS
300 SHENG 74 CS
*N(PI0) 14PRONG
12. BLOBEL 74B MULT
24. BLOBEL 74B MULT
205 YAMAGNI 75 MULT
303 YAMAGNI 75 MULT
*PI+ 14PRONG
100 WARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*PI- 14PRONG
100 WARD 76 CS
205 JAGER 74 CS
300 SHENG 74 CS
*LAMBDA 14CHARGED
64. AMMOSOV 75G CS
*LAMBDA 14PRONG
205 JAGER 74 CS
300 SHENG 74 CS
*13GAMMA ANYTHING
1510 DELL 75
*PI- 15PRONG
200 SMITH 75D P
*K3 14CHARGED ANYTHING
303 DAO 73B CS,MULT
*16PRONG
12. BLOBEL 74B CS
24. BLOBEL 74B CS

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P P --> (CONT.)

*16PRCNG (CONT.)
28. SCHUEBELIN 75
69. BABINTSEV 76 CS 1
100 BERGER 74C CS 1
ERWIN 74B CS 1
MORSE 76 CS 1
102 BRENBERG 73 CS 1
BRENBERG 74B CS 1
200 ANTONOVA 74F CS 1
205 BARISH 74 CS 1
BARISH 74J CS 1
JAGER 74 CS 1
KAPKA 75 CS 1
TRILLING 74B CS 1
257 MENZIONE 75
300 DAO 74C CS 1
FIRESTONE 74 CS 1
405 BROMBERG 73 CS 1
BROMBERG 74B CS 1
2050 MENZIONE 75
300 DAO 74C CS 1
*GAMMA 16PRCNG
205 JAGER 74 CS 1
300 SHENG 74 CS 1
*N(PI0) 16PRCNG
12. BLOBEL 74B MULT 1
24. BLOBEL 74B MULT 1
205 YAMAGAMI 75 MULT 1
303 YAMAGAMI 75 MULT 1
*PI0 16PRCNG
100 WARD 76 CS 1
205 JAGER 74 CS 1
*N(KS) 16PRCNG
205 YAMDAGNI 75 MULT 1
303 YAMAGAMI 75 MULT 1
*KS 16PRCNG
100 WARD 76 CS 1
300 SHENG 74 CS 1
*LAMBDA 16CHARGED
69. ARMOSOV 75G CS 1
*LAMBDA 16PRONG
235 JAGER 74 CS 1
300 SHENG 74 CS 1
*PI0 16CHARGED ANYTHING
303 DAO 73B CS,MULT 1
*PI- 17PRONG
200 SMITH 75D P 1
*KS 16CHARGED ANYTHING
303 DAO 73B CS,MULT 1
*18PRONG
28. SCHUEBELIN 75
100 BERGER 74C CS 1
ERWIN 74B CS 1
MORSE 76 CS 1
102 BRENBERG 73 CS 1
BRENBERG 74B CS 1
200 ANTONOVA 74F CS 1
205 BARISH 74 CS 1
BARISH 74J CS 1
JAGER 74 CS 1
KAPKA 75 CS 1
TRILLING 74B CS 1
257 MENZIONE 75 1
300 DAO 74C CS 1
FIRESTONE 74 CS 1
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405 BROMBERG 73 CS 1
BROMBERG 74B CS 1
2050 MENZIONE 75 1
*GAMMA 18PRCNG
205 JAGER 74 CS 1
300 SHENG 74 CS 1
*N(PI0) 18PRONG
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303 YAMAGAMI 75 MULT 1
*PI0 18PRONG
205 JAGER 74 CS 1
*N(KS) 18PRONG
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303 YAMAGAMI 75 MULT 1
*KS 18PRCNG
300 SHENG 74 CS 1
*LAMBDA 18PRONG
300 SHENG 74 CS 1
*KS 18CHARGED ANYTHING
303 DAO 73B CS,MULT 1
*2CHARGED 18PRONG
281 AMENDOLIA 75 1
2050 AMENDOLIA 75 1
*20PRONG
100 BERGER 74C CS 1
ERWIN 74B CS 1
MORSE 76 CS 1

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*23PRONG (CONT.)
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BROMBERG 74B CS 1
200 ANTONOVA 74F CS 1
205 BARISH 74 CS 1
JAGER 74 CS 1
*28PRONG
257 MENZIONE 75 1
300 DAO 74C CS 1
FIRESTONE 74 CS 1
SHENG 75B CS 1
405 BROMBERG 73 CS 1
BROMBERG 74B CS 1
2050 MENZIONE 75 1
*GAMMA 20PRCNG
205 JAGER 74 CS 1
300 SHENG 74 CS 1
*N(PI0) 20PRCNG
205 YAMDAGNI 75 MULT 1
303 YAMAGAMI 75 MULT 1
*PI0 20PRCNG
205 JAGER 74 CS 1
*N(KS) 20PRONG
205 YAMDAGNI 75 MULT 1
303 YAMAGAMI 75 MULT 1
*KS 20PRCNG
300 SHENG 74 CS 1
*LAMBDA 20PRCNG
300 SHENG 74 CS 1
*PI0 20CHARGED ANYTHING
303 DAO 73B CS,MULT 1
*KS 20CHARGED ANYTHING
303 DAO 73B CS,MULT 1
*22PRONG
100 BERGER 74C CS 1
200 ANTONOVA 74F CS 1
205 BARISH 74 CS 1
BARISH 74J CS 1
JAGER 74 CS 1
257 MENZIONE 75 1
300 DAO 74C CS 1
FIRESTONE 74 CS 1
SHENG 75B CS 1
405 BROMBERG 73 CS 1
BROMBERG 74B CS 1
2050 MENZIONE 75 1
*GAMMA 22PRONG
205 JAGER 74 CS 1
300 SHENG 74 CS 1
*N(PI0) 22PRONG
205 YAMDAGNI 75 MULT 1
303 YAMDAGNI 75 MULT 1
*PI0 22PRONG
205 JAGER 74 CS 1
*KS(S) 22PRONG
205 YAMDAGNI 75 MULT 1
303 YAMAGAMI 75 MULT 1
*KS 22PRONG
300 SHENG 74 CS 1
*24PRONG
200 ANTONOVA 74F CS 1
205 BARISH 74 CS 1
BARISH 74J CS 1
JAGER 74 CS 1
257 MENZIONE 75 1
300 DAO 74C CS 1
FIRESTONE 74 CS 1
SHENG 75B CS 1
405 BROMBERG 73 CS 1
BROMBERG 74B CS 1
2050 MENZIONE 75 1
*GAMMA 24PRONG
205 JAGER 74 CS 1
300 SHENG 74 CS 1
*N(PI0) 24PRONG
205 YAMDAGNI 75 MULT 1
303 YAMDAGNI 75 MULT 1
*PI0 24PRONG
205 JAGER 74 CS 1
*N(KS) 24PRONG
205 YAMDAGNI 75 MULT 1
303 YAMDAGNI 75 MULT 1
*KS 24PRONG
300 SHENG 74 CS 1
*26PRONG
200 ANTONOVA 74F 1
205 BARISH 74 1
JAGER 74 1
257 MENZIONE 75 1
300 DAO 74C 1
FIRESTONE 74 1
SHENG 75B 1
405 BROMBERG 73 1
BROMBERG 74B 1
2050 MENZIONE 75 1

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*GAMMA 26PRONG
205 JAGER 74 1
*PI0 26PRONG
205 JAGER 74 1
*KS 26CHARGED ANYTHING
303 DAO 73B 1
*28PRONG
200 ANTONOVA 74F 1
257 MENZIONE 75 1
303 DAO 74C 1
405 BROMBERG 73 1
BROMBERG 74B 1
2050 MENZIONE 75 1
*2CHARGED 28PRONG
281 AMENDOLIA 75 1
2050 AMENDOLIA 75 1
*30PRONG
257 MENZIONE 75 1
405 BROMBERG 73 1
BROMBERG 74B 1
2050 MENZIONE 75 1
*32PRONG
405 BROMBERG 73 1
BROMBERG 74B 1
2050 MENZIONE 75 1
*--- GT.2 1PRONG
* GT.1 1PRONG
200 JAIN 73D P 1
*E- ANYTHING
* E+ ANYTHING
269 SEGLER 76 1
293 BUSSER 76F 1
498 BLSSER 76F 1
SEGLER 76 1
1050 BUSSER 76F 1
1070 BUSSER 76F 1
SEGLER 76 1
1470 SEGLER 76 1
1480 BUSSER 76E 1
BUSSER 76F 1
SEGLER 76 1
2050 SEGLER 76 1
2070 BUSSER 76F 1
*MU- ANYTHING
* MU+ ANYTHING
74. NURUSHEV 74 POL, 1
PT 1
1280 CENCE 74 1
*P1+ DEUT
* DEUT P1+ PIJ
2.8 FICKINGER 62 1
*P1+ ANYTHING
* P1- ANYTHING
100 MORSE 76 P 1
281-2110 CAROLL 73 1
293 ALPER 76 1
498 ALPER 76 1
1060 ALPER 76 1
CAROLL 73 1
1480 ALPER 76 1
1500 PINSKY 74 1
*K+ ANYTHING
* P1+ ANYTHING 1
102 COOPER 740 ANGP 1
*K+ ANYTHING
* K- ANYTHING
291 ALPER 76 1
498 ALPER 76 1
1063 ALPER 76 1
CAROLL 73 1
1480 ALPER 76 1
*KO ANYTHING
* AKO ANYTHING
12. JAGER 74B 1
205 JAGER 74 ANGP,CS, 1
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*K- ANYTHING
* P1- ANYTHING
102 COOPER 740 ANGP 1
*--- 2P
* 1P ANYTHING
205 BARISH 73C ANGP, 1
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*--- 2P
* 2PRONG
12. CAMPBELL 73B 1
69. BIALKOWSKA 74 1
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P 1
*P ANYTHING ~ P S=1RANGE(S) 1
ANYTHING 1
12. BENECKE 74 ANGP, 1
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24. BENECKE 74 ANGP, 1
MASS,P 1

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*P ANYTHING
* AP ANYTHING
291 ALPER 76 1
498 ALPER 76 1
1060 ALPER 76 1
CAROLL 73 1
1480 ALPER 76 1
*N ANYTHING
* AN ANYTHING
300 DAC 74D MULT
*DEL++ N
* DEL+ P
13. TAKIBAEV 73 ANGP,
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*LAMBDA N(VEE)
* SIGMAO N(VEE)
100 WARD 76 MULT
*LAMBDA OPRONG
* SIGMAO OPRONG
100 WARD 76 CS
*LAMBDA N(PRONG)
* SIGMAO N(PRONG)
100 WARD 76 MULT
*LAMBDA ANYTHING
* SIGMAO ANYTHING
100 WARD 76 CS,P
300 SHENG 74 CS,MULT,
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*LAMBDA ANYTHING
* ASIGMAO ANYTHING
69. AMMOSOV 75G CS,P,
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300 SHENG 74 CS,MULT,
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*E- HADRONS ANYTHING
* E+ HADRONS ANYTHING
293 BUSSER 76F 1
498 BUSSER 76F 1
1070 BUSSER 76F 1
1480 BUSSER 76F 1
2070 BUSSER 76F 1
*2P1+ ANYTHING
* 2P1- ANYTHING
1070 BUSSER 76 1
1480 BUSSER 76 1
2070 BUSSER 76 1
*P1+ P1O ANYTHING
* P1O P1- ANYTHING
1070 BUSSER 76 1
BUSSER 76C 1
1480 BUSSER 76 1
BUSSER 76C 1
2070 BUSSER 76 1
BUSSER 76C 1
*P1O 2PRONG
* P1O 3PRONG
1500 EGGERT 75B 1
*K+ P1- ANYTHING
* K- P1+ ANYTHING
1500 ALDER 76 1
*KO 2PRONG
* KO 4PRONG
205 JAGER 74 CS
*P MU- ANYTHING
* N P MU- ANYTHING
200 BLANAR 76 MASS
240 BLANAR 76 MASS
*2P P1O
* P N P1+
19. DAHLJENSEN 74 ANP,
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*P SIGMAO K+
* N SIGMA+ K+
2.3-2.8 HOGAN 68
*NUCLEON HYPERON K+
* NUCLEON HYPERON K+ PION
2.3-2.8 HOGAN 68
*DEL++ DEL- P1+
* P DEL- 2P1+
13. ALMEIDA 68
*DEL++ DEL- P1+
* N DEL++ P1+ P1-
10. ALMEIDA 68
*LAMBDA K+ ANYTHING
* SIGMAO K+ ANYTHING
19. YAMDAGNI 73 CS
*LAMBDA KO ANYTHING
* SIGMAO KO ANYTHING
19. YAMDAGNI 73 CS
*LAMBDA 2PRONG
* SIGMAO 2PRONG
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*P1- 3PRONG
* P1- 4PRONG
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+ K- 4PRONG
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+2P 2PI0
+ 2P 3PI0
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+P N PI+ PI0
+ P N PI+ 2PI0
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+P LAMBDA K+ PI0
+ P SIGMA0 K+ PI0
6.0 CASO 68
+2N 2PI+
+ 2N 2PI+ PI0
2.8 PICKUP 62
+N LAMBDA K+ PI+
+ N SIGMA0 K+ PI+
6.0 CASO 68
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+ N CHARGED 2PRONG
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1080 AMALDI 75
1500 AMALDI 75
2110 AMALDI 75
+AP 3PRONG
+ AP 4PRONG
1500 AMALDI 75B
+DEUT 2PI+ PI-
+ DEUT 2PI+ PI0 PI-
2.8 PICKUP 62
+4PRONG
+ 6PRONG
25. GILBERT 73
+PI0 4PRONG
+ PI0 5PRONG
1500 EGGERT 75B
+K0 4PRONG
+ AK0 4PRONG
205 JAGER 74 CS
+LAMBDA 4PRONG
+ SIGMA0 4PRONG
100 WARD 76 CS
+K0 6PRONG
+ AK0 6PRONG
205 JAGER 74 CS
+2P 2PI+ 2CHARGED ANYTHING
+ 2P 2PI- 2CHARGED ANYTHING
28. CANTER 75
+LAMBDA 6PRONG
+ SIGMA0 6PRONG
100 WARD 76 CS
+PI+ PI- 6PRONG
+ PI+ PI- 8PRONG
205 SINGER 75 MASS
+8PRONG
+ 10PRONG
200 JAIN 73B P
+K0 8PRONG
+ AK0 8PRONG
205 JAGER 74 CS
+LAMBDA 8PRONG
+ SIGMA0 8PRONG
100 WARD 76 CS
+K0 10PRONG
+ AK0 10PRONG
205 JAGER 74
+LAMBDA 10PRONG
+ SIGMA0 10PRONG
100 WARD 76
+K0 12PRONG
+ AK0 12PRONG
205 JAGER 74
+LAMBDA 12PRONG
+ SIGMA0 12PRONG
100 WARG 76
+K0 14PRONG
+ AK0 14PRONG
205 JAGER 74
+LAMBDA 14PRONG
+ SIGMA0 14PRONG
100 WARD 76
+K0 16PRONG
+ AK0 16PRONG
205 JAGER 74
+LAMBDA 16PRONG
+ SIGMA0 16PRONG
100 WARG 76
+K0 18PRONG
+ AK0 18PRONG
205 JAGER 74
+K0 20PRONG
+ AK0 20PRONG
205 JAGER 74
+K0 22PRONG
+ AK0 22PRONG
205 JAGER 74

P P --> (CONT.)

+- PI+ PI- -GT.22PRONG
+ PI+ PI- -GT.10PRONG
205 SINGER 75 MASS
+- PI+ -GT.17PRONG
+ PI- -GT.9PRONG
1500 AMALDI 75B
+- K+ -GT.17PRONG
+ K- -GT.9PRONG
1500 AMALDI 75B
+- 2P
+ P ANYTHING
205 WINKELMANN 73B
ANGP
+- 2P
+ 2PRONG
12. IOSCHCK 73 CS,
MANY,P
24. IOSCHCK 73 CS,
MANY,P
+ N CHARGED 2PRONG
69. BIALKOWSKA 75 +
MASS,
P
OTWINOWSKI 74 +
ANGP,
CS
100 BERGER 74C CS
102 BROMBERG 74B CS
205 WHITMORE 74B CS,
MASS,PT
WINKELMANN 73B +
MASS
300 OAD 74C CS
405 BROMBERG 74B CS
+- 2P
+ 4PRONG
12. IOSCHCK 73 CS,
MANY,P
24. IOSCHCK 73 CS,
MANY,P
+- 2P
+ 6PRONG
12. IOSCHCK 73 CS,
MANY,P
24. IOSCHCK 73 CS,
MANY,P
+- 2P
+ 8PRONG
12. IOSCHCK 73
24. IOSCHCK 73
+- 2P
+ 10PRONG
+- 2P
+ 12PRONG
12. IOSCHCK 73
24. IOSCHCK 73
+- 2P
+ 14PRONG
12. IOSCHCK 73
24. IOSCHCK 73
+- 2P
+ 16PRONG
12. IOSCHCK 73
24. IOSCHCK 73
+- 2P
+ 18PRONG
12. IOSCHCK 73
24. IOSCHCK 73
+- 2P
+ 20PRONG
+- AP -GT.17PRONG
+ AP -GT.9PRONG
1500 AMALDI 75B
+2PRONG
+ AP 3PRONG
205 WINKELMANN 73B
P
+P LAMBDA K+
+ P SIGMA0 K+ + N SIGMA+ K+
2.3-2.8 HOGAN 68
+SIGMA+ KO ANYTHING
+ SIGMA- KO ANYTHING + KO
K- ANYTHING
19. YAMAGAMI 73 CS
+2P AND+ PI-
+ 2P AND0 PI0 + 2P AND++ PI+
19. TAKIBAEV 74I
+PI- 5PRONG
+ PI- 7PRONG + PI- 8PRONG
1500 AMALDI 75B
+K- 5PRONG
+ K- 7PRONG + K- 8PRONG
1500 AMALDI 75B
+ AP 7PRONG + AP 8PRONG
1500 AMALDI 75B

P P --> (CONT.)

+N CHARGED 4PRONG
+ N CHARGED 2PRONG + N
CHARGED 6PRONG + N CHARGED
12PRONG
511 AMALDI 75
1080 AMALDI 75
1500 AMALDI 75
2110 AMALDI 75
+2PRONG
+ 4PRONG + 8PRONG + 8PRONG
+ 12PRONG
200 JAIN 73B
+SIGMA+ KO ANYTHING
+ SIGMA- KO ANYTHING + K+
KO ANYTHING + 2KO ANYTHING
+ KO K- ANYTHING
19. ALPGARD 76
****
P N -->

(ENDT ENCODED)
.390 WIDGOFF 69
1.0-27. ALEKANDER 68H
1.0-70. BEDNYAKOV 73B
5.9 GAGE 72
7.0 YEKUTIELI 71
19. BOES 73 I+
21. TAKIBAEV 69
23. BROWNIE 71
23. ANISOVICH 74F
60. ANISOVICH 74F
200 JAIN 73F
? CAREY 73
+RHO0
7.0 BAKKEN 76C
12. BAKKEN 76C
+F
7.0 BAKKEN 76C
12. BAKKEN 76C
+SIGMA0
69. ABOO 73 MULT
+NICHARGED1
203 ANZON 73C MULT
+ GT.2PRONG
100 VANDERVELDE 76B
MULT
+PRONG
19. BOOS 76B
203 ADAMOVICH 75B CS,
P
ANTONICVA 74F CS
ANZON 73D ANGP
FNAL-194 ANGP,CS
FNAL-235 CS
FNAL-194 ANGP,CS
+NLPRONG1
6.4 DALKHAZHAV 75
MULT,
P
DALKHAZHAV 73
MULT,
P
130 FNAL-196 ANGP,CS
195 BRAUN 76C MULT
BRAUN 77 MULT
203 ANTONOVA 74F MULT
ANZON 73D MULT
205 FNAL-280 CS
300 SHENG 75 MULT
+ANYTHING
1.1-7.8 BUGG 66
3.3 ABRAMS 70C CS
6.0 ANL-E-433 CS,PCL
19-73. NARAIJUMI 75B CS
19. BOOS 76B
50. CARROLL 74C CS
100 CARROLL 74C CS
159 CARROLL 74C CS
194 AKIMOV 77 CS
203 CARROLL 74C CS
372 AKIMOV 77 CS
? ASHMORE 68
BATSON 69
BELLETTINI 65B
CARRELL 76B CS
DIDDENS 62B
GALBRAITH 65
+INELASTIC
130 LYS 77 CS
+GAMMA ANYTHING
? CAREY 73
+PION ANYTHING
403 ELLIS 77 P
+PI+(S) ANYTHING
19. TAKIBAEV 74C

P N --> (CONT.)

+PI-(S) ANYTHING
19. TAKIBAEV 74C
+N(PI+) ANYTHING
19. TAKIBAEV 74C
+N(PI-) ANYTHING
19. TAKIBAEV 74C
+PI+ ANYTHING
100 FNAL-196 ANGP,CS
200 FNAL-194 ANGP
205 FNAL-280 ANGP,CS
400 ANTRASEYAN 77+ PT
FNAL-194 ANGP
+PI- ANYTHING
12. HOCHMAN 74B
STROYNOWSKI 75
100 FNAL-196 ANGP,CS
200 FNAL-194 ANGP
STROYNOWSKI 75 P
205 FNAL-280 ANGP,CS
400 ANTRASEYAN 77B PT
FNAL-194 ANGP
+N(K+) ANYTHING
19. TAKIBAEV 74C
+N(K-) ANYTHING
19. TAKIBAEV 74C
+K0 ANYTHING
12. HOCHMAN 74B
+P ANYTHING
12. BIGLER 74
50.-400 ROBINSON 74
ROBINSON 75 P
100 FNAL-196 ANGP,CS
HAMLON 76 ANGP,CS+
MASS
100-400 MUSGRAVE 75
200 FNAL-194 ANGP
205 FNAL-280 ANGP,CS
400 FNAL-194 ANGP
+P OR < P PI- >
12. HOCHMAN 74
+N P
0.-1.4 MACGREGOR 68
.050-.16 AGENO 67
.13-.20 SLEE 67
.16 LASDEV 61
MEYER 61
POSS 62
.17 BENENSON 62
.19 DAY 53
.21 BENENSON 62
.22 SHERR 45
.28 HILDEBRAND 50
.28-.42 HADLEY 49
.28-.42 CLARK 54
.40 COCK 49
.43 DEJUREN 50B
.44-.46 CULLER 55
.44-.68 HOTT 52
.50 TAYLER 53
.57 DEJUREN 51
.59 TAYLER 53B
.60-2.0 MISCHKE 49
SHEPARD 65 ANGP
.64 KAZARINOV 63
.66 CECARVALHO 54
.68 DEJUREN 51
.76 DEJUREN 50
.78 FOX 50
.83 CECARVALHO 54
.84 DUTTON 55
.93 DZHELEPOV 54
.93-1.2 DZHELEPOV 56B
.93-1.3 DZHELEPOV 55B
.95-3.4 FOX 53
.97 NEDZEL 54
1.0-5.5 ROBRISH 70
1.2 DZHELEPOV 57
CICNTI 72
CLONTI 71
HASTELEY 61
ZULKARNEEV 75
1.2-1.7 FRIEDES 65
1.3
1.4-3.5 FRIEDES 65
1.6 LAW 59
1.7-2.1 DALKHAZHAV 69
1.8-2.7 PALEVSKY 62
2.0 ANL-E-418 ASYP
DIEBOLT 75 PCL
2.1 COOK 58
2.8 PALEVSKY 62
2.8-11. ZOLIN 66
3.0 ANL-E-418 ASYP
DIEBOLT 75 POL
FRIEDES 65 ANGP,
CS
3.0-10. BESLIN 69
3.0-12. MILLER 71

REACTION/MOMENTUM INDEX (CONT'D)

P N --> (CONT.)
+K P (CONT.)
3.5 PALEVSKY 62
4.0 ANL-E=418 ASYM
DIEBOLD 75 POL
PARKER 70
ZOLIN 72
4.0-10. ENGLER 68
4.8 ZCLIN 70
4.9 ATKINSON 61
5.0-30. GIBBARD 71
5.7 PARKER 70
5.5 ATKINSON 61 CS
6.0 ANL-E=418 ASYM
DIEBOLD 75 POL
8.0 ENGLER 71
MANNING 66 ANGP,
CS
8.0-21. ENGLER 738
8.0-26. KREISLER 718
8.0-400 FNAL-381 ANP,ANGP
9.0 ANL-E=391 ANGP,
ASYM
9.2 OZHOYANI 6E CS
10.-70. BEZNOGIKH 73 AMP
ANGP
12. ANL-E=391 ANGP,
ASYM
MARSHAK 708
15.-60. DENISOV 71
19. ENGLER 71
24. AMALDI 72C
ENGLER 71
30.-235 FNAL-312 ANGP
70. JAYACKI 71E
7 ALLREC 53
ASHMORE 57
ASHMORE 62
BATSON 59
BOWEN 61
BRATENAHL 58
CARROLL 64
CHAMBERLAIN 57
CELLINS 64
DEPANGHER 55
DUTTON 68
EASLEY 54
ENGELME 63
FIELDS 54
FLYNN 62
GNOCE 66
HARMER 53
HAMERMESH 55
HARTZLER 54
HARTZLER 54E
HOEBIE 60
HOFFMAN 62
KELLY 59
KREISLER 718
LANGSFORD 65
LEFRANCOIS 63
MALANIFY 66
MEASDAY 66
MEASDAY 66B
MURRAY 67
PATEL 62
PERKINS 63
PETERSON 60
RANCLE 56
REAY 68B
SCANLON 62
SEARAVE 55
SIEGEL 56
SPALDING 67
STAFFORD 57
STAFFORD 62
STAHL 54
STORRS 54
SUNAMI 67
THOMAS 68B
THRESHER 55
TINLOT 61
+N(P) ANYTHING
19. TAKIBAEV 74C
+PROTON(S) ANYTHING
19. TAKIBAEV 74C
+N(1470P1)10 P
12. HOCHMAN 74
+N(1470B)9 N
8.0-400 FNAL-381 ANGP
+N(1470B)10 P
3.7 COHN 70
7 SHAPIRA 68
+N(1520B)+ N
8.0-400 FNAL-381 ANGP

P N --> (CONT.)
+N(1688P1S)0 P
12. HOCHMAN 74
+N(1700B)+ N
8.0-400 FNAL-381 ANGP
+PI+(1+1/2) P
12. BOCKMANN 75 ANGP,
CS,MASS
+DEL++ ANYTHING
205 FNAL-280 ANGP,CS
+DELO P +
3.7 COHN 70
12. HOCHMAN 74
+DELO DEL+
3.7 COHN 70
+DEL- DEL++
3.7 COHN 68
COHN 70
5.9 KIRSCHBAUM 73
7.0 SHAPIRA 70
YEKUTIELI 70
19. BAKKEN 76D ANGP
? COHN 68
+PI+(1+3/2) P
12. BOCKMANN 75 ANGP,
CS,MASS
+N+(UNSPECIO ANYTHING
205 FNAL-280 ANGP,CS
300 FNAL-209 ANGP,CS
+2CHARGED
195 BRAUN 77 P
+ANYTHING CHARGED
200 FLORIAN 74 MULT
+ANYTHING NEUTRAL
205 FNAL-280 ANGP,CS
300 FNAL-209 ANGP,CS
+MU- MU+ ANYTHING
150 FNAL-331 ANGP,P
300 EARTLY 75 MASS
+P PI- ANYTHING
205 FNAL-280 ANGP,CS
300 FNAL-209 ANGP,CS
+2P PI-
7.0 YEKUTIELI 72B
12. BOCKMANN 75
19. BAKKEN 76D CS
BODS 76B
100 FNAL-196 ANGP,CS
205 FNAL-280 ANGP,CS
728 MANTOVANI 76B
? BATSON 59
BRUNT 65
SHAPIRA 68
+P N PI0
BATSON 59
+P N RHO0
7.0 BAKKEN 76C AMP,CS,
MASS
12. BAKKEN 76C
19. BAKKEN 76C AMP,CS,
MASS
+P N P
7.0 BAKKEN 76C AMP,CS,
MASS
12. BAKKEN 76C
19. BAKKEN 76C AMP,CS,
MASS
+P DEL- PI+
15. BAKKEN 76D ANGP
+P LAMBDA K0
6.0 ANL-E=427 ANG,
ANGP,ASYM,CS,
PCL
12. ANL-E=427 ANG,
ANGP,ASYM,CS,
POL
+2N PI+
? BATSON 59
+N DEL++ PI-
19. BAKKEN 76D ANGP
+N LAMBDA K+
6.0 ANL-E=427 ANG,
ANGP,ASYM,CS,
POL
12. ANL-E=427 ANG,
ANGP,ASYM,CS,
POL
+LAMBDA K0 ANYTHING
100 FNAL-196 ANGP,CS
+SIGMA K0 ANYTHING
100 FNAL-196 ANGP,CS
+3PRONG
19. BCDS 76B
195 BRAUN 76C P,PT
BRAUN 77 P
200 ADAMOVICH 75B CS,
P
ANTONOVA 74C CS

P N --> (CONT.)
+3PRONG (CONT.)
ANZON 73C ANGP
ANZON 73D ANGP
+2P PI0 PI-
19. BAKKEN 76D CS,
MASS
BCDS 76B
BRUNT 69
+P N PI+ PI-
19. BAKKEN 76D CS,
MASS
BCDS 76B
BRUNT 69
+2P PI+ 2PI-
28. HANLON 73 CS,P
+5PRONG
19. BCDS 76B
195 BRAUN 76C P,PT
BRAUN 77 P
200 ADAMOVICH 75B CS,
P
ANTONOVA 74F CS
ANZON 73D ANGP
+7PRONG
19. BCDS 76B
195 BRAUN 77 P
200 ANTONOVA 74F CS
ANZON 73D ANGP
+9PRONG
19. BCDS 76B
195 BRAUN 77 P
200 ANTONOVA 74F CS
ANZON 73D ANGP
+11PRONG
19. BODS 76B
195 BRAUN 77 P
200 ANTONOVA 74F CS
ANZON 73D ANGP
+13PRONG
19. BODS 76B
195 BRAUN 77 P
200 ANTONOVA 74F CS
+15PRONG
200 ANTONOVA 74F CS
+17PRONG
200 ANTONOVA 74F CS
+19PRONG
200 ANTONOVA 74F CS
+21PRONG
200 ANTONOVA 74F CS
+23PRONG
200 ANTONOVA 74F CS
+25PRONG
200 ANTONOVA 74F CS
+27PRONG
200 ANTONOVA 74F CS
+NEGATIVE
+ SIGMA ANYTHING
12. HOCHMAN 74B
****
P AN -->

+3PRONG
6.3 DULUDE 75 CS
+5PRONG
6.3 DULUDE 75 CS
+7PRONG
6.3 DULUDE 75 CS
****
P AP -->

+E+ E-
0.-1.3 BASSOMPIERRE 75
****
P NUCLEON -->

+NOT ENCODED
14. SINGH 72
100 LYS 77
100-400 WHITMORE 76 CS,
MASS,MULTI,P
100-1600 BELLETTINI 75 CS,
MULT,P,PT
+PRONG
21. AZIMOV 74L ANGP,P
50. AZIMOV 74L ANGP,P
67. AZIMOV 74L ANGP,P
200 ANTONOVA 74B P
ANTONOVA 74C ANGP,
P

P NUCLEON --> (CONT.)
+PRONG (CONT.)
ANTONOVA 74C CS
+N(PRONG)
23. SHIBATA 73
25. AZIMOV 74D MULT
50. AZIMOV 74D MULT
67. AZIMOV 74D MULT
+ANYTHING
53700-5.E+08
HALZEN 74E
+INELASTIC
1.E+05-2.E+08
GAISSER 74F
+E+ ANYTHING
300 APPEL 74 P,PT
+MU- ANYTHING
35. ABRAMOV 76B CS,PT
50. ABRAMOV 76B CS,PT
70. ABRAMOV 76B CS,PT
+MU+ ANYTHING
35. ABRAMOV 76B CS,PT
50. ABRAMOV 76B CS,PT
70. ABRAMOV 76 P
ABRAMOV 76B CS,PT
300 BOYMOND 74 PT
+MUON ANYTHING
19. BRAHMAN 77 PCL
+HYP-LEPTON ANYTHING
71. BUSHNIN 738
+PI+(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+PI-(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+PI0 ANYTHING
300 APPEL 74 P,PT
+ETA ANYTHING
150 ANDERSON 76J CS
+PHI ANYTHING
150 ANDERSON 76J CS
+RHOPRIME(1690) ANYTHING
150 ANDERSON 76J CS
+J/PSI(3100) ANYTHING
24. BINON 76 CS
150 PILCHER 75 CS
240 EISENSTEIN 75 CS
+PSI(3700) ANYTHING
225 ANDERSON 76H ANG,
CS,P,PT
+K+(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+K-(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+PROTON(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+AP(S) ANYTHING
201 CRONIN 73
301 CRONIN 73
+NUCLEON P
83. GOZA 71
+LAMBDA ANYTHING
300 HELLER 77
+HOMOPOLE ANYTHING
7 CUPERUS 70
+LCNGLIVED ANYTHING
205 HOSHINO 75 CS,PT
400 GUSTAFSON 76 CS
+2PRONG
200 ANTONOVA 74C P,PT
ANTONOVA 74C CS
+ANYTHING HADRON-
300 APPEL 74 P,PT
+ANYTHING CHARGED
20.-200 AZIMOV 75G P
200 ANTONOVA 74C P
+E- E+ ANYTHING
24. BINON 76 CS,MASS
+MU- MU+ HADRONS
10.-150 CHANG 76 ANG,MASS,
P
+MU- MU+ ANYTHING
400 KASHA 76 ANG
+3PRONG
23. SHIBATA 73
200 ANTONOVA 74C ANGP,
P
ANTONOVA 74C CS,P
ANTONOVA 74G CS
JAIN 74E ANGP,CS

REACTION/MOMENTUM INDEX (CONT'D)

P NUCLEON ---> (CONT.)

+APRONG
23. SHIBATA 73
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+BPRONG
23. SHIBATA 73
200 ANTONOVA 74C ANGP, P
ANTONOVA 74C CS+P
ANTONOVA 74G CS
+CPRONG
23. SHIBATA 73
200 ANTONOVA 74C ANGP, P
ANTONOVA 74C CS+P
ANTONOVA 74G CS
+DPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+EPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+FPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+GPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+HPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+IPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+JPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+KPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+LPRONG
200 ANTONOVA 74C ANGP, P
ANTONOVA 74G CS
+MU- ANYTHING
+ MU+ ANYTHING
400 KASHA 76 ANG
+OMEGA ANYTHING
+ PMCO ANYTHING
150 ANDERSON 76J CS
+2MU- ANYTHING
+ 2MU+ ANYTHING
400 KASHA 76 ANG

P DEUT --->

+NOT ENCODED1
.010 EURO 71
.050 WIDDOFF 69
.16 BURO 78B
.17 BOYD 68B
.19-.31 CARLSON 73C
.23 BROWN 69
.25 BATSON 66
.50 SIMON 71
.60 BOSCHITZ 70C
HUBI 65
.73 NAGLE 71
.83-1.2 ALDER 72
.87-1.3 TANNER 70
1.0-70. BEZNOGIKH 73B
1.2 BILENKAYA 70
1.7 GURVITS 75B
MURRAY 67
2.0 GROVES 70
2.8 COLEMAN 70B
3.0 BRODY 69B
GROVES 70

P DEUT ---> (CONT.)

+NOT ENCODED1 (CONT.)
MAGLICH 71B
3.3-7.7 CUDDEN 62B
7.0 SHAPIRA 68 CS
8.0-70. MIKITIN 72
9.6-24. ASHMORE 69
10. BRADAMANTE 71
11.-27. ZOLIN 72B
12. MARSHAK 70B
14. CHEMAREV 72B
19. ALLABY 69D
28. BURDETT 72
FOSTER 72
HANLON 72B
40. CCCL 73B
120 LYS 77
300 CCCL 73B
+ETA
3.5-3.8 BRODY 70C
+.6T3.2PRONG
100 DADC 75 CS
+.6T4.2PRONG
100 VANDERVELDE 76B
CS,
MULT
+APRONG1
100 DADC 75 MULT
LYS 77 MULT
EISENBERG 75C MULT
BRAUN 75B MULT
RCNAT 75 MULT
SPENG 75 MULT
+ANYTHING
1.2-1.8 BUGG 66
3.0 BERNAS 73C CS
6.0-22. GALBRAITH 65
15.-80. GORIN 71D
19. BELLETTINI 65B
TAMIRAE 74J
20.-200 FNAL-186 CS
20.-500 FNAL-104 CS
23.-200 ROHLF 75
49. AKIMOV 75 CS
50. CARROLL 74C CS
92. AKIMOV 75 CS
100 CARROLL 74C CS
LYS 76 MULT
LYS 77 CS
148 AKIMOV 75 CS
150 CARROLL 74C CS
174 AKIMOV 75 CS
200 CARROLL 74C CS
DOMBECK 76 CS,
MULT
RCNAT 75 CS
221 AKIMOV 75 CS
248 AKIMOV 75 CS
270 AKIMOV 75 CS
286 AKIMOV 75 CS
344 AKIMOV 75 CS
384 AKIMOV 75 CS
CARROLL 76E CS
+DD < ANYTHING >
7 MUKHIN 74 ANGP,
MASSP
+GAMMA HE3
.92 HEUSCH 75F
1.0 HEUSCH 75F
1.2 HEUSCH 74F
7 KLINE 74
+GAMMA ANYTHING
10. BUTLER 76
+E- ANYTHING
100 FNAL-300 ANGP
200 FNAL-300 ANGP
300 FNAL-300 ANGP
400 FNAL-300 ANGP
500 FNAL-300 ANGP
+E+ ANYTHING
100 FNAL-300 ANGP
200 FNAL-300 ANGP
300 FNAL-300 ANGP
400 FNAL-300 ANGP
500 FNAL-300 ANGP
+MU- ANYTHING
100 FNAL-330 ANGP
200 FNAL-330 ANGP
300 FNAL-330 ANGP
400 FNAL-330 ANGP
500 FNAL-330 ANGP
+MU+ ANYTHING
100 FNAL-300 ANGP
200 FNAL-300 ANGP
300 FNAL-300 ANGP
400 FNAL-300 ANGP

P DEUT ---> (CONT.)

+MU+ ANYTHING (CONT.)
500 FNAL-300 ANGP
+PI+ T
.66 KEMPKEY 74
1.4 DOLLHOPF 73
1.2 DOLLHOPF 75
+PI+ ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
FNAL-303 ANGP
150 FNAL-118A ANGP
200 FNAL-300 ANGP
FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77B PT
ANTREASYAN 77C PT
FNAL-300 ANGP
500 FNAL-300 ANGP
+PI- HE3
.38 FREDERICKSON 74
.46 FREDRICKSON 74
.58 FREDRICKSON 74
.66 KENARDY 74
.92 FREDRICKSON 76
1.2 FREDRICKSON 76
1.5 FREDRICKSON 76
+PI- ANYTHING
2.6 ODORICO 73 ANGP
3.8 ODORICO 73 ANGP
+PI+ ANYTHING
6.3 BALDIN 74B CS+P
8.4 BALDIN 74B CS+P
50. FNAL-118A ANGP
100 FNAL-118A ANGP
FNAL-303 ANGP
150 FNAL-118A ANGP
200 FNAL-300 ANGP
FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77B PT
ANTREASYAN 77C PT
FNAL-300 ANGP
500 FNAL-300 ANGP
+PI- HE3
2.6 ODORICO 73 ANGP
3.8 ODORICO 73 ANGP
+PI- ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
FNAL-300 ANGP
150 FNAL-118A ANGP
200 FNAL-300 ANGP
FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77C PT
FNAL-303 ANGP
500 FNAL-303 ANGP
+PI- ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
FNAL-300 ANGP
150 FNAL-118A ANGP
200 FNAL-300 ANGP
FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77C PT
FNAL-303 ANGP
500 FNAL-300 ANGP
+PP DUT
.53 NASSER 74
.53-1.3 IGO 74
.66 ADELBERGER 72
.66 DECARVALHO 74
.83 DECARVALHO 74
NASSER 74
.84 DUTTON 69
.93-1.3 KENARCY 73
.95-3.4 CHEN 58
.97 MARSHALL 53
1.0 ALBROW 71B
ANL-E-437 ANGP,
PCL
BCOTH 71C
CHERNEV 69
1.1-1.7 VORCBEV 76B
1.2 ALBROW 71B
ANL-E-437 ANGP,
PCL
BOSCHITZ 73B
FAIN 76
1.3 MURTAZAEV 7F
1.3-1.5 DUTTON 68
1.3-1.7 DUTTON 70

P DEUT ---> (CONT.)

+P DEUT (CONT.)
1.6 ANL-E-437
1.6-1.7 DUTTON 67
1.6 L&L 59
1.7 ANL-E-437
BENNETT 67
1.7-2.8 COLEMAN 66
COLEMAN 67
1.7-11. DALKHAZHAV 69
BRASCELL 74
1.8-10. MIRILLOVA 64B
1.8 BANAIGS 70
2.6-11. BRASCELL 74
MIRILLOVA 64B
MIRILLOVA 65
ZOLIN 66
3.0 ABRAMS 70C CS
WORBEL 72
BILEY 70
4.0 ZOLIN 72
4.2 BAYUKOV 66
7.0-500 FNAL-198A ANGP
9.0-70. MIKITIN 72
9.7 BRADAMANTE 70
10.-26. MIKITIN 73
10.-70. BEZNOGIKH 72B
BEZNOGIKH 73B
11.-27. ZOLIN 73
BRADAMANTE 70
15.-60. DENISOV 71 CS
16. BRADAMANTE 70
19. BELLETTINI 65B
23.-200 FNAL-186 ANGP
24. AMALDI 72C
25.-200 FNAL-398 ANGP
43. CCCL 73B
49. AKIMOV 75 ANGP,CS
50.-400 AKIMOV 74 ANGP
73. DEVENSEK 71
FAYACHKI 73
72. AKIMOV 75 ANGP,CS
148 AKIMOV 75 ANGP,CS
174 AKIMOV 75 ANGP,CS
221 AKIMOV 75 ANGP,CS
248 AKIMOV 75 ANGP,CS
270 AKIMOV 75 ANGP,CS
286 AKIMOV 75 ANGP,CS
300 CCCL 73B
344 AKIMOV 75 ANGP,CS
384 AKIMOV 75 ANGP,CS
7 MITCHELL 73
VINCENT 73
+P ANYTHING
<17 NAGEL 74
50. FNAL-118A ANGP
50.-400 ROBINSON 75 P
SANNES 75 ANGP,P
100 FNAL-118A ANGP
FNAL-300 ANGP
TAUTZ 76 ANGP,CS+
MASS
150 FNAL-118A ANGP
200 FNAL-300 ANGP
250 FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77C PT
FNAL-330 ANGP
500 FNAL-300 ANGP
+P QC < 2P PI- NEUTRALS >
10. HANLEN 76 CS,P,PT
20. HANLEN 76 CS,P,PT
+P QC < 2N PI+ NEUTRALS >
19. HANLEN 76 CS,P,PT
28. HANLEN 76 CS,P,PT
+N ANYTHING
1.3 BJORK 76
1.5 BJORK 76
+AP ANYTHING
50. FNAL-118A ANGP
100 FNAL-118A ANGP
FNAL-330 ANGP
150 FNAL-118A ANGP
200 FNAL-300 ANGP
250 FNAL-118A ANGP
300 FNAL-300 ANGP
400 ANTREASYAN 77C PT
500 FNAL-300 ANGP
+A1470B1+ DEUT
12. HECHMAN 74C
19. BARKEN 76 ANG
180 ALBROW 74B ANGP
270 AKIMOV 74B ANGP
+DEL++ DEUT+(2170)
12. HECHMAN 74C

REACTION/MOMENTUM INDEX (CONT'D)

P DEUT --> (CONT.)

++UNSPEC+* DEUT
7.0-50.0 FNAL-198A ANGP
+DEUT ANYTHING
0.-300 FNAL-317 ANGP, MASS
.470-1.7 AZHGIREI 72
20.-200 FNAL-186 ANGP
25.-200 FNAL-296 ANGP,P
50. AKIMOV 75B AKIMOV 7+ ANGP, MASS
53.-400 AKIMOV 7+ ANGP, MASS,PT
AKIMOV 74C MASS
AKIMOV 76 ANGP,CS, MASS
CLSEN 75 ANGP, MASS
65. AKIMOV 77 ANGP,P
80. AKIMOV 75B ANGP, MASS
100 FNAL-300 ANGP
153 AKIMOV 75C ANGP, MASS
150-400 JACOB 74F ANG,CS, MASS
154 AKIMOV 77 ANGP,P
180 AKIMOV 74B CS, MASS
GELLIANOS 75 ANGP, MASS
230 FNAL-154 ANGP
FNAL-300 ANGP
205 FNAL-28C ANGP,CS
270 AKIMOV 74B CS, MASS
275 AKIMOV 75B ANGP, MASS
AKIMOV 75C ANGP, MASS
GCGGI 75 MASS
GCULIANOS 75 ANGP, MASS
300 FNAL-300 ANGP
372 AKIMOV 77 ANGP,P
385 AKIMOV 75C ANGP, MASS
400 FNAL-194 ANGP
FNAL-300 ANGP
500 FNAL-300 ANGP
+ADEUT ANYTHING
100 FNAL-300 ANGP
200 FNAL-300 ANGP
300 FNAL-300 ANGP
400 FNAL-300 ANGP
900 FNAL-300 ANGP
+HE3 NEUTRALIST
2.0 BRODY 72
BRODY 72B
BRODY 74 CS,MASS
3.0 BRODY 690
BRODY 72
BRODY 76 CS,-ASS
3.5-3.8 BRODY 70C
7 SCHLUTER 73
+2PRONG
195 EISENBERG 75C CS
+ANYTHING VEE
1.8 BUTLER 76
+P(SPECT) PI- KIPRONG
195 EISENBERG 76 MULT
EISENBERG 76C MULT
+P(SPECT) P N
8.0-400 FNAL-381 AMP,ANGP
+2P N
.11 KENAROV 7C
.14 KENAROV 7C
.32 BRUECKMANN 65
BRUECKMANN 76
BRUECKMANN 78B
1.2 FURIC 73
GOLOVIN 72
GOLOVIN 74
1.3 BJORK 76
BJORK 76B
GOLOVIN 75
1.5 BJORK 76
BJORK 76B
1.6 ALBERI 76B
3.3 ALADASHVILI 75B ANGP,P
7 COCU 74 P
COCU 74B

+2P NEUTRALIST
100 FNAL-19C ANGP,CS
+P N ANYTHING
1.3 KIRKBY 74 P
+P DEL+ DEL-
12. HOCHMAN 74D
+DEUT P PI3
1.4E BARALLA 74
+DEUT P OMEGA
15. BARKEN 76 CS
+DEUT N PI+
1.8 BARALLA 74
+DEUT DEL++ PI-
12. HOCHMAN 74C
+DEUT+P(2170)0 P PI+
12. HOCHMAN 74C
+2PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+DEL+ P PI- P+(SPECT) P
19. MANLOW 74 ANG,
ANGP,CS,MASS
28. HANLON 74 ANG,
ANGP,CS,MASS
+P(SPECT) 2P PI-
2.0 ANL-E-339 DME
3.0 ANL-E-339 DME
4.0 ANL-E-339 DME
6.0 ANL-E-339 DME
12. HOCHMAN 74
HOCHMAN 74D
+N(SPECT) P N PI+
2.0 ANL-E-339 DME
3.0 ANL-E-339 DME
4.0 ANL-E-339 DME
6.0 ANL-E-339 DME
+DEUT P PI+ PI-
1.8-2.1 BRUNT 68
BRUNT 69
3.0 ANL-E-339 DME
4.0 ANL-E-339 DME
6.0 ANL-E-339 DME
12. KARSHON 72
HOCHMAN 74C
HOCHMAN 74D
19. BARKEN 76 ANG,
ANGP,MASS
BARKEN 76D ANGP,
CS,MASS
28. PANVINI 72B
205 FNAL-28D ANGP,CS
+DEUT DEL++ PIO PI-
BARKEN 76 CS
+DEUT DEL- 2PI+
19. HOCHMAN 74D
+P(SPECT) P N PI+ PI-
3.0 ANL-E-339 DME
4.0 ANL-E-339 DME
6.0 ANL-E-339 DME
12. HOCHMAN 74D
+N(SPECT) 2P PI+ PI-
3.0 ANL-E-339 DME
4.0 ANL-E-339 DME
6.0 ANL-E-339 DME
+DEUT P PI+ PIO PI-
19. BARKEN 76 MASS
BARKEN 76D ANGP,
CS
+3PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+4PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+8PRONG
100 LYS 77 CS
195 EISENBERG 75C CS

P DEUT --> (CONT.)

+8PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+9PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+10PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+11PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+12PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+13PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+14PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+15PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+16PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+17PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+18PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+19PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+20PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+21PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+22PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+23PRONG
100 LYS 77 CS
200 DOMBECK 76 CS
+24PRONG
100 LYS 77 CS
195 EISENBERG 75C CS
200 DOMBECK 76 CS
+25PRONG
200 DOMBECK 76 CS
+26PRONG
195 EISENBERG 75C
200 DOMBECK 76
+27PRONG
200 DOMBECK 76
+28PRONG
195 EISENBERG 75C
200 DOMBECK 76
+29PRONG
200 DOMBECK 76
+30PRONG
200 DOMBECK 76
+ DEUT P PI+ PIO PI-
+ DEUT N 2PI+ PI-
1.8-2.1 BRUNT 69
+ HOT.2PRONG
200 BRAUN 75B ANG,P, PT
+2P DEL- PI+
+ P N DEL++ PI-
1.2 HOCHMAN 74C
+ DEUT P PI+ PIO PI-
+ DEUT N 2PI+ PI-
1.8-2.1 BRUNT 69
+ HOT.4PRONG
+ENDT ENCODED
.32 CAIRNS 64
+P HE3
1.2 FAIN 76
+P N ANYTHING
1.3 KIRKBY 74 P

P T -->

+P T
1.2 FAIN 76
+P HE ---
+ENDT ENCODED
.60 BOSCHITZ 70C
1.0-3.0 ANL-E-40E MULT
1.7 GURVITS 75B
+P HE
.31 DAVIES 67
.40-5.0 ANL-E-414
1.0 WALLACE 77B
1.2 BOSCHITZ 70B
FAIN 76
1.3 HOWARDV 68
6.0-503 FNAL-28S ANGP
10. EKELEF 74 ANGP
+N(14+7B)+ HE
6.0-500 FNAL-28S ANGP
+HE3 ANYTHING
24. BERTHOT 74 CS
+HE ANYTHING
8.0-500 FNAL-28S ANGP, MASS
24. BERTHOT 74 ANGP, MASS
+P N ANYTHING
1.3 KIRKBY 74 P
+HE P GAMMA
.20 ANZELON 75
.28 ANZELON 75
.35 ANZELON 75
+HE P PI+ PI-
15. ANL-E-351 EV
19. EKELEF 74 MASS
+HE P PI+ PIO PI-
15. ANL-E-351 EV
+HE P 2PI+ 2PI-
12. ANL-E-351 EV
+HE P 2PI+ PIO 2PI-
12. ANL-E-351 EV

P LI -->

+P LI
.63 NAEZHDIN 73
1.3 HOWARDV 70B
33. APCKIN 76B
35. APCKIN 76B
42. APCKIN 76B
45. APCKIN 76B
50. APCKIN 76B
+P ANYTHING
1.2 BECOV 77
+DEUT ANYTHING
.470-1.7 AZHGIREI 72
+PI+ ANYTHING
+ PI- ANYTHING
8.4 BALDIN 75B CS

P BE -->

+ENDT ENCODED
.60 HIRT 69
.73 NACLE 71
1.0 EDGE 76
2.0 EDGE 76
3.0 EDGE 76
10.-28. JONES 72B
12. ASBURY 69B
HARMER 68
HARMER 69B
HARMER 71
24. AUBERT 71
EICHTEN 72
73. AMIMENKE 76B
ANTIPOV 71
ANTIPOV 71D
200-300 NASH 74
300 AYRES 73
7 MANY 76B

+J/PSI(3100)0
20. EECKER 75D
400 SNYDER 76 ANG,CS, P,PT

+PSI(3700)0
400 SNYDER 76 CS

+P
200 BAKER 74B CS,P
330 BAKER 74B CS,P

+AP
200 BAKER 74B CS,P
330 BAKER 74B CS,P

REACTION/MOMENTUM INDEX (CONT'D)

P BE --> (CONT.)
*NICHARCCED)
7.0 AREFEV 77 MULT
*ANYTHING
6.0 BOWMAN 75
*E- ANYTHING
330 APPEL 74B CS,PT
BOURGUIN 75B PT
PAAR 75 PT
*E+ E-
400 SNYDER 76 CS,MASS
*E+ ANYTHING
70. AKIMENKO 75 PT
300 APPEL 74B CS,PT
PAAR 75 PT
*MU- ANYTHING
300 APPEL 74B CS,PT
*MUON ANYTHING
300 BOURGUIN 75B PT
*HYP-LEPTON ANYTHING
300 FNAL-394 ANGP
*PION ANYTHING
12. CHO 71
*NIPI-1 ANYTHING
7.0 AREFEV 77 MULT
*PI+ ANYTHING
28. BECKER 76D
200 BAKER 74B CS,P
LACH 75 P,P1
300 BAKER 74B CS,P
CRONIN 74C PT
LACH 75 P,PT
*PI0 ANYTHING
300 BOURGUIN 75B PT
*PI- ANYTHING
1.8 JAROS 73
2.5 JAROS 73
4.0 JAROS 73
3.5 JAROS 73
3.6 BARABASH 76B
4.3 JAROS 73
5.1 JAROS 73
6.7 BARABASH 76B P
8.8 BAYUKOV 77 P
9.0 BELINOV 77B P
9.7 BARABASH 76B P
28. BECKER 76D
200 BAKER 74B CS,P
LACH 75 P,PT
300 APPEL 75 CS
AYRES 73 CS
BAKER 74B CS,P
CRONIN 74C PT
LACH 75 P,PT
*RHO0 ANYTHING
70. ANTIPOV 75D
*OMEGA ANYTHING
70. ANTIPOV 75D
*PHI ANYTHING
70. ANTIPOV 75C
300 APPEL 75 CS
*JPSI(3100)0 ANYTHING
19.-20. AUBERT 74D MASS
28. AUBERT 75
BECKER 75C
30. BECKER 75 MASS,PT
70. ANTIPOV 75D ANG,
CS,P,PT
150 ANDERSON 75E CS,
PT
PILCHER 75 CS,P
300 BROWN 77 CS,PT
400 APPEL 76 ANG,CS,P,
PT
BROWN 77 CS,PT
HOM 76 CS,P
*PSI(3770)0 ANYTHING
28. AUBERT 74E CS
300 BROWN 77 CS,PT
400 APPEL 76 CS
BROWN 77 CS,PT
*UPSI(9460)0 ANYTHING
400 APPEL 76 CS
HOM 76 CS,P
*K+ ANYTHING
28. BECKER 76D
200 BAKER 74B CS,P
LACH 75 P,PT
300 BAKER 74B CS,P
CRONIN 74C PT
LACH 75 P,PT
*K- ANYTHING
28. BECKER 76D
200 BAKER 74B CS,P
LACH 75 P,PT

P BE --> (CONT.)
300 AYRES 73 CS
BAKER 74B CS,P
CRONIN 74C PT
LACH 75 P,PT
*K0 ANYTHING (CONT.)
1.2 FRANKEL 75C
1.5 FRANKEL 77C
9.0 BELINOV 77B P
28. BECKER 76D
200 LACH 75 P,PT
300 CRONIN 74C PT
LACH 75 P,PT
*K ANYTHING
8.0-24. ENGLER 73B P
70. BOHNER 75 CS,P
*AP ANYTHING
24. KALMUS 71C
26. KALMUS 71C
28. BECKER 76D
200 LACH 75 P,PT
300 AYRES 73 CS
CRONIN 74C PT
LACH 75 P,PT
*A(P) ANYTHING
7.0 AREFEV 77 MULT
*LAMBDA ANYTHING
300 BUNCE 76 PCL,PT
*SIGMA- ANYTHING
26. HUNGERBUEHLE 73B
26. HUNGERBUEHLE 73B
? HUNGERBUEHLE 75
*KI- ANYTHING
? HUNGERBUEHLE 75
*DEUT ANYTHING
1.2 FRANKEL 75C
4.8 GORYACHEV 70
300 CRONIN 74C PT
*ADEUT ANYTHING
300 AYRES 73 CS
CRONIN 74C PT
FNAL-354 ANGP
*T ANYTHING
1.2 FRANKEL 75C
*AT ANYTHING
300 FNAL-354 ANGP
*HE3 ANYTHING
300 FNAL-354 ANGP
*QUARK ANYTHING
27. ALBAJAR 85E
*CHARM ANYTHING
? MCHEN 76
*HYPOTHETICAL ANYTHING
300 STEVENS 76C CS
*UNSPEC ANYTHING
30. AUBERT 75C
*NEUTRALS PRONG
200 BRENBERG 77 PT
*ANYTHING +GT-5GAMMA
300 STEVENS 76C CS
*ANYTHING +HADRON-
300 APPEL 75 CS
BOURGUIN 75B PT
*E- E+ ANYTHING
19.-23. AUBERT 74D MASS
28. AUBERT 74E MASS
AUBERT 75
BECKER 75C
BNL-658
403 APPEL 76 MASS
BROWN 77 MASS
FNAL-403
HOM 76 CS,MASS,PT
*MU- E+ ANYTHING
FNAL-400
*MU- MU+ ANYTHING
28. BECKER 75 MASS,PT
70. ANTIPOV 75D MASS,
PT
150 ANDERSON 75B CS,
MASS
ANDERSON 76G CS
ANDERSON 76J CS,
MASS,P,PT
PILCHER 75 MASS,
PT
400 BROWN 77 MASS
FNAL-400

P BE --> (CONT.)
*MU+ E- ANYTHING
400 FNAL-400
*PI+ E- ANYTHING
28. CHEN 76M
*PI+ PI- ANYTHING
28. BECKER 75C
BNL-658
BECKER 75C
30. AUBERT 75C
400 KEPHART 77 MASS
*K+ K- ANYTHING
28. BECKER 75C
BNL-658
CHEN 76M
32. AUBERT 75C
303 APPEL 75 MASS
400 KEPHART 77 MASS
*K- E+ ANYTHING
25. CHEN 76M
*K- PI+ ANYTHING
28. BECKER 75C
BNL-658
25. AUBERT 75D
32. AUBERT 75C
403 KEPHART 77 MASS
*P E+ ANYTHING
28. BECKER 75C
BNL-658
CHEN 76M
29. AUBERT 75D
33. AUBERT 75C
403 KEPHART 77 MASS
*P AP ANYTHING
28. BECKER 75C
BNL-658
CHEN 76M
29. AUBERT 75D
32. AUBERT 75C
403 KEPHART 77 MASS
*AP E+ ANYTHING
28. CHEN 76M
*AP PI+ ANYTHING
28. BECKER 75C
BNL-658
CHEN 76M
29. AUBERT 75D
33. AUBERT 75C
403 KEPHART 77 MASS
*HADRON+ HADRON- ANYTHING
400 KEPHART 77 MASS,
PT
*MU- E+ HADRON- ANYTHING
? BNL-669
*MU- HADRON+ HADRON-
ANYTHING
? BNL-669
*MU+ E+ HADRON- ANYTHING
? BNL-669
*MUN HADRON+ HADRON-
ANYTHING
? BNL-669
*PI+ PI- MUON ANYTHING
28. CHEN 76M
*AP PI- MUON ANYTHING
28. CHEN 76M
*BE P PI+ PI-
15. MAKUCHOWSKI 76
22. ECELSTEIN 77
MAKUCHOWSKI 76
*E- ANYTHING
* E+ ANYTHING
303 YAMANOUCHI 74 PT
*MU- ANYTHING
* MU+ ANYTHING
150 ANDERSON 76G CS
300 YAMANOUCHI 74 PT

P BE -->
* P+ ANYTHING
* PI- ANYTHING
1.2 JAMES 76B
****
P BOR -->
---
*(NOT ENCODED)
200 AZIMOV 75E
****
P C -->
---
*(NOT ENCODED)
60 HIPT 69
66 GUCKER 71
67 TANNER 70
73 NAGLE 70
NAGLE 71
1.0 EDGE 76
SEGLER 77
1.0-3.0 ANL-6402 MULT
1.2 TANNER 70
1.7 EGELER 68
2.0 EDGE 76
3.0 EDGE 76
10. GREEN 71
10.-28. JONES 72B
16. GREEN 71
20.-600 AKIMOV 70
GRIGOROV 69
21.-601 GRIGOROV 70
TAKIBAEV 72B
>70. ERIKSSON 75
300 FNAL-375
600 AZARYAN 73B
30000 AZARYAN 73B
*SHOWER
65. ABCD 73 MULT
*NEGATIVE
7.0 AREFEV 77 MULT
*NEPRONG
6.4 DALKHAZHAV 75
MULT,
F
70. CALKHAZHAV 75
MULT,
F
*INELASTIC
20.-600 GANGULI 74G CS
101-1000 AKIMOV 73
*MU- ANYTHING
31.-303 BINTINGER 75B
*MU+ ANYTHING
31.-303 BINTINGER 75B
*N(PI-) ANYTHING
7.0 AREFEV 77 MULT
*PI+ ANYTHING
1.8-5.1 PAPP 74
8.4 BALDIN 74B CS,P
50.-275 GARBUTT 77 PT
100-300 FNAL-418 P
*PI- ANYTHING
1.8-5.1 PAPP 74
8.4 BALDIN 74B CS,P
8.4 BALDIN 74B CS,P
50.-275 GARBUTT 77 PT
100-300 FNAL-418 P
*JPSI(3100)0 ANYTHING
24. BAMBERGER 77
27 ANDERSON 76H ANG,
CS,P,PT
*PSI(3700)0 ANYTHING
225 ANDERSON 76H CS
*K ANYTHING
8.4 BALDIN 74B CS,P
50.-275 GARBUTT 77 PT
100-300 FNAL-418 P
*K- ANYTHING
50.-275 GARBUTT 77 PT
100-300 FNAL-418 P
* D ANYTHING
1.0 ALKHAZOV 72
1.7 ALKHAZOV 73
2.0 GOBBI 72
2.1 ZMURKIN 74 ANGP,
ASYM
4.5 KOESTER 74
9.9 BLIEDEN 75
33. APCKIN 76E
39. APCKIN 76E
42. APCKIN 76E
45. APCKIN 76E
50. APCKIN 76E
*D C(16.44)
4.5 KOESTER 74

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P C --> (CONT.)
P ANYTHING
1.2 GRODY 77
FRANKEL 75C
8.4 BALDIN 76B CS,P
53.-275 GARBUTT 77 PI
100-300 FNAL-418 P
*AP ANYTHING
53.-275 GARBUTT 77 PI
100-300 FNAL-418 P
*N(P) ANYTHING
7.0 AREFEV 77 MULT
*DEUT ANYTHING
.70-1.7 AZHGIREI 72
1.2 FRANKEL 75C
1.3 AZHGIREI 70
6.6 BAYUKOV 74
8.8 GORYACHEV 70
*T ANYTHING
1.2 FRANKEL 75C
*LI ANYTHING
300 RAISBECK 75 CS
*BE ANYTHING
300 RAISBECK 75 CS
*UNSPEC ANYTHING
31.-301 BINTINGER 75
*MU- MU+ ANYTHING
.22 FNAL-444
225 ANDERSON 76H MASS
ANDERSON 76K ANG
CS,MASS,P,PT
*2P ANYTHING
1.3 KOMAROV 76
*C P PI0
? SCOTT 75D
*C N PI+
19. GRANDPEIX 77
*C P PI+ PI-
15. EDELSTEIN 77
MARUCHOWSKI 76
19. BRUTEN 76
GRANDPEIX 77
22. EDELSTEIN 77
MARUCHOWSKI 76
*K0 AK0 PI+ PI- ANYTHING
200 FNAL-365
*N(FRAG)
+ SHOWER
69. ABDO 73 MULT
*PI+ ANYTHING
> PI- ANYTHING
1.2 JAMES 76B
8.4 BALDIN 75B CS
P D -->
*INDT ENCODED)
300 FNAL-275
*SHOWER
69. ABDO 73 MULT
*N(FRAG)
9.4 DALKHAZHAV 75
MULT,
P
70. DALKHAZHAV 75
MULT,
P
*N(FRAG)
+ SHOWER
69. ABDO 73 MULT
P NE -->
*INDT ENCODED)
1.0-3.0 AHL-E-406 MULT
*PION(S) ANYTHING
100 FNAL-291 MULT
400 FNAL-291 MULT
*PI+ ANYTHING
100 FNAL-291 P,PT
400 FNAL-291 P,PT
*PI- ANYTHING
100 FNAL-291 P,PT
400 FNAL-291 P,PT
*K+ ANYTHING
100 FNAL-291 P,PT
400 FNAL-291 P,PT
*P ANYTHING
100 FNAL-291 P,PT
400 FNAL-291 P,PT
*NEUTRALS(PI+ NE
100 FNAL-291
430 FNAL-291

P NE --> (CONT.)
*NEUTRALS(1 NEPRENG)
100 FNAL-291 MULT
400 FNAL-291 MULT
*ANYTHING NEUTRAL
100 FNAL-291 P,PT
400 FNAL-291 P,PT
*E- E+ ANYTHING
300 LOVELESS 77
*NE CHARGED ANYTHING
100 FNAL-291
400 FNAL-291
*K(PI K(PI+) K(PI-) K(GAMMA)
26. MILLER 75C MULT
*NE P E- E+
300 LOVELESS 77 CS,P
P NL -->
*INDT ENCODED)
.60 HIPT 69
.73 NAGLE 70
NAGLE 71
1.0 SEGLER 70
3.0 SKOSKI 73
10. GREEN 71
12. HARMER 68
17. BADIEF 72
18. GREEN 71
20. BOLTA 71
MELIAMBALLE 72
24. AUBERT 71
EICHTEN 72
70. ANTIPOV 70
ANTIPOV 71
ANTIPOV 71B
ANTIPOV 71D
ANTIPOV 71E
BUSHNIN 69
DEMYANOV 71
KOLMACOV 70
HUMPHREY 75
400 FRANKEL 75
*HADRONS
10. FRIEND 76 P
*ACH-AGGEG)
7.0 AREFEV 77 MULT
*N(FRENG)
200 GROMBERG 77C MULT
*FRENGS
? GROMBERG 77C P,PT
*N(PI-) ANYTHING
7.0 AREFEV 77 MULT
*P ANYTHING
8.4 BALDIN 76E CS,P
300 AUBERT 75B CS
*PI- ANYTHING
3.9 BARABASH 76B
6.0 BALDIN 76B CS,P
6.7 BARABASH 76B P
8.4 BALDIN 76B CS,P
9.8 BAYUKOV 77 P
9.0 BELIKOV 77B P
9.7 BARABASH 76B P
35.-70. BINON 70B
43. BINON 69B
52. BINON 69B
70. BINON 69B
300 AUBERT 75B CS
*K+ ANYTHING
300 AUBERT 75B CS
*KL ANYTHING
71. VESTERGOMBI 74
*K- ANYTHING
35.-70. BINON 70B
43. BINON 69B
52. BINON 69B
70. BINON 69B
300 AUBERT 75B CS
*P AL
9.5 BLIEDEN 75
33. APONIN 76B
35. APCAIN 76E
42. APONIN 76B
45. ROCKE 76B
50. APLAIN 76B
*P ANYTHING
9.0 BELIKOV 77B P
28. GUTAY 76
300 AUBERT 75B CS
*AP ANYTHING
35.-70. BINON 70B
43. BINON 69B
52. BINON 69B
70. BINON 69B
300 AUBERT 75B CS

P AL --> (CONT.)
*N(PI ANYTHING
7.0 AREFEV 77 MULT
*DEUT ANYTHING
.670-1.7 AZHGIREI 72
8.8 GORYACHEV 70
*D ABSORT ANYTHING
43. BINON 69
52. BINON 69
73. BINON 69
*QUARK ANYTHING
70. ANTIPOV 69
ANTIPOV 69B
ANTIPOV 71E
*MONOPOLE ANYTHING
203 EBERHARD 75
303 EBERHARD 75
403 CARRIGAN 74 CS
EBERHARD 75
*LONGLIVED ANYTHING
400 HIPT 69
403 YANG 74C
*ANYTHING HADRON-
73. BALDIN 74C CS,
MASS
*AL P PI0
? SCOTT 75D
*AL P PI+ PI-
15. MARUCHOWSKI 76
19. BRUTEN 76
22. EDELSTEIN 77
MARUCHOWSKI 76
*PI+ ANYTHING
> PI- ANYTHING
8.4 BALDIN 75B CS
P CA -->
*INDT ENCODED)
1.7 BELGSTOTSKII 73
COSLEY 78
2.3 GIEPICH-NIMOV 76
*P CA
1.3 BRISSAUD 77
1.7 AFANASEV 77
ALKHAZOV 73B
*CA ANYTHING
1.7 AFANASEV 77
P KK -->
1.7 ALKHAZOV 73B
P PI -->
*INDT ENCODED)
.73 NAGLE 70
NAGLE 71
200 AZIMOV 75F
*PI+ ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*PI- ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*K+ ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*K- ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*P ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*AP ANYTHING
28. BECKER 76D
300 CRONIN 74C PT
*DEUT ANYTHING
6.8 GORYACHEV 73
300 CRONIN 74C PT
*ADEUT ANYTHING
300 CRONIN 74C PT
*TI ANYTHING
1.7 AFANASEV 77
*TI P PI+ PI-
22. EDELSTEIN 77

P PA -->
*SC ANYTHING
28. CHU 77
*ANYTHING FRAG
140-28. CHU 77
P PE -->
*INDT ENCODED)
.73 NAGLE 70
3.0 SWISHCHEV 65
10.-19. CRANNELL 73
10.-28. JONES 72B
600 AZARYAN 73B
30000 AZARYAN 73B
*HADRONS
13. FRIEND 76 P
*EMERGED
12. FARIAN 75B P
*ANYTHING
20.-1000 GRIGOREV 76 CS
*PION ANYTHING
>3000 AGANINA 73 P
*JPSI(3100) ANYTHING
240 BLANAR 75 P,PT
WEINSTEIN 75 ANGD,
CS,PT
*P ANYTHING
>60. AGANINA 73 P
*MONOPOLE ANYTHING
300 CARRIGAN 73B CS
*MU- MU+ ANYTHING
240 BLANAR 75 MASS
BLANAR 76B MASS,P,
PT
WEINSTEIN 75 MASS,
P
400 FNAL-439 FV
*2MU- MU+ ANYTHING
400 FNAL-439 FV
*MU- 2MU+ ANYTHING
400 FNAL-439 FV
*2MU- 2MU+ ANYTHING
400 FNAL-439 FV
*MU- ANYTHING
+ MU+ ANYTHING
200 BRANSEN 76 CS,P
*2MU- ANYTHING
+ MU- MU+ ANYTHING + 2MU+
ANYTHING
200 BRANSON 76 CS
P CO -->
*INDT ENCODED)
3.0 SKOSKI 73
P NI -->
*INDT ENCODED)
200 AZIMOV 75F
*P NI
1.7 AFANASEV 77
*NI ANYTHING
1.7 AFANASEV 77
P CU -->
*INDT ENCODED)
.60 HIPT 69
.73 NAGLE 70
NAGLE 71
1.0 EDGE 76
SEGLER 70
2.0 EDGE 76
3.0 EDGE 76
10. GREEN 71
12. HARMER 68
HARMER 69
19. GREEN 71
24. EICHTEN 72
70. AKIMENKO 76B
*NECHARGED)
7.0 AREFEV 77 MULT
*GAMMA ANYTHING
24. CARTER 76C P
*E+ ANYTHING
70. AKIMENKO 75 PT
*MU- ANYTHING
400 FNAL-436
LEIPUNER 75
LEIPUNER 76 PCL

REACTION/MOMENTUM INDEX (CONT'D)

P CU --> (CONT.)

+MU+ ANYTHING
70. ABRAMOV 76 PDL
300 BOYMOND 74 PT
400 FNAL-A36
LEIPUNER 76 PDL
+MUON ANYTHING
70. LEBEDEV 72B
+N(P1-) ANYTHING
7.0 AREFEV 77 MULT
+P1+ ANYTH-ING
8.4 BALDIN 74B CS,P
130-300 FNAL-418 P
+P1O ANYTHING
24. CARTER 76C P
+P1- ANYTHING
6.0 BALDIN 74B CS,P
8.4 BALDIN 74B CS,P
8.8 BAYUKOV 77 P
9.0 BELIKOV 77B P
100-300 FNAL-418 P
400 LEIPUNER 76
+JPS(1310)0 ANYTHING
39. CERDEN 77
330 BROWN 77 CS,PT
400 BROWN 77 CS,PT
+PS(1370)0 ANYTHING
300 BROWN 77 CS,PT
400 BROWN 77 CS,PT
+K+ ANYTHING
8.4 BALDIN 74B CS,P
130-300 FNAL-418 P
+K0 ANYTHING
24. CARTER 76C P
+K- ANYTHING
130-330 FNAL-418 P
+P CU
9.9 BLIEDEN 75
42. APOKIN 76B
+P ANYTHING
1.2 FRANKEL 75C
9.0 BELIKOV 77B P
130-300 FNAL-418 P
+AP ANYTHING
100-300 FNAL-418 P
+N(P) ANYTHING
7.0 AREFEV 77 MULT
+DEUT ANYTHING
.70-1.7 AZHGIREI 72
1.2 FRANKEL 75C
6.8 GORYACHEV 70
+T ANYTHING
1.2 FRANKEL 75C
+LONGLIVED ANYTHING
5.8 CLARK 72C
300 CRONIN 74 CS
+E- E+ ANYTHING
430 BROWN 77 MASS
+MU- MU+ ANYTHING
39. CERDEN 77
330 KLUBERG 76 CS,
MASS
400 BROWN 77 MASS
FNAL-436
HERB 77 MASS
INNES 77 MASS
KLUBERG 76 CS,
MASS
+CU P PIO
7 SCOTT 75D
+CU P PI+ PI-
15. EDELSTEIN 77
MAKUCHOWSKI 76
22. EDELSTEIN 77
MAKUCHOWSKI 76
+MU- ANYTHING
+ MU+ ANYTHING
400 LAUTERBACH 76 PDL
+PI+ ANYTHING
+ PI- ANYTHING
1.2 JAMES 76B
8.4 BALDIN 75D CS
+LAMBDA ANYTHING
+ SIGMA0 ANYTHING
24. CARTER 76C P
P BR -->

+SHOWER
69. ABOO 73 MULT
+N(PRONG)
9.4 DALKHAZHAV 75
MULT,
P
70. DALKHAZHAV 75
MULT,
P

P BR --> (CONT.)

+P ANYTHING
24. ZAFAR 74 ANG,CS,
MASS
+CEUT ANYTHING
24. ZAFAR 74 ANG,CS,
MASS
+N(FRAG)
+ SHOWER
ABOO 73 MULT
P GM -->

+NEUT ANYTHING
.70-1.7 AZHGIREI 72
P MC -->

+NCT ENCODED)
300 AZIMOV 75F
P RM -->

+DEUT ANYTHING
.70-1.7 AZHGIREI 72
P SC -->

+NCT ENCODED)
1.0 PIRT 69
.73 NAGLE 70
NAGLE 71
+SHOWER
69. ABOO 73 MULT
+N(PRONG)
9.4 DALKHAZHAV 75
MULT,
P
70. DALKHAZHAV 75
MULT,
P

P SN -->

+MU- MU+ ANYTHING
225 ANDERSON 76H MASS
ANDERSON 76K MASS
P XE -->

+E XF
2.3 SLOWINSKI 74
P BA -->

+(NOT ENCODED)
230 AZIMOV 75F
P SN -->

+PI+ ANYTHING
+ PI- ANYTHING
8.4 BALDIN 75B CS
P TA -->

+(NOT ENCODED)
.73 NAGLE 70
NAGLE 71
200 AZIMOV 75F
+PI- ANYTHING
9.7 BARABASH 76B P
+P ANYTHING
1.2 BRODY 77
FRANKEL 75C
1.5 FRANKEL 75C
+DEUT ANYTHING
1.2 FRANKEL 75C
1.5 FRANKEL 75C
+T ANYTHING
1.2 FRANKEL 75C
1.5 FRANKEL 75C
+P+ P PI- PI-
15. MAKUCHOWSKI 76
22. EDELSTEIN 77
MAKUCHOWSKI 76
P WT -->

+(NOT ENCODED)
3.-300 EINHORN 74C
.73 NAGLE 70
2.8-5.9 ANGELOV 77H
13.-24. BADIER 72
73. DENYANOV 71
300 FLORIAN 76
+MU- ANYTHING
330 BCYMOND 74 PT
+PI+ ANYTHING
28. BECKER 76D
50.-275 GARBUTT 77 PT
100-330 FNAL-418 P
200 CRONIN 73E PT
CRONIN 74B
300 APPEL 74C ANGP,CS
CRONIN 73B PT
CRONIN 74B
400 CRONIN 74B
+PI- ANYTHING
28. BECKER 76D
50.-275 GARBUTT 77 PT
100-330 FNAL-418 P
200 CRONIN 73B PT
CRONIN 74B
300 CRONIN 73B PT
CRONIN 74B
400 CRONIN 74B
+N(FRAG)
+ PION
7 SCOTT 75D
+AG P PI+ PI-
15. MAKUCHOWSKI 76
19. BRUTEN 76
22. EDELSTEIN 77
MAKUCHOWSKI 76
+N(FRAG)
+ PION
69. ABOO 73 MULT
P CD -->

+N(PI-) ANYTHING
7. AREFEV 77 MULT
+N(P) ANYTHING
7.0 AREFEV 77 MULT
P IN -->

+SC ANYTHING
15. CHU 77
+ANYTHING FRAG
1.0-28. CHU 77
P SN -->

+JPS(1310)0 ANYTHING
225 ANDERSON 76H ANG,
CS,P,PT
+PS(1370)0 ANYTHING
225 ANDERSON 76H CS
+P SN
42. APOKIN 76B

P WT --> (CONT.)

+K- ANYTHING (CONT.)
400 CRONIN 74B
FRISCH 74 PT
+P ANYTHING
28. BECKER 76D
50.-275 GARBUTT 77 PT
100-300 FNAL-418 P
200 CRONIN 73B PT
CRONIN 74B
300 APPEL 74C ANGP,CS
CRONIN 73B PT
CRONIN 74B
400 CRONIN 74B
FRISCH 74 PT
+AP ANYTHING
28. BECKER 76C
50.-275 GARBUTT 77 PT
130-330 FNAL-418 P
200 CRONIN 73B PT
CRONIN 74B
FRISCH 74 PT
300 APPEL 74C ANGP,CS
CRONIN 73B PT
CRONIN 74B
FRISCH 74 PT
400 CRONIN 74B
FRISCH 74 PT
+ADEUT ANYTHING
200 FRISCH 74 PT
300 APPEL 74C ANGP,CS
CRONIN 74B
FRISCH 74 PT
400 FRISCH 74 PT
+ANEUT ANYTHING
200 FRISCH 74 P*
300 APPEL 74C ANGP,CS
CRONIN 74B
FRISCH 74 PT
400 FRISCH 74 P*
+ANYTHING CHARGED
200 FLORIAN 76 ANGP,
MULT
P PI -->

+(NOT ENCODED)
3.0 BARTLETT 73B
+E+ ANYTHING
1.2 WINTER 75 CS
+PI+ ANYTHING
19. WINTER 75 CS
+P ANYTHING
1.5 FRANKEL 75C
+DEUT ANYTHING
1.5 FRANKEL 75C
+T ANYTHING
1.5 FRANKEL 75C
+MU- MU+ ANYTHING
400 HERB 77 MASS
INNES 77 MASS
P AU -->

+(NOT ENCODED)
.73 NAGLE 70
+PI- ANYTHING
3.6 BARABASH 76B
6.7 BARABASH 76B P
8.8 BAYUKOV 77 P
9.0 BELIKOV 77B P
9.7 BARABASH 76B P
+P ANYTHING
9.0 BELIKOV 77B P
+DEUT ANYTHING
6.8 GORYACHEV 70
+LONGLIVED ANYTHING
6.0 KAFTANOV 71
+ANYTHING FRAG
11. YU 75B
300 YU 75B CS
P BB -->

+(NOT ENCODED)
+60 HIRT 69
.73 NAGLE 70
NAGLE 71
1.0 EDGE 76
SEGLER 76

REACTION/MOMENTUM INDEX (CONT'D)

P PB --> (CONT.)
P U --> (CONT.)
P NUCLEUS --> (CONT.)
P NUCLEUS --> (CONT.)

REACTION/MOMENTUM INDEX (CONT'D)

REACTIONS 7493 TO 7595

P NUCLEUS --> (CONT.)

+PI+ ANYTHING (CONT.)
50. ABRAMOV 75 CS,P, PT
70. ABRAMOV 75 CS,P, PT
ANIMENKO 76 CS,PT
7 FNAL-100A ANGP
+PI- ANYTHING
2.5-10. BNL-675
3.0-24. GAVRILOV 76 CS,P
28. BECKER 76D
35. ABRAMOV 75 CS,P, PT
50. ABRAMOV 75 CS,P, PT
70. ABRAMOV 75 CS,P, PT
7 FNAL-100A ANGP
+PHI ANYTHING
430 AKERLOF 77 CS, MASS,PT
+J/PSI(3100)0 ANY.MENG
140 BINTINGER 76C CS
240 BLANAR 75C
400 BINTINGER 76 CS
+UPSI(9570)0 ANYTHING
400 HOM 76B CS
+UPSI(9941)0 ANYTHING
400 INNES 77
+UPSI(9500)0 ANYTHING
400 HERB 77 CS
INNES 77 CS
+UPSI(10360)0 ANYTHING
400 INNES 77 CS
+K+ ANYTHING
2.5-10. BNL-675
28. BECKER 76D
35. ABRAMOV 75 CS,P, PT
50. ABRAMOV 75 CS,P, PT
7 . ABRAMOV 75 CS,P, PT
AKIMENKO 76 CS,PT
7 FNAL-100A ANGP
+KS ANYTHING
200 FNAL-008 ANGP
+ ANYTHING
-30 FNAL-008 ANGP
+K- ANYTHING
2.5-10. BNL-675
28. BECKER 76D
35. ABRAMOV 75 CS,P, PT
50. ABRAMOV 75 CS,P, PT
73. ABRAMOV 75 CS,P, PT
BALDIN 76
7 FNAL-100A ANGP
+N(MESON) ANYTHING
200 HEBERT 73 MULT
+MESON(S) ANYTHING
200 HEBERT 73 ANGP
+P NUCLEUS
1.7 FALCT 77C
28. HUSON 68
-P ANYTHING
1.3 KEMARDY 77
2.5-10. BNL-675
24. AHMAD 74 CS,P,PT
28. BECKER 76D
73. AKIMENKO 76 CS,PT
7 FNAL-100A ANGP
+AP ANYTHING
2.5-10. BNL-675
28. BECKER 76D
73. BALDIN 76
7 FNAL-100A ANGP
+LAMBDA ANYTHING
200 FNAL-008 ANGP
+ALAMBDA ANYTHING
200 FNAL-008 ANGP
400 FNAL-495 ANGP,P, PDL
+XI0 ANYTHING
200 FNAL-008 ANGP
400 FNAL-495 ANGP,P, PDL
+AXI0 ANYTHING
200 FNAL-008 ANGP
+HYPERON ANYTHING
17. BACIER 72
+DEUT ANYTHING
-70-1.7 AZHGIREI 72
1.3 CALKARDY 72B

P NUCLEUS --> (CONT.)

+DEUT ANYTHING (CONT.)
24. AHMAD 74 CS,P,PT
7 FNAL-100A ANGP
+ABSNT ANYTHING
70. BALDIN 76
7 FNAL-100A ANGP
+HE3 ANYTHING
24. AHMAD 74 CS,P,PT
-T ANYTHING
24. AHMAD 74 CS,P,PT
+PI(S) ANYTHING
200 BGRISENKO 74 ANGP, CS,MULT,P
+NUCLEUS PRONG
21. AZIMOV 75E
50. AZIMOV 75E CS
67. AZIMOV 75E CS
300 FNAL-251 ANGP
400 FNAL-251 ANGP
+NUCLEUS ANYTHING
10.-500 FNAL-442 ANGP,P
200-300 FNAL-466 ANGP,P
+NUCLEUS CP < P PI+ PI- >
18. MAKUCHOWSKI 76
19. BRUTON 76
22. MAKUCHOWSKI 76
+SUPERNUCLEUS ANYTHING
70. BATUSOV 76B CS
250 BATUSOV 76B CS
+QJARK(2/3) ANYTHING
301 LEIPUNER 73
+QUARK(1/3) ANYTHING
301 LEIPUNER 73
+QUARK ANYTHING
70. ANTIPOV 69C
330 LEIPUNER 73B
400 FNAL-549
+N ANYTHING
70. ABRAMOV 76C CS
+N ANYTHING
28. ANKENBRANDT 71
WANDERER 69
+CHARM ANYTHING
400 BINTINGER 76C CS
+CHOPCLE ANYTHING
70. GUREVICH 72
+LONGLIVEC ANYTHING
70. POZE 74
400 MUNDRA 76
+N(CHARGED) N(FRAG)
200 ANDERSSON 75C MULT
300 ANDERSSON 75C MULT
+2PRONG
21. AZIMOV 75D CS
50. AZIMOV 75C CS
AZIMOV 75D CS
57. AZIMOV 75D CS
200 ANTONOVA 74E CS,P
FNAL-288 ANGP,P
+ANYTHING SHOWER
69. ABDO 73 ANGP
200 DAFTARI 76 ANGP
+ANYTHING FRAG
69. ABDO 73 ANGP
70. DAFTARI 76 P
7 ABDO 73 ANGP
+ANYTHING HADRONS
7 FNAL-379
+ANYTHING CHARGED
30. MARTIN 75F P
50. AZIMOV 74E P
67. ALEKSEEVA 76 P
MARTIN 75F P
200 MARTIN 75F P
OTTERLUND 74B P
+2LEPTON ANYTHING
70. ABRAMOV 76C MASS
+2E- ANYTHING
2.5-10. BNL-675
+E- E+ ANYTHING
4.0-12. KER-45 MASS,P
200 BUTT 73 CS,P,PT
JAIN 74 ANG,ANGP,P
7 CERN-S-132 FV
+2E+ ANYTHING
2.5-10. BNL-675
+MU- E+ ANYTHING
7 CERN-S-132 FV
+2MU- ANYTHING
400 HOM 76B CS,MASS,PT

P NUCLEUS --> (CONT.)

+MU- MU+ ANYTHING
140 BINTINGER 76C MASS
225 BRANSON 77 CS
400 BINTINGER 76 MASS
HERB 77 MASS
HOM 76B CS,MASS,PT
INNES 77
500 FNAL-288 ANGP, MASS
7 ABRAMOV 75 CS,P, PT
CERN-S-132 FV
FNAL-379
+MU+ E- ANYTHING
7 CERN-S-132 FV
+2MU+ ANYTHING
400 HOM 76B CS,MASS,PT
+2MUON ANYTHING
400 HOM 76B CS,MASS,PT
+MY-LEPTON MY-LEPTON ANYTHING
200 FNAL-328A
+PI+ L- ANYTHING
7 CERN-S-132 FV
+PI+ MU- ANYTHING
7 CERN-S-132 FV
+2PI+ ANYTHING
2.5-10. BNL-675
+PI+ PI- ANYTHING
400 BINTINGER 76 MASS
BINTINGER 76C MASS
7 CERN-S-132 FV
+2PI3 ANYTHING
500 FNAL-288 ANGP, MASS
+PI- E+ ANYTHING
7 CERN-S-132 FV
+PI- MU+ ANYTHING
7 CERN-S-132 FV
+2PI- ANYTHING
2.5-10. BNL-675
+K+ E- ANYTHING
7 CERN-S-132 FV
+K+ MU- ANYTHING
7 CERN-S-132 FV
+K+ PI- ANYTHING
400 BINTINGER 76 MASS
BINTINGER 76C MASS
7 CERN-S-132 FV
+2K+ ANYTHING
2.5-10. BNL-675
+K+ K- ANYTHING
400 BINTINGER 76 MASS
7 CERN-S-132 FV
+K- E+ ANYTHING
7 CERN-S-132 FV
+K- MU+ ANYTHING
7 CERN-S-132 FV
+K- PI+ ANYTHING
400 BINTINGER 76 MASS
BINTINGER 76C MASS
7 CERN-S-132 FV
+2K- ANYTHING
2.5-10. BNL-675
+MESON(S NEFFAGT) ANYTHING
200 HEBERT 73 MULT
+MESON(S) FRAG ANYTHING
67. BABECKI 73 ANGP
200 BABECKI 73 ANGP
+P E- ANYTHING
7 CERN-S-132 FV
+P MU- ANYTHING
7 CERN-S-132 FV
+P PI- ANYTHING
7 CERN-S-132 FV
+P K- ANYTHING
400 BINTINGER 76 MASS
7 CERN-S-132 FV
+2P ANYTHING
2.5-10. BNL-675
25. AZIMOV 69
+P AP ANYTHING
7 CERN-S-132 FV
+AP E+ ANYTHING
7 CERN-S-132 FV
+AP MU+ ANYTHING
7 CERN-S-132 FV

P NUCLEUS --> (CONT.)

+AP PI+ ANYTHING
7 CERN-S-132 FV
+AP K+ ANYTHING
400 BINTINGER 76 MASS
7 CERN-S-132 FV
+2AP ANYTHING
2.5-10. BNL-675
+PROTON& PI+(S) PI-(S)
22. AZIMOV 7C
+2CHARM ANYTHING
200 KOMAR 75 CS
300 BCZZCL1 77 CS
400 BCZZCL1 77 CS
+CHARGED+ CHARGED- ANYTHING
2.5-10. BNL-675
+3PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
AZIMOV 75C CS
57. AZIMOV 75D CS
200 ADAMOVICH 75B CS, P
ANTONOVA 74E CS,P
+MU- 2MU+ ANYTHING
225 BRANSON 77 CS, MASS,P
+3MUON ANYTHING
225 ANDERSON 76I CS
+NUCLEUS P P- E+
400 FNAL-279 ANGP,CS
+NUCLEUS P PI+ PI-
15. MAKUCHOWSKI 76
74. BRUTON 76
21. AZIMOV 75E
22. MAKUCHOWSKI 76
50. AZIMOV 75E ANG,CS, MASS
67. AZIMOV 75E ANG,CS, MASS
+NUCLEUS 3PRONG
21. AZIMOV 75E
50. AZIMOV 75E CS
67. AZIMOV 75E CS
+4PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
57. AZIMOV 75D CS
200 ANTONOVA 74E CS,P
ADAMOVICH 75B CS, P
+4MUON ANYTHING
225 ANDERSON 76I CS
+5PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
AZIMOV 75D CS
57. AZIMOV 75D CS
200 ADAMOVICH 75B CS, P
+6PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
AZIMOV 75D CS
57. AZIMOV 75D CS
200 ANTONOVA 74E CS,P
ADAMOVICH 75B CS, P
+NUCLEUS P 2PI+ 2PI-
21. AZIMOV 75E CS
50. AZIMOV 75E CS
67. AZIMOV 75E CS
+NUCLEUS 5PRONG
21. AZIMOV 75E
50. AZIMOV 75E CS
67. AZIMOV 75E CS
+6PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
AZIMOV 75D CS
57. AZIMOV 75D CS
200 ANTONOVA 74E CS,P
ADAMOVICH 75B CS, P
+8PRONG
21. AZIMOV 75D CS
50. AZIMOV 73C CS
AZIMOV 75D CS

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P NUCLEUS --> (CONT.)

*9PRONG (CONT.)
57. AZIMOV 75B CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*10PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*11PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*12PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*13PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*14PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*15PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*16PRONG
21. AZIMOV 75D CS I
50. AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*17PRONG
21. AZIMOV 75D CS I
50. AZIMOV 75C CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*18PRONG
21. AZIMOV 75D CS I
50. AZIMOV 73C CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*19PRONG
21. AZIMOV 75D CS I
50. AZIMOV 75D CS I
57. AZIMOV 75D CS I
200 ANTENOVA 74E CS,P I
AZIMOV 75D CS I
*20PRONG
BANKYOPADHYA 74 P I
200 ANTENOVA 74E CS,P I
*22PRONG
ANTENOVA 74E CS,P I
*23PRONG
BANKYOPADHYA 74 P I
200 ANTENOVA 74E CS,P I
*24PRONG
200 ANTENOVA 74E CS,P I
*25PRONG
233 ANTENOVA 74E CS,P I
*26PRONG
200 ANTENOVA 74E I
*27PRONG
200 ANTENOVA 74E I
*28PRONG
200 ANTENOVA 74E I
*29PRONG
200 ANTENOVA 74E I
*30PRONG
200 ANTENOVA 74E I
*31PRONG
200 ANTENOVA 74E I

P NUCLEUS --> (CONT.)

*32PRONG
200 ANTENOVA 74E I
*33PRONG
200 ANTENOVA 74E I
*34PRONG
200 ANTENOVA 74E I
*35PRONG
200 ANTENOVA 74E I
*36PRONG
200 ANTENOVA 74E CS,P I
*37PRONG
200 ANTENOVA 74E I
*38PRONG
200 ANTENOVA 74E I
*39PRONG
233 AHMAD 74 CS,P,PT I
2E+2 CAFTARI 74 I
70. BANDYOPADHYA 75B I
P I
*F1- ANYTHING
300 CRONIN 74C PT I
*K- ANYTHING
300 CRONIN 74C PT I
*P- ANYTHING
300 CRONIN 74C PT I
*AP ANYTHING
300 CRONIN 74C PT I
*EDT ANYTHING
300 CRONIN 74C PT I
*ADEUT ANYTHING
300 CRONIN 74C PT I
*PI- ANYTHING
8.4 BALDIN 75B CS I
P UNSPEC -->
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7 KOESTER 75 I
*E- N
7 KRCHN 73 AMP I
VIALLE 74 CS I
INDT ENCODED
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0.-310 CZIECK 68 I
0.-80 THOMAS 70D I
3.-5 RHEL 74G I
0.-45 FESESSE 73 I
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5.E-04-4.5 I
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.035 MREHUSS 69 I
.050 BRUECKMANN 70C I
.05E-.11 PAULSEN 65 I
.56 PALMIERI 71 I
.66 YOUNG 69 I
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.85-1.4 WILSON 71C I
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2.0-10. GASPARYAN 71B I
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1.7 ABDIVALIEV 75 I
2.2 ABDIVALIEV 75 I
3.1 ABDIVALIEV 75 CS I
3.8 ABDIVALIEV 75 I
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5.1 ABDIVALIEV 75 I
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.12 CLEMENTS 69 I
.2 KAZARINOV 63 I
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.70-3.6 DEVLIN 73 I
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1.4 ABDIVALIEV 75 I
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1.7 ABDIVALIEV 75 I
2.2 ABDIVALIEV 75 I
2.4-8.2 PANTUEV 65 I
2.5 ABDIVALIEV 75 CS I
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4.0-6.7 PARKER 70 CS I
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5.6 ATKINSON 61 CS I
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26. BABAEV 73 CS I
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32.-283 LANGO 74 CS I
34.-273 ROTH 72 I
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36. BABAEV 73 CS I
40.-333 FNAL-03A CS I
50.-300 FNAL-30S CS I
52. BABAEV 73 CS I
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.57-1.3 BARTLETT 69 I
.81-1.4 SCHROCK 71 I
SCHROCK 71B I
1.1-1.4 BARTLETT 69 I
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7 GOLDHAGEN 73 I
LOBASHOV 70 I
*PI0 DEUT
.27 BARTLETT 69E I
.28-.72 HORNEMANN 69 I
.70 BARTLETT 69E I
.88-1.3 WILSON 71 I
.99-1.4 WILSON 70 I
7 BARTLETT 70 I
WILSON 71C I
K(892)* ANYTHING
13.-24. ANSORGE 76B CS I
K(892)- ANYTHING
13.-24. ANSORGE 76B CS I
*P ANYTHING
1.4 BIZARD 76 I
1.4-1.6 LAVILLE 76 I
1.6 BIZARD 76 I
1.7 BIZARD 76 I
1.9 BIZARD 76 I
25.-200 FNAL-39B ANGP,P I
*P DD < P PI- > (CONT.)
P DD < P PI- > (CONT.)
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RUSHBROOKE 76 PWA
20. ANSORGE 75 ANGP,
CS,MASS
RUSHBROOKE 76 PWA
30.-65. BABAEV 76B ANG,
ANGP,CS,MASS
50.-300 BIEL 75 ANGP,CS,
MASS
BIEL 75B ANG
BIEL 76 ANGP,CS
GOGGI 75 ANG,CS,
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3.E-03 CZIECK 65 I
.309 CZIECK 68 I
.320 ROTHENBERG 69 I
.050-.17 SCHAAFT 65 I
.16 ARVIEUX 70 I
KECSKEMETI 75 I
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TANAKA 72 I
.21 ROTHENBERG 73 I
.24 ELCKED 75 I
.330-.34 BRYAN 74C I
.31 ARNDT 76 I
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.34-.44 BERGBACK 75 I
.34-6.2 KREISLER 56 I
.62-2.0 SHEPARD 69 ANGP
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.81-1.3 STRUCINSKI 73 I
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.98-2.0 BIZARD 74 I
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1.0-5.5 PCERISH 70 I
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2.0-7.0 PERL 69 ANGP
2.0-12. ABELINS 72 ANGP,
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RUCHTI 73 I
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3.0 FRIEDES 65 ANGP,
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5.0-25. BOMMER 76 ANGP,CS,
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5.0-30. GIBBARD 70B I
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6.0 STONE 77B ANGP
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7.0 STONE 77B ANGP
8.0 HORN 70 I
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DAVIS 72G I
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STONE 77B ANGP
10. STONE 77B ANGP
10.-24. ENGLER 73 I
10.-70. STONE 77B ANGP
11. STONE 77B ANGP
12. STONE 77B ANGP
19. HCRN 70 I
32.-63. SCHREMPP 75B ANGP,
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23. BABAEV 75C I
25.-200 FNAL-39B ANGP
27. BABAEV 75C I
32. BABAEV 75C I

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*N P (CONT.)
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40.-300 FNAL-248 ANGP
42. BABAEV 75C
47. BABAEV 75C
52. BABAEV 75C
57. BABAEV 75C
60.-300 BARTON 76 ANGP
BARTON 76B ANGP
62. BABAEV 75C
7 BESLIN 69
BUTTON 69
*N(1522)D13)0 P
12. COOPER 74C
*DELO P
1.4 BIZARD 76
1.6 BIZARD 76
1.7 BIZARD 76
1.9 BIZARD 76
12. COOPER 74C
*DEL- DEL+
2.0-11. GASPARYAN 75 ANGP,
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*N(UNSPEC)O P
53.-300 FNAL-305 ANGP,CS
*LAMBDA ANYTHING
10.-24. ANSORGE 76B CS,P
*SIG(1385)P131+ ANYTHING
10.-24. ANSORGE 76B CS
*SIG(1385)P131- ANYTHING
10.-24. ANSORGE 76B CS
*N+ ANYTHING
10.-24. ANSORGE 76B CS,P
*DIBARYON ANYTHING
2.0-11. SHAHBAZIAN 74B CS
*CHARM ANYTHING
24. WARE 75C CS,MASS
*ANYTHING NEUTRAL
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*2P PI-
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1.5-4.C ALEXANDER 73E
2.0-10. GASPARYAN 70
12. COOPER 74C
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*P DEL+ PI-
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*P DEL- PI+
2.0-10. GASPARYAN 74C
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*P LAMBDA K0
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10.-24. ANSORGE 76B ANP,
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*P LAMBDA NEUTRALS
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*P LAMI(1200)31 K0
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*P SIGMA0 K0
4.0-8.0 ANSORGE 74 CS
*P SIGMA- K+
4.0-8.0 ANSORGE 74 CS
10.-24. ANSORGE 76B ANP,
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*P SIG(1385)P131- K+
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10.-24. ANSORGE 76B CS,
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*DEL++ SIGMA- K0
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10.-24. ANSORGE 76B CS,
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*DELO LAMBDA K+
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*DEUT 2GAMMA
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7 BRUNT 69
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1.2 ABDIVALIEV 75
1.4 ABDIVALIEV 75
1.7 ABDIVALIEV 75
2.2 ABDIVALIEV 75
3.1 ABDIVALIEV 75
3.8 ABDIVALIEV 75
4.4 ABDIVALIEV 75
5.1 ABDIVALIEV 75
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10.-24. ANSORGE 76B ANP,
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*P A PI+ PI-
2.0-10. GASPARYAN 74C
CS,MASS
*P SIGMA+ K0 PI-
4.0-8.0 ANSORGE 74 CS,
MASS
10.-24. ANSORGE 76B ANP,
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*P SIGMA0 K+ PI-
4.0-8.0 ANSORGE 74 CS,
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10.-24. ANSORGE 76B ANP,
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*P SIGMA- K0 PI+
4.0-8.0 ANSORGE 74 ANGP,
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10.-24. ANSORGE 76B CS,
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*DEL++ K- PI+
4.0-8.0 ANSORGE 74 CS
*DELO LAMBDA K0 PI+
4.0-8.0 ANSORGE 74 CS
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*2P K0 AK0 PI-
4.0-8.0 ANSORGE 74 CS
10.-24. ANSORGE 76B CS
*P LAMBDA K0 PI+ PI-
4.C-8.0 ANSORGE 74 CS,
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10.-24. ANSORGE 76B CS
*P SIGMA0 K0 PI+ PI-
4.0-8.0 ANSORGE 74 CS
10.-24. ANSORGE 76B CS
*DEUT 2PI+ 2PI-
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3.8 ABDIVALIEV 75
4.4 ABDIVALIEV 75
5.1 ABDIVALIEV 75
*2P K+ AK0 2PI-
10.-24. ANSORGE 76B CS
*P SIGMA0 K0 PI+ PI-
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*P N 2PI+ 2PI-
1.6-10. MORDI 69
*P LAMBDA K+ PI+ PI-
10.-24. ANSORGE 76B CS
*P SIGMA+ K0 PI+ 2PI-
10.-24. ANSORGE 76B CS
*P SIGMA0 K+ PI+ 2PI-
10.-24. ANSORGE 76B CS
*P SIGMA- K0 2PI+ PI-
10.-24. ANSORGE 76B CS
*2P K0 AK0 PI+ 2PI-
10.-24. ANSORGE 76B CS
*P LAMBDA K0 2PI+ 2PI-
10.-24. ANSORGE 76B CS
*P SIGMA0 K0 2PI+ 2PI-
10.-24. ANSORGE 76B CS
*3PRONG
3.1 ABDIVALIEV 75
4.4 ABDIVALIEV 75
5.1 ABDIVALIEV 75
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10.-24. ANSORGE 76B CS
*2P K0 K- 2PI+ 2PI-
10.-24. ANSORGE 76B CS

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*P LAMBDA K+ 2PI+ 3PI-
10.-24. ANSORGE 76B CS
*P SIGMA+ K0 2PI+ 3PI-
10.-24. ANSORGE 76B CS
*P SIGMA0 K+ 2PI+ 3PI-
10.-24. ANSORGE 76B CS
*P SIGMA- K0 3PI+ 2PI-
10.-24. ANSORGE 76B CS
*P SIGMA+ K0 3PI+ 2PI-
10.-24. ANSORGE 76B CS
*P LAMBDA K0 3PI+ 3PI-
10.-24. ANSORGE 76B CS
*P SIGMA0 K0 3PI+ 3PI-
10.-24. ANSORGE 76B CS
*K0 ANYTHING
*K0 AK0 ANYTHING
10.-24. ANSORGE 76B CS,
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*K0 ANYTHING
*K0 PI- ANYTHING
10.-24. ANSORGE 76B CS,
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*P DEL- PI+
*N DEL++ PI-
2.0-11. GASPARYAN 75 MASS
*DELO SIGMA+ K0
* DELO SIGMA0 K+
4.0-8.0 ANSORGE 7- CS
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* LAMBDA PI- ANYTHING
10.-24. ANSORGE 76B CS,
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*P LAMBDA K+ PI-
* P SIGMA0 K+ PI-
10.-24. ANSORGE 76B CS,
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10.-24. ANSORGE 76B CS,
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*P P P

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*BE DD < P PI- >
50.-300 FERBEL 75 ANGP,CS, MASS
*CHARM ANYTHING
240 ABOLINS 76B CS
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300 LIPTON 77 CS
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200 FNAL-397 FV
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*MU+ E- ANYTHING
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*MU+ CHARM ANYTHING
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*K+ K- ANYTHING
>6.0 BNL-656
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200 BLESER 75 MASS
*P K- ANYTHING
>6.0 BNL-656
200 BLESER 75 MASS
? CARROLL 76C
*P AP ANYTHING
>6.0 BNL-656
? CARROLL 76C
*K+ PI- MU+ ANYTHING
200 FNAL-397 FV
*K+ PI- MUON ANYTHING
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*K- PI+ MU- ANYTHING
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*K- PI+ MUON ANYTHING
330 SPELBRING 77 MASS
*P AP GAMMA ANYTHING
>6.0 BNL-656
*K+ PI+ PI- MU- ANYTHING
200 FNAL-397 FV
*K- PI+ MU+ ANYTHING
200 FNAL-397 FV
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27. BABAEV 73 CS
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34.-270 LONGO 75
34.-273 JONES 74B CS
RAMANAMURTHY 75
38. BABAEV 73 CS
52. BABAEV 73 CS
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10.-30. MCCORRISTON 70
27. BABAEV 73 CS
30.-300 BIEL 75C CS
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34.-270 LONGO 75
34.-273 JONES 74B CS
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36. BABAEV 73 CS
52. BABAEV 73 CS
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*NU DD < P PI- >
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36. BABAEV 73 CS
54. BABAEV 73 CS
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3.8 LAKIN 70
5.7 PARKER 70B
23. LONGO 71
600 AZARYAN 73B
10000 AZARYAN 73B
*ANYTHING
27. BABAEV 73 CS
30.-300 BIEL 75C CS
SLATTERY 75 CS
34.-273 JONES 74B CS
RAMANAMURTHY 75
36. BABAEV 73 CS
52. BABAEV 73 CS
*INELASTIC
30.-300 FNAL-438 CS
*AL P PI-
12.-14. CARITHERS 75 ANGP, MASS
N FE -->
*(NOT ENCODED)
5.7 PARKER 70B
600 AZARYAN 73B
10000 AZARYAN 73B
30000 AZARYAN 73B
*ANYTHING
34.-270 LONGO 75
34.-273 JONES 74B CS
RAMANAMURTHY 75
*INELASTIC
30.-300 FNAL-438 CS
N CU -->
*(NOT ENCODED)
3.8 LAKIN 70
5.7 PARKER 70B
23. LONGO 71
*ANYTHING
10.-30. MCCORRISTON 70
27. BABAEV 73 CS
30.-300 BIEL 75C CS
SLATTERY 75 CS
34.-270 LONGO 75
34.-273 JONES 74B CS
RAMANAMURTHY 75
36. BABAEV 73 CS
54. BABAEV 73 CS
*INELASTIC
30.-300 FNAL-438 CS
*CU DD < P PI- >
50.-300 FERBEL 75 ANGP,CS, MASS
*DD < P PI- > ANYTHING
10.-28. OBRIEN 74 ANGP,CS, MASS
*F PI- ANYTHING
10.-28. OBRIEN 74 ANGP,CS, MASS
*CU P PI-
12.-14. CARITHERS 75 ANGP, MASS
N CD -->
*(NOT ENCODED)
5.7 PARKER 70B
N NUCLEUS --> (CONT.)
*ANYTHING
4.0 PARKER 69
5.7 PARKER 69
8.0-21. ENGLER 70
10.-30. JONES 71
40.-300 FNAL-004 CS
50.-300 FNAL-305 CS
*PHI ANYTHING
300 BINKLEY 76B CS
*J/PSI(3100) ANYTHING
300 BINKLEY 76B ANG, CS,P,PT
*P NUCLEUS
6.0 ENGLER 71
19. ENGLER 71
24. ENGLER 71
*N NUCLEUS
4.8 RINGIA 72
10.-30. JONES 71
*(UNSPECIFIED NUCLEUS
50.-300 FNAL-605 ANGP,CS
*LAMBDA ANYTHING
2.0-11. SHAHBAZIAN 74B P
*NUCLEUS DD < P PI- >
120-300 BIEL 75C
*NUCLEUS ANYTHING
2.0-11. SHAHBAZIAN 74B CS
*ANYTHING CHARGED+
200-430 CHANEY 77 P
*ANYTHING CHARGED-
200-430 CHANEY 77 P
*ANYTHING+ ANYTHING
100-200 FNAL-366
*MU- MU+ ANYTHING
300 BINKLEY 76 MASS
BINKLEY 76B MASS
FNAL-356 MASS
400 FNAL-356 MASS
*NUCLEUS P PI-
50.-300 FNAL-305 ANGP,CS
120-300 BIEL 75E
*OMEGA ANYTHING
+ RHO0 ANYTHING
300 BINKLEY 76 CS,PT
BINKLEY 76E CS,P, PT
N W -->
*(NOT ENCODED)
3.8 DEKA 69
*CHARGED
.25-.80 SCHERER 74
*ANYTHING
0.-.80 ANL-E-303
.20E-1.0 GUNDERSON 75
.25-.75 REEDER 75
.30-2.5 FRANKLIN 69
6.6 DENISOV 71B
13. DENISOV 71B
50.-300 FNAL-305 CS
*NIPIOI PRONG
1.5 FETT 77
*NIPIOI ANYTHING
1.5 FETT 77
*PI+ ETA
0.-.80 ANL-E-303
*PI+ RHO0
0.-.80 ANL-E-303
*PI+ OMEGA
0.-.80 ANL-E-303
*PI3 PI0
0.-.80 ANL-E-303
.050-.70 ENL-626 ANGP,CS
*AKO K+
1.5-.80 ANL-E-303
*AN P
.25-.75 REEDER 75
.30-2.5 FRANKLIN 69
*NEUTRALS N(PRONG)
.05C-.70 ENL-626 CS
*2PI+ PI-
1.5 FETT 77
*PI+ 2PI0
1.5 FETT 77
*NIPIOI 3PRONG
1.5 FETT 77

REACTION/MOMENTUM INDEX (CONT'D)

ΔN P --> (CONT.)	ΔP P --> (CONT.)	ΔP P --> (CONT.)	ΔP P --> (CONT.)
+2PI+ PIO PI-	1.1-1.2 DUBOC 71C	6.0-17. JICK 71B	+NEUTRALS
1.5 FETT 77	1.1-1.4 DONALD 72	6.8-7.1 FERBEL 65C	0. MCMING 76 CS,
+PI- 3PIO	LINNEPCEL 72	6.9 ALEXANDER 73B	MULT
1.5 FETT 77	1.1-1.6 DUBOC 74	ALEXANDER 71B	31.-532 WHITMORE 75B
+3PI+ 2PI-	1.1-3.4 OH 72B	ALEXANDER 72	32. FRANCESCOVIET 74C
1.5 FETT 77	1.2 ASTIER 67	KITAGAKI 77	MULT,
? FETT 77 CS	CLAYTON 69	LACH 73	F
+2PI+ 2PIO PI-	COUSINOU 72	ALEXANDER 74D	100 ANSORGE 75B MULT
1.5 FETT 77	DANOUX 65	JASSELETTE 71	+DPRONG
+PI+ 4PIO	DEFOIX 68	MANDZY 71	.10-.55 CLINE 71
1.5 FETT 77	DOBRZYNSKI 66	CERN-T-237	.30-.55 CHALCUPKA 76
+N(PIO) 5PRONG	DOBRZYNSKI 68B	VANSPELCOEFN 74	.43-.53 MONTANET 75
1.5 FETT 77	DONALD 66	BIPARAIM 65C ΔI	1.0-1.6 MUELMAN 74
+2PI+ 3PIC PI-	DONALD 69B	BIPARAIM 66C ΔN	1.1-1.5 KALBFLEISCH 69
1.5 FETT 77	DUBOC 72	EVERETT 74A	1.2-1.6 CCOPER 68C
+PI- 5PIO	FRODESEN 70	EVERETT 74C	1.5-2.9 MA 73B
1.5 FETT 77	JEANNET 71	CARLSSON 73	2.4 CHEN 77D
+3PI+ 2PIC 2PI-	MAKOWSKI 72	CARLSSON 73B	.43-3.7 FERBEL 65
1.5 FETT 77 1.2-1.3	NANDLER 73C	CARLSSON 73C	6 EVERETT 74 CS
+2PI+ 4PIO PI-	DONALD 73	GREAR 68	DAC 74
1.5 FETT 77 1.2-1.4	KITAKENHEAD 74	REIBAL 70	BOCKMANN 66 ANGP,
+PI+ 6PIC 1.3-1.6	SLLISON 70B	BORGHIA 71	CS
1.5 FETT 77 1.4-1.5	OH 70B	CERN-T-243	FERBEL 68
+N(PIO) 7PRONG 1.5-2.5	EASTMAN 73	LACH 73 CS,MULT	KITAGAKI 68
1.5 FETT 77 1.5-3.5	MA 73C	LACH 73 CS,MULT	15. CAC 74
ΔN Δ --> 1.6	APNOLD 75C	15. LACH 73 CS,MULT	22. ABESALASHVIL 74
-------	BUTLER 62B	16. PIPERAIM 65C ANGP	32. ARCPODIANOV 74 CS
+ANYTHING	BUTTON 62B	17. REIBAL 70	FRANCESOVIET 74C
0.6 DENISOV 71D 1.6 2.2	CHAPMAN 71B	23. ALLABI 69	CS
13. DENISOV 71C	CHAPMAN 72	23.-65. MASSILIEV 72	+PRONG
ΔN FE -->	BUTTON 60	32. BOES 77B	.60-1.1 BUPNE 75C
-------	CHAUDHARY 74E	SUK 74	+NEPPRONG
+ANYTHING	STRINGER 70	+AGLIC 61	65. ALLABI 69
25. BOLOTOV 74D CS	ALLISON 72	AGLIC 61B	133-153 PIPERAIM ANGP,CS
35. BCLOTOV 74D CS	CRAWLEY 74	AGLIC 61B	102-430 +MITMORE 76 CS,
ΔN NUCLEUS -->	FIELDS 71B	HOANG 72	MASS,MULT,P
-------	HOANG 72	AHINES 71	203 FNAL-392 FV
+ANYTHING	JESPERSEN 69	JESPERSEN 69	FNAL-557
4.6-03-1.7	RADLINSKI 73	RADLINSKI 70	FNAL-557
BESCH 77	BENNET 70	CLAYTON 71B	333 FNAL-557
53.-300 FNAL-305 CS	CLAYTON 71C	CLAYTON 72	403 FNAL-557
ΔP P -->	AIVOLA 71	AIVOLA 71	7 ALSPECTOR 73
-------	SEARS 68	SEARS 68	ASTBURY 74
+ENGT ENCODED	BACON 70 ANGP,CS	BACON 70 ANGP,CS	ASTIER 69B
0. ASTIER 69	HAFEN 73B	+GAMMA(S) THORNTON 76	BARKAS 57
BIZZARRI 69	JESPERSEN 69	+PIONS	BARKAS 57
BIZZARRI 71E	RADLINSKI 70	0. GHESQUIERE 74	CERN-NA-001 FV
CERN-S-142	BOECK 69	1.1-1.5 KALBFLEISCH 69	FOX 76B
DEFOIX 74B	ERABSCN 72	1.2 DONALD 69 CS	JEGGRY 73B
FRENKIEL 72	BROD 73	2.5 CLAYTON 71	+NEUTRALS)
JAMES 68	BURN 73	3.3-3.7 FERBEL 65	0.-1.2 DEFOIX 75
KALOGEROPOUL 66	DANYSZ 67	4.1 FERBEL 65	.41-.46 BRUCKNER 76
+BARECHAL 65 3.0-6.0	AMBATS 72	4.5 FERBEL 66	+ANYTHING
MONTANET 71 3.2	FERBEL 62	2690 EVERETT 73	0. CRIS 75B
PAWLENICZ 70	FERBEL 62B	+N(PIEN)	MOHRING 76 CS,
SKELLY 72 3.2-3.7	BALTAY 63	.70 HAMATSU 76 CS,	MULT
0.-300 EINHORN 74C	BALTAY 63C	MASS,MULT,P,	WADE 76
0.-500 DIDDENS 74 ANGP,	BROWN 62	PT	WILLARD 76 CS,
CS,MANY,POL	FRODESEN 73	+P-P	MULT
0.-1.0 CONGO 75	FERBEL 65C	2.3 CHEN 77D	0.-.90 ANL-E-409 CS
.10-.75 ENGLISH 70	BONNEL 70	+S(1932)	.10-.55 CLINE 71
.10-1000 +CRRISON 72	CARLSON 69	.46 KELLY 76B	.20-1.0 GUNDERSEN 75
.20-.70 CALKAROV 72	BARTKE 74B	+MESONS(1870)	.35-1.8 ARMENTEROS 60
.30-.80 BENVENUTI 72	DEMKE 64B	.13-.80 BENVENUTI 71	.36-.53 MONTANET 75
.40-.90 CERN-S-149 CS	DELAVAISSIER 71	+PSEUDOSCALAR	.36-1.5 CARROLL 74
.65-1.1 BURNS 73B	DEL VAISSIER 72	3.7-4.2 BENSINGER 76	.40-.60 IRIS 75B
.69-1.1 DONAHUE 75	BALTAY 62B	+MESONS	.57-.63 AMALDI 64
.70 AGUILARBENI 69B	BALTAY 64C	3.3-3.7 FERBEL 65	1.0-3.5 ABRAMS 72B CS
AGUILARBENI 69E	BALTAY 64C	5.7 BOCKMANN 66 ANGP,	1.0-200 WHITMORE 75B CS
AGUILARBENI 69D	BRABSCN 72	CS	1.1-1.5 KALBFLEISCH 69
DEFOIX 71	CZYZEWSKI 64	9.0 SLAC-8C-064	KALBFLEISCH 71
LERSTAD 69	EVERETT 74C	30.-60. FNAL-344 ANG,MULT	PEASLEE 75B
.70-1.2 AGUILARBENI 65	CHABAUD 72G	+HADRONS	1.6 DAVIDSON 74
.70-2.4 NICHOLSON 73	RIDE 72	0.-.45 BNL-738 ANGP,CS,	1.8 DAVIDSON 74
.71 DEFOIX 72	TREILLE 71	MASS,P	1.9 DAVIDSON 74
.72 DEFOIX 72 5.0-9.0	POLGAR 68	4.1 CARLSSON 75 CS,	2.2 DAVIESON 74 CS
.74-2.2 COHEN 72B 5.7	ATHERTON 71C	MASS	2.3 CHEN 77D
.76 BURNS 70	ATHERTON 73	+VEES)	3.0-3.6 ESCOUBES 63 ANGP,
1.0-1.6 ALSTONGARNJO 74	FRODESEN 73	3.3 JACOBS 77	CS
1.0-3.0 BRICMAN 69E	GAUDICAR 69	+CHARGED	3.0-10. VONDARDEL 60 CS
1.0-3.2 PITMAN 72	RAHFT 68	.41-.84 BRUCKNER 76	3.3-3.7 FERBEL 65
1.1 DUBOC 71B 5.8-7.9	ASHMORE 68		4.0 BOCKMANN 66 ANGP,
DUBOC 71B 6.0	REIBAL 70		CS
MAKOWSKI 72			4.0-20. LINDENBAUM 61 CS
			4.6 EVERETT 74 CS
			5.7 BOCKMANN 66 ANGP,
			CS
			6.0-18. GALBRAITH 65
			6.6 DENISOV 71D
			6.9 FERBEL 68
			KITAGAKI 68
			10.-73. WARAIZUMI 75B CS
			13. DENISOV 71D
			15. DAC 74
			GOHIN 73
			15.-60. DENISOV 73B CS
			20.-50. ALLABY 69B CS

REACTION/MOMENTUM INDEX (CONT'D)

AP P --> (CONT.)
*ANYTHING (CONT.)
20.+60. DENISOV 71R CS
20.+65. ALLARY 72+ CS
VASIL'EV 72
20.+500 FNAL-104 CS
23.+280 KOHLER 75
30.+230 LACH 75
32. AKOPOZHANOV 74 CS,
MULT
FRANCESOVIET 74C
CS
JABICI 77 CS
35. CARROLL 76E CS
50. AYRES 76C CS
CARROLL 74C CS
CARROLL 76E CS
65. GORIN 73 P
70. AYRES 76C CS
CARROLL 76E CS
130 AYRES 76C CS
CARROLL 74C CS
CARROLL 76E CS
FNAL-311 CS
RAJA 77B CS
120 CARROLL 76E CS
140 AYRES 76C CS
150 CARROLL 74C CS
CARROLL 76E CS
FNAL-269 CS
170 CARROLL 76E CS
175 AYRES 76C CS
200 CARROLL 74C CS
CARROLL 76E CS
? ANSORGE 75B ANGP,
CS
GALERAITH 65
LACH 75
WADE 76B
*ELASTIC
+10P-55 CLINE 71
+35-1.8 ARMENTEROS 69
5.7 BECKMANN 66 ANGP,
CS
15. DAC 74
32. FRANCESOVIET 74C
CS
JABICI 77 CS
? ANSORGE 75B ANGP,
CS
*DD < 2PRENG >
22. BDDS 77
*DD < 10PPNG >
BDDS 77
*DD < 14PPENG >
22. BDDS 77
*DD < 6PRONG >
22. BDDS 77
*DD < 8PRONG >
22. BDDS 77
*DD < 4PPENG >
22. BDDS 77
*DD < 12PPONG >
22. BDDS 77
*NON-RES < P AP PIO >
5.7 BRAUN 74B CS
*NON-RES < (P AN PI-) +
(N AP PI+) >
5.7 BRAUN 74B CS
*ZGAMMA
1.5-2.4 HARTILL 69
*GAMMA HADRONS
150-300 FNAL-192
*GAMMA ANYTHING
0. KALOGEROPOUL 74D
P
MICHAEL 75B
.75 LOWENSTEIN 75 P
15. DAO 74B
32. JABICI 77 CS,P,PT
69. BLUMENFELD 73
130 RAJA 76 MASS,P,PT
WARD 76 CS,P
150 FNAL-311 ANGP
230 FNAL-392 P
*GAMMA(S) MESONS
.75 KALOGEROPOUL 75 P
*(GAMMA(S) HADRONS
0.+45 BNL-76E ANGP,CS,
MASS,P
*E- HADRONS
150-300 FNAL-192
*E- ANYTHING
15. BNL-E71
*E+ E-
0. BASSOMPIERRE 76B
ANG,
CS

AP P --> (CONT.)
*E+ E- (CONT.)
BASSOMPIERRE 76C
ANG,
CS
BASSOMPIERRE 77
CS
CERN-S-135 ANGP
HARTILL 69
CONVERSI 65
*E+ HADRONS
150-300 FNAL-192
*E+ ANYTHING
0.+90 ANL-E-409 ANGP,CS
*PHOTON HADRONS
150-360 FNAL-192
*NU+ NU-
2.5 CONVERSI 65
*NU+ HADRONS
150-360 FNAL-192
*NU+ ANYTHING
0.+90 ANL-E-409 ANGP,CS
*PION(S) PI-
.70 HAMATSU 76 CS,
MASS,MULT,P,
PT
*PION(S) ETA
.70 HAMATSU 76 CS,
MASS,MULT,P,
PT
*PION(S) RHOO
.70 HAMATSU 76 CS,
MASS,MULT,P,
PT
*PION(S) OMEGA
.70 HAMATSU 76 CS,
MASS,MULT,P,
PT
*PIONS HADRONS
3.0-4.0 FRENCH 67 CS
5.7 AHERTON 73 CS
6.9 YEH 67
*PION ANYTHING
0.3 HONG 71
*PION(S) CHARGED
1.6 ALIBRAN 76
*PION(S) OPPONG
1.6-2.6 MA 73B
*PION(S) ANYTHING
1.6 FETT 75
*PIOS ANYTHING
? FETT 75
*(PI+) ANYTHING
32. BARLOUTAUD 76
MULT
*(PI0) OPPONG
2.8 CHEN 77D
32. JABICI 77
MULT
*(PI0) ANYTHING
0. MOHENG 76 CS,
MULT
2.0 CHAUDHARY 76B
MULT
4.6 EVERETT 74 MULT
32. BARLOUTAUD 76
MULT
*(PI-) ANYTHING
2.8 EVERETT 74 MULT
32. BARLOUTAUD 76
MULT
*PI+ AND-
1.0-2.0 YOH 70B
1.0-2.1 YOH 71
2.3 FIELDS 71
+30-10. BNL-596 ANGP
6.0-8.0 BIRNBAUM 69B ANGP
*PI+ A1111601-
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74 CS
*PI+ A2113101-
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
*PI+ B112351-
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 CAVIDESCH 74 CS
*PI+ C1113601-
1.7-1.9 HEADLEY 75
1.5-2.0 BRENZIKOFER 75B
1.6 DAVIDSON 74
GREEN 74
1.8 DAVIDSON 74
GREEN 74
1.9 DAVIDSON 74
GREEN 74
2.2 CAVIDESCH 74 CS
GREEN 74

AP P --> (CONT.)
*PI+ ANYTHING
3.+60 ANL-E-409 ANGP,CS
3.7-60 WHITMORE 77C
4.0 BEIER 76D CS
4.0-20. BEIER 74 CS
4.6 GREGORY 74 P,PT
5.0 BEIER 76D CS
8.3 BEIER 76D CS
9.1 GREGORY 74 P,PT
10. BEIER 76D CS
10.-12. BNL-661 P
12. BEIER 76D CS
15. BEIER 76D CS
33. BEIER 76D CS
32. BODS 76 CS
34. BEIER 76D CS
32. JABICI 77 P,PT
40. FNAL-324 ANGP
80. FNAL-324 ANGP
100 RAJA 77C ANGP,
MASS
WHITMORE 77 CS,P
WHITMORE 77B
150 BEIER 76D CS
FNAL-311 ANGP
160 FNAL-324 ANGP
200 FNAL-392 P
FNAL-392 P
220 BEIER 76D CS
? FNAL-235A ANGP
WHITMORE 75B
*PIO
0. CERN-S-135 ANGP
JEVONS 71
KOZLOWSKI 71
3.+60 ANL-E-368 FV
.20-.70 DAUM 75
1.1-2.3 THORNTON 7C
1.2-2.3 DEMARZO 75B
1.8 DEMARZO 74
2.3 PHEL-115 FV
*PIO ETA
0.+60 ANL-E-368 FV
1.1-2.0 THORNTON 7C
1.2-2.3 DEMARZO 75B
1.8 DEMARZO 74
2.3 PHEL-115 FV
*PIO AND
2.3 CHEN 77C
FIELDS 71
2.3-3.7 FERBEL 66
4.3-10. BNL-596 ANGP
6.9 FERBEL 66
*PIO OMEGA
3.+60 ANL-E-368 FV
2.3 PHEL-115 FV
*PIO ETAPRIME
2.3 PHEL-115 FV
*PIO SPIO(3)
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
*PIO P
.73 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
2.3 FIELDS 71
*PIO D12285)
1.1 GOLDBERG 71
1.2 BARLOW 67
JANOLAW 68 CS
DONALD 69 CS
2.3 PHEL-115 FV
*PIO A2113101-
.73 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
*PIO E114(23)
3.+60 ANL-E-368 FV
1.2 DONALD 69 CS
*PIO A3(1+33)
.70-1.1 BURNS 75E
*PIO PHOPPIE(1+0313)
2. BASSOMPIERRE 76
CS
*PIO NIVEE)
1.60 WARD 76 MULT
*PIO OPRONG
32. JABICI 77 CS
100 WARD 76 CS
*PIO PA(PRONGS)
15. DAO 74B
100 WARD 76 MULT
*PIO ANYTHING
2.3 CHAUDHARY 74B CS
15. BNL-671
32. JABICI 77 CS
130 RAJA 76 CS
WARD 76 CS

AP P --> (CONT.)
*PIO ANYTHING (CONT.)
150 FNAL-311 ANGP
*PI- PI+
0.+45 BNL-708 ANGP,CS,
MASS,P
0.+60 ANL-E-368 FV
.25+.80 RUTZ 73
.33-.61 BIZZARRI 69B
.40 BNL-662 ANGP
.46 BNL-662 ANGP
.55 BNL-662 ANGP
.70-1.1 WANDELKEPA 71
.73-2.4 BAFISH 69B
NICHOLSON 69
NICHOLSON 69B
NICHOLSON 71
.79-2.4 CARTER 77E
EISENHANDLER 75
KALMUS 75
CARTER 77
.80-2.4 CARTER 77E
EISENHANDLER 73
1.2-1.5 BACON 73
1.4 ALIBRAN 76
EHRLICH 72
ETKIN 71
LYNCH 69B
1.6-2.2 CHAPMAN 68
2.0 PHEL-115 FV
2.3 PHEL-177
FIELDS 71
FIELDS 72B
PHEL-77 72
2.5 ETKIN 71
2.7 DOMINGO 67C
3.3-3.7 FERBEL 66
3.7 NAIZ 67
4.0-10. BNL-766 ANGP
4.6 EVERETT 74 CS
5.7 BECKMANN 66 ANGP,
CS
BRAUN 75 CS
BIRNBAUM 69B ANGP
6.2 DUPAN 74 ANGP
DURAN 74 ANGP
DURAN 74B ANGP,CS
6.9 FERBEL 66
20. CERN-HA-CC7 ANGP
40. CERN-HA-CC7 ANGP
62. CERN-HA-CC7 ANGP
80. CERN-HA-CC7 ANGP
? BAFISH 69B
BIRNBAUM 69B ANGP
CHAPMAN 68 ANGP,
CS
LYNCH 69B ANGP,CS
NICHOLSON 71
NICHOLSON 71
WAGNER 74 PHZ
*PI- RHO
4.0-10. BNL-596 ANGP
*PI- A1111601-
1.6 CAVIDESCH 74
1.8 CAVIDESCH 74
1.9 CAVIDESCH 74
2.2 CAVIDESCH 74 CS
*PI- B112351-
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
*PI- A2113101-
1.2-1.3 HANDLER 75
1.5-2.0 BRENZIKOFER 75B
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74 CS
*PI- A3116401-
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 CAVIDESCH 74 CS
*PI- G1160811-
1.5-2.0 VUILLEMIN 76
*PI- ANYTHING
0. MOHENG 76 P,PT
0.+60 ANL-E-409 ANGP,CS
3.7+60 WHITMORE 75C
4.0 BEIER 76D CS
4.0-20. BEIER 74 CS
4.6 GREGORY 74 P,PT
6.0 BEIER 76C CS
8.0 BEIER 76C CS
9.1 GREGORY 74 P,PT
10. BEIER 76D CS

REACTION/MOMENTUM INDEX (CONT'D)

AP P --> (CONT.)

+PI- ANYTHING (CONT.)
10.-12. BNL-661 P
12. BEIER 76D CS
15. BEIER 76D CS
20. BEIER 76J CS
24. BEIER 76D CS
32. JABICL 77 P,PT
40. FNAL-32A ANGP
80. FNAL-32A ANGP
100 WHITMORE 77 CS,P
WHITMORE 77B
150 BEIER 76D CS
FNAL-311 ANGP
160 FNAL-32A ANGP
200 NAL-302 P
FNAL-392 P
250 BEIER 76D CS
7 FNAL-236A ANGP
WHITMORE 75B
+ZETA
0.-.60 ANL-E-36B FV
1.2-2.0 CENARZO 75C
+ETA OMEGA
0.-.60 ANL-E-36B FV
+ETA DI12851
1.2 DANOLAU 68 CS
+ETA PI(15401C
1.1-1.2 DUBOIC 71
+ETA ANYTHING
4.1 ANL-E-429 FV
+K(+K0)01 OPRONG
100 RAJA 77B MULT
+RHO+ A2(13101-
1.2-1.3 HANDLER 75
+RHO- ANYTHING
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
+2RHO0
.69-1.1 BURNS 74
.94 BURNS 71
1.2-1.3 HANDLER 75
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74 CS
4.0-10. BNL-556 ANGP
5.7 ACCENSI 66 CS
+RHO0 OMEGA
.70-1.1 BURNS 75E
1.2-1.3 HANDLER 75
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74
2.2 DREN 73
+RHO0 S#(9931
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
+RHO0 F
.65-1.1 BURNS 74
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
.94 BURNS 71
1.2-1.3 HANDLER 75
1.6 DAVIDSON 74
GREEN 74
1.8 DAVIDSON 74
GREEN 74
1.9 DAVIDSON 74
GREEN 74
2.2 DAVIDSON 74
GREEN 74
ACCENSI 66
+RHO0 DI12851
1.2 DANOLAU 68
+RHO0 A2(13101C
.65-1.1 PRICE 75B
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
1.2-1.3 HANDLER 75
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74
+RHO0 OPRONG
100 RAJA 77B
+RHO0 ANYTHING
1.6 GREEN 74
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74
100 RAJA 77B

+RHC- A2(13101+
1.2-1.3 HANDLER 75
+RHC- ANYTHING
1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74
+2RHO0
.69-1.1 BURNS 74
.94 BURNS 71
1.2-1.3 HANDLER 75
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74
+2PHI
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74
+2P-
1.6 DAVIDSON 74
1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74
+F(1154010 NEUTRAL(S)
1.1-1.2 DANCI 71
+NK(S1 OPRONG
32. JABICL 77
+NK(S1 ANYTHING
32. BARLOWTAUD 76
+K+ ANYTHING
4.0 BEIER 76D
6.0 BEIER 76D
8.0 BEIER 76D
10. BEIER 76D
10.-12. BNL-661
12. BEIER 76D
15. BEIER 76D
20. BEIER 76D
24. BEIER 76D
40. FNAL-32A
80. FNAL-32A
150 BEIER 76D
160 FNAL-32A
200 FNAL-302
? FNAL-236A
+KO NEUTRAL(S)
3.5 BARYAM 75
4.1 BARYAM 75
+K3 ANYTHING
3.5 BNL-654
6.3 BNL-654
8.7 BNL-654
+2K5
0.-.80 CLINE 71B
0.-.60 ANL-E-36B
.69 BURNS 73
.77 BURNS 73
.86 BURNS 73
.94 BURNS 73
1.0 BURNS 73
1.1 BURNS 73
1.2 BARLOW 67
1.2-3.0 BNL-44A
1.6-2.2 RING 70

+2K5 (CONT.)
2.5 BADIER 70
3.5 BNL-65+
6.0 BNL-601 ANGP,PCL
6.3 BNL-65+ FV
8.7 BNL-654 FV
? AGUILARBENIT 74
ANGP,
CS
+K5 K*(892)0
.10-.63 BENVENUTI 71
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
1.2 BARLOW 67
+K5 K*(1420)0
1.00 WARD 76 MULT
+K5 OPRONG
1.2 JABICL 77 CS
1.00 WARD 76 MULT
+K5 K*(892)0
.65 SIENS 73
.77 BURNS 73
.86 BURNS 73
.94 BURNS 73
1.0 BURNS 73
1.1 BURNS 73
+K5 ANYTHING
1.2-1.3 HANDLER 75
1.2- BERTRAND 77 CS,P,
PT
32. BARLOWTAUD 76
JABICL 77 CS,P,PT
65. BLUMENFELD 73
100 RAJA 76 MASS,P,PT
WARD 76 CS,P
150 FNAL-311 ANGP
200 FNAL-392 P
+KL K5
0.-.80 CLINE 71B
0.-.60 ANL-E-36B FV
.10-.80 BENVENUTI 71
1.33-.75 CASON 72
.69 BURNS 73
.77 BURNS 73
.86 BURNS 73
.94 BURNS 73
1.0 BURNS 73
1.1 BURNS 73
1.2 BARLOW 67
? AGUILARBENIT 74
ANGP,
CS
+KNO K0
.25-.80 RUTZ 73
1.6-2.2 CHAPMAN 68
2.7 DCMINGO 67C
3.7 BALTAY 66
6.0-10. BNL-556 ANGP
6.0-10. BNL-594
6.9 YEH 67
+K+3 ANYTHING
1.9 BNL-654
6.3 BNL-654 FV
8.7 BNL-654 FV
+K-+K+
0.-.45 BAL-70B ANGP+CS,
MASS,P
0.-.80 CLINE 71B
3.-2.5 GREENHUT 75B
.25-.80 RUTZ 73
.33-.61 BIZZARRI 69B
.45 BAL-66Z ANGP
.46 BNL-66Z ANGP
.55 BNL-66Z ANGP
1.79-1.1 WANDELKERN 71
.70-2.4 BAFISH 69B
NICHOLSON 65
NICHOLSON 69B
NICHOLSON 71
.79-2.4 CARTER 77D
EISENHANDLER 75
KALMUS 75
.83-2.4 EISENHANDLER 73
EISENHANDLER 74
1.2-1.5 BACON 73
1.6 LYNCH 63B
1.6-2.2 CHAPMAN 68
2.3 FIELDS 71
2.7 DCMINGO 67C

+K- K+ (CONT.)
3.5 CONALD 76
3.7 KATZ 67
4.0-10. BNL-556 ANGP
6.2 BURAN 74 ANGP
BURAN 76B ANGP,CS
20. CERN-WA-007 ANGP
40. CERN-WA-007 ANGP
60. CERN-WA-007 ANGP
80. CERN-WA-007 ANGP
? BARISH 69E
CHAPMAN 68 ANGP,
CS
LYNCH 63B ANGP,CS
NICHOLSON 69B
NICHOLSON 71
+K- K*(892)+
1.5-2.2 BRENZIKOFER 75B
+K- K*(1420)+
1.5-2.0 BRENZIKOFER 75B
+K- K*(UNSPECI+
4.0-10. BNL-556 ANGP
+K- ANYTHING
10.-12. BNL-661 P
40. FNAL-32A ANGP
80. FNAL-32A ANGP
160 FNAL-32A ANGP
200 FNAL-302 P
? FNAL-236A ANGP
+K*(892)+ ANYTHING
150 FNAL-311 ANGP
+K*(892)- K+
1.5-2.2 BRENZIKOFER 75B
+K*(892)- K*(892)+
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
1.4-2.5 BAUBILLIER 76
+K*(892)- ANYTHING
150 FNAL-311 ANGP
+K*(1420)- K+
1.5-2.0 BRENZIKOFER 75B
+K*(UNSPECI+ K-
4.0-10. BNL-556 ANGP
+P PBCNG
22. BCCS 76
+P ANYTHING
4.0 BEIER 76C CS
4.0-22. BEIER 74 CS
6.0 BEIER 76C CS
8.0 BEIER 76C CS
10. BEIER 76C CS
12. BEIER 76C CS
15. BEIER 76C CS
20. BEIER 76C CS
22. BCCS 76
24. BEIER 76C CS
25.-200 FNAL-356 ANGP,P
32. GRARD 75 CS,MASS
40. FNAL-324 ANGP
80. FNAL-324 ANGP
150 BEIER 76C CS
FNAL-311 ANGP
160 FNAL-32A ANGP
200 BEIER 76C CS
? FNAL-236A ANGP
+P DD
22. EGOS 76
200 FNAL-392 FV
+P DD < <GT.1PRONG >
22. BCCS 76
+P DD < <GT.4PRONG >
22. BCCS 76
+P DD < AP PI0 >
5.7 BRAUN 75 CS
+P DD < <GT.3PRONG >
22. BCCS 76
+P DD < AN PI- >
5.7 BRAUN 75 CS
+P DD < AP PI+ PI- >
5.1 BASTIEN 74 MASS,P
32. JABICL 77 CS
+AN N
0.-.80 ANL-E-30I
.23 HIROSE 72
.25-.80 SCHERER 74
.27-.96 ALSTONGARNJO 75B
ALSTONGARNJO 75C
CS
BNL-634
.28-.96 BNL-664
.30-1.0 TRIPP 75 CS
.35-1.8 ARMENTEROS 60
.70 HIROSE 71
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CHAUDHARY 75
.73 SCHREMPP 75B
+67-3.1 CLTTS 74
1.0-3.0 STORER 72
STORER 74, ANGP
1.1 COLEBOURNE 74
1.1-1.8 ELIOFF 69
1.2 COLEBURN 70
1.4 BOGDANSKI 66
1.6 KETT 71
HINRICHS 62
1.8 ATMODE 73 ANGP
SCHREMPP 75B ANGP
2.0 PREL-115 FV
3.0-4.0 CZYZEWSKI 66 ANGP,
3.7 CS
4.1 AAL-E-429 FV
5.0 LEE 73B
SCHREMPP 75B ANGP
5.0-9.0 ASTBURY 66E ANGP,
CS
ASTBURY 66C
7.8 LEE 73B
SCHREMPP 75B
8.0 BEUSCH 70
LEDU 73
20.-40. BABAEV 73C
25. BCLOTCV 74D ANGP,
CS
25.-40. KUTIN 73 CS
35. BCLOTCV 74D ANGP,
CS
40. SCHREMPP 75B ANGP
+AN ANYTHING
150 FNAL-311 ANGP
? HINRICHS 61
+AP P
0. BAL-643 AMP
CERN-S-151 AMP
.10-.55 BIZZARRI 71B
.14 GOLDBERG 69
.15-.28 HOSSAIN 65
.30-.55 CHALCUPKA 76
.30-.73 CLINE 68C
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.35-1.6 ARMENTEROS 63
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.37 ENSPONG 59
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GOLDBERG 69
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.46 DANILOV 74
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.50 ALQUM 75 PWA
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.69 BURNS 74B
.69-2.4 EISENHANDLER 7E
.70 HIROSE 71
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.70-2.4 NICHOLSON 69B
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YOH 70
.77 BURNS 74B
.88 BURNS 74B
.90-2.5 ALBROW 72
.94 BURNS 74B
1.3 BURNS 74B
1.3-2.5 BARISH 66
1.3-3.3 ABRAMS 67C
1.0-50. CUMMINGS 75 ANP,
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1.1-1.5 KALBFLEISCH 71
1.1 1.8 ELIOFF 69
1.2 COLBURN 70
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1.2-1.4 BACON 73
VALLET 71
1.2-1.6 CCOPER 73B
1.4 JENNI 75 ANGP,CS
1.5-1.9 PARKER 71
1.5-2.2 JAYET 74
1.6 EHRLICH 72
EISENHANDLER 74B
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LYNCH 63
1.6-2.2 FALCONER 69
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1.7-3.0 CAUM 68B
1.8 JENNI 75 ANGP,CS
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2.0 JENNI 75 ANGP,CS
2.7 ANDERSSON 69E
DOMINGO 67
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GOLOSCHMIDT 62
3.0-3.6 ESCOURES 63 ANGP,
CS
3.0-6.0 AMBATS 74
3.2 FERBEL 62B
3.3-3.7 FERBEL 65
3.5 BAYER 69?
3.6 DEHNE 64 CS
3.7 KATZ 62
3.9 ENL-654
4.0 CZYZEWSKI 65 ANGP,
CS
4.0-10. BNL-556 ANGP
4.1 AAL-E-429 FV
4.2 JENNI 77 ANGP
5.0 CERN-S-144 AMP,
ANGP
CHAEAUD 72C
EIDE 73
FRENCH 75 ANGP
LUNDBY 72
TEVELE 71
5.0-11. VONDARDEL 68B
5.7 BOCKMANN 66 ANGP,
CS
BEAUN 75 ANGP,CS
5.8 EWEN 69 ANGP
6.0 BORGHINI 73 PCL
JENNI 77 ANGP
CLIVIER 71
PEFERSON 73
6.0-17. BORGHINI 71E
CHEN 75 ANGP
6.2 BURAN 74C
BURAN 74C
BURAN 77 ANGP
6.3 ENL-654 FV
6.6-7.1 FERBEL 65B
6.9 FERBEL 68
KITAGAKI 68
7.0 KITAGAKI 74B
7.2-12. FOLEY 63B
8.6 BIRNBAUM 69C ANGP
BIRNBAUM 69C ANGP
JENNI 77 ANGP
8.0-16. BIRNBAUM 73B ANGP
8.7 BNL-654 FV
9.7-2660 SIDHU 74
10. BRANDENBURG 75
CARNEGIE 75B
CARNEGIE 75C ANGP
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ANGP
JENNI 77 ANGP
CLEVIER 71
BORGHINI 71D PCL
10.-14. FOLEY 67B
12. FOLEY 65
12.-16. FOLEY 65
14. OLIVIER 71
16. BIRNBAUM 69C ANGP
20. CERN-HA-307 ANGP
25. ANTIPOV 72F
ANTIPOV 73P
ANTIPOV 74D
25.-200 FNAL-366 ANGP
30.-200 LACH 75
32. JASIOL 77 CS
40. ANTIPOV 72F
ANTIPOV 73P
ANTIPOV 74D
BRUNETON 76C AMP,
PCL
CERN-HA-307 ANGP
GAIDOT 75 CS,PCL
KAZARINOV 76 ANGP,
CS
50. AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-HA-006 AMP,
ANGP
FNAL-C07 ANGP

AP P ---> (CONT.)

+AP P (CONT.)
50.-175 AYRES 76D ANGP,CS
50.-230 FNAL-069A ANGP
FNAL-098 ANGP
60. CERN-HA-007 ANGP
70. ANDERSON 76C ANGP,
CS
ANKENBRANDT 75
AMP,
ANGP
ANKENBRANDT 75
ANGP
75. CERN-HA-309 AMP,
ANGP
80. CERN-HA-007 ANGP
FNAL-007 ANGP
100 AKERLOF 75 ANGP,
CS
AKERLOF 76 ANGP,
CS
ANDERSON 76C ANGP,
CS
ANKENBRANDT 75
AMP,
ANGP
ANSORGE 75B ANGP,
CS
ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
CERN-HA-309 AMP,
ANGP
MEYER 74 ANGP
FNAL-007 ANGP
110 ANKENBRANDT 75
125 AMP,
ANGP
140 ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
FNAL-007 ANGP
150 ANKENBRANDT 75
AMP,
ANGP
FNAL-311 ANGP
170 FNAL-007 ANGP
175 ANDERSON 76C ANGP,
CS
AYRES 75 ANGP
AYRES 76C AMP,
ANGP,CS
AKERLOF 75 ANGP,
CS
FNAL-362 FV
400 LALQUM 74C PWA
500 LALQUM 74C PWA
? BERNARDINI 68
BORGHINI 70 PCL
CARLSON 73
CARNEGIE 75B AMP
CESCHIA 73 PCL
DERRICK 75
FOLEY 63B
FOLEY 65
KALMUS 75
SPENCER 70
WAGNER 74 PWA
+AP N11+7301+
2.8 BECON 69
3.3-3.7 FERBEL 69
+AP N11730B+
5.7 ATHERTON 76B ANG,
ANGP,MASS
+AP NPIUNSPECI+
32.-63. FNAL-344 ANGP
50.-200 FNAL-096 ANGP
+AP ANYTHING
10. SLAC-E-139 ANGP
40. FNAL-324 ANGP
50.-175 ANDERSON 76B CS,P
ANDERSON 76B CS,P
80. FNAL-324 ANGP
140 AYRES 76B ANGP,CS,
MASS
160 FNAL-324 ANGP
175 AYRES 76B ANGP,CS,
MASS
? FNAL-238A ANGP
+AP 00
200 FNAL-362 FV

AP P ---> (CONT.)

+AP CE < P PI+ PI- >
5.1 BASTIEN 74 MASS,P
+AN1730B1- P
5.7 ATHERTON 76B ANG,
ANGP,MASS
+DEL++ ANYTHING
4.0 CMCDUNNEY 76F CS,
P,PT
150 FNAL-311 ANGP
+ADELO DELO
5.1 ATHERTON 76 CS
+ADEL- P
2.2 STRINGER 71
8.0-16. BIRNBAUM 73B ANGP
+ADEL++ DEL++
2.2 STRINGER 71
2.4-2.6 JESPERSEN 7C ANGP,
CS
2.5 MASON 71 CS
2.7 CRAWLEY 67 ANGP,
CS
2.7-2.9 KERNAN 70 CS
3.3 SVENSSON 65
3.6 DEHNE 64 CS
SVENSSON 65
3.7 SVENSSON 65
5.1 BASTIEN 74 MASS,P
5.7 ALLESSANDRELLI 67
ANGP,
CS
ATHERTON 76 ANGP,
CS,DME
BOCKMANN 65
BOCKMANN 66 ANGP,
CS
BOHM 74J ANGP
CVACH 74 ANGP
6.9 FERBEL 68
9.1 WALCH 75
9.2 GREGORY 73 ANGP
32. JABICL 77 CS
+LAMBDA NPIPKNGI
12. BERTRAND 77 MULT
15. CAC 74B
+LAMBDA NEUTRON
3.9 BARYAM 75
4.1 BARYAM 75
+LAMBDA ANYTHING
3.9 BNL-654
6.3 BNL-654 FV
8.7 BNL-654 FV
12. BERTRAND 77 CS,P,
PT
32. JABICL 77 P
65. BLUMENFELD 73B
150 FNAL-311 ANGP
200 FNAL-362 P
+LAMBDA LAMBDA
1.2-3.0 BNL-644 ANGP,CS
1.5-2.3 YUILLEMIN 74C
1.6 BUTTEN 61
LYNCH 61
2.2 KWAN 65C
KWAN 74
KWAN 74
2.6 BADIER 67
SCHALK 66
2.7 FISHER 67 ANGP,CS
2.9 SCHALK 65
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B CS
3.6 ATHERTON 76D ANGP,
CS,PCL
FRENCH 76
3.6 BNL-654
4.0 GAUTHIER 75
4.0-10. BNL-596 ANGP
5.7 ATHERTON 69 ANGP,
CS
6.0-10. BNL-594 FV
6.3 BNL-654 FV
7.0 EWEN 68 ANGP,CS
8.7 BNL-654 FV
? EWEN 66 ANGP,CS
MUSGRAVE 65 ANGP,
CS
+SLAMBDA SIGMAO
2.4 BADIER 67
3.6 ATHERTON 76D ANGP,
PCL
4.0 GAUTHIER 75
6.0 BNL-601 ANGP,PCL
6.0-10. BNL-594

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AP P --> (CONT.)

+ALAMBDA +#(UNSPECIF)
6.0-10. BNL-564
+ALAMBDA #(FRENG)
12. BERTRAND 77 MULT
+ALAMBDA NEUTRALIS)
3.6 BARYAM 75
+ALAMBDA ANYTHING
12. BERTRAND 77 CS,P,
PI
15. CAO 76
32. JABICL 77 P
100 RAJA 76 ANGP,+MASS;
P,+CL,PI
153 FNAL-111 ANGP
200 FNAL-392 P
+NELAMBDA) 2PRENG
32. JABICL 77 MULT
+NELAMBDA) ANYTHING
32. EARLCUTAUD 76
MULT
+ASIGMA+ SIGMA+
3.6 ATHERTON 76C ANGP,
POL
+ASIGMA+ SIGMA-
2.2 AWAK 74
2.7 FISHER 67 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
3.6 ATHERTON 71B
ATHERTON 72
FRENCH 76
5.7 ATHERTEN 69 ANGP,
7 BALTAY 65B ANGP,
CS
MUSGRAVE 65 ANGP,
CS
+ASIGMA0 LAMBDA
2.4 BADIER 67
6.0 BNL-801 ANGP,POL
+ASIGMA0 SIGMA0
2.4 BADIER 67
2.7 FISHER 67 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.6 FRENCH 76
5.7 ATHERTEN 71 ANGP,
CS
+ASIGMA- SIGMA+
2.2 AWAK 74
2.7 FISHER 67 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
3.6 ATHERTON 71B
ATHERTON 74C CS
FRENCH 76
5.7 ATHERTEN 69 ANGP,
CS
7 BALTAY 65B ANGP,
CS
MUSGRAVE 65 ANGP,
CS
+ASIGI13E5P131+
SIGI13E5P131-
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
5.7 ATHERTEN 71 ANGP,
CS
7 ATHERTEN 71 ANGP,
CS
+ASIGI13E5P131-
SIGI13E5P131+
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
5.7 ATHERTEN 71 ANGP,
CS
+A1+ X1-
2.7 FISHER 67 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
+AX10 X10
2.7 FISHER 67 ANGP,CS
+HYPERON ANYTHING
3.3-3.7 BALTAY 65B
7.0 CHIEN 66 ANGP,CS
+HADRON- HADRON+
3. BASSOMPIERRE 76C
ANG,
CS

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+2PRENG VEE
2.3 CHEN 77D
+2PRENG
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.20-.25 CHALLOUPKA 76
.30-.60 BIZZARRI 73 CS
.36-.53 MONTANET 75
1.0-1.6 RHESWAN 74
1.2-1.6 CROPPER 66C
1.5-2.6 MA 73E
2.3 CHEN 77D
2.3-3.7 FERBEL 65
4.6 EVERETT 74 CS
5.0 EIDE 73
5.5 DAO 74
5.7 BOCKMANN 66 ANGP,
CS
6.6 FERBEL 66
KITAGAKI 68
15. DAO 74
22. ABRSALASHKIN 74
BOOS 76
32. APOPOZHNOV 74 CS
FRANCESOVIET 74C
CS
GRARD 75 CS,MASS
JABICL 77 CS
+NEUTRALS CHARGEE
22. BOOS 76
+NEUTRALS .GT.2PRENG
22. BOOS 76
+NEUTRALS .GT.+PRENG
22. BOOS 76
+NEUTRALS .GT.2PRONG
22. BOOS 76
+ANYTHING VEE
2.3 CHEN 77D
+ANYTHING CHARGED+
22. BOOS 76
+ANYTHING CHARGE0-
22. BOOS 76
+ANYTHING PRONG
15. DAO 74G
+2GAMMA ANYTHING
1.6 ALIBRAN 76
100 RAJA 76 CS
+E- E+ NEUTRALS
0. CASSOMPIERRE 76
ANG
BASSOMPIERRE 76C
ANG,
+E- E+ ANYTHING
4.1 ANL-E-429 FV
15. BNL-761 MASS
150-300 FNAL-392
+MU- MU+ ANYTHING
150 FNAL-331 ANGP,P
150-300 FNAL-392
+PI+(S) PI0(S) PI-(S)
.65 BURNS 75B
.77 BURNS 75B
.86 BURNS 75B
.94 BURNS 75B
1.0 BURNS 75B
1.1 BURNS 75B
+PI(S) 2PRONG
1.5-2.9 MA 73E
+NIPI0 2PRONG
2.3 CHEN 77D
32. JABICL 77 MULT
+PI+ PI0 PI-
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5.7 BOCKMANN 66 ANGP,
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+3P10
0. JEVONS 73 CS,MASS
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1.6 ALIBRAN 76
2.3 RHEL-115 FV
+PI3 2PRONG
32. JABICL 77 CS
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+ETA PI+ PI-
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5.7 ALLESSCRELLI 67C
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+PI 2PI3
0. JEVONS 73 CS,MASS
2.3 RHEL-115 FV
+NEPHC)3 2PRENG
100 RAJA 76B MULT
+RHO+ RHO3 PI-
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1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
2.3 OREN 73
+RHO3 PI+ PI-
.69-1.1 BURNS 74
1.4 DONALD 68B CS
1.6 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74 CS,
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+RHO3 PI+ PI-
1.3 CHEN 77D
2.5 CLAYTON 70
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5.7 ACCENST 66 CS
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1.9 GREEN 74
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1.8 GREEN 74
1.9 GREEN 74
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2.3 OREN 73
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1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
2.3 OREN 73
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+OMEGA PI+ PI-
.70 AGUILARBENIT 77B
.76 AGUILARBENIT 77B
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1.8 DAVIDSON 74
1.9 DAVIDSON 74
2.2 DAVIDSON 74
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2.2 DAVIDSON 74 CS,
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1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
+F RHO3 PI0
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1.8 GREEN 74
1.9 GREEN 74
2.2 GREEN 74 CS
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1.8 GREEN 74
1.9 GREEN 74
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+ETAPRIME PI+ PI-
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+DELTA(1700) OMEGA PI+
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+S(1693) PI+ PI-
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.76 AGUILARBENIT 77B
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1.9 GREEN 74
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1.9 GREEN 74
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+X0(1430) PI+ PI-
0. FESTER 68B
+PRIME PI+ PI-
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+A3(1691) PI+ PI-
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*LAMBDA AS((1385P)31+ PI+
5.7 ATHERTON 71 ANGP,
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LESTIENNE 73 PT
6.9 FERBEL 68
7.3 VANAPELDOORN 74B
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9.1 CARLSSEN 76 ANG,
ANGP,MASS,P
WARREN 75 CS
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1.1-1.5 KALBFLEISCH 69
1.2 DONALD 69 CS
1.6 KUONG 82
1.6-2.2 LYS 70
3.3-3.7 FERBEL 66

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.67-1.1 SCHULTZ 75
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+.30-.55 CHALGUPKA 76
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+.34-.53 MONTANET 75
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1.1-1.5 KALBFLEISCH 69
1.2 DONALD 68B CS
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GREEN 74
1.9 DAVIDSON 74
GREEN 74
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GREEN 74 CS
2.3 CHEN 77D
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5.5 DAO 74
5.7 ALLESBORELLI 66
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BOCKMANN 66 ANGP,
CS
6.0 DELUDE 75 CS
6.9 FERBEL 68
KITAZAKI 68
7.3 VANAPELDOORN 74B
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15. DAO 74
22. ABESALASHVIL 74
BOOS 76
32. AKOPDZHANOV 74 CS
FRANCESCOVIET 74C
CS
GRARD 75 CS,MASS
JABICL 77 CS
103 RAJA 77B MASS
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1.5-2.9 WA 73B
+4(P1D) APRONG
2.3 CHEN 77D
32. JABICL 77 MULT
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.73-1.1 BURNS 75E
1.1-1.5 KALBFLEISCH 69
1.2 DONALD 69 CS
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1.6 ALIBRAN 76
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1.8 GREEN 74
1.9 GREEN 74
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EVERETT 74 CS
4.6 WARREN 75 CS
5.7 ALLESBORELLI 67C
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LESTIENNE 73 PT
6.9 FERBEL 68
7.3 VANAPELDOORN 74B
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9.1 CARLSSEN 76 ANG,
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*2K5 PI+ PIO PI- (CONT.)
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2.7 SCHROEDER 69 CS
3.7 BALTAY 66
5.7 ATHERTON 70 CS
*2K5 PI+ PI- PI05
2.5 BACIER 73
5.7 ATHERTON 70 CS
*KS K- 2PI+ PI-
1.5-2.0 VUILLEMIN 74
VUILLEMIN 74B
3.6 FRENCH 74 MASS
7 VUILLEMIN 74B CS
*KS K- PI+ 2PI0
2.0 RHEL-115 FV
*K5 +PRENG
32. JABICL 77 CS
100 WARD 76 CS
*P AN PI+ 2PI-
2.4-2.5 JESPERSEN 70 ANGP,
CS
2.5 MASON 71 CS
3.6 DEHME 64 CS
4.6 WARREN 75 CS
5.7 ALLESBORELLI 67B
CS
ATHERTON 74B ANG,
ANGP,MASS
BOCKMANN 66 ANGP,
CS
6.9 FERBEL 68
9.1 CARLSSCN 76 ANG,
ANGP,P,PT
WARREN 75 CS
*P AP PI+ PI- ANYTHING
32. JABICL 77 MASS,P
*N AN PIO PI-
4.6 EVERETT 74 CS
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2.4-2.5 JESPERSEN 70 ANGP,
CS
2.5 MASON 71
3.6 DEHME 64 CS
4.6 WARREN 75 CS
5.7 ALLESBORELLI 67B
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BOCKMANN 66 ANGP,
CS
9.1 WARREN 75 CS
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100 FNAL-110A
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*LAMBDA ALAMBDA PI+ PIO PI-
3.0-4.0 MUSGRAVE 65 ANGP,
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3.3-3.7 BALTAY 65B
*NLAMBDA) 4PRONG
32. JABICL 77 MULT
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4.7-5.1 SCHILTZ 75
*VEE 4PRONG
2.3 CHEN 77D
*GAMMA
0. SMITH 72
*3PI+ 3PI-
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1.1 ANGELINI 76
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1.1-1.4 RESSELET 75
1.2 GAY 75
1.3 GAY 75 ANG,ANGP,
CS,MASS
1.4 GAY 75
1.5-2.0 VUILLEMIN 72
1.6 ALIBRAN 76
KUONG 62
2.3 CHEN 77D
OREN 73
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 66

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*3PI+ 3PI- (CONT.)
3.6 ATHERTON 70B CS
NELLEN 70
4.6 EVERETT 74 CS
WARREN 75 CS
5.7 BOCKMANN 66 ANGP,
CS
6.5 FRIDMAN 68B CS
ALEXANDER 70C
FERBEL 68 P
CERN-HA-029
7.9 CARLSSCN 76 ANG,
ANGP,P,PT
WARREN 75 CS
15. CERN-HA-029 FV
*2PI+ 2PI0 2PI-
1.2 DONALC 69 CS
1.6 ALIBRAN 76
2.0 RHEL-115 FV
2.5 CLAYTCN 73
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
*PI+ 4PIO PI-
1.0 ALIBRAN 76
3.3-3.7 FERBEL 66
5.7 ATHERTON 70B CS
BOCKMANN 66 ANGP,
CS
*HRHOO 2PI+ PI3 2PI-
2.3 CHEN 77D
3.3-3.7 FERBEL 66
*PI+ PI- PI3 2PI-
2.5 BACIER 70
3.3-3.7 FERBEL 66
*2K5 PI+ PI- PI3 2PI-
2.5 BACIER 70
3.3-3.7 FERBEL 66
*2K5 PI+ PI- PI3 2PI-NEUTRALS
2.3 CHEN 77D
*K+ K5 PI+ PI3 2PI-
1.2 MINNAERT 77E MASS
2.5 BADIER 70
3.6 FRENCH 74 MASS
*K+ K5 PI+ 2PI- PI05
2.5 BADIER 70
*K+ K- 2PI+ 2PI-
1.6 ALIBRAN 76
KUONG 62
2.3 CHEN 77D
3.3 DAFY 72
3.3-3.7 FERBEL 66
5.7 EDMP 75 MASS
*2K5 2PI+ 2PI-
2.5 BADIER 70
3.6 FRENCH 75B CS,
MASS
3.7 BALTAY 66
5.7 ATHERTON 70 CS
*K5 K- 2PI+ PI0 PI-
1.7 MINNAERT 77E MASS
3.6 FRENCH 74 MASS
*KN180210 K5 2PI+ 2PI-
1.7 ATHERTON 70 CS
*2P 2AP PI+ PI-
32. JABICL 77 CS
*P AP 2PI+ 2PI-
3.3-3.7 FERBEL 65
3.6 BARTKE 74B ANGP,
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5.7 BOCKMANN 66 ANGP,
CS
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FERBEL 68
6.9 FERBEL 68
9.1 CARLSSCN 76 ANG,
ANGP,P
WARREN 75 CS
32. BARLOGLTAUD 76 CS
JABICL 77 CS
*P AP 2K- 2K-
32. JABICL 77 CS
*P SPRENG
2. BCDS 76
*LAMBDA ALAMBDA 2PI+ 2PI-
7.0 CHIEN 66 ANGP,CS
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.30-.55 CHALOUPKA 76

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*6PRONG (CONT.)
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.36-.53 MCNAMEE 75
1.0 ANGELINI 76 CS
1.3-1.6 HUESMAN 74
1.4 ANGELINI 76
1.41-1.5 KALOELEISCM 69
1.42-1.6 COOPER 68C
1.5-2.9 MA 73B
2.3 CHEN 77D
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 65
FERBEL 66
3.6 ATHERTCN 70B CS
4.6 EVERETT 74 CS
5.5 DAO 74
5.7 BOCKMANN 66 ANGP,
CS
FRIDMAN 68B CS
DULUDE 75 CS
6.3 FERBEL 68
6.9 FERBEL 68
CHEN 77D
15. DAO 74
22. ABESALASHVIL 74
BCDS 76
32. AKOPDZHANOV 74 CS
FRANCESGVIET 74C
CS
GRARD 75 CS,*MASS
JABICL 77 CS
100 RAJA 77B MASS
*P(0)(5) 6PRONG
1.5-2.9 MA 73B
*NIP(0) 6PRONG
2.3 CHEN 77D
32. JABICL 77 MULT
*3PI+ PI3 3PI-
.72 DEPOISY 74B
1.3 ANGELINI 76 ANGP,
ASYM,CS,*MASS
1.4 ANGELINI 76
GAY 75
1.4-1.4 ROSSELET 75
1.2 GAY 75
1.3 GAY 75 CS
1.4 GAY 75
1.5-2.0 VUILLEMIN 72
1.6 ALIBRAN 76
KUONG 62
2.3 CHEN 77D
OREN 73
3.3 DANYSZ 67B CS
3.3-3.7 FERBEL 66
3.6 ATHERTCN 70B CS
NELLEN 70
YIOU 71
4.6 EVERETT 74 CS
WARREN 75 CS
5.7 BOCKMANN 66 ANGP,
CS
BRAUN 73E
BRAUN 73E P,PT
BRAUN 73H
BRAUN 76 P
FRIDMAN 68B CS
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9.1 CARLSSCN 76 ANG,
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PT
CARLSSCN 76 ANG,
ANGP,*MASS,P,
PT
WARREN 75 CS
*3PI+ 3PI- (CONT.)
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1.2 GAY 75
1.3 GAY 75 CS
1.4 GAY 75
3.3-3.7 FERBEL 66
5.7 BOCKMANN 66 ANGP,
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6.5 ALEXANDER 70C
FERBEL 68
*3PI+ 3PI- MASS,P
4.6 EVERETT 74 CS
*3PI+ 3PI- NEUTRALS
2.3 CHEN 77D
4.6 EVERETT 74 CS

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*4PI+ 5PI0 PI-
1.6 ALIBRAN 76
4.6 EVERETT 74 CS
*2PI0
1.6 ALIBRAN 76
*PI0 6PRONG
32. JABICL 77 CS
100 RAJA 76 CS
*OMEGA 3PI+ 3PI-
2.3 CHEN 77D
*NEW5) 6PRONG
32. JABICL 77 MULT
*K0 K5 2PI+ 2PI- PI0S3
2.5 BACIER 70
5.7 ATHERTON 70 CS
*2K5 2PI+ PI0 2PI-
2.5 BADIER 70
3.6 FRENCH 75B CS,
MASS
*K5 6PRONG
32. JABICL 77 CS
100 WARD 76 CS
*P AP 2PI+ PI0 2PI-
6.9 FERBEL 68
9.1 CARLSSCN 76 ANG,
ANGP,P
WARREN 75 CS
*NLAMBDA) 6PRONG
32. JABICL 77 MULT
*WEE 6PRONG
2.3 CHEN 77D
*4PI+ 4PI-
1.6 KUONG 62
2.3 CHEN 77D
CREN 73
2.7 FISHER 76 CS
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
WARREN 75 CS
5.7 BRAUN 73E P,PT
BRAUN 76 P
FRIDMAN 68 CS
BARNIE 70
9.1 CARLSSCN 76 ANG,
ANGP,P,PT
WARREN 75 CS
32. JABICL 77 CS
*3PI+ 2PI0 2PI-
1.6 ALIBRAN 76
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2.0 RHEL-115 FV
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
*2PI+ 4PI0 2PI-
1.6 ALIBRAN 76
2.5 CLAYTCN 71
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
*PN0 3PI+ 3PI- PI0
2.3 CHEN 77D
*K5 3PI+ 3PI- ANYTHING
12. APOSTOLAKIS 76
MASS
*P AP 3PI+ 3PI-
32. JABICL 77 CS
*P 7PRONG
22. BCDS 76
*8PRONG
1.6-1.6 HUESMAN 74
1.6 KUONG 62
2.3 CHEN 77D
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 65
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4.6 EVERETT 74 CS
5.7 FRIDMAN 68 CS
6.0 DULUDE 75 CS
6.9 FERBEL 68
KITAGAKI 68
15. DAO 74
22. ABESALASHVIL 74
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32. AKFOZHANOV 74 CS
FRANCESOVIET 74C
CS
GRARD 75 CS,MASS
JABICL 77 CS
100 RAJA 77B MASS
+NIPI03 8PRONG
2.3 CHEN 77D
32. JABICL 77 MULT
+4PI+ PIO 4PI-
1.6 YUONG 62
2.3 CHEN 77D
CHEN 73
2.7 FISHER 70 CS
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
WARREN 75 CS
5.7 BRAUM 73E P,PI
BRAUM 76 P
FRICMAN 68 CS
6.9 BARNIR 70
9.1 CARLSSEN 76 ANG,
ANGP,P,PI
WARREN 75 CS
+4PI+ 4PI- PIOS
2.7 FISHER 70 CS
3.3-3.7 FERBEL 66
4.6 BARNIR 70
+4PI+ 4PI- MM,EE,2
4.6 EVERETT 74 CS
+3PI+ 3PIO 3PI-
2.0 RMEL-115 FV
3.0 DANYSZ 67B CS
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
+2PI+ 5PIO 2PI-
2.5 CLAYTON 71
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
+PIO 8PRONG
32. JABICL 77 CS
100 RAJA 76 CS
WARD 76 CS
+NIPHOO1 8PRONG
100 RAJA 77B MULT
+RHOO 8PRONG
100 RAJA 77B CS
+NIAS1 8PRONG
32. JABICL 77 MULT
+K5 8PRONG
32. JABICL 77 CS
100 WARD 76 CS
+NLAMBDA1 8PRONG
32. JABICL 77 MULT
+VEE 8PRONG
2.3 CHEN 77D
+5PI+ 5PI-
2.7 FISHER 70 CS
6.9 BARNIR 70
32. JABICL 77 CS
+4PI+ 2PIO 4PI-
3.0 DANYSZ 67B CS
+3PI+ 4PIO 3PI-
3.3-3.7 FERBEL 66
4.6 EVERETT 74 CS
+P AP 4PI+ 4PI-
32. JABICL 77 CS
+P 8PRONG
22. BCOS 76
+10PRONG
2.3 CHEN 77C
3.0 DANYSZ 67B CS
5.5 DAO 74
15. DAC 74
22. ABESALASHVIL 74
BCOS 76
32. AKOPDZHANOV 74 CS
FRANCESOVIET 74C
CS
GRARD 75 CS,MAS
JABICL 77 CS
100 RAJA 77B MASS
+NIPI31 10PRONG
2.3 CHEN 77D
32. JABICL 77 MULT
+5PI+ PIO 5PI-
2.7 FISHER 70 CS
6.9 BARNIR 70
+5PI+ 5PI- PIOS
6.9 BARNIR 70
+4PI+ 3PIO 4PI-
3.0 DANYSZ 67B CS

AP P --> (CONT.)
+3PI+ 5PIO 3PI-
4.6 EVERETT 74 CS
+PIO 10PRONG
32. JABICL 77 CS
100 RAJA 76 CS
WARD 76 CS
+NIKH00 10PRONG
100 RAJA 77B MULT
+NIPI03 10PRONG
32. JABICL 77 MULT
+P 11PRONG
22. BCOS 76
+12PRONG
5.5 DAO 74
15. DAO 74
22. ABESALASHVIL 74
BCCS 76
JABICL 77 CS
+NIPI01 12PRONG
32. JABICL 77 MULT
+PIO 12PRONG
32. JABICL 77 CS
100 RAJA 76 CS
WARD 76 CS
+NIPHOO1 12PRONG
100 RAJA 77B MULT
+NLAMBDA1 12PRONG
32. JABICL 77 MULT
-14PRONG
5.5 DAO 74
15. DAO 74
22. ABESALASHVIL 74
32. AKOPDZHANOV 74 CS
FRANCESOVIET 74C
CS
JABICL 77 CS
+PIO 14PRONG
32. JABICL 77 CS
100 RAJA 76 CS
WARD 76 CS
+NIKHC01 14PRONG
100 RAJA 77B MULT
+RHOO 14PRONG
100 RAJA 77B CS
+K5 14PRONG
32. JABICL 77 CS
100 WARD 76 CS
+16PRONG
22. ABESALASHVIL 74
32. AKOPDZHANOV 74 CS
FRANCESOVIET 74C
CS
JABICL 77 CS
+PIO 18PRONG
32. JABICL 77 CS
100 RAJA 76 CS
WARC 76 CS
+K5 20PRONG
3.0 JABICL 77 CS
.00 WARC 76 CS
+PIO 18PRONG
100 RAJA 76 CS
+C
+ ANO K*(8)2I0
-30-.80 BRUSH 74
+NEUTRALS - AN N
-27-.66 ALSTONGARNJO 75B
+CC
+ N AP 2PI+ PI-
2.4-2.9 JESPERSEN 70 ANGP,
CS
+CC
+ AP DEL++ PI-
5.7 ALLESBORELLI 67
ANGP,
CS

AP P --> (CONT.)
+PI+ RHO+
+ PI- RHO+
3.3-3.7 FERBEL 66
+PI+ OMEGAPI(1600)+
+ PI- OMEGAPI(1600)+
1.5-2.0 DONALD 76B
+PI+ B(1235)+
+ PI- B(1235)+
1.2 DONALD 69 CS
2.3 CREN 73
+PI+ OMEGAPI(1240)+
+ PI- OMEGAPI(1240)+
1.5-2.0 DONALD 76B
+PI+ A2(1310)+
+ PI- A2(1310)+
.69-1.1 BURNS 74
.94 BURNS 71
1.1-2.5 BAUBILLIER 76
1.2 DONALD 68B CS
1.5-2.0 VUILLEMIN 76
+PI- PI+
+ PI- PI+
.70-2.6 NICHOLSON 69B
NICHOLSON 71
.72-2.6 FENG 68
+K0 CC
+ K+ K0 PI-
0.-1.2 DEFOIX 75
+K5 CC
+ K5 K- PI+
.30-.83 BRUSH 74
+K5 CC
+ K5 K- RHO+
.30-.83 ERUSH 74
+K- K+
+ K- K+
.70-2.4 NICHOLSON 69B
NICHOLSON 71
.72-2.6 FENG 68
+AK*(8)2I0 K0
+ ANO K*(8)2I0
1.1-2.5 BAUBILLIER 76
+K*(892)- K+
+ K- K*(892)+
1.1-2.5 BAUBILLIER 76
1.2 BARLOW 67
1.5-2.0 VUILLEMIN 76
5.7 ATHERTON 70 CS
+OL0W(1240)- K+
+ K- OL0W(1240)+
1.5-2.0 VUILLEMIN 76
+AK*(1420)- K0
+ ANO K*(1420)0
1.1-2.5 BAUBILLIER 76
1.5-2.0 VUILLEMIN 76
+K*(1423)- K+
+ K- K*(1420)+
1.1-2.5 BAUBILLIER 76
1.2 BARLOW 67
1.5-2.0 VUILLEMIN 76
+P DD < AP PI+ >
+ AP DD < N PI+ >
5.7 BRAUN 74B CS
+P DD < AP PI+ >
+ AP DD < P PI0 >
5.7 BRAUN 74B CS
+AN N(1520)1310
+ AN(1520)1310 N
5.7 BRAUN 74B CS
+AN N(1523)10
+ AN(1520)10 N
5.7 BRAUN 75 CS
+AN N(1688)1513
+ AN(1688)1513 N
5.7 BRAUN 74B CS
+AN N(1700)10
+ AN(1700)10 N
5.7 BRAUN 75 CS
+AN DEL0
+ ADEL0 N
5.7 BRAUN 74B CS
BRAUN 75 CS
+AP N(1470)1+
+ AN(1470)1- P
5.7 ATHERTON 76 CS
+AP N(16.5)15+
+ AN(1688)15)- P
5.7 BRAUN 74B CS
7 BRAUN 74B CS
+AP N(1700)1+
+ AN(1700)1- P
5.7 ATHERTON 74 CS
ATHERTON 76 CS
BRAUN 75 CS

AP P --> (CONT.)
+AP DEL+
+ ADEL- P
5.7 BRAUN 74B CS
BRAUN 75 CS
7 BRAUN 74B CS
BRAUN 75 CS
+LAMBDA N(1NVEE)
+ SIGMA0 N(VEE)
100 WARD 76 MULT
+LAMBDA ORPONG
+ ALAMBDA OPRONG
32. JABICL 77 CS
+LAMBDA OPRONG
+ SIGMAO OPRONG
100 WARD 76 CS
+LAMBDA N(PRONG)
+ SIGMAO N(PRONG)
100 WARD 76 MULT
+LAMBDA ANYTHING
+ SIGMAO ANYTHING
5.7 GANGULI 73B
100 WARD 76 CS,P
+LAMBDA ANYTHING
+ CC ANYTHING
32. JABICL 77 CS,P,PT
+ALAMBDA(AM(34055)2)
+ ALAM(14055)01) LAMBDA
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
5.7 ATHERTON 74 ANGP,
CS
+ALAMEDA SIGMAO
+ ASIGMAO LAMBDA
2.2 KWAK 65C
KWAK 74
2.4 BADIER 67
2.7 FISHER 67 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
3.6 ATHERTON 74D CS
5.7 ATHERTON 69 ANGP,
CS
7.0 CHIEN 66 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
5.7 ATHERTON 71 ANGP,
CS
+ASIGMA+ SIGMA-
+ ASIGMA- SIGMA+
7.0 CHIEN 66 ANGP,CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
5.7 ATHERTON 71 ANGP,
CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.0-4.0 MUSGRAVE 65 ANGP,
CS
3.3-3.7 BALTAY 65B
5.7 ATHERTON 71 ANGP,
CS
+ASIGI3859P1310 LAM(1520D03)
+ ALAM(1520D03)
SIGI3859P1310
5.7 ATHERTON 74
+RHO+ RHO0 PI-
+ RHO0 RHO- PI+
.70-1.1 BURNS 75E
+OELTA(970)+ OMEGA PI-
+ OELTA(970)- OMEGA PI+
1.5-2.0 VUILLEMIN 76
+A1(1700)+ PI0 PI-
+ A1(1700)- PI+ PI0
5.7 BRAUN 74B CS
+A2(1310)+ PI0 PI-
+ A2(1310)- PI+ PI0
1.2 DONALD 69 CS
1.5-2.0 BRENZIKOFER 75B
VUILLEMIN 76
2.3 CREN 73
+A2(1310)+ RHO0 PI+
+ A2(1310)- RHO0 PI-
2.3 CREN 73
+A3(1640)+ PI0 PI-
+ A3(1640)- PI+ PI0
2.3 CREN 73

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+K+ +S PI-
+ KS K- PI+
   1.1-2.5  BAUBILLIER 76
   1.2      BARLOW 67
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   1.5-2.0  BRENZIKOFER 75B
   2.5      BADIER 70
   2.7      SCHREDDER 65      CS I
   3.7      BALTAY 66
   5.7      ATHERTON 70       CS I
+K+ KS RHO-
+ KS K- RHO+
   1.2      BARLOW 67
+K+ KL RHO-
+ KL K- RHO+
   1.5-2.0  BRENZIKOFER 75B
+K+ AKO PI-
+ KO K- PI+
   1.5-2.0  VUILLEMIN 76
+K+ AKO RHO-
+ KO K- RHO+
   1.5-2.0  VUILLEMIN 76
+KS PI+ ANYTHING
+ KS PI- ANYTHING
   100      RAJA 76                MASS I
+KS PIO CC
+ KS K- PI+ PIO
   .30-.80  BRUSH 74
+K*(892)+ KS PI-
+ K*(892)- KS PI+
   .70      AGUILARBENITZ 72B
   .76      AGUILARBENITZ 72B
   1.2      BARLOW 67
   1.5-2.0  VUILLEMIN 76
   5.7      ATHERTON 70       CS I
+K*(892)+ K- PIO
+ K*(892)- K+ PIO
   1.2      BARLOW 67
   1.5-2.0  BRENZIKOFER 75B
            VUILLEMIN 76
+K*(892)+ K- OMEGA
+ K*(892)- K+ CMEGA
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
            VUILLEMIN 75B
   1.5-2.0  VUILLEMIN 76
+K*(89210 KS OMEGA
+ AK*(89210 KS CMEGA
   1.5-2.0  VUILLEMIN 75B
+K*(89210 AKO PIO
+ AK*(89210 KO PIO
   1.5-2.0  VUILLEMIN 76
+K*(89210 K- PI+
+ AK*(89210 K+ PI-
   .69-1.1  PRICE 75B
   7        CHEN 70C                 ANGP,
                                     MASS,P
+K*(14201+ KS PI+
+ K*(14201- KS PI+
   1.5-2.0  VUILLEMIN 76
+K*(14201+ K- PIO
+ K*(14201- K+ PIO
   1.5-2.0  BRENZIKOFER 75B
            VUILLEMIN 76
+K*(142010 AKO PIO
+ AK*(142010 KO PIO
   1.5-2.0  VUILLEMIN 76
+P AN PI-
+ N AP PI+
   1.2-1.4  BACON 71
   1.6      LYNCH 63
   2.7      SEARS 69          CS I
   3.0      MCFADDEL 64       CS I
   3.3-3.7  FERBEL 65
   3.6      DEMME 64          CS I
   5.7      BOCKMANN 66       ANGP, I
                              CS I
   6.9      FERBEL 68
+P ANI1700810 PI-
+ AP NI1700810 PI+
   5.7      ATHERTON 74
+P ADEL-- PI+
+ AP DEL++ PI-
   5.7      BOCKMANN 66       ANGP, I
                              CS I
   6.9      FERBEL 68
+P ALAMBDA K-
+ AP LAMBDA K+
   3.0-4.0  MUSGRAVE 65       ANGP, I
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      ATHERTON 74       ANGP, I
                              CS+MASS I
            BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I

AP P --> (CONT.)
-----------------
+P ALAMBDA K*(892)-
+ AP LAMBDA K*(892)+
   5.7      ATHERTON 74
+P ASIGMAO K-
+ AP SIGMAO K+
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+P ASIGMA- AKO
+ AP SIGMA+ KO
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+P ASIG(1385P)3I0 K-
+ AP SIG(1385P)3I0 K+
   5.7      ATHERTON 74
   5.7      ATHERTON 74
+N ALAMBCA KO
+ AN LAMBCA KO
   3.0-4.0  MUSGRAVE 65       ANGP, I
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+ADEL- ALAMDDA K-
+ ADEL- LAMBDA K+
   5.7      ATHERTON 74       CS I
+DELO ALAMDDA AKO
+ ADELO LAMBDA KO
   5.7      ATHERTON 74
+LAMBCA KS ANYTHING
+ ALAMBDA KS ANYTHING
   12.      BERTRAND 77       ANGP,
                              CS,P
+LAMBDA ALAM(15200031 PIO
+ ALAMBDA LAM(15200031 PIO
   5.7      ATHERTON 74
+LAMBDA ASIGMA+ PI+
+ ALAMBDA SIGMA- PI+
   2.7      FISHER 67         ANGP,CS
   3.0-4.0  MUSGRAVE 65       ANGP,
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      ATHERTON 71       ANGP, I
                              CS I
            BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+LAMBDA ASIGMA- PI+
+ ALAMBDA SIGMA+ PI-
   2.7      FISHER 67         ANGP,CS
   3.0-4.0  MUSGRAVE 65       ANGP,
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      ATHERTON 71       ANGP, I
                              CS I
   7.0      CHIEN 66          ANGP,CS I
+LAMBDA 2PRONG
+ ALAMBDA 2PRONG
   32.      JABIOL 77         CS I
+LAMBCA 2PRONG
+ SIGMAO 2PRONG
   100      WARD 76           CS I
+SIGMA+ ASIGMAO PI-
+ SIGMAO ASIGMA- PI+
   2.7      FISHER 67         ANGP,CS I
   3.0-4.0  MUSGRAVE 65       ANGP,
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+SIGMAO ASIGMAO PI-
+ SIGMA- ASIGMAO PI+
   2.7      FISHER 67         ANGP,CS I
   3.0-4.0  MUSGRAVE 65       ANGP,
                              CS I
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+XIO AXI+ PI-
+ XI- AXIO PI+
   3.3-3.7  BALTAY 65B
+RHO+ PI+ PI-
+ RHO- 2PI+ PI-
   .70-1.1  BURNS 75E
   1.1-1.5  KALBFLEISCH 69
   1.2      GCNALC 69         CS I
   2.5      CLAYTEN 71
   3.3-3.7  FERBEL 66
   5.7      ALLESSDRELLI 67C
            BOECK 65          CS I
   6.9      FERBEL 68

AP P --> (CONT.)
-----------------
+DELTA(9731+ PI+ 2PI-
+ DELTA(9701- 2PI+ PI-
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
+A2(1310)+ PI+ 2PI-
+ A2(1310)- 2PI+ PI-
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   2.3      OREN 73
+K+ KS PIO PI-
+ K+ KS K- PI+ PIO
   1.2      DANDLAU 68        CS I
   1.2-1.3  HANDLER 75B
   1.5-2.0  BRENZIKOFER 75B
   2.5      BADIER 73
   2.7      SCHREDDER 65      CS I
   3.7      BALTAY 66
   5.7      ATHERTON 70       CS I
+K+ KS PI+ PIOS
+ KS K- PI+ PIOS
   1.2      DANDLAU 68        CS I
   2.5      BARLOW 70
   5.7      ATHERTON 70       CS I
+K+ KS RHO2 PI-
+ KS K- RHO2 PI+
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
+K+ KS OMEGA PI-
+ KS K- OMEGA PI+
   1.2      DANDLAU 68        CS I
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   2.7      SCHREDDER 65      CS I
+K+ AKO PIO PI-
+ K+ K- PIO PI+
   1.5-2.0  VUILLEMIN 76
+2KS RHO+ PI-
+ 2KS RHO- PI+
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
+K*(892)+ KS PIO PI-
+ K*(892)- KS PI+ PIO
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   5.7      ATHERTON 73       CS I
+K*(892)+ K- PI+ PI-
+ K*(8921- K+ PI+ PI-
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   5.7      ATHERTON 70       CS I
+K*(89210 K+ PI- PI-
+ K*(89210 K- PI+ PI+
   1.5-2.0  VUILLEMIN 76
+K*(89210 KS PI+ PI-
+ AK*(89210 KS PI- PI+
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
+P ADEL-- PI+ PIO
+ AP DEL++ PI- PIO
   5.7      ALLESSORELLI 66
            BOCKMANN 66       ANGP, I
                              CS I
   6.9      FERBEL 68
+P ALAMBDA ANI- PI-
+ AP LAMBDA NI+ PI+
   5.7      ATHERTON 74       ANGP, I
                              CS,MASS I
            BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+P ALAMBDA K- PIO
+ AP LAMBDA K+ PIO
   5.7      ATHERTON 74       ANGP, I
                              CS,MASS I
            BOECK 65          CS I
+P ASIGMAO AKO PI-
+ AP SIGMAO KO PI+
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+P ASIGMA- AKO PIO
+ AP SIGMA+ KO PIO
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
   7.0      CHIEN 66          ANGP,CS I
+N ALAMBDA K- PI+
+ AN LAMBDA K+ PI-
   3.3-3.7  BALTAY 65B
   5.7      BOECK 65          CS I
+N ASIGMA- AKO PI+
+ AN SIGMA+ KO PI-
   3.0-4.0  MUSGRAVE 65       ANGP, I
                              CS I

AP P --> (CONT.)
-----------------
+LAMBDA ASIGMAO PI+ PI-
+ ALAMBDA SIGMAO PI+ PI-
(CONT.)
   3.3-3.7  BALTAY 65B
   7.0      CHIEN 66          ANGP,CS
+LAMBDA ASIGMA- PI+ PIO
+ ALAMBDA SIGMA+ PIO PI-
   3.0-4.0  MUSGRAVE 65       ANGP,
                              CS I
   5.7      BOECK 65          CS
+SIGMA+ ASIGMA- PI+ PI-
+ SIGMA- ASIGMA+ PI+ PI-
   7.0      CHIEN 66          ANGP,CS
+DELTA(9701+ PI+ PIC 2PI-
+ DELTA(1570)- 2PI+ PI-
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
+K+ KS PI+ 2PI-
+ KS K- 2PI+ PI-
   .70      AGUILARBENIT 72B
   .76      AGUILARBENITZ 72B
   1.2      CANDLAU 68        CS
   1.2-1.3  HANDLER 75B
   1.5      VUILLEMIN 75
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   2.0      VUILLEMIN 75
   2.5      BADIER 70
   2.7      SCHREDDER 65      CS
   3.7      BALTAY 66
   5.7      ATHERTON 70       CS
+K*(8921+ KS PI+ PI-
+ K*(8921- KS 2PI+ PI-
   5.7      ATHERTON 70       CS
+P AN PI+ 2PI-
+ N AP 2PI+ PI-
   2.5      MASON 71
   3.3-3.7  FERBEL 65
   3.6      DEMME 64          CS
   5.7      ALLESSORELLI 67B
                              CS
            BOCKMANN 66       ANGP,
                              CS
   6.9      FERBEL 68
+P ADEL-- 2PI+ PI-
+ AP DEL++ PI+ 2PI-
   6.9      FERBEL 68
+P ALAMBDA K- PI+ PI-
+ AP LAMBDA K+ PI- PI+
   7.0      CHIEN 66          ANGP,CS
+N ALAMBDA AKO PI+ PI-
+ AN LAMBDA KO PI- PI+
   7.0      CHIEN 66          ANGP,CS
+LAMBDA ASIGMA+ PI+ 2PI-
+ ALAMBDA SIGMA- 2PI+ PI-
   7.0      CHIEN 66          ANGP,CS
+LAMBDA ASIGMA- 2PI+ PI-
+ ALAMBDA SIGMA+ PI+ 2PI-
   7.0      CHIEN 66          ANGP,CS
+LAMBCA APRONG
+ ALAMBCA APRONG
   32.      JABIOL 77         CS
+LAMBCA 4PRONG
+ SIGMAO 4PRONG
   100      WARD 76           CS
+RHO+ 2PI+ 3PI-
+ RHO- 3PI+ 2PI-
   3.0      DANYSZ 67B        CS
   3.3-3.7  FERBEL 66
   3.6      ATHERTON 73B      CS
   6.9      FERBEL 68
+K+ KS PI+ PI- 2PI-
+ KS K- 2PI+ PIO PI-
   1.2      DANDLAU 68        CS
   1.5      VUILLEMIN 75
   1.5-2.0  VUILLEMIN 75B
            VUILLEMIN 76
   2.0      VUILLEMIN 75
   2.5      BADIER 70
   2.7      SCHREDDER 65      CS
   3.6      FRENCH 75B        CS,
                              MASS
   3.7      BALTAY 66
   5.7      ATHERTON 73       CS
+K+ KS PI+ 2PI- PIOS
+ KS K- 2PI+ PI- PICS
   2.5      BADIER 70
   5.7      ATHERTON 70       CS
+K*(8921+ KS PI+ PIO 2PI-
+ K*(8921- KS 2PI+ PIO PI-
   5.7      ATHERTON 70       CS
+P AN 2PI+ 3PI-
+ N AP 3PI+ 2PI-
   6.9      FERBEL 68
```

REACTION/MOMENTUM INDEX (CONT'D)

ΔP P —> (CONT.)
+LAMBDA 8PRONG
+ ALAMBDA 8PRONG
32. JABICL 77 CS
+LAMBDA 8PRENG
+ SIGMA0 8PRENG
100 WARD 76 CS
+K* KS 2PI+ 3PI- ANYTHING
+ KS K- 3PI+ 2PI- ANYTHING
12. APOSTOLAKIS 76
MASS
+LAMBDA 8PRONG
+ ALAMBDA 8PRONG
32. JABICL 77 CS
+LAMBDA 8PRONG
+ SIGMA0 8PRONG
100 WARD 76 CS
+LAMBDA 10PRONG
+ ALAMBDA 10PRONG
32. JABICL 77
+LAMBDA 10PRONG
+ SIGMA0 10PRONG
100 WARC 76
+LAMBDA 12PRONG
+ ALAMBDA 12PRONG
32. JABICL 77
+LAMBDA 12PRONG
+ SIGMA0 12PRONG
100 WARC 76
+LAMBDA 14PRONG
+ ALAMBDA 14PRONG
32. JABICL 77
+LAMBDA 14PRONG
+ SIGMA0 14PRONG
100 WARC 76
+LAMBDA 16PRONG
+ ALAMBDA 16PRONG
32. JABICL 77
+LAMBDA 16PRONG
+ SIGMA0 16PRONG
100 WARC 76
-- 2PI+ PI0 2PI-
+ 2PI+ 2PI- MM.GE.1
5.7 BOHM 75 CS+MASS,
PWA
-- ΔP P
+ 2PRONG
4.6 EVERETT 74 CS
22. ABESALASHVIL 74
32. FRANCESOVIET 74C
CS
100 ANSORGE 75B ANGP,
CS
-- ΔP P
+ 4PRONG
4.6 EVERETT 74 CS
-- ΔP P
+ 6PRONG
4.6 EVERETT 74 CS
+2K0 RHO0 PI0
+ 2K0 RHO0 PI0 + 2K0 RHO+
PI-
1.2 DANCLAU 68 CS
+SIGMA+ ASIGMA- 2PI-
+ SIGMA+ ASIGMA- PI+ PI- +
SIGMA- ASIGMA- 2PI+
5.7 ROSEN 65 CS
+AK+(1892)0 K0
+ K+(8521)- K+ + AK0
+ K+(8521)- K+ K+(8521)+
1.5-2.0 VUILLEMIN 76
+LAMBDA ASIGMA+ PI0 PI-
+ LAMBDA ASIGMA- PI+ PI0 +
ALAMBDA SIGMA+ PI0 PI- +
ALAMBDA SIGMA- PI+ PI0
3.3-3.7 EALTAY 65B
+AK+(1892)+ AK0 PI+ 2PI-
+ K+(1892)+ K- PI+ PIC PI- +
K+(1892)- K+ PI+ PI0 PI- +
K+(1892)- K0 2PI+ PI-
1.5-2.0 VUILLEMIN 75B
VUILLEMIN 76
+K+(1892)0 AK0 PI+ PI0 PI-
+ K+(1892)0 K- 2PI+ PI- +
AK+(1892)0 K+ PI+ 2PI- +
AK+(1892)0 K0 PI+ PI0 PI-
1.5-2.0 VUILLEMIN 75B
VUILLEMIN 76
-- PI+ PI0 UNSPEC-
+ PI+ UNSPEC- MM.GE.1 - PI0
PI- UNSPEC+ + PI- UNSPEC+
MM.GE.1
5.7 BOHM 75

ΔP N —>
+(NOT ENCODED)
0. BERTANZA 67
BETTINI 69
BETTINI 69B
BIZZARRI 70
GRAY 69
HAGERTY 69
LAMSC 68
MILLER 75D
PARADOPOULOU 72
0.-1.0 CENDO 75
.35-.58 BIZZARRI 71C
1.0-1.6 BETTINI 71B
3.0 BROU 70
3.5 HSIEH 71
IJAZ 72B
SCHNEIDER 72
SIMONENGELL 73
25. ANISOVICH 74F
60. ANISOVICH 74F
? CARD 75
KALOGEROPOULOS 74
CS, I
MANY I
+ANN(1935)-
? WADE 76B
+PRONG
.+30-.+60 BIZZARRI 73 CS
1.0-1.6 HUESMAN 74
1.+-2.+ MA 75B
100 FNAL-345 MULT
+ΔPRONG
+.3G-.+60 BIZZARRI 73 MULT
5.5 BRAUN 76B
FRIDMAN 75 I
4.3 FRIDMAN 75 MULT
15. FRIDMAN 75 I
+ANYTHING
0. WADE 76
0.-.50 KALOGEROPOUL 75B I
3.0-3.3 SERGI 73B CS
3.5 REYNOLDS 70C I
5.5 BRAUN 74D I
4.6 DENISOV 71D I
1.0-.70 NAKAJIMA 75B CS
13. DENISOV 71D I
15. MICHAELCHANT 75 I
15.-.60. DENISOV 73B CS
23.-.50. ALLABY 69B CS
35. CARROLL 76E CS
50. CARROLL 74C CS
CARROLL 76E CS
70. CARROLL 76E CS
100 CARROLL 74C CS
CARROLL 76E CS
FNAL-345 CS
120 CARROLL 76E CS
150 CARROLL 74C CS
CARROLL 76E CS
170 CARROLL 76E CS
200 CARROLL 74C CS
CARROLL 76E CS
? ALLABY 69B CS
GALBRAITH 65 CS
WADE 76B I
+NON-RES < P AP PI- >
5.5 BRAUN 74B I
+EMMA HADRONS
150-300 FNAL-192 I
+GAMMA ANYTHING
0. KALOGEROPOUL 74D P
+E- HADRONS
150-300 FNAL-192 I
+E+ HADRONS
150-300 FNAL-192 I
+MU- HADRONS
150-300 FNAL-192 I
+MU+ HADRONS
150-300 FNAL-192 I
+PION(S) PRONG
1.5-2.5 MA 73B I
+PI+ ANYTHING
3.5 TERREAULT 73 I
+PI0 A2(1310)-
1.1 BERTANZA 74 CS
1.2 BERTANZA 74 CS
1.3 BERTANZA 74 CS
1.4 BERTANZA 74 CS
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+PI0 ANYTHING
100 FNAL-345 ANGP

ΔP N —> (CONT.)
+PI- PI0
1.0-1.6 BOREANI 76 I
+PI- RHO0
.35-.93 GOLD 76 ANG I
+PI- OMEGA
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+PI- PHI
0. BIZZARRI 74B ANG, I
CS I
+PI+ F
.35-.93 GOLD 76 ANG I
+PI- A2(1310)0
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+PI- ANYTHING
100 FNAL-345 ANGP I
+RHO0 A2(1310)-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+RHO- F
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+OMEGA A2(1310)-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+AP N
.+7-.+61 BIZZARRI 73C I
1.8 MA 72 ANGP,CS I
3.5 REYNOLDS 70C I
WEAVER 70 I
5.5 BRAUN 74D I
15. MICHAELCHANT 75 I
? BERRYHILL 68 I
+AP DD0
5.5 BRAUN 74B I
+AP DD < P PI- >
5.5 BRAUN 74B I
15. BRUCKER 74 I
+ΔDELO DEL-
? BACON 70 I
+ΔDEL-- P
2.8 BACON 67B ANGP,CS I
5.5 BRAUN 74B I
15. BRUCKER 74 I
? BACON 67 I
BRAUN 74B I
+ΔDEL-- DEL-
? BACON 70 I
+ΔDEL(1890?35)-- P
5.5 BRAUN 74B I
+LAMBDA ANYTHING
100 FNAL-345 ANGP I
+SIGMA- ANYTHING
100 FNAL-345 ANGP I
+E- E+ ANYTHING
150-300 FNAL-192 I
+MU- MU+ ANYTHING
100 FNAL-331 ANGP,P I
150-300 FNAL-192 I
+3PI0A
5.5 BRAUN 76B I
+PI-S PI+(S) ANYTHING
1.3-1.6 BOREANI 74 I
+2PI+ ANYTHING
3.5 TERREAULT 73 I
+PI+ 2PI-
.+-1.0 TOVEY 77 I
3.+-10. FRANZEN 73 AMP, I
MASS,P I
.35-.93 GOLD 76 ANG I
.+3-.+92 CARD 75B I

ΔP N —> (CONT.)
+PI+ 2PI- (CONT.)
1.0-1.6 ALSTENGARNJC 74 I
BETTINI 71 I
HUESMAN 74 I
HUESMAN 74B I
TERREAULT 73 I
+RHO+ 2PI-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 CS I
1.6 BERTANZA 74 I
+2RHO0 PI-
1.1 BERTANZA 74 CS I
ZEMANY 75B I
1.1-2.4 ZEMANY 75C I
1.2 BERTANZA 74 CS I
ZEMANY 75B I
1.3 BERTANZA 74 CS I
SMITH 74B I
ZEMANY 75B I
1.4 BERTANZA 74 CS I
ZEMANY 75B I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
ZEMANY 75B I
1.7 ZEMANY 75B I
2.0 ZEMANY 75B CS I
2.1 ZEMANY 75B I
2.3 ZEMANY 75B CS I
2.4 ZEMANY 75B I
2.6 ZEMANY 75B CS I
2.9 ZEMANY 75B CS I
+RHO- PI+ PI-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+F PI0 PI-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+A2(1310)+ 2PI-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+A2(1310)- PI+ PI-
1.1 BERTANZA 74 CS I
1.2 BERTANZA 74 CS I
1.3 BERTANZA 74 CS I
1.4 BERTANZA 74 CS I
1.5 BERTANZA 74 I
1.6 BERTANZA 74 I
+K+ K- PI-
0. BIZZARRI 74B MASS I
1.0-1.6 ALSTENGARNJC 74 I
HUESMAN 74 I
HUESMAN 74B I
+K0 AK0 PI-
0. BIZZARRI 74B MASS I
+P AP PI-
0.+-2.9 MINOMA 74 AMP,CS I
1.0-1.6 HUESMAN 74 I
4.7 BRAUN 76 I
5.5 BRAUN 74B I
BRAUN 76 I
7.0 ANTICH 72 I
9.3 BRAUN 76 P I
15. BRAUN 76 I
BRUCKER 74 I
130 FNAL-345 ANGP I
? BRAUN 70B I

REACTION/MOMENTUM INDEX (CONT'D)

AP N --> (CONT.)			AP N --> (CONT.)			AP N --> (CONT.)			AP DEUT --> (CONT.)		
+N AN PI-			+5PIC+			+7PRONG (CONT.)			+4NOT ENCODED (CONT.)		
.+99-1.6	BETTINI 73		5.5	ERAUN 76B		5.5	FRIDMAN 75		5.5	ERAUN 70B	
+3PRONG			+2PI+ 3PI-			5.3	FRIDMAN 75	S		BRAUN 72	
.30-.60	BIZZARRI 73	CS	.35-.93	GOLD 76	ANL	15.	FRIDMAN 75			EYRARD 65	
1.0-1.6	HUESMAN 74		.40-.92	CARO 75B		+8PION			7.0	CARREN 72	
1.5-2.9	MA 73B		1.0-1.6	ALSTONGARNJG 74		5.5	BRAUN 76B			GOODMAN 69	
3.5	TERREAULT 73			HUESMAN 74		+9PIOI5I 7PRONG			15.	FRIDMAN 74B	
5.5	FRIDMAN 75			HUESMAN 74B		1.5-2.9	MA 73B			KATHS 73	
9.3	FRIDMAN 75	CS	1.1	BERTANZA 74	CS	+9PI+ PI0 4PI-			20.	ALLARI 65	
15.	FRIDMAN 75			ZEMANY 75B		5.5	BRAUN 76		65.	ALLARI 65	
+4PION			1.2	BERTANZA 74	CS,		BRAUN 76B		7	MALGGERGPOUL 74	
5.5	ERAUN 76B				MASS	+8PRONG					CS,
+9PIOI5I 3PRONG				ZEMANY 75B		3.5	TERREAULT 73				MASS
1.5-2.9	MA 73B		1.3	BERTANZA 74	CS	+8PION			+0PRONG		
+9I+ PI0 2PI-				ZEMANY 75B		5.5	BRAUN 76B		0.	MALGGERGPOUL 74	
.35-.93	GOLD 76	ANG	1.4	BERTANZA 74	CS	+9PI+ 5PI-					CS,
.40-.92	CARO 75B			ZEMANY 75B		5.5	BRAUN 76B				P
1.0-1.6	ALSTONGARNJG 74		1.5	BERTANZA 74		+9PRONG					
	HUESMAN 74		1.5-2.9	MA 73B		5.5	FRIDMAN 75		.+350-.92	BURROWS 70	
	HUESMAN 74B		1.6	BERTANZA 74		9.3	FRIDMAN 75	CS	.+30-.60	BIZZARRI 73	CS
1.1	BERTANZA 74	CS		ZEMANY 75B		15.	FRIDMAN 75		+0PRONG		
1.2	BERTANZA 74	CS,	1.7	ZEMANY 75B		+13PION			0.	MALGGERGPOUL 74	
		MASS	1.8	ZEMANY 75B		5.5	BRAUN 76B				CS,
1.3	BERTANZA 74	CS	2.0	ZEMANY 75B	CS	+4PI+ PI0 5PI-					P
1.4	BERTANZA 74	CS	2.1	ZEMANY 75B		5.5	BRAUN 76		+ANYTHING		
1.5	BERTANZA 74		2.3	ZEMANY 75B	CS		BRAUN 76B		.+350-.92	BURROWS 70	
1.6	BERTANZA 74		2.4	ZEMANY 75B	CS	+11PION			.+30-.60	BIZZARRI 73	CS
5.5	MALKO 70		2.5	ZEMANY 75B	CS	5.5	BRAUN 76B		.+40-1.0	CARROLL 72E	
5.5	BRAUN 76		2.6	ZEMANY 75B	CS	+11PRONG			1.0-1.6	HUESMAN 74B	
	BRAUN 76B		3.5	TERREAULT 73		5.5	FRIDMAN 75		1.0-3.3	ABRAMS 67C	CS
+PI+ 2PI- MM.GE.2			5.5	ERAUN 76		9.3	FRIDMAN 75	CS	6.0-18.	CALEFATTI 65	
1.0-1.6	HUESMAN 74B			BRAUN 76B		15.	FRIDMAN 75		6.6	DENISOV 71D	
+PI+ 2PI- MM.GE.1			+3PRONG			+13PRONG				CERIN 71P	
1.0-1.6	HUESMAN 74B		1.1	BERTANZA 74	CS	5.5	FRIDMAN 75		15.	CHALLEMENT 75	
+PI+ 2PI- NEUTRALS			1.2	BERTANZA 74	CS	9.3	FRIDMAN 75	CS	15.-65.	DENISOV 73A	CS
1.0-1.6	HUESMAN 74		1.3	BERTANZA 74	CS	15.	FRIDMAN 75		15.-65.	GOPIN 73	
+8NOD PI+ 2PI-			1.4	BERTANZA 74	CS	+K+ AKO 2PI-			23.-52.	ALLABY 69B	CS
1.1	BERTANZA 74	CS	1.5	BERTANZA 74		+ K+ K- PIO PI- + KO K+ PI+			20.-65.	ALLABY 71B	CS
	ZEMANY 75B		1.6	BERTANZA 74		PI-			23.-500	FNAL-134	CS
1.2	BERTANZA 74	CS	+8HC- 2PI+ 2PI-			1.0-1.6	HUESMAN 74		23.-200	KOHLER 75	
	ZEMANY 75B		1.1	BERTANZA 74	CS	1.0-1.6	HUESMAN 74		35.	CARROLL 76E	CS
1.3	BERTANZA 74	CS	1.2	BERTANZA 74	CS	1.0-1.6	HUESMAN 74B		50.	CARROLL 76E	CS
	ZEMANY 75B		1.3	BERTANZA 74	CS	1.3-1.6	HUESMAN 74			CARROLL 76E	CS
1.4	BERTANZA 74	CS	1.4	BERTANZA 74	CS	**********			70.	CARROLL 76E	CS
	ZEMANY 75B		1.5	BERTANZA 74		AP NUCLEON -->			130	CARROLL 76E	CS
1.5	BERTANZA 74		1.6	BERTANZA 74		----------				CARROLL 76E	CS
1.6	BERTANZA 74		+K+ K- PI+ 2PI-			+E+ ANYTHING			120	CARROLL 76F	CS
	ZEMANY 75B		1.0-1.6	ALSTONGARNJG 74		1.6	MUIRHEAD 77		150	CARROLL 76C	CS
1.7	ZEMANY 75B			HUESMAN 74		+E+ ANYTHING				CARROLL 76E	CS
1.8	ZEMANY 75B			HUESMAN 74B		1.6	MUIRHEAD 77		170	CARROLL 76E	CS
2.0	ZEMANY 75B	CS	+P AP PI+ 2PI-			+ED CD < NUCLEON PION >			200	CARROLL 76E	CS
2.1	ZEMANY 75B	CS	100	FNAL-345	ANGP	5.7	STRACHMAN 76	AMP		CARROLL 76E	CS
2.3	ZEMANY 75B	CS	+5PRONG			+AP NUCLEON PION			7	GALBRAITH 69	
2.4	ZEMANY 75B		.20-.60	BIZZARRI 73	CS	5.7	STRACHMAN 76	AMP	+INELASTIC		
2.6	ZEMANY 75B	CS	1.0-1.6	HUESMAN 74		+ZHARM ANYTHING			.30-.60	BIZZARRI 73	CS
2.9	ZEMANY 75B	CS	1.5-2.9	MA 73B		12.	CESTER 76		+GAMMA ANYTHING		
+8NOD RHO- PI+ PI-			3.5	TERREAULT 73		15.	CESTER 76	CS	0.	MALGGERGPOUL 74B	
1.1	BERTANZA 74	CS	5.5	FRIDMAN 75		+K+ PI- ANYTHING					P
1.2	BERTANZA 74	CS	9.3	FRIDMAN 75	CS	+ K- PI+ ANYTHING				MICHAEL 75S	
1.3	BERTANZA 74	CS	15.	FRIDMAN 75		12.	CESTER 76			VAYAR 75	
1.4	BERTANZA 74	CS	+8PIEN			15.	CESTER 76	MASS	.75	WACHSTEIN 75	P
1.5	BERTANZA 74		5.5	BRAUN 76B		**********			+GAMMA15I MESONS		
1.6	BERTANZA 74		+9PI0I5I 5PRONG			AP DEUT -->			.75	MALGGERGPOUL 75	P
+EMEGA PI+ 2PI-			1.5-2.9	MA 73B		----------			+PI+ ANYTHING		
1.1	BERTANZA 74	CS	+2PI+ PI0 3PI-			+ENOT ENCODED)			0.	ROY 74B	
1.2	BERTANZA 74	CS	.35-.93	GOLD 76	ANG	0.	BERTANZA 67		+PI- ANYTHING		
1.3	BERTANZA 74	CS	.40-.92	CARO 75B			BETTINI 69E		0.	ROY 74B	
1.4	BERTANZA 74	CS	1.0-1.6	ALSTONGARNJG 74			BIZZARRI 73		+K- ANYTHING		
1.5	BERTANZA 74			HUESMAN 74			LAARSE 68		0.	ROY 74B	
1.6	BERTANZA 74			HUESMAN 74B			PAPADOPOULOU 73			ROY 75C	
+F PI+ 2PI-			1.1	BERTANZA 74	CS	0.-.45	TZANAKOS 75		+MESONS P		
1.1	BERTANZA 74	CS	1.2	BERTANZA 74	CS,	0.-1.0	AITCHISON 71		.30-.60	BIZZARRI 73	MULT,
1.2	BERTANZA 74	CS			MASS	0.-3.0	EMMERSON 74C				P
1.3	BERTANZA 74	CS	1.3	BERTANZA 74	CS	.30-.80	GRAY 71		+MESON15I PI5PECT)		
1.4	BERTANZA 74	CS	1.4	BERTANZA 74	CS	1.1-1.4	ZEMANY 75C		1.1-1.4	ZEMANY 75	
1.5	BERTANZA 74		1.5	BERTANZA 74		1.1-1.4	OH 72B		+PI5PECTI ANYTHING		
1.6	BERTANZA 74		1.6	BERTANZA 74		1.2-1.6	BERTRAND 68		15.	PREISSNER 75	
+A2131O1- PI+ PI0 PI-			5.5	BRAUN 76		1.2-1.7	CAMERINI 71		+ P NICHARGEC)		
1.1	BERTANZA 74	CS		BRAUN 76B			SENGAL 72		15.	MICHALOVMENT 75	
1.2	BERTANZA 74	CS	+2PI+ 3PI- MM.GE.2			1.3	CAMERINI 73		+P ANYTHING		
1.3	BERTANZA 74	CS	1.0-1.6	HUESMAN 74B		1.5-2.9	EASTMAN 73		.35-.92	MASCH 76B	
1.4	BERTANZA 74	CS	+2PI+ 3PI- MM.GE.1				MA 73C		+AP DEUT		
1.5	BERTANZA 74		1.0-1.6	HUESMAN 74B		1.5-2.0	OH 70C		0.	BNL-6643	AMP
1.6	BERTANZA 74		+2PI+ 3PI- NEUTRALS			1.5-2.2	FALCONER 69		0.-.72	ANL-8413	PN
+P 2PI- MM.GE.2			1.0-1.6	HUESMAN 74		1.6-2.0	EASTMAN 72		.73	CARO 73	
3.5	TERREAULT 73		+6PRONG			2.3	BACON 66		.64	CARO 73	
+P AP PI0 PI-			3.5	TERREAULT 73		2.2	MANWELLER 72		1.0-1.3	ABRAMS 67C	
5.5	ERAUN 76		+3PI+ 4PI-				REDEKER 73		1.2-1.7	MERRYHILL 65	
+P AP PI- MM.GE.2			5.5	BRAUN 76B		2.8	BACON 66		1.6-2.0	MA 71	
3.5	TERREAULT 73			BRAUN 76B			BACON 67B	ANGF,CS	5.5	BRAUN 73E	
+N AP PI+ PI-			+7PRONG			3.5	LANE 73			BRAUN 73C	
5.5	ERAUN 76		1.0-1.6	HUESMAN 74			LANE 72		25.-200	FNAL-39C	ANGP
+4PRONG			1.5-2.9	MA 73B			REYNOLDS 70		+ADEL-- DEUT*(2170)		
3.5	TERREAULT 73		3.5	TERREAULT 73			REYNOLDS 70		7.0	ANTICH 71C	CS
							SCHNEIDER 72				

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AP DEUT --> (CONT.)
+LAMBDA ANYTHING
0. ROY 74B
ROY 75C
.3-.70 ANL-E-413 FV
1.5-2.9 OH 72
+DEUT ANYTHING
25.-220 FNAL-39E ANGP,P
+2PRONG
0. KALOGEROPOUL 74C
CS,
.050-.92 BURROWS 70
+GAMMA 2PRONG
0. KALOGEROPOUL 74D
P
+PI+ PIO ANYTHING
3. ROY 74B
+P(SPECT) PIO PI-
0. GRAY 73 CS,MASS,P
ROY 74B
+P(SPECT) P ACCEL--
4.7 JUILLOT 76
9.2 JUILLOT 76 CS
+P(SPECT) N AP
0.-.70 ANL-E-413 FV
+N(SPECT) PI+ PI-
0. GRAY 73 CS,MASS,P
ROY 74B
.3-.40 KABINSKY 72
-N(SPECT) P AP
.3-.70 ANL-E-413 FV,PCL
+N(SPECT) N AN
.3-.70 ANL-E-413 FV
+P N AP
.50 BNL-701
5.5 BRAUN 76B
+N PI+ PI-
0. SUN 76 ANG
.3-.40 KABINSKY 74 ANG,
ANGP,MASS
+N 2KS
0. BIZZARRI 74 CS,P
N KS KL
0. BIZZARRI 74 CS
+LAMBDA K+ PI-
0. BIZZARRI 74 P
+DEUT PI+ ANYTHING
5.5 BRAUN 72B
+DEUT AN PI-
5.5 BRAUN 73D
BRAUN 76
+DEUT AP CHEGS
7.0 ANTICH 71C CS
+DEUT ADEL-- PI+
7.0 ANTICH 71C CS
15. BRICK 74
-DEUT ALAMBDA K-
7.0 ANTICH 71C CS
+DEUT+(2170)++ AP PI-
5.5 BRAUN 71B
7.0 ANTICH 71C CS
15. BRICK 74
+2PRONG
0. KALOGEROPOUL 74C
CS,
P
+PI+ 2PI- ANYTHING
0. ROY 74B
+P(SPECT) PI+ 2PI-
1.0-1.6 HUESMAN 74B
2.0-4.3 BNL-625
+P(SPECT) P 3P PI-
4.7 JUILLET 76
5.5 BRAUN 74
BRAUN 75C
MICHALCN. 72
9.2 JUILLOT 76 CS,
MASS
15. MICHALCAMEN. 75
+P N AP GAMMA
7 BNL-66D
-P N ALAMBDA K-
7.0 ANTICH 71C CS
+DEUT AP PI+ PI-
5.5 BRAUN 70C
BRAUN 73C
BRAUN 76
7.0 ANTICH 71C CS
15. BRICK 74
MICHALCNMENT 75
+DEUT ADEL-- PI+ PIO
7.0 ANTICH 71C CS
+DEUT ALAMBDA K- PIO
7.0 ANTICH 71C CS

AP DEUT --> (CONT.)
+4PRONG
0. KALOGEROPOUL 74C
CS,
P
.050-.92 BURROWS 70
1.1-1.4 ZEMANY 75
5.5 FRIDMAN 75
9.3 FRIDMAN 75 ANGP,P
15. FRIDMAN 75
+GAMMA 4PRONG
0. KALOGEROPOUL 74D
P
+PI+ PIO 2PI- ANYTHING
0. ROY 74B
+P(SPECT) P AN 2PI-
5.5 BRAUN 74
BRAUN 75D
7 BACON 70
MICHALCN 72
7 BACON 70
+P(SPECT) N AP PI+ PI-
5.5 BRAUN 75D
7 BACON 70
+P N AP PI+ PI-
7.0 ANTICH 71C CS
+DEUT AN PI+ 2PI-
5.5 BRAUN 73D
BRAUN 76
-DEUT AP PI+ PIO PI-
5.5 BRAUN 73D
BRAUN 76
7.0 ANTICH 71C CS
+5PRONG
0. KALOGEROPOUL 74C
CS,
P
+P(SPECT) 2PI+ 3PI-
1.0-1.6 HUESMAN 74B
1.1-2.5 ZEMANY 75B
+6PRONG
0. KALOGEROPOUL 74C
CS,
P
.050-.92 -URROWS 70
1.1-1.4 ZEMANY 75
+7PRONG
0. KALOGEROPOUL 74C
CS,
P
+AP DEUT
+ P N AP
.30-.60 BIZZARRI 73 ANCP
+8PRONG
+ 4PPCNG + 4PRONG
.30-.60 BIZZARRI 73 CS
AP ADEUT -->
+ADEUT P PI+ PI-
4.7 BRAUN 75
9.3 BRAUN 76 P
15. BRAUN 76
AP AE -->
+(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
1.6-2.2 FALCONER 69
+ANYTHING
20.-65. ALLABY 71B CS
-GAMMA ANYTHING
0. ECKHAUSE 75 CS
AP AE
0. BNL-643 AMP
AP LI -->
20.-65. ALLABY 71B CS
+GAMMA ANYTHING
0. ECKHAUSE 75 CS
AP BE -->
+MU- MU+ ANYTHING
43. ANTIPOV 76 MASS

AP C -->
+(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
1.6-2.2 FALCONER 69
3.0 BROU 70
+ANYTHING
0. WADE 76
WILLARD 76 CS,
MULT
.3-.80 WILLARD 76
2.-3.5 BESCH 77
1.0-2.2 ABRAMS 71B
20.-65. ALLABY 71B CS
AP C
2.0 GGBB1 72
AP CL -->
AP O -->
+(NOT ENCODED)
0. MILLER 75D
3.0 BROU 70
AP NE -->
+(NOT ENCODED)
1.0-3.0 ANL-E-406 MULT
+NEPRONG1
0.-.90 ANL-E-439 CS,MULT
+ANYTHING
0.-.90 ANL-E-439 CS
+E+ ANYTHING
0.-.90 ANL-E-409 ANGP,CS
+MU+ ANYTHING
0.-.90 ANL-E-409 ANGP,CS
+PI+ ANYTHING
0.-.90 ANL-E-439 ANGP,CS
+PI- ANYTHING
0.-.90 ANL-E-439 ANGP,CS
AP AL -->
+(NOT ENCODED)
1.6-2.2 FALCONER 69
+ANYTHING
20.-65. ALLABY 71B CS
AP FE -->
+(NOT ENCODED)
1.6-2.2 FALCONER 69
+ANYTHING
20.-65. ALLABY 71B CS
AP CU -->
+(NOT ENCODED)
1.6-2.2 FALCONER 69
+ANYTHING
1.0-3.3 ABRAMS 71B
20.-65. ALLABY 71B CS
-J/PSI(3100)0 ANYTHING
39. CORDEN 77
+MU- MU+ ANYTHING
39. CORDEN 77
AP BR -->
+(NOT ENCODED)
3.0 BROU 72
AP AG -->
+(NOT ENCODED)
3.0 BROU 70
AP CD -->
+(NOT ENCODED)
1.6-2.2 FALCONER 69
AP SN -->
+ANYTHING
20.-65. ALLABY 71B CS
AP WT -->
+(NOT ENCODED)
1.6-2.2 FALCONER 69
AP PB -->
+(NOT ENCODED)
3. ROBERTS 74B
ROBERTS 75C

AP PB --> (CONT.)
+(NOT ENCODED) (CONT.)
1.6-2.2 FALCONER 69
+ANYTHING
20.-65. ALLABY 71B CS
AP U -->
+(NOT ENCODED)
0. ROBERTS 74B
ROBERTS 75C
1.0-3.0 ANL-E-406 MULT
1.6-2.2 FALCONER 69
+ANYTHING
20.-65. ALLABY 71B CS
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0.-3.0 BROU 73
3.0 BROU 70
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5.0 HEBERT 69
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RAGHAVAN 69
RAGHAVAN 70
TODOREVIC 69B
7 CERN-HA-001 FV
+INELASTIC
6.0-60. CERNISOV 73
+MU- ANYTHING
7 BNL-694 P
FNAL-379
+MU+ ANYTHING
7 BNL-694 P
FNAL-379
+PION(S) ANYTHING
5.0 BADWMIK 74 CS,
MULT,P,PT
+PI+ ANYTHING
10.-12. BNL-661 P
+PI- ANYTHING
10.-12. BNL-661 P
+J/PSI(3100)0 ANYTHING
7 BNL-694 P
+K+ ANYTHING
10.-12. BNL-661 P
+K- ANYTHING
10.-12. BNL-661 P
+AP NUCLEUS
3.0 KAHN 70
+ANYTHING HADRONS
7 FNAL-379
+GAMMA ANYTHING
7 BNL-654 MASS
+MU- MU+ ANYTHING
7 FNAL-379
+K+ PI- ANYTHING
10.-12. BNL-661 MASS
7 BNL-654 MASS
+K- PI+ ANYTHING
10.-12. BNL-661 MASS
7 BNL-654 MASS
+NUCLEUS ALAMBDA K-
150 FNAL-272 FV
300 FNAL-272 FV
-NUCLEUS AP PI+ PI-
150 FNAL-272 FV
300 FNAL-272 FV
AP UNSPEC -->
+(NOT ENCODED)
7 LACH 76
NUCLEON NUCLEON -->
+(NOT ENCODED)
.21 MILLER 68B
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2.0 CHARLESWORTH 72
60. BABECKI 71
1000 BABECKI 71
? BOZORI 69C
+2NUCLEON PION
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NUCLEON FE -->
*(NOT ENCODED)
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>1500 MASSALSKI 71
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*(NOT ENCODED)
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YOCH 70
*ANYTHING
>1000 NAM 74
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7 LICHARD 74C CS
PIN(I=3/2) -->
*(NOT ENCODED)
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0.-.43 BRUNET 76
300-600 KELLY 75 PWA
*PIN(I=3/2)
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1.0-17. ANDERSON 75C ANGP,
CS,POL
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75.-150 FNAL-C97 ANGP
7 ALEXANDER 61
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.30-1.5 KADYK 69
.50-4.0 CHARLTON 7D
.50-10. HAUPTMAN 74
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*P SIGMA+ PI-
.50-10. HAUPTMAN 74
1.0-10. HAUPTMAN 77 CS
*P SIGMA- PI+
.50-10. HAUPTMAN 74
1.0-10. HAUPTMAN 77 CS
*P SIG(1385P13)+ PI-
.50-10. HAUPTMAN 74
1.0-10. HAUPTMAN 77 ANGP,
CS,MASS
*P SIG(1385P13)- PI+
.50-10. HAUPTMAN 74
1.0-10. HAUPTMAN 77 ANGP,
CS,MASS
*NUCLEON LAMBDA PION
7 ALEXANDER 61
*DEL++ LAMBDA PI-
1.0-10. HAUPTMAN 77 CS
*CELO LAMBDA PI+
1.0-10. HAUPTMAN 77 CS
*P LAMBDA PI+ PI-
.50-4.0 CHARLTON 7D
.50-10. HAUPTMAN 74
1.0-10. HAUPTMAN 77
1.0-24. BLAISING 75
7 BASSANO 67
*P SIGMA+ PI-
* P SIGMA- PI+
7 BASSANO 67
LAMBDA N -->
*(NOT ENCODED)
0. GIBSON 73C CS
7 BOHM 70C
*ANYTHING
6.0-21. GJESDAL 72 CS
LAMBDA NUCLEON -->
*(NOT ENCODED)
7 RAC 69
*HDIBARYON ANYTHING
7 SHAHBAZIAN 74
*NUCLEON LAMBDA GAMMA
7.0-20. DYDAK 76 ANG,MASS,
P
LAMBDA OEUT -->
*(NOT ENCODED)
7 KADYK 70
LAMBDA O -->
*(NOT ENCODED)
7 BOHM 70C
LAMBDA PL -->
*(NOT ENCODED)
7 BOHM 70C
DEMIDOV 69C
LAMBDA R -->
*(NOT ENCODED)
7 BOHM 70C
DEMIDOV 69C
LAMBDA AG -->
*(NOT ENCODED)
7 BOHM 70C
LAMBDA NUCLEUS -->
*(NOT ENCODED)
7 CSEJTHEYBART 69B
ALAMBDA P -->
*ANYTHING
4.0-14. EISELE 76 CS
6.0-21. GJESDAL 72 CS
60.-130 FNAL-C08 CS
ALAMBDA P --> (CONT.)
*ALAMBDA P
60.-130 FNAL-008 ANGP
ALAMBDA N -->
*ANYTHING
6.0-21. GJESDAL 72 CS
AKN(I=0) -->
*PI+ SIGMA-
+ PIO SIGMAO + PI- SIGMA+
0.-2.2 BURKHARDT 75B
SIGMA+ P -->
*(NOT ENCODED)
.13-.16 EISELE 71
*ANYTHING
7 DOSCH 66
RUBIN 67
*SIGMA+ P
7 DOSCH 66
RUBIN 67
STANNARD 61
SIGMA- P -->
*(NOT ENCODED)
0. BUGG 70
BUGG 72
0.-.65 STEPHEN 73
.13-.16 EISELE 71
19. BADIER 72B
7 NEMETHY 75
RUBIN 71
*LAMBDA N
0.-.65 STEPHEN 73B
ENGELMANN 66
7 YAMAMOTO 69
*SIGMAO N
0.-.65 STEPHEN 70B
ENGELMANN 66
7 YAMAMOTO 69
*SIGMA- P
23. MAJKA 74
MAJKA 76 ANGP,CS
75.-150 FNAL-C97 ANGP
7 BLAISING 75
DOSCH 66
RUBIN 67
STANNARD 61
*SIG(1385P13)- ANYTHING
23. ARIK 77 CS
*LAMBDA PI- ANYTHING
23. ARIK 77 ANGP,CS
*LAMBDA N
* SIGMAO N
7 YAMAMOTO 69
SIGMA- N -->
*(NOT ENCODED)
19. BADIER 72B
SIGMA- NUCLEON -->
*(NOT ENCODED)
25. HUNGERBUEHLE 73
*LAMBDA ANYTHING
23. ARIK 76C MASS
SIGMA- OEUT -->
*(NOT ENCODED)
19. BADIER 72B
SIGMA- RE -->
*(NOT ENCODED)
0. BUGG 69
BUGG 72
GARRETT 73
**NUCLEUS
0. BUGG 73
SIGMA- AL -->
*SIG(1385P13)- ANYTHING
23. ARIK 77 CS
*LAMBDA PI- ANYTHING
23. ARIK 77 CS
SIGMA- CU -->
*SIG(1385P13)- ANYTHING
23. ARIK 77 CS
*LAMBDA PI- ANYTHING
23. ARIK 77 CS
SIGMA- W -->
*SIG(1385P13)- ANYTHING
23. ARIK 77 CS
*LAMBDA PI- ANYTHING
23. ARIK 77 CS
SIGMA- PT -->
*(NOT ENCODED)
0. ROBERTS 75C
SIGMA- PB -->
*(NOT ENCODED)
0. ROBERTS 75C
*SIGMA- PB
0. ENL-711
*SIG(1385P13)- ANYTHING
23. ARIK 77 CS
*LAMBDA PI- ANYTHING
23. ARIK 77 CS
SIGMA- NUCLEUS -->
*(NOT ENCODED)
0. BOHM 70C
25. WANG 73
7 CSEJTHEYBART 69
*OMEGA- ANYTHING
25. HUNGERBUEHLE 74
*LAMBDA PI- ANYTHING
23. ARIK 77 MASS
ANN(I=1) -->
*PI+ LAMBDA
1.5-2.1 BAILLON 75
*PI+ SIGMA-
+ PIO SIGMAO + PI- SIGMA+
0.-2.2 BURKHARDT 75B
SIG(UNSPEC) NUCLEON -->
*SIG(UNSPEC) NUCLEON
.15 RYANG 76 CS
XIO P -->
*(NOT ENCODED)
.50-2.8 MULLER 72
*SIGMA+ LAMBDA
1.0-10. HAUPTMAN 77 CS
*P XI- PI+
1.4-10. HAUPTMAN 77 CS
*ZLAMBDA PI+
1.0-10. HAUPTMAN 77 CS
*LAMBDA SIGMA+ PI0(S)
1.0-10. HAUPTMAN 77 CS
*SIGMA+ SIGMA- PI+
1.0-10. HAUPTMAN 77 CS
*P XI- PI+ PI0(S)
1.0-10. HAUPTMAN 77 CS
*ZLAMBDA PI+ PI0(S)
1.0-10. HAUPTMAN 77 CS
*LAMBDA SIGMA+ PI+ PI-
1.0-10. HAUPTMAN 77 CS
*LAMBDA SIGMA- 2PI+
1.0-10. HAUPTMAN 77 CS
*ZLAMBDA 2PI+ PI-
1.0-10. HAUPTMAN 77 CS
XI- P -->
*(NOT ENCODED)
7 NEMETHY 75
*XI- P
3.2 CALMEIJER 72
3.3 CALMEIJER 70
23. MAJKA 76 ANGP,CS
75.-150 FNAL-097 ANGP
XI- NUCLEON -->
*(NOT ENCODED)
25. HUNGERBUEHLE 73

REACTION/MOMENTUM INDEX (CONT'D)


```
**********
XI- NUCLEUS -->
----------
-OMEGA- ANYTHING
  25.-     HUNGERBUEHLE 74
**********
OMEGA- P -->
----------
-OMEGA- P
  75.-150  FNAL-097          ANGP
**********
KNU(I=0) -->
----------
-(NOT ENCODED)
    0.-1.5  GIACOMELLI 7E
            SESSA 72
    0.-3.0  KELLY 75          PWA
   .41-1.1  CARROLL 73E
   .60-1.5  WILSON 72
-PISIGI(I=0)
    0.-2.5  G.PAL 76
+KNI(I=1)
    0.-1.5  MARTIN 75
    0.-2.5  GOPAL 76
-LAMBDA 2PION
   .50-1.6  PREVOST 74
**********
KNI(I=1) -->
----------
-(NOT ENCODED)
    0.-1.5  GIACOMELLI 7E
    0.-3.0  KELLY 75          PWA
+KNI(I=1)
    0.-1.5  MARTIN 75
    0.-2.5  GOPAL 76
-PISIGI(I=1)
    0.-2.5  GOPAL 76
   .68-.84  HEPP 76B         CS,PWA
-PILAM(I=1)
    0.-2.5  GOPAL 76
-LAMBDA 2PICN
   .50-1.6  PREVOST 74
**********
DEUT P -->
----------
-(NOT ENCODED)
   .020-.030
            BELT 70
   .030     BURG 71
            CHEMARIN 72
            FIORE 73
   .19      BOYD 68B
   .25      BOYD 68B
   .32      BURG 71B
   2.3      GLAGOLEV 73B
  2.8-3.8   BANAIGS 73C
  3.2-3.8   BANAIGS 64
            BANAIGS 73
   3.3      ALADASHVILI 77
            GLAGOLEV 72
   3.6      BLNCE 71
   29.-     CHEMARIN 72B
     7      BANAIGS 73C
            DUBNAWARS4BC 74
+PIO HE3
   3.5      LEBRUN 74
+ETA HE3
   3.5      LEBRUN 74
+P DEUT
   .310     BERCVIC 71
   .42      RAD 74
            BAC 74B
  1.1       NASSER 74
  1.2       NASSER 74
  1.3       NASSER 74
  1.7       DUTTON 69
  3.4       DUBAL 74B
  3.6       BLNCE 72
  3.8       BANAIGS 67B
  4.5       DUBAL 74B
  5.7       DUBAL 74B
  6.6       DUBAL 74B       ANGP,CS
  1440      ARMITAGE 76
     ?      CHAUVIN 75
+DELT ANYTHING
  1440      ARMITAGE 76
-HE3 NEUTRAL(S)
  2.8-3.8   BANAIGS 72
            BANAIGS 73      ANGP,
                            MASS,P
+HE3 ANYTHING
  3.5       LEBRUN 74
+T ANYTHING
  3.4       BANAIGS 73
  3.5       BANAIGS 73
-PISPECT) P N
  3.3       ALADASHVILI 75C

DEUT P -->  (CONT.)
----------
-P PI+ NEUTRALS
  3.3       ALADASHVILI 74B
+P PI+ ANYTHING
  3.3       ALADASHVILI 75E
                                CS,
                                MASS
-2P N
  .050      BRUECKMANN 70C
            WICK 70
  3.3       ALADASHVILI 73
            ALADASHVILI 74C
                                ANG,
                                P
            ALADASHVILI 74C
                                ANGP
            ALADASHVILI 75D
            ALADASHVILI 75E
                                CS
            GLAGOLEV 73
+2P NEUTRALS
  3.3       ALADASHVILI 74B
+2P ANYTHING
  3.3       ALADASHVILI 75E
                                CS,
                                MASS
+P DEL++ DEL-
  3.3       ALADASHVILI 74B
-DEUT N PI+
  3.3       ALADASHVILI 75
                                ANGP,
                                MASS,P
+(PISPECT) 2P PI-
   25.      COOPER 74C        ANGP,P
+3P PI-
  3.3       ALADASHVILI 74B
+3P ANYTHING
  2.8-3.8   BANAIGS 72
+F 2N PI+
  3.3       ALADASHVILI 74B
+DEUT P PI+ PI-
  3.3       ALADASHVILI 75   CS,
                             MASS,P
   12.      BRAUN 75C
   25.      COOPER 75D
+3P PIO PI-
  3.3       ALADASHVILI 74B
**********
DEUT NUCLEON -->
----------
+(NOT ENCODED)
   9.4      AZIMOV 73O        CS,
                              MULT
+NUCLEON DEUT
  2.4       KARABA 72
**********
DEUT DEUT -->
----------
+(NOT ENCODED)
  .32       BURG 71E
  .68-2.1   GOSHAW 69
  2.2       ODDONE 70
  3.8       BANAIGS 70B
  7.5       GOSHAW 70
+PIO HE
  1.5       BANAIGS 74
  1.5-3.8   BANAIGS 74B
+OMEGA HE
  1.5-3.8   BANAIGS 74B
+F 7
  .41-.55   HREHUSS 74
+F ANYTHING
  .715      ARMITAGE 76
+2DEUT
  .305      PLATTNER 69
  .915      PLATTNER 69
  1.7       DUTTON 74
  2.2       GOSHAW 70B
  7.9       GOSHAW 70B
     ?      JARMIE 72
+DEUT ANYTHING
  .715      ARMITAGE 76
+HE PHI,GE.2
  1.5-3.8   BANAIGS 74B
-HE NEUTRAL(S)
  2.5       BANAIGS 73B
  3.8       BANAIGS 66
+HE ANYTHING
  1.5-3.8   BANAIGS 75
  2.5       LEBRUN 74
  3.8       BANAIGS 75       MASS
+DEUT P N
  .15-.24   HREHUSS 74

**********
DEUT T -->
----------
+N HE
  .11-.24   LISOWSKI 76
**********
DEUT HE -->
----------
-(NOT ENCODED)
  .030      CHEMARIN 72
**********
DEUT LI -->
----------
+(NOT ENCODED)
  .030      CHEMARIN 72
+P ANYTHING
  1.2       BRODY 77
+PI+ ANYTHING
  8.4       BALDIN 75B        CS
**********
DEUT BE -->
----------
+P ANYTHING
  3.5       JAROS 73
  5.8       JAROS 73
+DEUT ANYTHING
  3.5       JAROS 73
**********
DEUT C -->
----------
-PI- ANYTHING
  3.5       PAPP 74
  5.8       PAPP 74
+P ANYTHING
  1.2       BRODY 77
+PI+ ANYTHING
  8.4       BALDIN 75E        CS
**********
DEUT AL -->
----------
+PI+ ANYTHING
+ PI- ANYTHING
  8.4       BALDIN 75B        CS
**********
DEUT CU -->
----------
-PI+ ANYTHING
+ PI- ANYTHING
  8.4       BALDIN 75B        CS
**********
DEUT CD -->
----------
-(RECHARGED)
   7.0      AREFEV 77         MULT
**********
DEUT SM -->
----------
+PI+ ANYTHING
+ PI- ANYTHING
  8.4       BALDIN 75B        CS
**********
DEUT TA -->
----------
+P ANYTHING
  1.2       BRODY 77
**********
DEUT PB -->
----------
+PI- ANYTHING
+ PI+ ANYTHING
  8.4       BALDIN 75B        CS
**********
DEUT U -->
----------
+NINI ANYTHING
  .69-2.2   BARASHENKOV 74C
+ANYTHING FRAC
  3.8       STEINER 74
**********
DEUT NUCLEUS -->
----------
-(NOT ENCODED)
  2.4       OCSTENS 71
            SILES 72
            SILESH 73
  2.9       OCSTENS 71
  5.4       BOGACHEV 71
  9.5       TOLSTOV 75B
     ?      BALDIN 71
+ANYTHING
  2.4       LCIOVA 71
+INELASTIC
   33       PERRIN 74
+DEUT NUCLEUS
  .33       PERRIN 74
  2.4       KARABA 72

**********
DEUT NUCLEUS -->  (CONT.)
----------
+ANYTHING CHARGED
  2.4       LOTOVA 71
-NUCLEUS P N
  1.5       ERICSON 75F
**********
DEUT N -->
----------
+PI+ ANYTHING
+ PI- ANYTHING
  8.4       BALDIN 75B        CS
**********
ADEUT P -->
----------
-(NOT ENCODED)
  13.       DENISOV 71D
+ANYTHING
  13.       GORIN 71E
**********
ADEUT LI -->
----------
-(NOT ENCODED)
  13.       GORIN 71
  25.       BIMON 70
**********
ADEUT C -->
----------
-(NOT ENCODED)
  13.       GORIN 71
+ANYTHING
  25.       BIMON 70
**********
ADEUT AL -->
----------
-(NOT ENCODED)
  13.       GORIN 71
+ANYTHING
  25.       BIMON 70
**********
ADEUT CU -->
----------
+(NOT ENCODED)
  13.       GORIN 71
+ANYTHING
  25.       BIMON 70
**********
ADEUT PB -->
----------
-(NOT ENCODED)
  13.       GORIN 71
+ANYTHING
  25.       BIMON 70
**********
NNI(I=1) -->
----------
-(NOT ENCODED)
   6.0      KROLL 71B
**********
HE3 HE3 -->
----------
+HE DEUT E+ NUE
  .28       SLOBODRIAN 75
**********
HE3 HE -->
----------
+HE HE3 GAMMA
     ?      FROIS 73          CS
**********
HE3 C -->
----------
+PIO ANYTHING
  1.0       WALL 74
  1.1       WALL 74
**********
HE3 PB -->
----------
+PIO ANYTHING
  1.1       WALL 74
**********
HE P -->
----------
-P HE
  3.2       BERGER 75F
  4.0       BERGER 75F        ANGP,
                              CS
  5.1       BERGER 75F
  6.0       BERGER 75F        ANGP,
                              CS
  8.6       GLAGOLEV 77
  18.       ABLEEV 77
+P ANYTHING
  3.7       ANDERSON 77
  7.0       ANDERSON 77
  12.       ANDERSON 77
+DEUT HE3
  4.0       BERGER 77B
```

REACTION/MOMENTUM INDEX (CONT'D)

```
HE P --> (CONT.)
----------
*DEUT ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
*T ANYTHING
  3.7      ANDERSEN 77
  7.0      ANDERSEN 77
  12.      ANDERSEN 77
*HE ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSEN 77
  12.      ANDERSEN 77
*HE3 P N
  8.6      GLASGLEW 77
*HE P PI0
  6.6      GLASGLEW 77
*HE N PI+
  8.6      GLASGLEW 77
**********
HE HE -->
----------
*(NOT ENCODED)
  .26      FROIS 72
*ZHE
  18.      ASLEEV 77
*ZHE GAMMA
  7        FROIS 73      ANGP,CS
**********
HE LI -->
----------
*(NOT ENCODED)
  7        ANIKINA 77
*P ANYTHING
  2.4      BRODY 77
**********
HE BE -->
----------
*FRAG(S)
  7.6      JAROS 73
*PI- ANYTHING
  7.0      JAROS 73
  12.      JAROS 73
*P ANYTHING
  7.0      JAROS 73
  12.      JAROS 73
**********
HE C -->
----------
*ANYTHING
  17.      TOLSTOV 74B      CS,
                            MULT
*PI- ANYTHING
  7.0      PAPP 74
  12.      JAROS 73
           PAPP 74
*P ANYTHING
  2.4      BRODY 77
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
*DEUT ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
*T ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
*HE ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
*C HE GAMMA
  3.5      ALEXANDER 76
**********
HE O -->
----------
*ANYTHING
  17.      TOLSTOV 74B      CS,
                            PULT
**********
HE NE -->
----------
*(NOT ENCODED)
  7        ANIKINA 77
**********
HE CU -->
----------
*P ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSEN 77
  12.      ANDERSON 77
*DEUT ANYTHING
  3.7      ANDERSEN 77
  7.0      ANDERSEN 77
  12.      ANDERSON 77

HE CU --> (CONT.)
----------
*T ANYTHING
  3.7      ANDERSEN 77
  7.0      ANDERSEN 77
  12.      ANDERSEN 77
*HE CU
  18.      ABLEEV 77
*HE ANYTHING
  3.7      ANDERSEN 77
  7.0      ANDERSON 77
  12.      ANDERSON 77
**********
HE BR -->
----------
*ANYTHING
  17.      TOLSTOV 74B      CS,
                            MULT
**********
HE AG -->
----------
*ANYTHING
  17.      TOLSTOV 74B      CS,
                            MULT
**********
HE TA -->
----------
*P ANYTHING
  2.4      BRODY 77
**********
HE W -->
----------
*(NOT ENCODED)
  11.-23.  ANGELOV 77H
**********
HE PB -->
----------
*PI- ANYTHING
  12.      JAROS 73
*P ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSEN 77
  12.      ANDERSEN 77
*DEUT ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSEN 77
  12.      ANDERSEN 77
*T ANYTHING
  3.7      ANDERSON 77
  7.0      ANDERSON 77
  12.      ANDERSEN 77
*HE ANYTHING
  3.7      ANDERSEN 77
  7.0      ANDERSEN 77
  12.      ANDERSON 77
**********
HE U -->
----------
*ANYTHING FRAG
  7.5      STEINER 74
**********
HE NUCLEUS -->
----------
*(NOT ENCODED)
  19.      TOLSTOV 75B
  ?        ANIK,NA 77B
*STAR
  17       AKHROPOV 76      P
**********
LI P -->
----------
*HE3 ANYTHING
  .66      KEMAREV 74
*T ANYTHING
  .66      KEMAREV 74
**********
BE P -->
----------
*HE3 ANYTHING
  .66      KEMAREV 74
**********
C P -->
----------
*HE3 ANYTHING
  .66      KEMAREV 74
*T ANYTHING
  .66      KEMAREV 74
*ANYTHING FRAGT
  25.      LINDSTROM 75
**********
C C -->
----------
*(NOT ENCODED)
  3.0      SKOSKI 73
*ANYTHING FRAGT
  35.      LINDSTROM 75

**********
C AL -->
----------
*ANYTHING FRAGT
  35.      LINDSTROM 75
**********
C FE -->
----------
*ANYTHING FRAGT
  35.      LINDSTROM 75
**********
C MT -->
----------
*ANYTHING FRAG
  35.      CHESHIRE 74
**********
C NUCLEUS -->
----------
*ANYTHING FRAG
  35.      CHESHIRE 74
**********
NAT NUCLEUS -->
----------
*NUPRONS
  40.      GUDIMA 76P
**********
C P -->
----------
*ANYTHING
  8.0      JAKOBSSON 75B
**********
D PE -->
----------
*ANYTHING FRAGT
  36.      LINDSTROM 75
**********
C C -->
----------
*ANYTHING FRAGT
  40.      LINDSTROM 75
**********
C MT -->
----------
*ANYTHING FRAG
  40.      CHESHIRE 74
**********
C NUCLEUS -->
----------
*FRAG
  13.      JAKOBSSON 72
  4+.      JAKOBSSON 76
*ANYTHING
  8.0      JAKOBSSON 75A
*PI,PI(S) ANYTHING
  6.1-10.  KULLBERG 77
*PROTON(S) ANYTHING
  6.1-10.  KULLBERG 77
*NUCLEON ANYTHING
  8.8-10.  KULLBERG 76
*HE ANYTHING
  8.8-13.  KULLBERG 76
*LI ANYTHING
  8.8-13.  KULLBERG 76
*BE ANYTHING
  8.8-10.  KULLBERG 76
*BOR ANYTHING
  8.8-13.  KULLBERG 76
*C ANYTHING
  8.8-13.  KULLBERG 76
*ANYTHING FRAGT
  44.      JAKOBSSON 75
*ANYTHING FRAG
  8.0      JAKOBSSON 75B
  46.      CHESHIRE 74
*2HE ANYTHING
  8.8-10.  KULLBERG 76
*3HE ANYTHING
  8.8-13.  KULLBERG 76
*4HE ANYTHING
  8.8-13.  KULLBERG 76
**********
NE U -->
----------
*LI ANYTHING
  19.      PRICE 77
*BOR ANYTHING
  19.      PRICE 77
*C ANYTHING
  19.      PRICE 77
*NIT ANYTHING
  19.      PRICE 77
*O ANYTHING
  19.      PRICE 77
*FL ANYTHING
  19.      PRICE 77

**********
AR AU -->
----------
*LI ANYTHING
  43.      PRICE 77
*BOR ANYTHING
  43.      PRICE 77
*C ANYTHING
  43.      PRICE 77
*NIT ANYTHING
  43.      PRICE 77
*O ANYTHING
  43.      PRICE 77
*FL ANYTHING
  43.      PRICE 77
**********
AU P -->
----------
*N PI+ ANU
  1.0-14.  COREMANS 76      AMP
**********
NUCLEUS NUCLEON -->
----------
*(NOT ENCODED)
  ?        SOLOVIEV 74
**********
NUCLEUS NUCLEUS -->
----------
*(NOT ENCODED)
  .44-2.6  STEINER 73
  1.0-7.0  HECKMAN 74B
*CHARGED
  ?        AYETYAN 74      PT
*HE ANYTHING
  2.0      PETAPOV 74      ANGP
*NUCLEUS ANYTHING
  ?        NIELE 73
*ANYTHING FRAG
  2.0      PETAPOV 74      ANGP
  ?        CORK 75         CS,E
           STEINER 74
**********
COSMIC P -->
----------
*(NOT ENCODED)
  ?        ASHTON 65
**********
COSMIC NUCLEON -->
----------
*SHOWER
  100-3.E+36
           SHIVPURI 76B     P
*MUONS ANYTHING
  10000-1.E+07
           LOWE 75          MULT
*QUARK ANYTHING
  ?        MAZEN 75
*2MUON ANYTHING
  >10000   LOWE 75B         PT
**********
COSMIC C -->
----------
*(NOT ENCODED)
  ?        EMELYANOV 72P
*NUPRONS
  100-400  VISHNEVSKY 74
                            MULT
*ANYTHING
  >100     BOSTANDZHYAN 74
                            CS
*INELASTIC
  100-10000
           GANGULI 74       CS
**********
COSMIC AL -->
----------
*PRONS
  50.-3000 ATANELISHVIL 74
                            MULT
*NUPRONS
  100-400  VISHNEVSKY 74
                            PULT
*ANYTHING
  >100     BOSTANDZHYAN 74
                            CS
*INELASTIC
  450      BOSTANDZHYAN 73
                            CS
**********
COSMIC FE -->
----------
*NUPRONS
  100-400  VISHNEVSKY 74
                            MULT
*INELASTIC
  100-10000
           GANGULI 74       CS
```

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COSMIC CU -->

*PRONG
50.-3000 ATANELISHVIL 74
MULT

COSMIC SN -->

*N(PRONG)
100-400 VISHWANATH 74
MULT

COSMIC PB -->

*ANYTHING
>100 BOSTANDZHYAN 74
CS

*INELASTIC
100-10000
GANGULI 74 CS
450 BOSTANDZHYAN 73
CS

COSMIC NUCLEUS -->

*(NOT ENCODED)
1.0-1.5 BERNETZ 76
10. CATZ 70
>10. BROWNLEE 70
12.-25000
ALEKSEEVA 7C
20.-10000
KIM 73B
25.-10000
VATCHA 73
>100 VISHWANATH 74B
200-2000 AZIMOV 72F
989 VERNOV 73C
1000 FOMIN 72
NIKIAN1 70G
1300-10000
PARKER 69B
>1000 BERGAMASCO 73B
JONES 73C
MIZUTANI 71
SANJVANA 73
10000 BARUCH 73B
>10300 THOMPSON 70
>1.E+08 CLARKE 75 P
>1.E+09 HARA 70
1.E+10 TRUEMPER 70
1.E+14 SUGA 70
? ABRESIMOV 70
ALLAN 70
ALVAREZ 73
ANDREWS 70
ASEIKIN 70
ASEIKIN 72
BABAYAN 71B
BAIRD 70
BARICH 70
BARAZZEI 70B
BERGAMASCO 70
BERGAMASCO 71B
BETEV 70
BIELIASHVILI 72
BLAKE 70
BLAKE 70B
BOHM 70G
BORSHKOVSKII 7C
BOSIA 70
BROWNLEE 70B
BROWNLEE 7CC
BROWNLEE 7DD
BROWNLEE 70E
CATZ 70B
CATZ 71
CCWAN 69
CROUCH 72
DAKE 72
DARDO 70
DEBEER 70
ESCOBAR 70
FAISSNER 70
FIRKOWSKI 70
FIRKOWSKI 72B
FISHBANE 73
FLEISCHER 70
FOWLER 75
FRITZE 70
FRITZE 70B

COSMIC NUCLEUS --> (CONT.)

*(NOT ENCODED) (CONT.)
GALLI 70
HARA 70B
HAZEN 70
HILLAS 70
HOCHART 70
HOOK 70
KRIDER 70
MACHIN 70
MATANG 70
MATSUBAYASHI 75
MAZE 70 A1
MIYAKE 70
MIYAKE 73B
PRESCOTT 70
PRICE 75
SAMORSKI 73
SAMORSKI 73B
SITTE 70
STAUBERT 70
TASAKA 73
VERNOV 70E
WHITE 70
WILSON 70B
WOJCIECK 71
*PIOS
400-7000 SABAYAN 70 P
*MESONS
1.E+05 LATTES 74 MULT
*<LT>3EPRONG
1.E+05 SHIVPURI 76C P
*HADRONS
8000-20000
ANITSCHENKO 74 CS
1.E+06-1.E+07
ANISHCHENKO 73
ANGP,
P
? ITCA 75 ANGP,CS,P
*PRONG
50.-3000 ATANELISHVILI 73
MULT
>200 BERDZENISHVI 7C
ANGP,
P,PI
*N(PRONG)
.20-1.2 BOGDANOV 75
*>EAVY
? YUNNAN 73
*GAMMAS ANYTHING
1.E+06-1.E+07
ANISHCHENKO 73
ANGP,
P
*NUNU ANYTHING
? ALBERT 75 MULT
*E- ANYTHING
? KANEKO 75D ANGP
*ELECTRONS(S) ANYTHING CS
? BLAKE 75 ANGP,
MULT
*PIONS ANYTHING
>0. PESTOV 76 ANG
10.-1000 VERNOV 70 ANGP,P
>1000 KRISHNASWAMY 75C
ANGP,
MULT
8000-10000
ASHLEY 75 CS
>5.E+C7 BRAY 75 ANGP,MULT
*MU- ANYTHING
? KANEKO 75D ANGP
*PION ANYTHING
20.-1000 DECOSTER 74 ANG
1.E+06 HOCHART 75 ANGP,
CS
? GLUSCKOV 75 P
*PIONS ANYTHING
>1000 KRISHNASWAMY 75C
CS
*PI(S) ANYTHING
0.-1.E+07
HALZEN 74D MASS,
PT
*PIO ANYTHING
? LATTES 74 P
*HADRS ANYTHING
>1000 KRISHNASWAMY 75C
CS
*PROTON(S) ANYTHING
.20-1.2 BOGDANOV 75
*+E- ANYTHING
>1.0 JAKOBSSON 73 ANGP,
P

COSMIC NUCLEUS --> (CONT.)

*N(ME) ANYTHING
>1.0 JAKOBSSON 73 MULT
*MES(S) ANYTHING
.20-1.2 BOGDANOV 75
*<ENGLIVED ANYTHING
100-25000
GAISSER 75D CS
*ANYTHING FRAG
? TRETYAKOVA 73
MASS
*ANYTHING CHGD-HADRON
? AZARIAN 74B CS
*ANYTHING HADRONS
? AZARIAN 74B CS
*PI+(S) PI-(S) ANYTHING
100-500 ZELEVINSKAYA 70
*2FRAG ANYTHING
400 RAZDOLSKAYA 73 P
*E- ANYTHING
? KHRISTIANSEN 74
CS
*ELECTRONS ANYTHING
*GAMMAS ANYTHING
2000-20000
ANITSCHENKO 74 CS
*MU- ANYTHING
*MUN ANYTHING
? KHRISTIANSEN 74
CS
HADRON* DEUT -->
*(SPECT) PI- N(PRONG)
165 EISENBERG 76 MASS,
MULT,P
EISENBERG 76C
MASS,
MULT,P
HADRON* NUCLEUS -->
*3MUON ANYTHING
225 ANDERSON 76I MASS
*3MUON 2CHARM ANYTHING
225 ANDERSON 76I CS
HADRON P -->
*(NOT ENCODED)
50.-1.E+05
IMAEDA 73
? CERN-NA-005
*ANYTHING HADRONS
? CERN-NA-003
*E- E+ HADRONS
? CERN-NA-003
*MU- E+ HADRONS
? CERN-NA-003
*MU+ MU+ ANYTHING
? CERN-NA-003
*MU+ E- HADRONS
? CERN-NA-003
HADRON N -->
*(NOT ENCODED)
50.-1.E+05
IMAEDA 73
HADRON NUCLEUS -->
*(NOT ENCODED)
.20-1.2 BOGDANOV 75
*NUCLEON HADRON
100-300 YOKOSAWA 75 ANGP,
CS
*NUCLEON HADRONS
100-300 YOKOSAWA 75 ANGP,
CS
*ODD HADRONS
5.0-530 AMALEI 76B ANGP,
CS,MASS
HADRON C -->
*(NOT ENCODED)
0.-6.0 APSHEV 68
20.-333 ALAKOZ 71B
50.-1.E+05
IMAEDA 73
? LATTES 74 P
*HADRONS ANYTHING
>1000 KRISHNASWAMY 75C
CS
*PROTON(S) ANYTHING
.20-1.2 BOGDANOV 75
*+E- ANYTHING
>1.0 JAKOBSSON 73 ANGP,
P

HADRON C --> (CONT.)

*(NOT ENCODED) (CONT.)
>1500 APANASENKO 68
>3000 MASSALSKI 71C
? LAL 71B
HADRON O -->
*(NOT ENCODED)
50.-1.E+05
IMAEDA 73
HADRON AL -->
*(NOT ENCODED)
50. ALAKEZ 71
>100 AVAKOZ 72
VARDUMYAN 70
200 ALAKEZ 71
200-2000 AZIMOV 72D
*N(PRONG)
100-1000 ATANELISHVIL 76
MULT
HADRON FE -->
*(NOT ENCODED)
70.-1000 ANDRONIKASHV 68
100-1000 DENISOV 68
>100 ANDESHN 72
200-1500 GUSEVA 69
200-2000 AZIMOV 72D
400 BASHINDZHAGY 72
>500 GRIGOROV 68
1000-3000
GRIGOROV 68
HADRON CU -->
*(NOT ENCODED)
0.-6.0 APSHEV 68
*N(PRONG)
100-1000 ATANELISHVIL 76
MULT
HADRON SN -->
*(NOT ENCODED)
0.-6.0 ARSHEV 66
HADRON PB -->
*(NOT ENCODED)
0.-6.0 APSHEV 68
100 BERDZENISHVI 71E
100-1000 DENISOV 68
>100 DHIMYAN 70
>200 NAM 71
400 BASHINDZHAGY 72
530-20000
NAM 69
>1000 NAM 71B
>3000 MASSALSKI 71C
*ANYTHING
>1000 NAM 74 CS
HADRON NUCLEUS -->
*(NOT ENCODED)
.40-2000 SAITO 71
10.-300 GOZA 71B
10.-600 STAFFORD 71
10.-780 OYTERLUNC 68
10.-1000 ENELYANOV 72B
10.-1.E+05
CURRAN 7C
20. LAL 72B
20.-1000 BALASUBRAHMA 71
>20. GOPALAKRISHN 70
70.-800 HAZEN 71B
80.-400 BASHINDZHAGY 71
100 HOSHINO 76B
YAMADA 70
100-530 GUSEVA 70
100-1000 ABDULLAEV 71
ANOSHIN 71
ATANELISHVIL 72
100-1400 AKIMOV 76B
100-1500 PETISOV 71
100-2000 MACFALL 76
100-3000 SLAVATINSKII 70
100-10000
COHAN 71
>100 ENELYANOV 72C
IMAEDA 69
AYBICKI 69B
YOOM 72

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*(NOT ENCODED) (CONT.)	*4PRONG
150-950 ZELEVINSKAYA 72	100-1000 ATANELISHVIL 76
200 CHARKEVSKA 68 CS	
MURZIN 69	*6PRONG
200-500 VINITSKII 70B	100-1000 ATANELISHVIL 76
200-1000 AZIMOV 71D CS	
200-1500 GUSEVA 69	*8PRONG
200-2000 AZIMOV 72D	100-1000 ATANELISHVIL 76
200-6300 KIM 68B CS	
>200 AZIMOV 72E	*10PRONG
GILLESPIE 71C	100-1000 ATANELISHVIL 76
250 AKIMOV 71C CS	
400 ROINISHVILI 72	*12PRONG
450-1.E+05	100-1000 ATANELISHVIL 76
SHIVPURI 70 CS	
500 BERZGENISHVI 71	*14PRONG
BERDZENISHVI 71B	100-1000 ATANELISHVIL 76
BERDZENISHVI 71C CS	
BERZGENISHVI 71D	*16PRONG
800 LAMB 68	100-1000 ATANELISHVIL 76
1000 BABECKI 70C CS	
NYBICKI 70	*18PRONG
1300-10000	100-1000 ATANELISHVIL 76
APANASENKO 69 CS	
NOZAKI 71	*20PRONG
>1000 BARUCH 73C	100-1000 ATANELISHVIL 76
EMELYANOV 72 CS	
GIBBS 72	*22PRONG
SOBINYAKOV 72	100-1000 ATANELISHVIL 76
TCHWAR 71 CS	
3300-30000	*24PRONG
ASEIKIN 72B	100-1000 ATANELISHVIL 76
>3000 MASSALSKI 71B CS	
5000 MALHOTRA 71	*26PRONG
10000 MUMPHREYS 72	100-1000 ATANELISHVIL 76
MASLENNIKOVA 72	*28PRONG
>10000 NIKOLSKII 70B	100-1000 ATANELISHVIL 76
VONLINDER 71	*30PRONG
>1.E+05 CHERDYNTSEVA 69	100-1000 ATANELISHVIL 76
ZHDANOV 72	*32PRONG
>1.E+06 CHERDYNTSEVA 71	100-1000 ATANELISHVIL 76
? AKASHI 70	*34PRONG
ALEKSEEVA 70B	100-1000 ATANELISHVIL 76
ALEKSEEVA 72	*36PRONG
ANDSHIN 72B	100-1000 ATANELISHVIL 76
APANASENKO 71	*38PRONG
APANASENKO 71B	100-1000 ATANELISHVIL 76
APANASENKO 72	*40PRONG
BABAYAN 68	100-1000 ATANELISHVIL 76
BABAYAN 71	**********
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BOHR 71	----------
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*2PRONG	
100-1000 ATANELISHVIL 76 CS	

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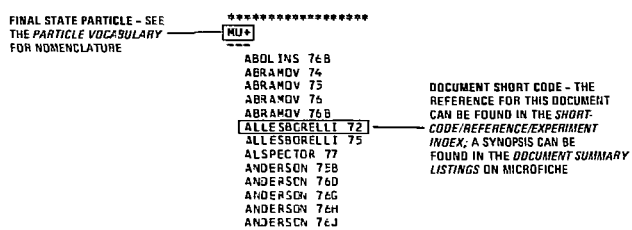
Use this Index to locate documents which discuss reactions having a given particle in the final state. The most common particles [P, PI+, PI−, PI0, K+, K−, N, NUCLEON, P(SPECT), and N(SPECT)] are not indexed. The particles are in type order, as discussed in the Particle Vocabulary, Section III.A.

ILLUSTRATIVE KEY



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Use this Index to locate documents which report a determination of one or more intrinsic properties of a given particle. The particles appear in type order, as discussed in the Particle Vocabulary, Section III.A. Following each particle name, the documents are listed according to the nature of the property which they have determined. A question mark is used for unencoded properties; these appear last in the list.

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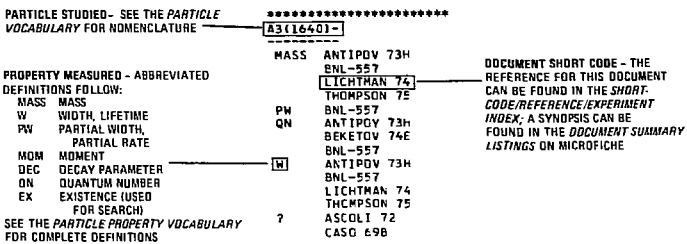

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SCHARRE 77
CARITHERS 75B
GRISELIN 75B
JONGEJANS 77
W CARNEGIE 74
DEJONGH 74B
FRENCH 74
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HANDLER 75E
SCHARRE 77
K*(892)+

MASS BLIND 74
BOWLER 74
PW BOWLER 74
BOWLER 76
QN BOWLER 74
BOWLER 76
W BLIND 74
BOWLER 76
? BRANDENBURG 75E

K*(892)- (CONT.)

MASS (CONT.)
AGUILARBENIT 77
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GRISELIN 75B
PALER 75
PW AGUILARBENIT 77
PUNI-272
GRISELIN 75B
FRENCH 74
GRISELIN 75B
PALER 75
KAPPA(1250)0

MASS CASON 76
QN CASON 76
W CASON 76
CLOW(12401+

MASS BLIND 74
BOWLER 76
PW BOWLER 74
BOWLER 76
QN BLIND 74
BOWLER 74
BOWLER 76
W BLIND 74
BOWLER 76
CLOW(12403)

EX CARNEGIE 76B
MASS CARNEGIE 76B
PW CARNEGIE 76B
BOWLER 76
CLOW(12403)-

MASS BOWLER 76
PW BOWLER 76
QN BOWLER 76
BOWLER 76
CL(2403)-(4001+

MASS WILKINS 75
PW BOWLER 74
CARNEGIE 77
TOVEY 75
QN BOWLER 74
DUNWOODIE 75
OTTER 75
TOVEY 75
W WILKINS 75
? ANTICH 73
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MALUCH 73
GARFINKEL 71B
GARFINKEL 71B
CL(2403-140010

MASS DORE 75
PW CARNEGIE 77
W DORE 75
? DORNAN 67
DORNAN 67
CL(2403-14001-

DEC TOVEY 74B
PW ANTIPOV 74B
CARNEGIE 77
TOVEY 74B
QN ANGELOPOULOS 74
ANTIPOV 74B
TOVEY 74B
TOVEY 74D
? HANSEN 75
MASS BLIND 74
BOWLER 76
PW BOWLER 74
BOWLER 76
QN BOWLER 74
BOWLER 76
W BLIND 74
BOWLER 76
? BRANDENBURG 75E

K*(892)0 (CONT.)

MASS (CONT.)
AGUILARBENIT 77
ANTIPOV 73L
FRENCH 74
GRISELIN 75B
PALER 75
PW AGUILARBENIT 77
PUNI-272
GRISELIN 75B
FRENCH 74
GRISELIN 75B
PALER 75
K*(1420)0

MASS CASON 76
PW BRANDENBURG 76
QN CASON 76
W BRANDENBURG 76
? BRANDENBURG 75E
K*(1420)+

EX BRANDENBURG 76
MASS BRANDENBURG 76
PW BRANDENBURG 76
QN BRANDENBURG 76
W BRANDENBURG 76
? BRANDENBURG 75E
K*(1420)-

? BRANDENBURG 75E
K*(1423)0

MASS BOWLER 77
CARMONY 77
CARNEGIE 74
DEJONGH 74B
ETKIN 76
GINESTET 74
MANCLER 75B
PW HEMINGWAY 75C
LAUSCHER 74
AGUILARBENIT 73C
CARMONY 77
DEMM 74
HEMINGWAY 75C
JONES 75
LAUSCHER 74
W BOWLER 77
CARMONY 77
CARNEGIE 74
DEJONGH 74B
GINESTET 74
MANCLER 75B
HEMINGWAY 75C
LAUSCHER 74
K*(1430)0

MASS MCCUBBIN 74
W MCCUBBIN 74
K*(1430)-

MASS ANTIPOV 73L
BNL-54E
PW ANTIPOV 74B
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GELFRAND 76
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QN ANTIPOV 74B
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W ANTIPOV 73L
? GOZ 68
K*(1450)0

? FIRESTONE 71E
FIRESTONE 71B
K*(1450)-

EX VERGEEST 76
QN VERGEEST 76
K*(1470)0

EX CHIEN 75E
MASS CHIEN 75B
ETKIN 76
W CHIEN 75B
ETKIN 76

QN(1GH(1340)

EX CARNEGIE 76B
MASS CARNEGIE 76B
PW CARNEGIE 76B
QN(1GH(1340)-

MASS BOWLER 76
QN BOWLER 76
K*(1420)+

MASS BRANDENBURG 76
QN BRANDENBURG 76
W BRANDENBURG 76
? BRANDENBURG 75E
KPEIME(1420)+

EX BRANDENBURG 76
MASS BRANDENBURG 76
PW BRANDENBURG 76
QN BRANDENBURG 76
W BRANDENBURG 76
? BRANDENBURG 75E
KPEIME(1420)-

? BRANDENBURG 75E
K*(1423)0

MASS BOWLER 77
CARMONY 77
CARNEGIE 74
DEJONGH 74B
ETKIN 76
GINESTET 74
MANCLER 75B
HEMINGWAY 75C
LAUSCHER 74
PW AGUILARBENIT 73C
CARMONY 77
DEMM 74
HEMINGWAY 75C
JONES 75
LAUSCHER 74
W BOWLER 77
CARMONY 77
CARNEGIE 74
DEJONGH 74B
GINESTET 74
MANCLER 75B
HEMINGWAY 75C
LAUSCHER 74

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**********                  G+ (CONT.)
K*(1770)0                   ---------
----------                  MASS (CONT.)
EX    FOLEY 76                    GOLDHABER 77C
MASS  FOLEY 76                    SCHNAITER 77E
W     FOLEY 76                    NGUYEN 77
**********                        PERL 76D
K*(1780)-                         PIERRE 76
----------                        SCHNITTERS 77B
MASS  CHUNG 74B                   WISS 77
PW    CHUNG 74B                   WISS 77G
W     CHUNG 74B             PW    BAREAPOGALTI 77B
**********                        GOLDHABER 77B
L(1770)+                          GOLDHABER 77C
----------                        GOLDHABER 77E
?     BARBAROGALTI 69B            NGUYEN 77
      CILLEY 71                   PERL 76D
**********                        WISS 77
L(1770)-                          WISS 77G
----------                  GN    GOLDHABER 77C
PW    ANL-E-289-292               GOLDHABER 77E
      ANTIPOV 74B                 SCHNITTERS 77B
GN    ANTIPOV 74B           ?     WISS 76
?     BARTSCH 70E                 WISS 77
**********                        WISS 77G
K*(1780)+                   W     GOLDHABER 77B
----------                  W     GOLDHABER 77E
MASS  BALDI 76                    NGUYEN 77
GN    BALDI 76                    PIERRE 76
W     BALDI 76                    SCHNITTERS 77B
?     CARMONY 71B                 WISS 77
      CARMONY 71B                 WISS 77G
**********                  ?     BRANDELIK 77E
K*(1780)0                         FELDMAN 77C
----------                        PERUZZI 77
EX    SPIRO 75              **********
?     CARMONY 71            DD
**********                  ---
K*(1800)+                   DEC   GOLDHABER 77B
----------                  EX    BRAUNSCHWEIG 76C
EX    CERN-S-131                  GOLDHABER 76
**********                        GOLDHABER 76C
K*(1800)-                         HAGOPIAN 75
----------                        PERL 76D
EX    BOWLER 77                   SCHNITTERS 77B
      CARMONY 75            MASS  BARBAROGALTI 77B
      GINESTET 74                 GOLDHABER 76C
MASS  BOWLER 77                   GOLDHABER 76E
      BRANDENBURG 75C             GOLDHABER 77E
      CARMONY 77            PW    CARMONY 77
PW    CARMONY 77            GN    BRANDENBURG 75C
GN    BRANDENBURG 75C       W     BOWLER 77
W     BOWLER 77                   BRANDENBURG 75C
      BRANDENBURG 75C             CARMONY 77
      CARMONY 77            **********
**********                  K*(1800)-
K*(1800)-                   ----------
----------                  EX    CERN-S-131
EX    CERN-S-131            **********
**********                  ANL(1800)0
ANL(1800)0                  ----------
----------                  MASS  GRASSLER 77
MASS  GRASSLER 77           W     GRASSLER 77
W     GRASSLER 77           **********
**********                  K*(2220)0
K*(2220)0                   ----------
----------                  MASS  CARMONY 77
MASS  CARMONY 77            PW    CARMONY 77
PW    CARMONY 77            GN    CARMONY 77
GN    CARMONY 77            W     CARMONY 77
W     CARMONY 77            **********
**********                  K(26CD)+
K(26CD)+                    ----------
----------                  EX    APOSTOLAKIS 76
EX    APOSTOLAKIS 76        MASS  APOSTOLAKIS 76
MASS  APOSTOLAKIS 76        PW    APOSTOLAKIS 76
PW    APOSTOLAKIS 76        W     APOSTOLAKIS 76
W     APOSTOLAKIS 76        **********
**********                  K(26CD)-
K(26CD)-                    ----------
----------                  EX    APOSTOLAKIS 76
EX    APOSTOLAKIS 76        MASS  APOSTOLAKIS 76
MASS  APOSTOLAKIS 76        PW    APOSTOLAKIS 76
PW    APOSTOLAKIS 76        W     APOSTOLAKIS 76
W     APOSTOLAKIS 76        **********
**********                  K*(UNSPEC)-
K*(UNSPEC)-                 ----------
----------                  EX    ANL-E-286-292
EX    ANL-E-286-292         **********
**********                  D+
D+                          ---
---                         DEC   GOLDHABER 77B
DEC   GOLDHABER 77B         EX    PERL 76D
EX    PERL 76D                    SCHNITTERS 77B
      SCHNITTERS 77B        MASS  BARBAROGALTI 77B
MASS  BARBAROGALTI 77B            GOLDHABER 77B

ADD (CONT.)                 D*(2010)+ (CONT.)
----------                  ----------
MASS (CONT.)                W (CONT.)
      QUINN 76                    WISS 77
      SCHNITTERS 77B              WISS 77B
PW    QUINN 76              ?     FELDMAN 77C
GN    SCHNITTERS 77B        **********
W     PIERRE 76             D*(2010)0
**********                  ---
D-                          DEC   GOLDHABER 77B
---                         EX    PERL 76D
DEC   GOLDHABER 77B               QUINN 76
EX    PERL 76D                    SCHNITTERS 77B
      QUINN 76              MASS  GOLDHABER 77B
      SCHNITTERS 77B              PERL 76D
PW    GOLDHABER 77B               PIERRE 76
GN    SCHNITTERS 77B              QUINN 76
W     PIERRE 76                   SCHNITTERS 77B
      QUINN 76              PW    GOLDHABER 77B
      SCHNITTERS 77B              PERL 76D
**********                        SCHNITTERS 77B
D*(2010)+                   GN    SCHNITTERS 77B
----------                        WISS 76
MASS  BARBAROGALTI 77B      W     GOLDHABER 77B
      GOLDHABER 77C               GOLDHABER 77E
      GOLDHABER 77E               SCHNITTERS 77B
      NGUYEN 77             ?     BRANDELIK 77
      SCHNITTERS 77B              PERUZZI 77
      WISS 77               **********
      WISS 77B              D*(2010)-
PW    BAREAPOGALTI 77B      ----------
      GOLDHABER 77C         EX    BARK 77
      GOLDHABER 77E               SCHNITTERS 77B
      NGUYEN 77             MASS  BARBAROGALTI 77B
      SCHNITTERS 77B              GOLDHABER 77C
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      WISS 77B                    NGUYEN 77
GN    GOLDHABER 77C               SCHNITTERS 77B
      GOLDHABER 77E               WISS 77
      HAGOPIAN 75                 WISS 77B
      NGUYEN 77             PW    BAREAPOGALTI 77B
      PERL 76D                    GOLDHABER 77C
      WISS 77B                    GOLDHABER 77E
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      NGUYEN 77                   WISS 77
      SCHNITTERS 77B              WISS 77B
      WISS 77               GN    GOLDHABER 77C
      WISS 77B                    GOLDHABER 77E
?     FELDMAN 77C           W     GOLDHABER 77E
**********                        NGUYEN 77
D*(2010)0                         SCHNITTERS 77B
----------                        WISS 77
DEC   GOLDHABER 77B               WISS 77B
EX    GOLDHABER 76                SCHNITTERS 77B
      SCHNITTERS 77E        ?     FELDMAN 77C
MASS  BARBAROGALTI 77B      **********
      GOLDHABER 77C         D*(2010)0
      GOLDHABER 77E         ----------
      NGUYEN 77             DEC   GOLDHABER 77B
      PERL 76D              EX    GOLDHABER 76
      PIERRE 76                   SCHNITTERS 77B
      PICCOLO 77            MASS  BARBAROGALTI 77B
      QUINN 76                    GOLDHABER 76
      SCHNITTERS 77B              GOLDHABER 76C
      WISS 77                     GOLDHABER 77B
      WISS 77G                    GOLDHABER 77C
GN    GOLDHABER 77C               GOLDHABER 77E
      GOLDHABER 77E               NGUYEN 77
      NGUYEN 77B                  SCHNITTERS 77B
      SCHNITTERS 77B              SUZUKI 76
      SUZUKI 76                   WISS 77
      WISS 77                     WISS 77B
      WISS 77B              W     GOLDHABER 77E
W     GOLDHABER 76C               GOLDHABER 77H
      GOLDHABER 76E               PIERRE 76
      GOLDHABER 77B               SCHNITTERS 77B
      GOLDHABER 77E               SUZUKI 76
      HAGOPIAN 75                 WISS 77
      NGUYEN 77                   WISS 77B
      SCHNITTERS 77B        GN    GOLDHABER 77C
      WISS 77                     GOLDHABER 77E
      WISS 77B                    NGUYEN 77
?     FELDMAN 77C                 SCHNITTERS 77B
      PERL 76D                    SUZUKI 76
      SCHAAD 77B                  WISS 77
**********                        WISS 77B
ADD                         W     GOLDHABER 77B
---                               GOLDHABER 77E
EX    QUINN 76                    NGUYEN 77
      SCHNITTERS 77B              PIERRE 76
MASS  PIERRE 76                   SCHNITTERS 77B

D*(2010)0 (CONT.)           D*(2360)+
----------                  ----------
W (CONT.)                   EX    BNL-701
      WISS 77               **********
      WISS 77B              MESON(UNSPEC)-
?     FELDMAN 77C           ----------
**********                  EX    BNL-701
D*(2010)-                   **********
----------                  DEC   BASSOMPIERRE 76C
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**********                        BEREZHNEV 76
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MASS  BRANDELIK 77D               GUBLER 74
GN    BRANDELIK 77D               HCHLER 76
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**********                        KAMINKER 72
D*(2360)+                         KAMINKER 72
----------                        KHRIPLOVICH 75C
EX    BRANDELIK 77D               LUKA 72
MASS  BRANDELIK 77D               MANVRIN 72B
GN    BRANDELIK 77D               NERENOV 75
W     BRANDELIK 77D               OLSEN 72
**********                        OLSEN 74C
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----------                        PHILLIPS 75
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MASS  BRANDELIK 77D               VOGOUROUX 72
GN    BRANDELIK 77D         PW    BASSOMPIERRE 76C
W     BRANDELIK 77D         GN    JOHNSTON 69
**********                  W     KALBFLEISCH 75C
D*(2360)0                         BERGAMASCO 74
----------                        DIX 70
EX    BRANDELIK 77D         ?     CHINESE 74
MASS  BRANDELIK 77D               CHINESE 76
GN    BRANDELIK 77D               FYSTROM 69
W     BRANDELIK 77D               FYSTROM 70
**********                        FYSTROM 71
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----------                        HARRISON 69
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MASS  BRANDELIK 77D               KLEPPNER 71
GN    BRANDELIK 77D               LUKEN 72E
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**********                        MILLER 73B
D*(2420)-                         PETLEY 67
----------                        PEYLEY 71
EX    BRANDELIK 77D               PETLEY 72
MASS  GOLDHABER 75C               WINKLER 72
      PIERRE 76             **********
W     PIERRE 76             N
**********                  ~
D*(2420)0                   ---
----------                  DEC   OGBAZGESKY 75
MASS  AEOLINS 76B                 DRESS 76
W     AEOLINS 76B                 EROZOLIMSKII 74
**********                        KIM 74B
E*(2460)0                         KRCHN 75
----------                        KRCHN 75
EX    ALAM 76B                    STEINBERG 74
      BALYAY 75E                  STEINBERG 76
      BOWMAN 75             MCM   BEFARC 73B
      OLMEN 73C                   BLOCH 72
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?     OCHEN 72C             PW    EROZOLIMSKII 74
**********                        SLAUGHTER 75
MESON                       GN    KASHUKEEV 71
----------                  W     KLAUGHTER 75
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MASS  CARTER 77                   APOSTOLESCU 70
PW    CARTER 77                   BAIRD 65
GN    CARTER 77                   BAIRD 65B
W     CARTER 77                   CHRISTENSEN 69
**********                        CHRISTENSEN 72
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----------                        ORESS 68
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MASS  ANL-E-436                   EROZOLIMSKII 73D
PW    ANL-E-436                   EROZOLIMSKII 71
W     ANL-E-436                   WEINZIERL 71
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                            MASS  BNL-642
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                                  ROBERTS 74C
```

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MCM (CONT.)
ROBERTS 75C
TAUSCHER 75E
QN KALGGEROPOULOS 75C
? BAMBERGER 72
****
NUCLEON

DEC WEBER 75B
W REINES 74B
? KRAVTSOV 77
****
N12501+

EX BERLAD 74
****
N1225010

EX BERLAD 74
****
N11350B1+

EA SOTIRIOU 76
MASS SOTIRIOU 76
W SOTIRIOU 76
****
N1147OP11+

MASS HEINEN 76
UKAI 74
PW HEINEN 76
QN HEINEN 76
W HEINEN 76
UKAI 74
****
N1147OP1L0

MASS CAVALLISFORZ 75C
CAVALLISFORZ 75C
****
N1147OB1+

MASS AKIMOV 76B
ATHERTON 76
HOCHMAN 74C
LICHTMAN 74
MLSGRAVE 74
PW HOCHMAN 74C
QN HEGMAN 74C
W AKIMOV 76B
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HOCHMAN 74C
LICHTMAN 74
MLSGRAVE 74
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****
N1147OB10

MASS LEE 73
W CODDINGTON 74
LEE 73
****
N1520013I+

MASS STEIN 75
UKAI 74
W STEIN 75
UKAI 74
****
N1520013I0

MASS COOPER 74C
W CODDINGTON 74
COOPER 74C
****
N1520013+

MASS BEKETOV 74B
MLSGRAVE 74
WEBB 74B
W BEKETOV 74B
MLSGRAVE 74
WEBB 74B
? ANL-E-339
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N1529B13

MASS FERRERSORIA 77
RIVCAL 74
ROUGE 77
PW RIVCAL 74
ROUGE 77
W FERRERSORIA 77
RIVCAL 74
ROUGE 77

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? ANL-E-339
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N1535511I+

MASS UKAI 74
W UKAI 74
****
N1535511I0

MASS DUDKIN 76
DUDKIN 76
W DUDKIN 76
DUDKIN 76
****
N1608F151+

MASS ABE 74
ALESHIN 75C
STEIN 75
WEBB 74B
PW ALESHIN 75C
QN ALESHIN 75C
W ABE 74
ALESHIN 75C
STEIN 75
WEBB 74B
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N1608F1510

MASS ALESHIN 75C
CAVALLISFORZ 75C
FERRERSORIA 77
PW ALESHIN 75C
QN ALESHIN 75C
W ALESHIN 75C
CAVALLISFORZ 75C
CCODINGTON 74
FERRERSORIA 77
****
N1170051110

MASS BAKER 74C
PW BAKER 74C
QN BAKER 74C
W BAKER 74C
****
N1170001310

MASS BAKER 74C
PW BAKER 74C
QN BAKER 74C
W BAKER 74C
****
N1170DB1+

EX RCSENFELD 77
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? ANL-E-339
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N1170D810

MASS HEINEN 76
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ROUGE 77
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RIVCAL 74
ROUGE 77
QN HEINEN 76
W HEINEN 76
RIVCAL 74
ROUGE 77
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DESALVO 76
****
N1178D211I+

MASS UKAI 74
W UKAI 74
****
N1178OP110

MASS BAKER 74C
PW BAKER 74C
QN BAKER 74C
W BAKER 74C
****
N11B0P131+

EX KNIES 74B
MASS BAKER 74C
KNIES 74B
PW BAKER 74C
QN BAKER 74C
W BAKER 74C
****
N11B1GP131+

EX KNIES 74B
MASS BAKER 74C
KNIES 74B
PW BAKER 74C
W KNIES 74B
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N11B1GP1310

EX KNIES 74B
MASS BAKER 74C
KNIES 74B
PW BAKER 74C
QN BAKER 74C
W BAKER 74C
KNIES 74B
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N1186C1+

MASS LEDNICKY 75
QN LEDNICKY 75
W LEDNICKY 75
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N1196JF1710

MASS BAKER 74C
PW BAKER 74C
QN BAKER 74C
****
N2196DB1+

MASS ABE 74
W ABE 74
****
N1324581J

EK DIKON 76
****
N1NUSPEC1+

EX ANL-E-427
MASS ANL-E-427
QN ANL-E-427
W ANL-E-427
****
N1NUSPEC10

EX ANL-705
****
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MASS ATHERTON 76
EASON 73
GORDEN 70B
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LICHTMAN 74
VASAN 76B
ZIDELL 77
PW GABITZSCH 74
HABER 75
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MASS GAIDOS 75
PW GAIDOS 75
W GAIDOS 75
****
DEL1167P331+

MASS FRENCH 74
W FRENCH 74
****
DEL1167P3311+

MASS FRENCH 74
W FRENCH 74
****
DEL1186P331+

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
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DEL1186P3310

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
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EA ZEMANY 77
MASS EISNER 75
ZEMANY 77
PW ZEMANY 77
QN EISNER 75
ZEMANY 77
W EISNER 75
ZEMANY 77
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DEL1189D351++

MASS CHUNG 75B
QN CHUNG 75B
W CHUNG 75B
****
DEL1189D351+

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
QN KNIES 74B
W KNIES 74B
****
DEL1189D351+0

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
****
DEL1189D351++0

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
****
DEL1189F3310

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
****
DEL1189P3310

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
****
DEL1189P331+

EX KNIES 74B
MASS KNIES 74B
PW KNIES 74B
W KNIES 74B
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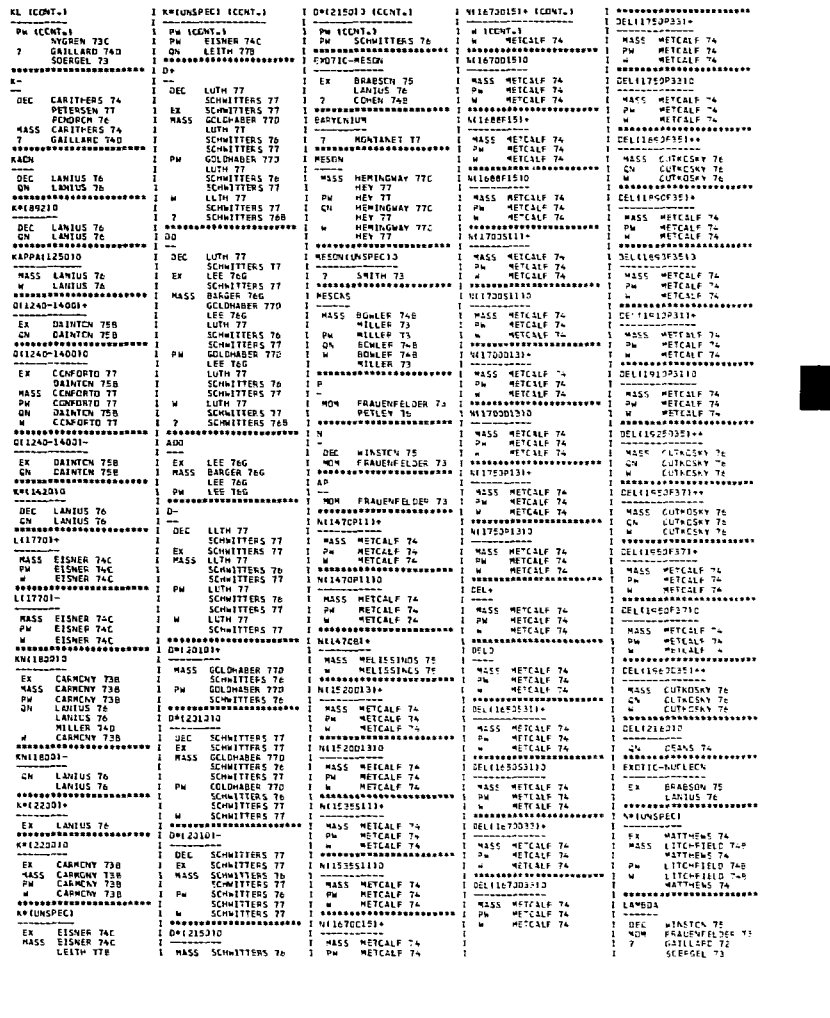

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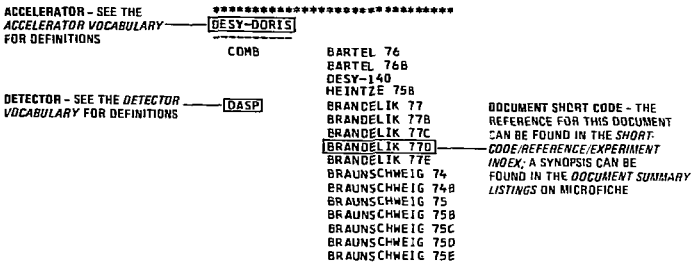

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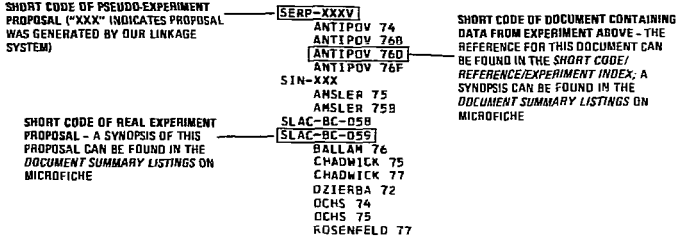

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ELLIOTT 77
ELLIOTT 77B
SLAC-XXXDD
FIRESTONE 70
FIRESTONE 70B
FIRESTONE 71
FIRESTONE 71B
FIRESTONE 71C
FIRESTONE 72
FIRESTONE 72B
LISSAUER 71
SLAC-XXXDE
DULUDE 75
PALER 70D
SLAC-XXXDL
BALLAM 72
BALLAM 73
BALLAM 73C
BINGHAM 70C
KCGAN 76
MCFFEIT 70
MOFFEIT 71
MOFFEIT 72
PGODLSKY 71
SLAC-XXXDQ
BOYARSKI 71D
QUINN 73
QUINN 75
SWERDEN 73
SLAC-XXXF
BRANDENBURG 75
CARNEGIE 75C
CARNEGIE 75D
SLAC-XXXG
ATWOOD 75C
BLOOM 73
COTTRELL 75
STEIN 75
SLAC-XXXH
EISENBERG 73
EISENBERG 74
EISENBERG 74B
KARSHON 74
KARSHEN 74B
LYONS 75
SLAC-XXXL
ANDERSON 71B
ANDERSON 71D

SLAC-XXXM
ALSTONGARNJO 70
ALSTONGARNJO 71
ALSTONGARNJO 71B
ALSTONGARNJO 72
BUHL 73
CHEW 74E
CHUNG 73B
CHUNG 75B
CHUNG 75D
CHUNG 75F
EISNER 75
FLATTE 71
FLATTE 71B
FLATTE 72B
MICHAEL 75C
OTT 72B
OWENS 75
PAOTOPOPESCU 73
TABAK 74
TABAK 75
WAGNER 74B
WAGNER 75
SLAC-YYXP
BRANDENBURG 72
BRANDENBURG 72B
BRANDENBURG 73B
BRANDENBURG 74
BRODY 71
JOHNSON 71
YAMARTINO 74
YAMARTINO 74B
SLAC-XXXQ
CRENNELL 71
CRENNELL 71B
CRENNELL 72B
DAVIDSON 74B
GORDON 74B
SLAC-XXXT
BAILLON 71
BAILLON 72
BULOS 71B
BULOS 71C
BULOS 71E
LEITH 72D
RATCLIFF 71
RATCLIFF 72
WILLIAMS 72B
SLAC-XXXU
CHIEN 75
CHIEN 75B
SLAC-XXXY
DAKIN 75
DAKIN 75B
TOKY-XXXC
BABA 75
NOGUCHI 75
TOKY-XXXD
FELLER 74
FELLER 74B
TOKY-XXXG
FELLER 76
FELLER 76B
YERE-XXX
ABRAHAMIAN 73
ABRAHAMIAN 73B
YERE-XXXC
ABRAHAMIAN 74
ABRAHAMYAN 72
YERE-XXXF
ALANAKIAN 75
ALANAKIAN 76
AMARIAN 76
AMARIAN 76B
YERE-XXXH
ALANAKIAN 77
ALANAKIAN 77B

PART III
VOCABULARIES

PARTICLE VOCABULARY

1) Discussion

There are about 2000 distinct particle names in the vocabulary, counting all charge states. We provide lists of names ordered both by particle type and also alphabetically.

Particle-type order is as follows: photon, leptons, non-strange mesons, strange mesons, charmed mesons, a few generic mesons, baryons in the order S=0, −1, −2, −3, +1, S≠0, some special baryons, nuclei, and finally, some other special particles, such as .GT.2PRONG. Within each category, particles are ordered by increasing mass.

Most particle names are as used in the Review of Particle Properties (Phys. Letters 75B, No. 1, April 1978) and require no special explanation. For baryon names, we have a convention: NAME (MASS I ISPIN 2*I)CHARGE, where "ISPIN" is equal to 1 for integral isospin and 2*I otherwise, e.g., DEL(1688F31)++; If some of the quantum numbers are uncertain, a D (for bump) may follow the MASS, e.g., DEL(1700D)++. Mesons are given their vernacular names. If the particle has only a neutral state (e.g., LAMBDA) or the charge is unspecified (e.g., PION) no charge is given. We do not list most antiparticles here. The antiparticles of all baryons, neutral leptons, and neutral strange or charmed mesons are formed by prefixing the particle name with an "A". The charge is that of the antiparticle, so that, for example, AXI+ is the antiparticle for XI−.

If there is more than one occurrence of a particle in a final state, the number of occurrences is prefixed to the particle name (e.g., 2PI+). Where the exact number of such particles is unknown, but a lower limit to the number is given, our convention, illustrated for π^0s, is as follows: P(0S) means "0 or more π^0s"; P(0S), "1 or more π^0s"; P(0S, "2 or more π^0s". For prongs the convention to describe topological reactions with bounds on the number of prongs is, e.g., .LT.3PRONGS, meaning 0, 1, or 2 prongs.

Some "particle" names are used as shorthand to refer collectively to a large number of reactions; for example, N(PI+), meaning the "number of π^+s", is used where the multiplicity distribution of π^+s has been measured. ANYTHING is used to mean "the particles listed plus anthing else"; for example, PI+ ANYTHING refers to inclusive π^+ channels; 3PRONG ANYTHING, to all 3-prong semi-inclusive channels; and just ANYTHING in the final state, to total cross-section measurements.

The special "particles" DD and NON-RES are accompanied, when written in reactions, by angular brackets containing the diffractively dissociated or non-resonant final states. For example, PI+ P --> P DD <2PI+ PI-> means that the PI+ beam dissociates diffractively into 2PI+ PI-; PI+ P --> NON-RES <P 2PI+ PI-> indicates the non-resonant part of the reaction PI+ P --> P 2PI+ PI-.

2) Ambiguities

There are ambiguities in our particle names, especially for generic names. For example, STRANGED and VEE can be ambiguous; in principle, the first refers to neutral strange particles, detected or not, while the second refers only to those detected as vee decays in track-sensitive detectors. Some ambiguities are historical in origin, caused by changes in nomenclature as particle properties become better determined. For example, the early searches for heavy leptons were encoded using the generic name HVY-LEPTON, but some recent papers are encoded using TAU; what one paper refers to as DEL(1880B)+ might be referred to in other papers as DEL(1885F35)+, and so on. Ambiguous names usually appear close together in the type-ordered vocabulary list, and it is suggested that this list be consulted if an ambiguity could exist.

PARTICLE VOCABULARY – ORDERED BY PARTICLE TYPE

GAMMA	
OGAMMA	C= SPECIAL REACTIONS WITH NOT ALL PARTICLES SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT OF NOTING NO GAMMAS WERE PRODUCED, E.G. PI- P --> ANYTHING OGAMMA, USE ONLY IN RARE CASES
N(GAMMA)	C= GAMMA MULTIPLICITY, USE WITH D=-MULT ONLY
GAMMAS	C= TWO OR MORE GAMMAS
GAMMA(S)	C= ONE OR MORE GAMMAS
(GAMMAS)	C= ZERO OR MORE GAMMAS
NU	
NU-UNSPEC	C= NEUTRINO OF UNSPECIFIED PARTICLE OR ANTI-PARTICLE TYPE
NUE	
NUMU	
NUTAU	C= NEUTRINO ASSOCIATED WITH TAU-
(LEPTONS)	C= ZERO OR MORE UNSPECIFIED LEPTONS
LEPTON(S)	C= ONE OR MORE LEPTONS
LEPTONS	C= 2 OR MORE LEPTONS
N(LEPTON)	C= LEPTON MULTIPLICITY, USE WITH D=-MULT ONLY
E-	C= ELECTRON
E+	C= POSITRON
E+-	C= ELECTRON OR POSITRON
(ELECTRONS)	C= ZERO OR MORE ELECTRONS
ELECTRON(S)	C= ONE OR MORE ELECTRONS
ELECTRONS	C= TWO OR MORE ELECTRONS
N(ELECTRON)	C= FOR MULT DIST OF ELECTRONS
(MUON)	C= EITHER ZERO OR ONE MUON
(MUONS)	C= ZERO OR MORE MUONS
MUON(S)	C= ONE OR MORE MUONS
MUONS	C= TWO OR MORE MUONS
MU-	MU+
N(MUON)	C= MUON MULTIPLICITY, USE WITH D=-MULT ONLY
MUON	C= GENERIC PARTICLE, USED FOR REVIEW ARTICLES
N(NU)	C= NEUTRINO MULTIPLICITY, USE WITH D=-MULT ONLY
NUS	C= TWO OR MORE UNSPECIFIED NEUTRINOS
NU(S)	C= ONE OR MORE UNSPECIFIED NEUTRINOS
(NUS)	C= ZERO OR MORE UNSPECIFIED NEUTRINOS
HVY-LEPTOND	C= HEAVY LEPTON
HVY-LEPTON-	C= HEAVY LEPTON
HVY-LEPTON+	C= HEAVY LEPTON
HVY-LEPTON	C= GENERAL HEAVY LEPTON
LEPTON	C= UNSPECIFIED LEPTON
TAU-	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV, ENCODED AS HVY-LEPTON PRIOR TO NOV 1977
TAU+	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV, ENCODED AS HVY-LEPTON PRIOR TO NOV 1977
TAU	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV

(PIONS)	C= ZERO OR MORE PIONS
PION(S)	C= ONE OR MORE PIONS
PIONS	C= TWO OR MORE PIONS
N(PION)	C= PION MULTIPLICITY, USE WITH DD=MULT ONLY
PION	C= EXACTLY ONE PION OF UNSPECIFIED CHARGE
(PI+S)	C= ZERO OR MORE PI+S
(PI0S)	C= 0 OR MORE PI0S
(PI-S)	C= ZERO OR MORE PI-S
PI+(S)	C= ONE OR MORE PI+S
PI0(S)	C= 1 OR MORE PI0S
PI-(S)	C= ONE OR MORE PI-S
PI+S	C= TWO OR MORE PI+S
PI0S	C= 2 OR MORE PI0S
PI-S	C= TWO OR MORE PI-S
N(PI+)	C= USED FOR MULTIPLICITY DISTRIBUTION OF PI+. USE ONLY WITH DD=MULT
N(PI0)	C= PI0 MULTIPLICITY, USE WITH DD=MULT ONLY
N(PI-)	C= USED FOR MULTIPLICITY DISTRIBUTION OF PI-. USE ONLY WITH DD=MULT
PI+	PI0 PI-
ETA	
EPSILON(700)	C= PIPI S-WAVE (NEAR 700 MEV)
H(RHO0)	C= RHO0 MULTIPLICITY, USE WITH DD=MULT ONLY
N(RHO)	C= MULTIPLICITY OF RHO MESONS OF UNSPECIFIED CHARGE, USE WITH DD=MULT ONLY
RHO+	RHO0 RHO-
OMEGA	C= MESON RESONANCE
M(940)	C= NON-STRANGE, I=0 MESON RESONANCE
M(953)	C= NON-STRANGE, I=0 MESON RESONANCE
ETAPRIME	
K(960)	C= NON-STRANGE MESON BUMP
DELTA(970)+	DELTA(970)0 DELTA(970)-
H(990)	
S+(993)	C= PIPI OR KKBAR S-WAVE
PHI	
M(1033)	C= NON-STRANGE, I=0 MESON RESONANCE
D(1040)+	D(1040)0 D-(1040)-
ETA(1080)	
A1(1100)+	A1(1100)0 A1(1100)-
Y(1130)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
M(1150)	C= NON-STRANGE, I=0 MESON RESONANCE
OMEGAPI(1160)+	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1160)0	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1160)-	C= REPORTED MESON STATE DECAYING TO OMEGA PI
A1.5(1170)+	A1.5(1170)0 A1.5(1170)-
EPSILON(1200)	C= PIPI S-WAVE (NEAR 1200 MEV)
B(1235)+	B(1235)0 B(1235)-
DELTA(1250)+	DELTA(1250)0 DELTA(1250)-
OMEGAPI(1240)+	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1240)0	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1240)-	C= REPORTED MESON STATE DECAYING TO OMEGA PI
RHOPRIME(1250)+	RHOPRIME(1250)0 RHOPRIME(1250)-
S(1255)+	C= I=1, S-WAVE K-AN ENHANCEMENT
S(1255)0	C= I=1, S-WAVE K-AN ENHANCEMENT
S(1255)-	C= I=1, S-WAVE K-AN ENHANCEMENT
N(F)	C= F MESON MULTIPLICITY, USE WITH DD=MULT ONLY
F	C= F(1270) MESON RESONANCE
D(1285)	
A2(1310)+	A2(1310)0 A2(1310)-
V(1370)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
E(1420)	
XO(1430)	
X1(1440)+	X1(1440)0 X1(1440)-
FPRIME	
F1(1540)+	F1(1540)0 F1(1540)-
RHOPRIME(1550)+	RHOPRIME(1550)0 RHOPRIME(1550)-
V(1550)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION

PARTICLE VOCABULARY – ORDERED BY PARTICLE TYPE (CONT'D)

RHOPRIME(1600)+	RHOPRIME(1600)0 RHOPRIME(1600)-
A3(1640)+	A3(1640)0 A3(1640)-
OMEGA(1675)	C= MESON RESONANCE
G(1680)+	G(1680)0 G(1680)-
X(1690)0	
X(1750)-	C= I=1=1 MESON DECAYING INTO 3PI
V(1750)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
V(1765)0	C= STATE SEEN IN E+E- ANNIH
V(1780)0	
A5(1790)+	A5(1790)- A5(1790)0
ANN(1794)0	C= NARROW N AN STATE
X1(1795)+	X1(1795)0 X1(1795)-
APRIME1(1800)+	C= 3PI STATE
APRIME1(1800)0	C= 3PI STATE
APRIME1(1800)-	C= 3PI STATE
V(1820)0	C= STATE SEEN IN E+E- ANNIH
V(1840)0	C= STATE SEEN IN E+E- ANNIH
ANN(1873)0	C= NARROW N AN STATE
ANN(1900)0	C= NARROW N AN STATE
A4(1900)+	A4(1900)0 A4(1900)-
ANN(1900)+	C= RESONANCE SEEN IN N NBAR
ANN(1900)0	C= RESONANCE SEEN IN N NBAR
ANN(1900)-	C= RESONANCE SEEN IN NBAR
H(1920)0	C= G+ MESON
S(1930)+	S(1930)0 S(1930)-
ANN(1935)0	C= NARROW N AN STATE
ANN(1935)+	ANN(1935)-
ANN(1960)0	C= NARROW N AN STATE
MESON(1970)+	C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
MESON(1970)0	C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
MESON(1970)-	C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
ANN(2020)0	C= VERY NARROW P BAR P BAR RESONANCE
H(2040)	C= I=0, JP=4+ MESON RESONANCE
RHO(2100)+	RHO(2100)0 RHO(2100)-
MESON(2190)+	C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
MESON(2190)0	C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
MESON(2190)-	C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
T(2200)+	T(2200)0 T(2200)-
ANN(2200)0	C= VERY NARROW P BAR P BAR RESONANCE
A4(2200)+	A4(2200)0 A4(2200)-
RHO(2275)+	RHO(2275)0 RHO(2275)-
S(2340)+	S(2340)0 S(2340)-
U(2360)+	U(2360)0 U(2360)-
ANN(2370)0	
NANO(2375)	C= NUCLEUS-ANTINUCLEON I=0 BUMP
X(2500-3600)	C= MASS REGION SEEN IN PRODUCTION EXPERIMENTS IN ... (PSI, ETC.)
ANN(2610)0	
X(2750)0	C= SEEN IN E+ E- ANNIHILATIONS
X(2830)	C= I=0- CHARMONIUM STATE
MESON(2850)+	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(2850)0	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(2850)-	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(2950)+	C= BUMP SEEN IN P AP PI-
MESON(2950)0	C= BUMP SEEN IN P AP PI-
MESON(2950)-	C= BUMP SEEN IN P AP PI-
MESON(2950)	C= BUMP SEEN IN P AP PI-
MESON(3050)+	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(3050)0	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(3050)-	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
J/PSI(3100)0	
MESON(3270)0	C= NEW POSSIBLE PARTICLE OBSERVED IN E+ E- --> MU+ MU- 2CAMMA AS A BUMP IN 2CAMMA MASS REPORTED IN SLAC-PUB-1644

PC(3300-3500)0	C=	GENERIC NAME FOR EITHER MESON(3500) OR MESON(3270) (Q.V.)
CHI(3415)		
CHI(3450)0	C=	RADIATIVE DECAY PRODUCT OF PSI(3700)
MESON(3500)0	C=	NEW POSSIBLE PARTICLE OBSERVED IN E+ E- ---> MU+ MU- 2GAMMA AS A BUMP IN 2GAMMA MASS REPORTED IN SLAC-PUB-1644
MESON(3520)0	C=	OBSERVED IN E+ E- 2GAMMA FINAL STATE IN WHICH 2GAMMA HAS A BUMP AT 160 MEV, SEE R=DESY-75-20 FOR DETAIL
CHI(3500)	C=	RADIATIVE DECAY OF PSI(3700)
CHI(3550)	C=	RADIATIVE DECAY OF PSI(3700)
PSI(3700)0		
PSI(3772)0		
PSI(4030)0		
PSI(4100)0		
PSI(4400)0		
UPSI(5970)0	C=	LEDERMANS UPSILON TO E+ E-
UPSI(UNSPEC)	C=	UNSPECIFIED UPSILON PARTICLE
UPSI(9410)0	C=	UPSILON(9410)
UPSI(9500)0	C=	UPSILON(9500)
UPSI(10010)0	C=	UPSILON(10010)
UPSI(10060)0	C=	UPSILON(10060)
CHI(UNSPEC)0	C=	UNSPECIFIED RADIATIVE DECAY PRODUCT OF PSI(3700)
CHI(UNSPEC)	C=	UNSPECIFIED RADIATIVE DECAY PRODUCT OF PSI(3700)
ETA/C	C=	JP=0- CHARMONIUM STATE
RHOPI(521)++	C=	A RHO PI RESONANCE
RHOPI(521)--	C=	A RHO PI RESONANCE
PIPI(520)++	PIPI(520)—	
PIPI(S-WAVE)0		
PIPI(I=0)	C=	PI PI ISOSPIN 0 STATE
PIPI(I=1)	C=	PI PI ISOSPIN 1 STATE
PIPI(I=2)	C=	PI PI ISOSPIN 2 STATE
ANN(I=0)	C=	ANTI-NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
ANN(I=1)	C=	ANTI-NUCLEON NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE), DO NOT USE FOR THE SINGLE PHYSICAL STATE (AP N)
PHIPRIME	C=	UNSPECIFIED RECURRENCE OF THE PHI
VMESON0	C=	VECTOR MESON OF UNSPECIFIED MASS
VMESON	C=	VECTOR MESON OF UNSPECIFIED MASS, CHARGE
KKBAR	C=	UNSPECIFIED KKBAR COMBINATIONS
ANNIHIL	C=	PURE ANNIHILATION FINAL STATE IN NUCLEON-ANTI-NUCLEON SCATTERING
K5(S)	C=	ONE OR MORE K0 SHORTS
K+(S)	C=	ONE OR MORE K+
K-(S)	C=	ONE OR MORE K-
N(K+)	C=	USED FOR MULT DIST OF K+
N(K0)	C=	A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF K0S. USE ONLY WITH DO=MULT
N(KS)	C=	USED FOR MULT DIST OF KS
N(KL)	C=	USED FOR MULT DIST OF KL
N(K-)	C=	USED FOR MULTIPLICITY DISTRIBUTION OF K-. USE ONLY WITH DO=MULT.
(KAONS)	C=	ZERO OR MORE UNSPEC KAONS
KAON(S)	C=	ONE OR MORE UNSPEC KAONS
KAONS	C=	TWO OR MORE UNSPEC KAONS
N(KAON)	C=	FOR MULT DIST OF UNSPEC KAONS
K+	K0	
KS	C=	K SHORT
KL	C=	K LONG
K-		
KAON	C=	EXACTLY ONE KAON OR AKAON OF UNSPECIFIED CHARGE
N(K*(892)+)	C=	MULTIPLICITY DISTRIBUTION FOR K*(892)+. USE ONLY WITH DO=MULT
N(K*(892)0)	C=	MULTIPLICITY DISTRIBUTION FOR K*(892)0. USE ONLY WITH DO=MULT

PARTICLE VOCABULARY - ORDERED BY PARTICLE TYPE (CONT'D)

N(K*(892)-)	C=	MULTIPLICITY DISTRIBUTION FOR K*(892)-. USE ONLY WITH DO=MULT
K*(892)+	K*(892)0	
K*(892)-		
K*	C=	K*(892) OF UNSPECIFIED CHARGE
KAPPA(1250)+	C=	KPI S-WAVE
KAPPA(1250)0	C=	KPI S-WAVE
KAPPA(1250)-	C=	KPI S-WAVE
K*(1225)+	K*(1225)0	
K*(1225)-		
QLOW(1240)+	QLOW(1240)0	QLOW(1240)
QLOW(1240)-		
Q(1240-1400)+	Q(1240-1400)0	
Q(1240-1400)-		
QHIGH(1340)+	QHIGH(1340)0	QHIGH(1340)
QHIGH(1340)-		
KPRIME(1400)+	C=	JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY INTO EPSILON K0
KPRIME(1400)0	C=	JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY TO EPSILON K0
KPRIME(1400)-	C=	JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY INTO EPSILON K0
N(K*(1420)+)	C=	MULTIPLICITY DISTRIBUTION FOR K*(1420)+. USE ONLY WITH DO=MULT
N(K*(1420)0)	C=	MULTIPLICITY DISTRIBUTION FOR K*(1420)0. USE ONLY WITH DO=MULT
N(K*(1420)-)	C=	MULTIPLICITY DISTRIBUTION FOR K*(1420)-. USE ONLY WITH DO=MULT
K*(1420)+	K*(1420)0	
K*(1420)-		
K*(1450)+	C=	CLAIMED DIFFERENT THAN K*(1420)
K*(1450)0	C=	CLAIMED DIFFERENT THAN K*(1420)
K*(1450)-	C=	CLAIMED DIFFERENT THAN K*(1420)
KN(1700)+	C=	POSSIBLE K- OMEGA STATE
KN(1700)0	C=	POSSIBLE K- OMEGA STATE
KN(1700)-	C=	POSSIBLE K- OMEGA STATE
L(1770)+	L(1770)0	
L(1770)-		
K*(1780)+	K*(1780)0	
K*(1780)-		
KN(1800)+	KN(1800)0	KN(1800)-
K*(2200)+	K*(2200)0	
K*(2200)-		
I(2600)+	C=	NEW, POSSIBLY CHARMED MESON IN AP P ---> 4PI K + X
I(2600)-	C=	NEW, POSSIBLY CHARMED MESON IN AP P ---> 4PI K + X
I(2600)		
K*(2800)+	K*(2600)0	
K*(2800)-		
KPI(530)++	C=	K PI S-WAVE STATE (EXOTIC)
KPI(I=1/2)	C=	THE I=1/2 KPI STATE
KPI(I=3/2)	C=	THE I=3/2 KPI STATE
K*(UNSPEC)+	C=	FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)0	C=	FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)	C=	FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)-	C=	FOR USE IN PROP, RVUE, COMP
K*PI(I=1/2)	C=	USED FOR I=1/2 SUM OF K* PI STATES
K*PI(I=3/2)	C=	USED FOR I=3/2 SUM OF K* PI STATES
D+	C=	CHARMED PARTICLE CANDIDATE
D0	C=	CHARMED PARTICLE CANDIDATE
D-	C=	CHARMED PARTICLE CANDIDATE
D*(2010)+	C=	CHARMED PARTICLE CANDIDATE
D*(2010)0	C=	CHARMED PARTICLE CANDIDATE
D*(2010)-	C=	CHARMED PARTICLE CANDIDATE
F+	C=	CHARMED STRANGE GROUND STATE MESON
F-	C=	CHARMED STRANGE GROUND STATE MESON

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F-(2140)+          C= FIRST EXCITED CHARMED STRANGE MESON
F*(2140)-          C= FIRST EXCITED CHARMED STRANGE MESON
D*(2150)0          C= CHARMED PARTICLE CANDIDATE
D*(2300)0          C= CHARMED MESON, SEE ABOLINS 760
EXOTIC-MESON       C= CANNOT BE FORMED OF QUARK-ANTI-QUARK
BARYONIUM          C= MESONS THAT COUPLE PROMINENTLY TO
                      BARYON-ANTIBARYON
MESON              C= SINGLE MESON OF UNSPEC TYPE
MESON(UNSPEC)+     C= CHG +1 MESON OF UNSPEC MASS
MESON(UNSPEC)0     C= CHG ZERO MESON OF UNSPEC MASS
MESON(UNSPEC)-     C= CHG -1 MESON OF UNSPEC MASS
N(MESON)           C= USED FOR MULTIPLICITY DISTRIBUTION OF MESON.
                      DO=MULT ONLY
MESONS             C= TWO OR MORE MESONS
MESON(S)           C= ONE OR MORE MESONS
(MESONS)           C= ZERO OR MORE MESONS
P(SPECT)           C= SPECTATOR PROTON
N(SPECT)           C= SPECTATOR NEUTRON (NOT NUMBER OF SPECTATORS)
OP                 C= SPECIAL REACTIONS WITH NOT ALL PARTICLES
                      SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT
                      OF NOTING NO PROTONS WERE PRODUCED, E.G. PI- P
                      --> ANYTHING OP, USE ONLY IN RARE CASES

P
N                  C= NEUTRON
N(P)               C= PROTON MULTIPLICITY DISTRIBUTION, USE WITH
                      DO=MULT ONLY
N(N)               C= USED FOR MULTIPLICITY DISTRIBUTION OF N.  USE
                      ONLY WITH DO=MULT.
PROTONS            C= TWO OR MORE PROTONS
NEUTRONS           C= TWO OR MORE NEUTRONS
PROTON(S)          C= ONE OR MORE PROTONS
NEUTRON(S)         C= ONE OR MORE NEUTRONS
(P)                C= ZERO OR MORE PROTONS
(N)                C= ZERO OR MORE NEUTRONS
NUCLEON
ANUCLEON           C= ANTI-NUCLEON
N(NUCLEON)         C= FOR MULT DIST OF UNSPEC NUCLEONS
NUCLEONS           C= TWO OR MORE UNSPEC NUCLEONS
NUCLEON(S)         C= ONE OR MORE UNSPEC NUCLEONS
(NUCLEONS)         C= ZERO OR MORE UNSPEC NUCLEONS
N(1250)+           C= SEE BERLAD 74
N(1250)0           C= SEE BERLAD 74
N(1350)+           N(1350)0
N(1470P11)+        N(1470P11)0
N(1470B)+          N(1470B)0
N(1520D13)+        N(1520D13)0
N(1520D)+          N(1520D)0
N(1535S11)+        N(1535S11)0
N(1590B)+          N(1590B)0
N(1670D15)+        N(1670D15)0
N(1685F15)+        N(1685F15)0
N(1700S11)+        N(1700S11)0
N(1700D13)+        N(1700D13)0
N(1700B)+          N(1700B)0
N(1750P13)+        C= SEE METCALF 74
N(1750P11)0        C= SEE METCALF 74
N(1780P11)+        N(1780P11)0
N(1810P13)+        N(1810P13)0
N(1860)+           N(1860)0
N(1920B)+          N(1920B)0
N(1990F17)+        N(1990F17)0
N(2000F15)+        N(2000F15)0
N(2040D13)+        N(2040D13)0
N(2100D15)+        N(2100D15)0
N(2100S11)+        N(2100S11)0
N(2190G17)+        N(2190G17)0
N(2190B)+          N(2190B)0
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N(2220H19)+        N(2220H19)0
N(2650B)+          N(2650B)0
N(3030B)+          N(3030D)0
N(3245B)+          N(3245D)0
N(3690B)+          N(3690B)0
N(3755B)+          N(3755B)0
KSIC(I=1/2)        C= I=1/2 K SIGMA SYSTEM OF UNSPECIFIED MASS,
                      STRANGENESS FOR PWA
PIDEL(I=1/2)       C= PI DELTA I=1/2 FINAL STATE
NEPSILON(I=1/2)    C= NUCLEON EPSILON I=1/2 FINAL STATE
NRHO(I=1/2)        C= NUCLEON RHO I=1/2 FINAL STATE
PIN(I=1/2)         C= PI NUCLEON I=1/2 INITIAL STATE (AND ELASTIC
                      FINAL STATE)
N(UNSPEC)+         C= I=1/2, Y=1 BARYON OF UNSPEC MASS
N(UNSPEC)0         C= I=1/2, Y=1 BARYON OF UNSPEC MASS
N(UNSPEC)          C= I=1/2, Y=1 BARYON OF UNSPECIFIED MASS
DEL++              C= DEL(1232P33)++
DEL+               C= DEL(1232P33)+
DEL0               C= DEL(1232P33)0
DEL-               C= DEL(1232P33)-
DEL[1650S31)++     DEL[1650S31)+      DEL[1650S31)0      DEL[1650S31)-
DEL[1670D33)++     DEL[1670D33)+      DEL[1670D33)0      DEL[1670D33)-
DEL[1690P33)++     DEL[1690P33)+      DEL[1690P33)0      DEL[1690P33)-
DEL[1640B)++       DEL[1640B)+        DEL[1640B)0        DEL[1640B)-
DEL[1750P33)++     C= SEE METCALF 74
DEL[1750P33)+      C= SEE METCALF 74
DEL[1750P33)0      C= SEE METCALF 74
DEL[1750P33)-      C= SEE METCALF 74
DEL[1860P31)++     DEL[1860P31)+      DEL[1860P31)0      DEL[1860P31)-
DEL[1880B)++       C= BUMP IN PRODUCTION EXPERIMENT
DEL[1880B)+        C= BUMP IN PRODUCTION EXPERIMENT
DEL[1880B)0        C= BUMP IN PRODUCTION EXPERIMENT
DEL[1880B)-        C= BUMP IN PRODUCTION EXPERIMENT
DEL[1885F35)++     DEL[1885F35)+      DEL[1885F35)0      DEL[1885F35)-
DEL[1890F35)++     DEL[1890F35)+      DEL[1890F35)0      DEL[1890F35)-
DEL[1900S31)++     DEL[1900S31)+      DEL[1900S31)0      DEL[1900S31)-
DEL[1910P31)++     DEL[1910P31)+      DEL[1910P31)0      DEL[1910P31)-
DEL[1925D35)++     DEL[1925D35)+      DEL[1925D35)0      DEL[1925D35)-
DEL[1940P33)++     DEL[1940P33)+      DEL[1940P33)0      DEL[1940P33)-
DEL[1940P31)++     DEL[1940P31)+      DEL[1940P31)0      DEL[1940P31)-
DEL[1950F37)++     DEL[1950F37)+      DEL[1950F37)0      DEL[1950F37)-
DEL[1950B)++       DEL[1950B)+        DEL[1950B)0        DEL[1950B)-
DEL[1960D35)++     DEL[1960D35)+      DEL[1960D35)0      DEL[1960D35)-
DEL[1960P31)++     DEL[1960P31)+      DEL[1960P31)0      DEL[1960P31)-
DEL[2000P33)++     DEL[2000P33)+      DEL[2000P33)0      DEL[2000P33)-
DEL[2020B)++       DEL[2020B)+        DEL[2020B)0        DEL[2020B)-
DEL[2160)++        DEL[2160)+         DEL[2160)0         DEL[2160)-
DEL[2200D35)++     C= SEE MA 74C
DEL[2200D35)+      C= SEE MA 74C
DEL[2200D35)0      C= SEE MA 74C
DEL[2200D35)-      C= SEE MA 74C
DEL[2420H311)++    DEL[2420H311)+     DEL[2420H311)0     DEL[2420H311)-
DEL[2420B)++       DEL[2420B)+        DEL[2420B)0        DEL[2420B)-
DEL[2850D)++       DEL[2850B)+        DEL[2850B)0        DEL[2850B)-
DEL[3230B)++       DEL[3230B)+        DEL[3230B)0        DEL[3230B)-
KSIG(I=3/2)        C= I=3/2 K SIGMA SYSTEM OF UNSPECIFIED MASS,
                      STRANGENESS FOR PWA
PIDEL(I=3/2)       C= PI DELTA I=3/2 FINAL STATE
NRHO(I=3/2)        C= NUCLEON RHO I=3/2 FINAL STATE
PIN(I=3/2)         C= PI NUCLEON I=3/2 INITIAL STATE (AND ELASTIC
                      FINAL STATE).  DO NOT USE FOR THE SINGLE
                      PHYSICAL STATES (PI+ P) OR (PI- N)
DEL(UNSPEC)++      C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY
                      IN PROP, RVUE, COMP
DEL(UNSPEC)+       C= I=3/2 BARYON OF UNSPECIFIED MASS  USE PRIMARILY
                      IN PROP, RVUE, COMP
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DEL(UNSPEC)0          C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY
                         IN PROP, RVUE, COMP
DEL(UNSPEC)-          C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY
                         IN PROP, RVUE, COMP
EX(1640)+++           C= I=5/2 NON-STRANGE BARYON (EXOTIC)
EX(1640)++            C= I=5/2 NON-STRANGE BARYON (EXOTIC)
EX(1640)+             C= I=5/2 NON-STRANGE BARYON (EXOTIC)
EX(1640)0             C= I=5/2 NON-STRANGE BARYON (EXOTIC)
EX(1640)-             C= I=5/2 NON-STRANGE BARYON (EXOTIC)
EX(1640)--            C= I=5/2 NON-STRANGE BARYON (EXOTIC)
N*5/2(UNSPEC)+++      C= I=5/2, Y=1 BARYON OF UNSPEC MASS, FOR USE
                         PRINCIPALLY IN PROP, RVUE, COMP
N*5/2(UNSPEC)         C= I=5/2, Y=1 BARYON OF UNSPEC MASS AND CHG
EXOTIC-NUCLEON        C= CANNOT BE FORMED OF QQQ
N*(UNSPEC)+           C= I UNSPECIFIED, Y=1 BARYON OF UNSPEC MASS
N*(UNSPEC)0           C= I UNSPECIFIED, Y=1 BARYON OF UNSPEC MASS
N*(UNSPEC)-           C= I UNSPEC, MASS UNSPEC, Y=1 BARYON
N*(UNSPEC)            C= S=0 BARYON OF UNSPEC MASS, ISOSPIN, FOR USE IN
                         PROP, RVUE, COMP
LAMBDA
N(LAMDDA)             C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS
                         OF LAMBDAS.  USE ONLY W ITH DD=MULT
LAMBDAS               C= TWO OR MORE LAMBDAS
LAMBDA(S)             C= ONE OR MORE LAMBDAS
(LAMBDAS)             C= ZERO OR MORE LAMBDAS
LAM(1330B)            C= BUMP AT 1330 MEV
LAM(1405S01)
LAM(1520D03)
LAM(1600P01)
LAM(1670S01)
LAM(1690D03)
LAM(1730S01)
LAM(1800P01)
LAM(1800G09)
LAM(1815F05)
LAM(1830D05)
LAM(1860P03)
LAM(1870S01)
LAM(2010)
LAM(2020F07)
LAM(2100F07)
LAM(2100G07)
LAM(2100D)            C= BUMP AT 2100 MEV
LAM(2110F05)
LAM(2100F05)
LAM(2340D03)
LAM(2350B)            C= I=0, Y=0 BUMPS
LAM(2360I09)
LAM(2505B)
PISIG(I=0)            C= I=0 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA
PISIG(I=0)            C= I=0 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA
LAM(UNSPEC)           C= I=0, S=-1 BARYON RESONANCE, FOR USE PRIMARILY IN
                         PROP, RVUE, COMP
SIGMA+          SIGMAD      SIGMA-
SIGMA                 C= SIGMA(1190) OF UNSPECIFIED CHARGE
N(SIGMA+)             C= USED FOR MULT DIST OF SIGMA+
N(SIGMAD)             C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS
                         OF SIGMA0S.  USE ONLY W ITH DD=MULT
N(SIGMA-)             C= USED FOR MULT DIST OF SIGMA-
SIG(1385P13)+   SIG(1385P13)0     SIG(1385P13)-
SIG(1440B)+           C= I=1, Y=0 BUMPS
SIG(1440B)0           C= I=1, Y=0 BUMPS
SIG(1440D)-           C= I=1, Y=0 BUMPS
SIG(1480B)+           C= I=1, Y=0 BUMPS
SIG(1480B)0           C= I=1, Y=0 BUMPS
SIG(1480B)-           C= I=1, Y=0 BUMPS
SIG(1580D13)+   SIG(1580D13)0     SIG(1580D13)-
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SIG(1620S11)+   SIG(1620S11)0     SIG(1620S11)-
SIG(1660P11)+   SIG(1660P11)0     SIG(1660P11)-
SIG(1620B)+           C= I=1, Y=0 BUMPS
SIG(1620B)0           C= I=1, Y=0 BUMPS
SIG(1620B)-           C= I=1, Y=0 BUMPS
SIG(1670D13)+   SIG(1670D13)0     SIG(1670D13)-
SIG(1670B)+           C= I=1, Y=0 BUMPS
SIG(1670B)0           C= I=1, Y=0 BUMPS
SIG(1670B)-           C= I=1, Y=0 BUMPS
SIG(1680P11)+   SIG(1680P11)0     SIG(1680P11)-
SIG(1690B)+           C= I=1, Y=0 BUMPS
SIG(1690B)0           C= I=1, Y=0 BUMPS
SIG(1690B)-           C= I=1, Y=0 BUMPS
SIG(1750S11)+   SIG(1750S11)0     SIG(1750S11)-
SIG(1765D15)+   SIG(1765D15)0     SIG(1785D15)-
SIG(1770B)+     SIG(1770B)0       SIG(1770B)-
SIG(1770P11)+   SIG(1770P11)0     SIG(1770P11)-
SIG(1840P13)+   SIG(1840P13)0     SIG(1840P13)-
SIG(1880P11)+   SIG(1880P11)0     SIG(1880P11)-
SIG(1900S11)+   SIG(1900S11)0     SIG(1900S11)-
SIG(1915F15)+   SIG(1915F15)0     SIG(1915F15)-
SIG(1915B)+           C= I=1, Y=0 BUMPS
SIG(1915B)0           C= I=1, Y=0 BUMPS
SIG(1915B)-           C= I=1, Y=0 BUMPS
SIG(1920P13)+   SIG(1920P13)0     SIG(1920P13)-
SIG(1940D13)+   SIG(1940D13)0     SIG(1940D13)-
SIG(2000S11)+   SIG(2000S11)0     SIG(2000S11)-
SIG(2030F17)+   SIG(2030F17)0     SIG(2030F17)-
SIG(2030B)+           C= I=1, Y=0 BUMPS
SIG(2030B)0           C= I=1, Y=0 BUMPS
SIG(2030B)-           C= I=1, Y=0 BUMPS
SIG(2070F15)+   SIG(2070F15)0     SIG(2070F15)-
SIG(2080P13)+   SIG(2080P13)0     SIG(2080P13)-
SIG(2100G17)+   SIG(2100G17)0     SIG(2100G17)-
SIG(2140P13)+   SIG(2140P13)0     SIG(2140P13)-
SIG(2210H11)+   SIG(2210H11)0     SIG(2210H11)-
SIG(2215G19)+   SIG(2215G19)0     SIG(2215G19)-
SIG(2250B)+           C= I=1, Y=0 BUMPS
SIG(2250B)0           C= I=1, Y=0 BUMPS
SIG(2250B)-           C= I=1, Y=0 BUMPS
SIG(2260D15)+   SIG(2260D15)0     SIG(2260D15)-
SIG(2455B)+           C= I=1, Y=0 BUMPS
SIG(2455B)0           C= I=1, Y=0 BUMPS
SIG(2455B)-           C= I=1, Y=0 BUMPS
SIG(2620B)+           C= I=1, Y=0 BUMPS
SIG(2620B)0           C= I=1, Y=0 BUMPS
SIG(2620B)-           C= I=1, Y=0 BUMPS
SIG(3000B)+           C= I=1, Y=0 BUMPS
SIG(3000B)0           C= I=1, Y=0 BUMPS
SIG(3000B)-           C= I=1, Y=0 BUMPS
PISIG(I=1)            C= I=1 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA
PILAM(I=1)            C= I=1 PI LAMBDA SYSTEM OF UNSPEC MASS, FOR PWA
SIG(UNSPEC)+          C= I=1, Y=0 PARTICLE OF UNSPEC MASS
SIG(UNSPEC)0          C= I=1, Y=0 PARTICLE OF UNSPEC MASS
SIG(UNSPEC)-          C= I=1, Y=0 PARTICLE IF UNSPEC MASS
SIG(UNSPEC)           C= I=1, Y=0 PARTICLE OF UNSPEC MASS, CHARGE
Y*2(UNSPEC)++         C= I=2, Y=0 BARYON OF UNSPEC MASS
Y*2(UNSPEC)           C= I=2, Y=0 BARYON OF UNSPEC MASS, CHG
Y*(UNSPEC)+           C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
Y*(UNSPEC)0           C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
Y*(UNSPEC)-           C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
Y*(UNSPEC)            C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
XI0             XI-
XI(1530P13)0    XI(1530P13)-
XI(1630)0       XI(1630)-
XI(1760)0       XI(1760)-
XI(1820)0       XI(1820)-
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XI(1870)0	XI(1870)-
XI(1940)0	XI(1940)-
XI(2030)0	XI(2010)-
XI(2130)0	XI(2130)-
XI(2250)0	XI(2250)-
XI(2400)0	XI(2400)-
XI(2500)0	XI(2500)-
XI(2600)0	XI(2600)-
XI(UNSPEC)0	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(UNSPEC)-	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(UNSPEC)	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)+	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)0	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)-	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)--	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*(UNSPEC)+	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*(UNSPEC)0	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)-	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)--	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)	C= I=UNSPEC, Y=-1 BARYON OF UNSPEC MASS
OMEGA-	C= THE S=-3 BARYON
OMEGA*(UNSPEC)0	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA*(UNSPEC)-	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA*(UNSPEC)--	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA*(UNSPEC)	C= S=-3 BARYON RESONANCE OF UNSPEC I, MASS
HYPERON	C= GENERAL HYPERON
EXOTIC-HYPERON	C= CANNOT BE FORMED OF QUARK-ANTI-QUARK OR QQQ
Z0(1780)+	C= EXOTIC I=0, Y=2 BARYON
Z0(1865)+	C= EXOTIC I=0, Y=2 BARYON
KN(I=0)	C= K NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
Z0(UNSPEC)+	C= EXOTIC I=0, Y=2 BARYON OF UNSPEC MASS
Z0(UNSPEC)	C= EXOTIC I=0, Y=2 BARYON OF UNSPEC MASS
Z1(1900)++	C= EXOTIC I=1, Y=2 BARYON
Z1(1900)+	C= EXOTIC I=1, Y=2 BARYON
Z1(1900)0	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)++	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)+	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)0	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)++	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)+	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)0	C= EXOTIC I=1, Y=2 BARYON
KN(I=1)	C= K NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THIS SINGLE PHYSICAL STATE (K+ P)
Z1(UNSPEC)++	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)+	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)0	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)++	C= EXOTIC Y=2 BARYON OF UNSPEC MASS, I
Z*(UNSPEC)+	C= EXOTIC Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)0	C= EXOTIC Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)	C= EXOTIC I=UNSPEC, Y=2 BARYON OF UNSPEC MASS
LAMBDA/C+	
SIGMA/C(2430)++	C= CHARMED BARYON
SIGMA/C(2430)+	C= CHARMED BARYON
SIGMA/C(2430)0	C= CHARMED BARYON
CHARMED-BARYON	C= CHARMED BARYON OF UNSPECIFIED C, S, I, OR CHARGE
BARYON	C= BARYON OF UNSPEC CHG, S, I, MASS
DEUT	
DEUT**(2500)+	C= LOW MASS D PI PI BUMP
NN(I=0)	C= NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
DEUT*(2170)0	
DEUT*(2170)++	DEUT*(2170)+

NN(I=1)	C= NUCLEON NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATE (P P)
NN(2250)++	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NN(2250)+	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NN(2250)0	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NN(2250)-	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
DIHYPERON(2130)+	C= DI-HYPERON RESONANCE, SEE DOSCH 776
DIHYPERON(2130)0	
HDIBARYON(2130)+	C= REPORTED HYPER-DI BARYON
DIHYPERON	C= DI-HYPERON RESONANCE OF UNSPEC MASS
DIBARYON	C= DI-BARYON RESONANCE OF UNSPEC MASS
SPLIT-DIBARYON	C= BARYON NUMBER TWO STATE
HDIBARYON	C= UNSPECIFIED S=-1,B=2 STATE
HE3	C= HELIUM 3
T	C= TRITIUM NUCLEUS
HE	C= HELIUM-4 NUCLEUS
N(HE)	C= USED FOR MULTIPLICITY DISTRIBUTION OF HELIUM NUCLEI IN FINAL STATE. USE ONLY WITH ID=MULT
HE5	C= TWO OR MORE HE NUCLEI
HE(5)	C= ONE OR MORE HE NUCLEI
(HE)	C= ZERO OR MORE HE NUCLEI
LI	C= LITHIUM NUCLEUS
LI6 LI7	
BE	C= BERYLLIUM NUCLEUS
BOR	C= BORON NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
C	C= CARBON NUCLEUS
C*(4.44)	C= 4.44 KEV EXCITED STATE OF CARBON
C*	C= EXCITED STATE OF CARBON, USE FOR ALL BUT C*(4.44) (D.V.)
C12	C= CARBON-12 NUCLEUS
NIT	C= NITROGEN 14 NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
NI712	C= NITROGEN-12 NUCLEUS
O	C= OXYGEN NUCLEUS
FL	C= FLUORINE NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
NE	C= NEON NUCLEUS
NA	C= SODIUM NUCLEUS
MG	C= MAGNESIUM NUCLEUS
AL	C= ALUMINUM NUCLEUS
SI	C= SILICON NUCLEUS
PH	C= PHOSPHORUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
SU	C= SULFUR NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
CL	C= CHLORINE
CL37	C= CHLORINE 37 NUCLEUS
AR	C= ARGON NUCLEUS -- NOTE NAME IS NOT SAME AS CHEM. SYMBOL
AR37	C= ARGON 37 NUCLEUS
CA	C= CALCIUM NUCLEUS
KK	C= POTASSIUM NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
SC	C= SCANDIUM NUCLEUS
TI	C= TITANIUM NUCLEUS
VA	C= VANADITION NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
CR	C= CHROMIUM NUCLEUS
MN	C= MANGANESE NUCLEUS
FE	C= IRON NUCLEUS
CO	C= COBALT NUCLEUS

PARTICLE VOCABULARY – ORDERED BY PARTICLE TYPE (CONT'D)

NI	C= NICKEL NUCLEUS
CU	C= COPPER NUCLEUS
ZN	C= ZINC NUCLEUS
GA	C= GALLIUM NUCLEUS
GE	C= GERMANIUM NUCLEUS
AS	C= ARSENIC NUCLEUS
SE	C= SELENIUM NUCLEUS
BR	C= BROMINE
KR	C= KRYPTON NUCLEUS
RB	C= RUBIDIUM NUCLEUS
SR	C= STRONTIUM NUCLEUS
Y	C= YTTRIUM NUCLEUS
ZR	C= ZIRCONIUM NUCLEUS
ND	N= NIOBIUM NUCLEUS
MO	C= MOLYBDENUM NUCLEUS
TC	C= TECHNETIUM NUCLEUS
RU	C= RUTHENIUM NUCLEUS
RH	C= RHODIUM NUCLEUS
PD	C= PALLADIUM NUCLEUS
AG	C= SILVER NUCLEUS
CD	C= CADMIUM NUCLEUS
IN	C= IIDIUM NUCLEUS
SN	C= TIN NUCLEUS
SB	C= ANTIMONY NUCLEUS
I	C= IODINE NUCLEUS
TE	C= TELLURIUM NUCLEUS
XE	C= XENON NUCLEUS
CS	C= CESIUM NUCLEUS
BA	C= BARIUM NUCLEUS
LA	C= LANTHANIUM NUCLEUS
CE	C= CERIUM NUCLEUS
PR	C= PRASEODYMIUM NUCLEUS
ND	C= NEODYMIUM NUCLEUS
PM	C= PROMETHIUM NUCLEUS
SM	C= SAMARIUM NUCLEUS
EU	C= EUROPIUM NUCLEUS
GD	C= GADOLINIUM NUCLEUS
TB	C= TERBIUM NUCLEUS
DY	C= DYSPROSIUM NUCLEUS
HO	C= HOLMIUM NUCLEUS
ER	C= ERBIUM NUCLEUS
TM	C= THULIUM NUCLEUS
YB	C= YETTERBIUM NUCLEUS
LU	C= LUTETIUM NUCLEUS
HF	C= HAFNIUM NUCLEUS
TA	C= TANTALUM NUCLEUS
WT	C= TUNGSTEN NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
RE	C= RHENIUM NUCLEUS
OS	C= OSMIUM NUCLEUS
IR	C= IRIDIUM NUCLEUS
PT	C= PLATINUM NUCLEUS
AU	C= GOLD NUCLEUS
HG	C= MERCURY NUCLEUS
TL	C= THALLIUM NUCLEUS
PB	C= LEAD NUCLEUS
BI	C= BISMUTH NUCLEUS
PO	C= POLONIUM NUCLEUS
AST	C= ASTATINE NUCLEUS - NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
RN	C= RADON NUCLEUS
FR	C= FRANCIUM NUCLEUS
RA	C= RADIUM NUCLEUS
AC	C= ACTINIUM NUCLEUS
PA	C= PROTACTINIUM NUCLEUS
TH	C= THORIUM NUCLEUS
NP	C= NEPTUNIUM NUCLEUS

PARTICLE VOCABULARY – ORDERED BY PARTICLE TYPE (CONT'D)

U	C= URANIUM NUCLEUS
PU	C= PLUTONIUM NUCLEUS
NUCLEUS	C= GENERAL NUCLEUS. USE ONLY WHEN THE EXACT NUCLEUS OR NUCLEON IS NOT SPECIFIED. E.G., USE FOR TARGET WHEN DETECTOR IS EMULSION.
SUPERNUCLEUS	C= SUPER HEAVY NUCLEUS
HNUCLEUS	C= HYPER-NUCLEUS
QUARK(2/3)	C= QUARK OF CHARGE 2/3
QUARK(1/3)	C= QUARK OF CHARGE 1/3
QUARK	C= QUARK OF UNSPECIFIED CHARGE
AQUARK	C= ANTI-QUARK
PARTON	C= HYPOTHESIZED PARTICLE
W+	C= INTERMEDIATE VECTOR BOSON
WO	C= INTERMEDIATE VECTOR BOSON
W-	C= INTERMEDIATE VECTOR BOSON
W	C= INTERMEDIATE VECTOR BOSON
S+	C= INTERMEDIATE SCALAR BOSON
SO	C= INTERMEDIATE SCALAR BOSON
S-	C= INTERMEDIATE SCALAR BOSON
S	C= INTERMEDIATE SCALAR BOSON
CHARM	C= CHARMED PARTICLE
TACHYON	
MONOPOLE	C= MAGNETIC MONOPOLE
AXION	C= HYPOTHESIZED LIGHT HIGGS SCALAR BOSON
HIGGS	C= HIGGS BOSON
LONGLIVED	C= STABLE UNDER STRONG OR E- DECAY; MASS AND OTHER Q NUMBERS NOT WELL-DETERMINED
UNSPEC+	C= SAME AS UNSPEC EXCEPT THAT IT HAS CHARGE+
UNSPEC-	C= SAME AS UNSPEC EXCEPT THAT IT HAS CHARGE-
UNSPEC	C= PARTICLE OF UNSPECIFIED TYPE. FOR PARTICLE SEARCH. NORMALLY ITS USE SHOULD BE ACCOMPANIED BY A DATA COMMENT DESCRIBING THE PARTICLE OR SEARCH. USE FOR PARTICLES NOT YET FOUND AND OF UNKNOWN PROPERTIES. PRINCIPALLY FOR USE IN PROP
.GT.9GAMMA	
.GT.8GAMMA	
.GT.7GAMMA	
.GT.6GAMMA	
.GT.5GAMMA	
.GT.4GAMMA	
.GT.3GAMMA	
.GT.2GAMMA	
.GT.1GAMMA	
.LT.36PRONG	
.LT.10PRONG	
.LT.9PRONG	
.LT.8PRONG	
.LT.7PRONG	
.LT.6PRONG	
.LT.5PRONG	
.LT.4PRONG	
.LT.3PRONG	
.LT.2PRONG	
COSMIC	C= COSMIC-RAY PARTICLE OF UNDETERMINED NATURE
SHOWER	C= SHOWER TRACK
FRAGT	C= FRAGMENT OF TARGET
N(FRAGT)	C= USED FOR MULT DIST OF TARGET FRAGMENTS
FRAGB	C= FRAGMENT OF BEAM
N(FRAGB)	C= USED FOR MULT DIST OF BEAM FRAGMENTS
FRAG	C= FRAGMENT FROM NUCLEUS. USED FOR DESCRIPTION OF HEAVY ION EXPERIMENTS
N(FRAG)	C= USED FOR MULTIPLICITY DISTRIBUTION OF HEAVY IONS
FRAG5	C= TWO OR MORE NUCLEAR FRAGMENTS
FRAG(5)	C= ONE OR MORE NUCLEAR FRAGMENTS
(FRAG5)	C= ZERO OR MORE NUCLEAR FRAGMENTS
CHGD-HADRON	C= CHARGED HADRON

N(CHGD-HADRON)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF CHARGED HADRONS. USE ONLY WITH DD=MULT
CHGD-HADRONS	C= TWO OR MORE CHGD HADRONS
CHGD-HADRONS(S)	C= ONE OR MORE CHGD HADRONS
(CHGD-HADRONS)	C= ZERO OR MORE CHGD HADRONS
HADRON+	C= CHARGE + HADRON
HADRON0	C= CHARGE 0 HADRON
HADRON-	C= CHARGE - HADRON
HADRON	C= SINGLE HADRON, ANY CHARGE OR MASS
N(HADRON)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF HADRONS, E.G. 2HADRON, 3HADRON, 4HADRON, ETC.. USE ONLY WITH DD=MULT.
HADRONS	C= TWO OR MORE HADRONS
HADRON(S)	C= ONE OR MORE HADRONS
(HADRONS)	C= ZERO OR MORE HADRONS
KINK+	C= POSITIVE KINKING TRACK OBSERVED IN TRACK DETECTOR
KINK-	C= NEGATIVE KINKING TRACK OBSERVED IN TRACK DETECTOR
STRANGE0	C= SAME AS STRANGE EXCEPT CHARGE IS SPECIFIED
STRANGE	C= UNSPECIFIED STRANGE PARTICLE
N(STRANGE)	C= USED FOR MULT DIST OF UNSPEC STRANGE PARTICLES
STRANGES	C= TWO OR MORE UNSPECIFIED STRANGE PARTICLES
STRANGE(S)	C= ONE OR MORE UNSPECIFIED STRANGE PARTICLES
(STRANGES)	C= ZERO OR MORE UNSPECIFIED STRANGE PARTICLES
0VEE	C= SPECIAL REACTIONS WITH NOT ALL PARTICLES SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT OF NOTING NO VEES WERE PRODUCED, E.G. PI- P --> ANYTHING 0VEE, USE ONLY IN RARE CASES
VEE	C= SEEN UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAY
N(VEE)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF STRANGE VISIBLE NEUTRAL VEES (NOT GAMMA CONVERSIONS). USE ONLY WITH DD=MULT
VEES	C= TWO OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
VEE(S)	C= ONE OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
(VEES)	C= ZERO OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
CHARGED+	C= POSITIVE CHARGED PARTICLE
CHARGED-	C= NEGATIVE CHARGED PARTICLE
CHARGED	C= CHARGED PARTICLE. UNLIKE PRONG, THIS DOES NOT INCLUDE POSSIBLE NEUTRALS
N(CHARGED+)	
N(CHARGED-)	
N(CHARGED)	C= CHARGED PARTICLE, FOR MULTIPLICITY DISTRIBUTION ONLY
(CHARGED)	C= ZERO OR MORE CHARGED PARTICLES, DOES NOT INCLUDE NEUTRALS (SEE PRONG ENTRIES)
.GT.30PRONG	
.GT.29PRONG	
.GT.28PRONG	
.GT.27PRONG	
.GT.26PRONG	
.GT.25PRONG	
.GT.24PRONG	
.GT.23PRONG	
.GT.22PRONG	C= MORE THAN 22 PRONG
.GT.21PRONG	
.GT.20PRONG	
.GT.19PRONG	
.GT.18PRONG	
.GT.17PRONG	C= MORE THAN 17 PRONGS
.GT.16PRONG	C= MORE THAN 16 PRONGS

.GT.15PRONG	
.GT.14PRONG	
.GT.13PRONG	C= MORE THAN 13 PRONGS
.GT.12PRONG	
.GT.11PRONG	
.GT.10PRONG	C= MORE THAN 10 PRONGS
.GT.9PRONG	C= MORE THAN 9 PRONGS
.GT.8PRONG	C= MORE THAN 8 PRONGS
.GT.7PRONG	C= MORE THAN 7 PRONGS
.GT.6PRONG	C= MORE THAN 6 PRONGS
.GT.5PRONG	C= MORE THAN 5 PRONGS
.GT.4PRONG	C= MORE THAN 4 PRONGS
.GT.3PRONG	C= MORE THAN 3 PRONGS
.GT.2PRONG	C= MORE THAN TWO PRONGS
.GT.1PRONG	C= MORE THAN ONE PRONG
0PRONG	C= USE FOR REACTIONS WITH NO CHARGED PARTICLES ORIGINATING FROM PRIMARY VTX. IGNORES OBSERVED OR UNOBSERVED VEES.
PRONG	C= A CHARGED TRACK ORIGINATING FROM THE PRIMARY INTERACTION. ASSUMES OBSERVED OR UNOBSERVED NEUTRALS MAY BE PRESENT, BUT ARE IGNORED UNLESS SPECIFICALLY MENTIONED.
N(PRONG)	C= A COLLECTION OF REACTIONS WITH DIFFERENT NUMBERS OF PRONGS, E.G. 0(PRONG), 2(PRONG), 4(PRONG), ETC.. USE ONLY WITH DD=MULT.
PRONGS	C= TWO OR MORE PRONGS
PRONG(S)	C= ONE OR MORE PRONGS
(PRONGS)	C= ZERO OR MORE PRONGS PLUS POSSSIBLE NEUTRALS
NONSTRG-PRONG	C= PRONG PRODUCED BY NON-STRANGE PARTICLE
MM.GE.2	C= TWO OR MORE UNDETECTED NEUTRAL PARTICLES
MM.GE.1	C= ONE OR MORE UNDETECTED NEUTRAL PARTICLES ** SEE MM AND MM.GE.0 FOR OTHER MISSING MASS STATES
MM.GE.0	C= ZERO, ONE OR MORE UNDETECTED NEUTRAL PARTICLES ** SEE MM AND MM.GE.1 FOR OTHER MISSING MASS STATES
NEUTRAL	C= SINGLE NEUTRAL PARTICLE
N(NEUTRAL)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF NEUTRALS. USE ONLY WITH DD=MULT
NEUTRALS	C= TWO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM
NEUTRAL(S)	C= ONE OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.1
(NEUTRALS)	C= ZERO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.0
ANYTHING	C= FOR USE IN INCLUSIVE REACTIONS, ALSO FOR CROSS-SECTION DATA, AS IN K- P --> ANYTHING
ODD-PRONG	
EVEN-PRONG	
INELASTIC	C= SAME AS ANYTHING, EXCEPT ELASTIC EXCLUDED
CC	C= CHARGE CONJUGATE REACTION
STAR	C= HIGH CHARGED MULTIPLICITY FINAL STATE
CENTAURO	C= NEW TYPE OF FINAL STATE WITH 50 OR MORE CHARGED PARTICLES, NO PIOS
HEAVY	C= UNSPECIFIED STABLE PARTICLE (MPROTON)
YPART	C= HPWT'S Y-PARTICLE, MASS 2-4 GEV, PROBABLY HADRON
DD	C= DIFFRACTION DISSOCIATION. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED VIA DIFFRACTION DISSOCIATION. E.G. DD <P PIO>
NON-RES	C= NON-RESONANT STATE. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED IN A NON-RESONANT STATE. E.G. NON-RES <P PI+>
MANY	C= USED RARELY IN REVIEWS WHEN LARGE NUMBERS OF PARTICLES ARE REVIEWED, USE FOR PP ONLY, NOT AS FINAL STATE PARTICLE

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY

AC	C= ACTINIUM NUCLEUS
AG	C= SILVER NUCLEUS
AKN(I=0)	C= ANTI-K NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
AKN(I=1)	C= ANTI-K NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATE (K- N)
AL	C= ALUMINUM NUCLEUS
ANNIHIL	C= PURE ANNIHILATION FINAL STATE IN NUCLEON-ANTI-NUCLEON SCATTERING
ANN(I=0)	C= ANTI-NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
ANN(I=1)	C= ANTI-NUCLEON NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATE (AP N)
ANN(1794)0	C= NARROW N AN STATE
ANN(1873)0	C= NARROW N AN STATE
ANN(1900)0	C= NARROW N AN STATE
ANN(1900)0	C= RESONANCE SEEN IN N NBAR
ANN(1900)+	C= RESONANCE SEEN IN N NBAR
ANN(1900)-	C= RESONANCE SEEN IN NBAR
ANN(1935)0	C= NARROW N AN STATE
ANN(1935)-	ANN(1935)+
ANN(1968)0	C= NARROW N AN STATE
ANN(2020)0	C= VERY NARROW P PBAR RESONANCE
ANN(2200)0	C= VERY NARROW P PBAR RESONANCE
ANN(2370)0	
ANN(2610)0	
ANYTHING	C= FOR USE IN INCLUSIVE REACTIONS, ALSO FOR CROSS-SECTION DATA, AS IN K- P --> ANYTHING
APRIME(1800)0	C= JPI STATE
APRIME(1800)+	C= JPI STATE
APRIME(1800)-	C= JPI STATE
AR	C= ARGON NUCLEUS -- NOTE NAME IS NOT SAME AS CHEM. SYMBOL
AR37	C= ARGON 37 NUCLEUS
AS	C= ARSENIC NUCLEUS
AST	C= ASTATINE NUCLEUS - NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
AU	C= GOLD NUCLEUS
AXION	C= HYPOTHESIZED LIGHT HIGGS SCALAR BOSON
A1(1100)0	A1(1100)+ A1(1100)-
A1.5(1170)0	A1.5(1170)+ A1.5(1170)-
A2(1310)0	A2(1310)+ A2(1310)-
A3(1640)0	A3(1640)+ A3(1640)-
A4(1900)0	A4(1900)+ A4(1900)-
A4(2200)0	A4(2200)+ A4(2400)-
A5(1790)0	A5(1790)+ A5(1790)-
BA	C= BARIUM NUCLEUS
BARYON	C= BARYON OF UNSPEC CHG, S, I, MASS
BARYONIUM	C= MESONS THAT COUPLE PROMINENTLY TO BARYON-ANTIBARYON
BE	C= BERYLLIUM NUCLEUS
BI	C= BISMUTH NUCLEUS
BOR	C= BORON NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
BR	C= BROMINE
B(1040)0	B(1040)+ B(1040)-
B(1235)0	B(1235)+ B(1235)-
C	C= CARBON NUCLEUS
CA	C= CALCIUM NUCLEUS

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

CC	C= CHARGE CONJUGATE REACTION
CD	C= CADMIUM NUCLEUS
CE	C= CERIUM NUCLEUS
CENTAURO	C= NEW TYPE OF FINAL STATE WITH 50 OR MORE CHARGED PARTICLES, NO PIOS
CHARGED	C= CHARGED PARTICLE. UNLIKE PRONG, THIS DOES NOT INCLUDE POSSIBLE NEUTRALS
CHARGED+	C= POSITIVE CHARGED PARTICLE
CHARGED-	C= NEGATIVE CHARGED PARTICLE
CHARM	C= CHARMED PARTICLE
CHARMED-BARYON	C= CHARMED BARYON OF UNSPECIFIED C, S, I, OR CHARGE
CHGD-HADRON	C= CHARGED HADRON
CHGD-HADRONS	C= TWO OR MORE CHGD HADRONS
CHGD-HADRONS(S)	C= ONE OR MORE CHGD HADRONS
CHI(UNSPEC)	C= UNSPECIFIED RADIATIVE DECAY PRODUCT OF PSI(3700)
CHI(UNSPEC)0	C= UNSPECIFIED RADIATIVE DECAY PRODUCT OF PSI(3700)
CHI(3415)	
CHI(3450)0	C= RADIATIVE DECAY PRODUCT OF PSI(3700)
CHI(3500)	C= RADIATIVE DECAY OF PSI(3700)
CHI(3550)	C= RADIATIVE DECAY OF PSI(3700)
CL	C= CHLORINE
CL37	C= CHLORINE 37 NUCLEUS
CO	C= COBALT NUCLEUS
COSMIC	C= COSMIC-RAY PARTICLE OF UNDETERMINED NATURE
CR	C= CHROMIUM NUCLEUS
CS	C= CESIUM NUCLEUS
CU	C= COPPER NUCLEUS
C12	C= CARBON-12 NUCLEUS
C*	C= EXCITED STATE OF CARBON, USE FOR ALL BUT C*(4.44) (Q.V.)
C*(4.44)	C= 4.44 KEV EXCITED STATE OF CARBON
DD	C= DIFFRACTION DISSOCIATION. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED VIA DIFFRACTION DISSOCIATION. E.G. DD <P PIO>
DELTA(1250)0	DELTA(1250)+ DELTA(1250)-
DELTA(970)0	DELTA(970)+ DELTA(970)-
DEL0	C= DEL(1232P33)0
DEL+	C= DEL(1232P33)+
DEL++	C= DEL(1232P33)++
DEL-	C= DEL(1232P33)-
DEL(UNSPEC)0	C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY IN PROP, RVUE, COMP
DEL(UNSPEC)+	C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY IN PROP, RVUE, COMP
DEL(UNSPEC)++	C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY IN PROP, RVUE, COMP
DEL(UNSPEC)-	C= I=3/2 BARYON OF UNSPECIFIED MASS, USE PRIMARILY IN PROP, RVUE, COMP
DEL(1640D)0	DEL(1640D)+ DEL(1640D)++ DEL(1640B)-
DEL(1650S3I)0	DEL(1650S3I)+ DEL(1650S3I)++ DEL(1650S3I)-
DEL(1670D33)0	DEL(1670D33)+ DEL(1670D33)++ DEL(1670D33)-
DEL(1690P33)0	DEL(1690P33)+ DEL(1690P33)++ DEL(1690P33)-
DEL(1750P33)0	C= SEE METCALF 74
DEL(1750P33)+	C= SEE METCALF 74
DEL(1750P33)++	C= SEE METCALF 74
DEL(1750P33)-	C= SEE METCALF 74
DEL(1860P31)0	DEL(1860P31)+ DEL(1860P31)++ DEL(1860P31)-
DEL(1880B)0	C= BUMP IN PRODUCTION EXPERIMENT
DEL(1880B)+	C= BUMP IN PRODUCTION EXPERIMENT
DEL(1880D)++	C= BUMP IN PRODUCTION EXPERIMENT

DEL(1860)-	C= BUMP IN PRODUCTION EXPERIMENT		
DEL(1885P35)0	DEL(1885P35)+	DEL(1885P35)++	DEL(1885P35)-
DEL(1890P35)0	DEL(1890P35)+	DEL(1890P35)++	DEL(1890P35)-
DEL(1900S31)0	DEL(1900S31)+	DEL(1900S31)++	DEL(1900S31)-
DEL(1910P31)0	DEL(1910P31)+	DEL(1910P31)++	DEL(1910P31)-
DEL(1925D35)0	DEL(1925D35)+	DEL(1925D35)++	DEL(1925D35)-
DEL(1940P31)0	DEL(1940P31)+	DEL(1940P31)++	DEL(1940P31)-
DEL(1940P33)0	DEL(1940P33)+	DEL(1940P33)++	DEL(1940P33)-
DEL(1950D)0	DEL(1950D)+	DEL(1950D)++	DEL(1950D)-
DEL(1950F37)0	DEL(1950F37)+	DEL(1950F37)++	DEL(1950F37)-
DEL(1960D35)0	DEL(1960D35)+	DEL(1960D35)++	DEL(1960D35)-
DEL(1960P31)0	DEL(1960P31)+	DEL(1960P31)++	DEL(1960P31)-
DEL(2000P33)0	DEL(2000P33)+	DEL(2000P33)++	DEL(2000P33)-
DEL(2020D)0	DEL(2020D)+	DEL(2020D)++	DEL(2020D)-
DEL0)0	DEL(2160)+	DEL(2160)++	DEL(2160)-
DEL(2200D35)0	C= SEE MA 74C		
DEL(2200D35)+	C= SEE MA 74C		
DEL(2200D35)++	C= SEE MA 74C		
DEL(2200D35)-	C= SEE MA 74C		
DEL(2420D)0	DEL(2420D)+	DEL(2420D)++	DEL(2420D)-
DEL(2420H31)0	DEL(2420H31)+	DEL(2420H31)++	DEL(2420H31)-
DEL(2850B)0	DEL(2850B)+	DEL(2850B)++	DEL(2850B)-
DEL(3230D)0	DEL(3230D)+	DEL(3230B)++	DEL(3230B)-
DEUT			
DEUT*+(2500)+	C= LOW MASS D PI PI BUMP		
DEUT*(2170)0	DEUT*(2170)+	DEUT*(2170)++	
DIBARYON	C= DI-BARYON RESONANCE OF UNSPEC MASS		
DIHYPERON	C= DI-HYPERON RESONANCE OF UNSPEC MASS		
DIHYPERON(2130)0			
DIHYPERON(2130)+	C= DI-HYPERON RESONANCE, SEE DOSCH 77B		
DY	C= DYSPROSIUM NUCLEUS		
D0	C= CHARMED PARTICLE CANDIDATE		
D+	C= CHARMED PARTICLE CANDIDATE		
D-	C= CHARMED PARTICLE CANDIDATE		
D*(2010)0	C= CHARMED PARTICLE CANDIDATE		
D*(2010)+	C= CHARMED PARTICLE CANDIDATE		
D*(2010)-	C= CHARMED PARTICLE CANDIDATE		
D*(2150)0	C= CHARMED PARTICLE CANDIDATE		
D*(2300)0	C= CHARMED MESON, SEE ABOLINS 76B		
D(285)			
ELECTRONS	C= TWO OR MORE ELECTRONS		
ELECTRON(S)	C= ONE OR MORE ELECTRONS		
EPSILON(200)	C= PIPI S-WAVE (NEAR 200 MEV)		
EPSILON(700)	C= PIPI S-WAVE (NEAR 700 MEV)		
ER	C= ERBIUM NUCLEUS		
ETA			
ETAPRIME			
ETA/C	C= JP=0- CHARMONIUM STATE		
ETA(1080)			
EU	C= EUROPIUM NUCLEUS		
EVEN-PRONG			
EXOTIC-HYPERON	C= CANNOT BE FORMED OF QUARK-ANTI-QUARK OR QQQ		
EXOTIC-MESON	C= CANNOT BE FORMED OF QUARK-ANTI-QUARK		
EXOTIC-NUCLEON	C= CANNOT BE FORMED OF QQQ		
EX(1640)0	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		
EX(1640)+	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		
EX(1640)++	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		
EX(1640)+++	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		
EX(1640)-	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		
EX(1640)--	C= I=5/2 NON-STRANGE BARYON (EXOTIC)		

E+	C= POSITRON
E+-	C= ELECTRON OR POSITRON
E-	C= ELECTRON
E(1420)	
F	C= F(1270) MESON RESONANCE
FE	C= IRON NUCLEUS
FL	C= FLUORINE NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
FPRIME	
FR	C= FRANCIUM NUCLEUS
FRAG	C= FRAGMENT FROM NUCLEUS. USED FOR DESCRIPTION OF HEAVY ION EXPERIMENTS
FRAGB	C= FRAGMENT OF BEAM
FRAGS	C= TWO OR MORE NUCLEAR FRAGMENTS
FRAGT	C= FRAGMENT OF TARGET
FRAG(S)	C= ONE OR MORE NUCLEAR FRAGMENTS
F1(1540)0	F1(1540)+ F1(1540)-
F+	C= CHARMED STRANGE GROUND STATE MESON
F-	C= CHARMED STRANGE GROUND STATE MESON
F*(2140)+	C= FIRST EXCITED CHARMED STRANGE MESON
F*(2140)-	C= FIRST EXCITED CHARMED STRANGE MESON
GA	C= GALLIUM NUCLEUS
GAMMA	
GAMMAS	C= TWO OR MORE GAMMAS
GAMMA(S)	C= ONE OR MORE GAMMAS
GD	C= GADOLINIUM NUCLEUS
GE	C= GERMANIUM NUCLEUS
G(1680)0	G(1680)+ G(1680)-
HADRON	C= SINGLE HADRON, ANY CHARGE OR MASS
HADRONS	C= TWO OR MORE HADRONS
HADRON0	C= CHARGE 0 HADRON
HADRON+	C= CHARGE + HADRON
HADRON-	C= CHARGE - HADRON
HADRON(S)	C= ONE OR MORE HADRONS
HDIBARYON	C= UNSPECIFIED Sm-1,B=2 STATE
HDIBARYON(2130)+	C= REPORTED HYPER-DIBARYON
HE	C= HELIUM-4 NUCLEUS
HEAVY	C= UNSPECIFIED STABLE PARTICLE (M>PROTON)
HE2	C= TWO OR MORE HE NUCLEI
HE3	C= HELIUM 3
HE(S)	C= ONE OR MORE HE NUCLEI
HF	C= HAFNIUM NUCLEUS
HG	C= MERCURY NUCLEUS
HIGGS	C= HIGGS BOSON
HNUCLEUS	C= HYPER-NUCLEUS
HO	C= HOLMIUM NUCLEUS
HVY-LEPTON	C= GENERAL HEAVY LEPTON
HVY-LEPTON0	C= HEAVY LEPTON
HVY-LEPTON+	C= HEAVY LEPTON
HVY-LEPTON-	C= HEAVY LEPTON
HYPERON	C= GENERAL HYPERON
H(1520)0	C= G+ MESON
H(2040)	C= I=0, JP=4+ MESON RESONANCE
H(990)	
I	C= IODINE NUCLEUS
IN	C= INDIUM NUCLEUS
INELASTIC	C= SAME AS ANYTHING, EXCEPT ELASTIC EXCLUDED
IR	C= IRIDIUM NUCLEUS
I(2600)	
I(2600)+	C= NEW, POSSIBLY CHARMED MESON IN AP P --> 4PI K + X

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

I(2600)-		C= NEW, POSSIBLY CHARMED MESON IN AP P --> 4PI K + X
J/PSI(3100)0		
KAON		C= EXACTLY ONE KAON OR ANTIKAON OF UNSPECIFIED CHARGE
KAONS		C= TWO OR MORE UNSPEC KAONS
KAON(S)		C= ONE OR MORE UNSPEC KAONS
KAPPA(1250)0		C= KPI S-WAVE
KAPPA(1250)+		C= KPI S-WAVE
KAPPA(1250)-		C= KPI S-WAVE
KINK+		C= POSITIVE KINKING TRACK OBSERVED IN TRACK DETECTOR
KINK-		C= NEGATIVE KINKING TRACK OBSERVED IN TRACK DETECTOR
KK		C= POTASSIUM NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
KKBAR		C= UNSPECIFIED KKBAR COMBINATIONS
KL		C= K LONG
KN(I=0)		C= K NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
KN(I=1)		C= K NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATE (K+ P)
KN(1900)0		C= POSSIBLE K- OMEGA STATE
KN(1900)+		C= POSSIBLE K- OMEGA STATE
KN(1900)-		C= POSSIBLE K- OMEGA STATE
KN(1800)0	KN(1800)+	KN(1800)-
KPI(I=1/2)		C= THE I=1/2 KPI STATE
KPI(I=3/2)		C= THE I=3/2 KPI STATE
KPI(S30)++		C= K PI S-WAVE STATE (EXOTIC)
KPRIME(1400)0		C= JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY TO EPSILON KO
KPRIME(1400)+		C= JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY INTO EPSILON KO
KPRIME(1400)-		C= JP=0- STATE SEEN IN PWA BY BRANDENBURG 76, DECAYING PREDOMINATLY INTO EPSILON KO
KR		C= KRYPTON NUCLEUS
KS		C= K SHORT
KSIG(I=1/2)		C= I=1/2 K SIGMA SYSTEM OF UNSPECIFIED MASS, STRANGENESS FOR PWA
KSIG(I=3/2)		C= I=3/2 K SIGMA SYSTEM OF UNSPECIFIED MASS, STRANGENESS FOR PWA
KS(S)		C= ONE OR MORE KO SHORTS
KO	K+	
K+(S)		C= ONE OR MORE K+
K-		
K-(S)		C= ONE OR MORE K-
K*		C= K*(892) OF UNSPECIFIED CHARGE
K*PI(I=1/2)		C= USED FOR I=1/2 SUM OF K* PI STATES
K*PI(I=3/2)		C= USED FOR I=3/2 SUM OF K* PI STATES
K*(UNSPEC)		C= FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)0		C= FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)+		C= FOR USE IN PROP, RVUE, COMP
K*(UNSPEC)-		C= FOR USE IN PROP, RVUE, COMP
K*(1225)0	K*(1225)+	K*(1225)-
K*(1420)0	K*(1420)+	K*(1420)-
K*(1450)0		C= CLAIMED DIFFERENT THAN K*(1420)
K*(1450)+		C= CLAIMED DIFFERENT THAN K*(1420)
K*(1450)-		C= CLAIMED DIFFERENT THAN K*(1420)
K*(1780)0	K*(1780)+	K*(1780)-
K*(2200)0	K*(2200)+	K*(2200)-
K*(2800)0	K*(2800)+	K*(2800)-
K*(892)0	K*(892)+	K*(892)-

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

LA		C= LANTHANIUM NUCLEUS
LAMBDA		
LAMBDAS		C= TWO OR MORE LAMBDAS
LAMBDA/C+		
LAMBDA(S)		C= ONE OR MORE LAMBDAS
LAM(UNSPEC)		C= I=0, S=-1 BARYON RESONANCE, FOR USE PRIMARILY IN PROP, RVUE, COMP
LAM(1330B)		C= BUMP AT 1330 MEV
LAM(1405SD1)		
LAM(1520D03)		
LAM(1600P01)		
LAM(1670S01)		
LAM(1690D03)		
LAM(1730S01)		
LAM(1800G09)		
LAM(1800P01)		
LAM(1815F05)		
LAM(1830D05)		
LAM(1860P03)		
LAM(1870S01)		
LAM(2010)		
LAM(2020F07)		
LAM(2100B)		C= BUMP AT 2100 MEV
LAM(2100F05)		
LAM(2100F07)		
LAM(2100G07)		
LAM(2110F05)		
LAM(2340D03)		
LAM(2350B)		C= I=0, Y=0 BUMPS
LAM(2360H09)		
LAM(2585B)		
LEPTON		C= UNSPECIFIED LEPTON
LEPTONS		C= 2 OR MORE LEPTONS
LEPTON(S)		C= ONE OR MORE LEPTONS
LI		C= LITHIUM NUCLEUS
LIG	LIT	
LONGLIVED		C= STABLE UNDER STRONG OR E- DECAY; MASS AND OTHER D NUMBERS NOT WELL-DETERMINED
LU		C= LUTETIUM NUCLEUS
L(1770)0	L(1770)+	L(1770)-
MANY		C= USED RARELY IN REVIEWS WHEN LARGE NUMBERS OF PARTICLES ARE REVIEWED, USE FOR PP ONLY, NOT AS FINAL STATE PARTICLE
MESON		C= SINGLE MESON OF UNSPEC TYPE
MESONS		C= TWO OR MORE MESONS
MESON(S)		C= ONE OR MORE MESONS
MESON(UNSPEC)0		C= CHG ZERO MESON OF UNSPEC MASS
MESON(UNSPEC)+		C= CHG +1 MESON OF UNSPEC MASS
MESON(UNSPEC)-		C= CHG -1 MESON OF UNSPEC MASS
MESON(1970)0		C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
MESON(1970)+		C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
MESON(1970)-		C= 1970 MEV I=1 MESON DECAYING INTO K*(1420) AK
MESON(2190)0		C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
MESON(2190)+		C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
MESON(2190)-		C= 2190 MEV I=1 MESON OBSERVED IN AP P AND AP D TOTAL CS
MESON(2850)0		C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(2850)+		C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(2850)-		C= BUMP SEEN IN AP N INDUCED INTERACTIONS

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

MESON(2950)	C= BUMP SEEN IN P AP PI-
MESON(2950)0	C= BUMP SEEN IN P AP PI-
MESON(2950)+	C= BUMP SEEN IN P AP PI-
MESON(2950)-	C= BUMP SEEN IN P AP PI-
MESON(3050)0	C= DUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(3050)+	C= BUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(3050)-	C= DUMP SEEN IN AP N INDUCED INTERACTIONS
MESON(3270)0	C= NEW POSSIBLE PARTICLE OBSERVED IN E+ E- --> MU+ MU- 2GAMMA AS A BUMP IN 2GAMMA MASS REPORTED IN SLAC-PUB-1644
MESON(3500)0	C= NEW POSSIBLE PARTICLE OBSERVED IN E+ E- --> MU+ MU- 2GAMMA AS A BUMP IN 2GAMMA MASS REPORTED IN SLAC-PUB-1644
MESON(3620)0	C= OBSERVED IN E+ E- 2GAMMA FINAL STATE IN WHICH 2GAMMA HAS A BUMP AT 180 MEV, SEE R=DESY-75-20 FOR DETAIL
MG	C= MAGNESIUM NUCLEUS
MM.GE.0	C= ZERO, ONE OR MORE UNDETECTED NEUTRAL PARTICLES ** SEE MM AND MM.GE.1 FOR OTHER MISSING MASS STATES
MM.GE.1	C= ONE OR MORE UNDETECTED NEUTRAL PARTICLES ** SEE MM AND MM.GE.0 FOR OTHER MISSING MASS STATES
MM.GE.2	C= TWO OR MORE UNDETECTED NEUTRAL PARTICLES
MN	C= MANGANESE NUCLEUS
MO	C= MOLYBDENUM NUCLEUS
MONOPOLE	C= MAGNETIC MONOPOLE
MUON	C= GENERIC PARTICLE, USED FOR REVIEW ARTICLES
MUONS	C= TWO OR MORE MUONS
MUON(S)	C= ONE OR MORE MUONS
MU+	MU-
M(1033)	C= NON-STRANGE, I=0 MESON RESONANCE
M(1150)	C= NON-STRANGE, I=0 MESON RESONACE
M(940)	C= NON-STRANGE, I=0 MESON RESONANCE
M(953)	C= NON-STRANGE, I=0 MESON RESONANCE
N	C= NEUTRON
NA	C= SODIUM NUCLEUS
NAND(2375)	C= NUCLEON-ANTINUCLEON I=0 BUMP
NB	N= NIOBIUM NUCLEUS
ND	C= NEODYMIUM NUCLEUS
NE	C= NEON NUCLEUS
NEPSILON(I=1/2)	C= NUCLEON EPSILON I=1/2 FINAL STATE
NEUTRAL	C= SINGLE NEUTRAL PARTICLE
NEUTRALS	C= TWO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM
NEUTRAL(S)	C= ONE OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.1
NEUTRONS	C= TWO OR MORE NEUTRONS
NEUTRON(S)	C= ONE OR MORE NEUTRONS
NI	C= NICKEL NUCLEUS
NIT	C= NITROGEN 14 NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
NIT12	C= NITROGEN-12 NUCLEUS
NN(I=0)	C= NUCLEON NUCLEON I=0 INITIAL STATE (AND ELASTIC FINAL STATE)
NN(I=1)	C= NUCLEON NUCLEON I=1 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATE (P P)
NN(2250)0	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NN(2250)+	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

NN(2250)++	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NN(2250)-	C= DIRECT CHANNEL DI-BARYON RESONANCE SEEN IN PP TOTAL
NONSTNG-PRONG	C= PRONG PRODUCED BY NON-STRANGE PARTICLE
NON-RES	C= NON-RESONANT STATE. TO BE FOLLOWED BY NAMES OF PARTICLES WHICH WERE PRODUCED IN A NON-RESONANT STATE. E.G. NON-RES <P PI+>
NP	C= NEPTUNIUM NUCLEUS
NR1O(I=1/2)	C= NUCLEON RHO I=1/2 FINAL STATE
NR1O(I=3/2)	C= NUCLEON RHO I=3/2 FINAL STATE
NU	
NUCLEON	
NUCLEONS	C= TWO OR MORE UNSPEC NUCLEONS
NUCLEON(S)	C= ONE OR MORE UNSPEC NUCLEONS
NUCLEUS	C= GENERAL NUCLEUS. USE ONLY WHEN THE EXACT NUCLEUS OR NUCLEON IS NOT SPECIFIED. E.G., USE FOR TARGET WHEN DETECTOR IS EMULSION.
NUE	
NUMU	
NUS	C= TWO OR MORE UNSPECIFIED NEUTRINOS
NUTAU	C= NEUTRINO ASSOCIATED WITH TAU-
NU-UNSPEC	C= NEUTRINO OF UNSPECIFIED PARTICLE OR ANTI-PARTICLE TYPE
NU(S)	C= ONE OR MORE UNSPECIFIED NEUTRINOS
N*5/2(UNSPEC)	C= I=5/2, Y=1 BARYON OF UNSPEC MASS AND CHG
N*5/2,UNSPEC)+++	C= I=5/2, Y=1 BARYON OF UNSPEC MASS, FOR USE PRINCIPALLY IN PROP, RVUE, COMP
N*(UNSPEC)	C= S=0 BARYON OF UNSPEC MASS, ISOSPIN, FOR USE IN PROP, RVUE, COMP
N*(UNSPEC)0	C= I UNSPECIFIED, Y=1 BARYON OF UNSPEC MASS
N*(UNSPEC)+	C= I UNSPECIFIED, Y=1 BARYON OF UNSPEC MASS
N*(UNSPEC)-	C= I UNSPEC, MASS UNSPEC, Y=1 BARYON
N(CHARGED+)	
N(CHARGED-)	
N(CHARGED)	C= CHARGED PARTICLE, FOR MULTIPLICITY DISTRIBUTION ONLY
N(CHGD-HADRON)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF CHARGED HADRONS. USE ONLY WITH DO=MULT
N(ELECTRON)	C= FOR MULT DIST OF ELECTRONS
N(FRAGB)	C= USED FOR MULT DIST OF BEAM FRAGMENTS
N(FRAGT)	C= USED FOR MULT DIST OF TARGET FRAGMENTS
N(FRAG)	C= USED FOR MULTIPLICITY DISTRIBUTION OF HEAVY IONS
N(F)	C= F MESON MULTIPLICITY, USE WITH DO=MULT ONLY
N(GAMMA)	C= GAMMA MULTIPLICITY, USE WITH DO=MULT ONLY
N(HADRON)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF HADRONS, E.G. 2HADRON, 3HADRON, 4HADRON, ETC. USE ONLY WITH DO=MULT.
N(HE)	C= USED FOR MULTIPLICITY DISTRIBUTION OF HELIUM NUCLEI IN FINAL STATE. USE ONLY WITH DO=MULT
N(KAON)	C= FOR MULT DIST OF UNSPEC KAONS
N(KL)	C= USED FOR MULT DIST OF KL
N(KS)	C= USED FOR MULT DIST OF KS
N(KO)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF KOS. USE ONLY WITH DO=MULT
N(K+)	C= USED FOR MULT DIST OF K+
N(K-)	C= USED FOR MULTIPLICITY DISTRIBUTION OF K-. USE ONLY WITH DO=MULT.
N(K*(1420)0)	C= MULTIPLICITY DISTRIBUTION FOR K*(1420)0. USE ONLY WITH DO=MULT
N(K*(1420)+)	C= MULTIPLICITY DISTRIBUTION FOR K*(1420)+. USE ONLY WITH DO=MULT

N(K*(1420)-)	C= MULTIPLICITY DISTRIBUTION FOR K*(1420)-. USE ONLY WITH DD=MULT
N(K*(892)0)	C= MULTIPLICITY DISTRIBUTION FOR K*(892)0. USE ONLY WITH DD=MULT
N(K*(892)+)	C= MULTIPLICITY DISTRIBUTION FOR K*(892)+. USE ONLY WITH DD=MULT
N(K*(892)-)	C= MULTIPLICITY DISTRIBUTION FOR K*(892)-. USE ONLY WITH DD=MULT
N(LAMBDA)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF LAMBDAS. USE ONLY W ITH DD=MULT
N(LEPTON)	C= LEPTON MULTIPLICITY, USE WITH DD=MULT ONLY
N(MESON)	C= USED FOR MULTIPLICITY DISTRIBUTION OF MESON. DD=MULT ONLY
N(MUON)	C= MUON MULTIPLICITY, USE WITH DD=MULT ONLY
N(NEUTRAL)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF NEUTRALS. USE ONLY WITH DD=MULT
N(NUCLEON)	C= FOR MULT DIST OF UNSPEC NUCLEONS
N(NU)	C= NEUTRINO MULTIPLICITY, USE WITH DD=MULT ONLY
N(N)	C= USED FOR MULTIPLICITY DISTRIBUTION OF N. USE ONLY WITH DD=MULT.
N(PION)	C= PION MULTIPLICITY, USE WITH DD=MULT ONLY
N(PI0)	C= PI0 MULTIPLICITY, USE WITH DD=MULT ONLY
N(PI+)	C= USED FOR MULTIPLICITY DISTRIBUTION OF PI+. USE ONLY WITH DD=MULT
N(PI-)	C= USED FOR MULTIPLICITY DISTRIBUTION OF PI-. USE ONLY WITH DD=MULT
N(PRONG)	C= A COLLECTION OF REACTIONS WITH DIFFERENT NUMBERS OF PRONGS, E.G. 0(PRONG), 2(PRONG), 4(PRONG), ETC.. USE ONLY WITH DD=MULT.
N(P)	C= PROTON MULTIPLICITY DISTRIBUTION, USE WITH DD=MULT ONLY
N(RHO0)	C= RHO0 MULTIPLICITY, USE WITH DD=MULT ONLY
N(RHO)	C= MULTIPLICITY OF RHO MESONS OF UNSPECIFIED CHARGE, USE WITH DD=MULT ONLY
N(SIGMA0)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF SIGMA0S. USE ONLY W ITH DD=MULT
N(SIGMA+)	C= USED FOR MULT DIST OF SIGMA+
N(SIGMA-)	C= USED FOR MULT DIST OF SIGMA-
N(SPECT)	C= SPECTATOR NEUTRON (NOT NUMBER OF SPECTATORS)
N(STRANGE)	C= USED FOR MULT DIST OF UNSPEC STRANGE PARTICLES
N(UNSPEC)	C= I=1/2, Y=1 BARYON OF UNSPECIFIED MASS
N(UNSPEC)0	C= I=1/2, Y=1 BARYON OF UNSPEC MASS
N(UNSPEC)+	C= I=1/2, Y=1 BARYON OF UNSPEC MASS
N(VEE)	C= A COLLECTION OF REACTIONS TO DIFFERENT NUMBERS OF STRANGE VISIBLE NEUTRAL VEES (NOT GAMMA CONVERSIONS). USE ONLY WITH DD=MULT
N(1250)0	C= SEE BERLAD 74
N(1250)+	C= SEE BERLAD 74
N(1350)0	N(1350)+
N(1470)0	N(1470)+
N(1470P11)0	N(1470P11)+
N(1520)0	N(1520)+
N(1520D13)0	N(1520D13)+
N(1535S11)0	N(1535S11)+
N(1590)0	N(1590)+
N(1670D15)0	N(1670D15)+
N(1688F15)0	N(1688F15)+
N(1700)0	N(1700)+
N(1700D13)0	N(1700D13)+

N(1700S11)0	N(1700S11)+
N(1750P13)0	C= SEE METCALF 74
N(1750P13)+	C= SEE METCALF 74
N(1780P11)0	N(1780P11)+
N(1810P13)0	N(1810P13)+
N(1860)0	N(1860)+
N(1920)0	N(1920)+
N(1990F17)0	N(1990F17)+
N(2000F15)0	N(2000F15)+
N(2040D13)0	N(2040D13)+
N(2100D15)0	N(2100D15)+
N(2105...1)0	N(2100S11)+
N(2190B)0	N(2190B)+
N(2190G17)0	N(2190G17)+
N(2220H19)0	N(2220H19)+
N(2650B)0	N(2650B)+
N(3030B)0	N(3030B)+
N(3245B)0	N(3245B)+
N(3690B)0	N(3690B)+
N(3755B)0	N(3755B)+
O	C= OXYGEN NUCLEUS
ODD-PRONG	
OMEGA	C= MESON RESONANCE
OMEGAPI(1160)0	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1160)+	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1160)-	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1240)0	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1240)+	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGAPI(1240)-	C= REPORTED MESON STATE DECAYING TO OMEGA PI
OMEGA-	C= THE S=-3 BARYON
OMEGA*(UNSPEC)	C= S=-3 BARYON RESONANCE OF UNSPEC I, MASS
OMEGA*(UNSPEC)0	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA*(UNSPEC)-	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA*(UNSPEC)--	C= Y=-2 BARYON OF UNSPEC MASS, I
OMEGA(1675)	C= MESON RESONANCE
OS	C= OSMIUM NUCLEUS
P	
PA	C= PROTACTINIUM NUCLEUS
PARTON	C= HYPOTHESIZED PARTICLE
PB	C= LEAD NUCLEUS
PC(3300-3500)0	C= GENERIC NAME FOR EITHER MESON(3500) OR MESON(3270) (O.V.)
PD	C= PALLADIUM NUCLEUS
PH	C= PHOSPHORUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
PHI	
PHIPRIME	C= UNSPECIFIED RECURRENCE OF THE PHI
PIDEL(I=1/2)	C= PI DELTA I=1/2 FINAL STATE
PIDEL(I=3/2)	C= PI DELTA I=3/2 FINAL STATE
PILAM(I=1)	C= I=1 PI LAMBDA SYSTEM OF UNSPEC MASS, FOR PHA
PIN(I=1/2)	C= PI NUCLEON I=1/2 INITIAL STATE (AND ELASTIC FINAL STATE)
PIN(I=3/2)	C= PI NUCLEON I=3/2 INITIAL STATE (AND ELASTIC FINAL STATE). DO NOT USE FOR THE SINGLE PHYSICAL STATES (PI+ P) OR (PI- N)
PION	C= EXACTLY ONE PION OF UNSPECIFIED CHARGE
PIONS	C= TWO OR MORE PIONS
PION(5)	C= ONE OR MORE PIONS
PIPI(I=0)	C= PI PI ISOSPIN 0 STATE

PIPI(I=1)	C= PI PI ISOSPIN 1 STATE	
PIPI(I=2)	C= PI PI ISOSPIN 2 STATE	
PIPI(S20)++	PIPI(S20)--	
PIPI(S-WAVE)0		
PISIG(I=0)	C= I=0 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA	
PISIG(I=0)	C= I=0 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA	
PISIG(I=1)	C= I=1 PI SIGMA SYSTEM OF UNSPEC MASS, FOR PWA	
PIO		
PIOS	C= 2 OR MORE PIOS	
PIO(S)	C= 1 OR MORE PIOS	
PI+		
PI+S	C= TWO OR MORE PI+S	
PI+(S)	C= ONE OR MORE PI+S	
PI-		
PI-S	C= TWO OR MORE PIS	
PI-(S)	C= ONE OR MORE PI-S	
PM	C= PROMETHIUM NUCLEUS	
PO	C= POLONIUM NUCLEUS	
PR	C= PRASEODYMIUM NUCLEUS	
PRONG	(= A CHARGED TRACK ORIGINATING FROM THE PRIMARY INTERACTIONS. ASSUMED OBSERVED OR UNOBSERVED NEUTRALS MAY BE PRESENT, BUT ARE IGNORED UNLESS SPECIFICALLY MENTIONED.	
PRONGS	C= TWO OR MORE PRONGS	
PRONG(S)	C= ONE OR MORE PRONGS	
PROTONS	C= TWO OR MORE PROTONS	
PROTON(S)	C= ONE OR MORE PROTONS	
PSI(3700)0		
PSI(3772)0		
PSI(4030)0		
PSI(4100)0		
PSI(4400)0		
PT	C= PLATINUM NUCLEUS	
PU	C= PLUTONIUM NUCLEUS	
P(SPECT)	C= SPECTATOR PROTON	
QH(1340)	QH(1340)0 QH(1340)+	QH(1340)-
QLOW(1240)	QLOW(1240)0 QLOW(1240)+	QLOW(1240)-
QUARK	C= QUARK OF UNSPECIFIED CHARGE	
QUARK(1/3)	C= QUARK OF CHARGE 1/3	
QUARK(2/3)	C= QUARK OF CHARGE 2/3	
Q(1240-1400)0	Q(1240-1400)+ Q(1240-1400)-	
RA	C= RADIUM NUCLEUS	
RB	C= RUBIDIUM NUCLEUS	
RE	C= RHENIUM NUCLEUS	
RH	C= RHODIUM NUCLEUS	
RHO(S21)++	C= A RHO PI RESONANCE	
RHO(S21)--	C= A RHO PI RESONANCE	
RHOPRIME(1250)0	RHOPRIME(1250)+ RHOPRIME(1250)-	
RHOPRIME(1550)0	RHOPRIME(1550)+ RHOPRIME(1550)-	
RHOPRIME(1600)0	RHOPRIME(1600)+ RHOPRIME(1600)-	
RHOO	RHO+ RHO-	
RHO(2100)0	RHO(2100)+ RHO(2100)-	
RHO(2275)0	RHO(2275)+ RHO(2275)-	
RN	C= RADON NUCLEUS	
RU	C= RUTHENIUM NUCLEUS	
S	C= INTERMEDIATE SCALAR BOSON	
SB	C= ANTIMONY NUCLEUS	
SC	C= SCANDIUM NUCLEUS	
SE	C= SELENIUM NUCLEUS	

SHOWER	C= SHOWER TRACK	
SI	C= SILICON NUCLEUS	
SIGMA	C= SIGMA(1190) OF UNSPECIFIED CHARGE	
SIGMA0	SIGMA+	SIGMA-
SIGMA/C(2430)0	C= CHARMED BARYON	
SIGMA/C(2430)+	C= CHARMED BARYON	
SIGMA/C(2430)++	C= CHARMED BARYON	
SIG(UNSPEC)	C= I=1, Y=0 PARTICLE OF UNSPEC MASS, CHARGE	
SIG(UNSPEC)0	C= I=1, Y=0 PARTICLE OF UNSPEC MASS	
SIG(UNSPEC)+	C= I=1, Y=0 PARTICLE OF UNSPEC MASS	
SIG(UNSPEC)-	C= I=1, Y=0 PARTICLE OF UNSPEC MASS	
SIG(1385P13)0	SIG(1385P13)+ SIG(1385P13)-	
SIG(1440D)0	C= I=1, Y=0 BUMPS	
SIG(1440D)+	C= I=1, Y=0 BUMPS	
SIG(1440D)-	C= I=1, Y=0 BUMPS	
SIG(1480D)0	C= I=1, Y=0 BUMPS	
SIG(1480D)+	C= I=1, Y=0 BUMPS	
SIG(1480D)-	C= I=1, Y=0 BUMPS	
SIG(1580D13)0	SIG(1580D13)+ SIG(1580D13)-	
SIG(1620B)0	C= I=1, Y=0 BUMPS	
SIG(1620B)+	C= I=1, Y=0 BUMPS	
SIG(1620B)-	C= I=1, Y=0 BUMPS	
SIG(1620S11)0	SIG(1620S11)+ SIG(1620S11)-	
SIG(1660P11)0	SIG(1660P11)+ SIG(1660P11)-	
SIG(1670D)0	C= I=1, Y=0 BUMPS	
SIG(1670D)+	C= I=1, Y=0 BUMPS	
SIG(1670D)-	C= I=1, Y=0 BUMPS	
SIG(1670D13)0	SIG(1670D13)+ SIG(1670D13)-	
SIG(1680P11)0	SIG(1680P11)+ SIG(1680P11)-	
SIG(1690D)0	C= I=1, Y=0 BUMPS	
SIG(1690B)+	C= I=1, Y=0 BUMPS	
SIG(1690D)-	C= I=1, Y=0 BUMPS	
SIG(1750S11)0	SIG(1750S11)+ SIG(1750S11)-	
SIG(1765D15)0	SIG(1765D15)+ SIG(1765D15)-	
SIG(1770B)0	SIG(1770B)+ SIG(1770D)-	
SIG(1770P11)0	SIG(1770P11)+ SIG(1770P11)-	
SIG(1840P13)0	SIG(1840P13)+ SIG(1840P13)-	
SIG(1880P11)0	SIG(1880P11)+ SIG(1880P11)-	
SIG(1900S11)0	SIG(1900S11)+ SIG(1900S11)-	
SIG(1915F)0	C= I=1, Y=0 BUMPS	
SIG(1915B)+	C= I=1, Y=0 BUMPS	
SIG(1915B)-	C= I=1, Y=0 BUMPS	
SIG(1915F15)0	SIG(1915F15)+ SIG(1915F15)-	
SIG(1920P13)0	SIG(1920P13)+ SIG(1920P13)-	
SIG(1940D13)0	SIG(1940D13)+ SIG(1940D13)-	
SIG(2000S11)0	SIG(2000S11)+ SIG(2000S11)-	
SIG(2030D)0	C= I=1, Y=0 BUMPS	
SIG(2030B)+	C= I=1, Y=0 BUMPS	
SIG(2030B)-	C= I=1, Y=0 BUMPS	
SIG(2030F17)0	SIG(2030F17)+ SIG(2030F17)-	
SIG(2070F15)0	SIG(2070F15)+ SIG(2070F15)-	
SIG(2080P13)0	SIG(2080P13)+ SIG(2080P13)-	
SIG(2100G17)0	SIG(2100G17)+ SIG(2100G17)-	
SIG(2140P13)0	SIG(2140P13)+ SIG(2140P13)-	
SIG(2210H11)0	SIG(2210H11)+ SIG(2210H11)-	
SIG(2215G19)0	SIG(2215G19)+ SIG(2215G19)-	
SIG(2250B)0	C= I=1, Y=0 BUMPS	
SIG(2250B)+	C= I=1, Y=0 BUMPS	
SIG(2250B)-	C= I=1, Y=0 BUMPS	

SIG(2260D(5))0	SIG(2250D(5))+ SIG(2260D(5))–
SIG(2455B)0	C= I=1, Y=0 BUMPS
SIG(2455B)+	C= I=1, Y=0 BUMPS
SIG(2455B)–	C= I=1, Y=0 BUMPS
SIG(2620B)0	C= I=1, Y=0 BUMPS
SIG(2620B)+	C= I=1, Y=0 BUMPS
SIG(2620B)–	C= I=1, Y=0 BUMPS
SIG(3000B)0	C= I=1, Y=0 BUMPS
SIG(3000B)+	C= I=1, Y=0 BUMPS
SIG(3000B)–	C= I=1, Y=0 BUMPS
SM	C= SAMARIUM NUCLEUS
SN	C= TIN NUCLEUS
SPLIT-DIBARYON	C= BARYON NUMBER TWO STATE
SR	C= STRONTIUM NUCLEUS
STAR	C= HIGH CHARGED MULTIPLICITY FINAL STATE
STRANGE	C= UNSPECIFIED STRANGE PARTICLE
STRANGES	C= TWO OR MORE UNSPECIFIED STRANGE PARTICLES
STRANGED	C= SAME AS STRANGE EXCEPT CHARGE IS SPECIFIED
STRANGE(S)	C= ONE OR MORE UNSPECIFIED STRANGE PARTICLES
SU	C= SULFUR NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
SUPERNUCLEUS	C= SUPER HEAVY NUCLEUS
S0	C= INTERMEDIATE SCALAR BOSON
S+	C= INTERMEDIATE SCALAR BOSON
S–	C= INTERMEDIATE SCALAR BOSON
S*(993)	C= FIFI OR KNIAH S-WAVE
S(1255)0	C= I=1, S-WAVE K-AK ENHANCEMENT
S(1255)+	C= I=1, S-WAVE K-AK ENHANCEMENT
S(1255)–	C= I=1, S-WAVE K-AK ENHANCEMENT
S(1930)0	S(1930)+ S(1930)–
S(2340)0	S(2340)+ S(2340)–
T	C= TRITIUM NUCLEUS
TA	C= TANTALUM NUCLEUS
TACHYON	
TAU	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV
TAU+	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV, ENCODED AS HVY-LEPTON PRIOR TO NOV 1977
TAU–	C= HEAVY SEQUENTIAL LEPTON OF MASS ABOUT 1.9 GEV, ENCODED AS HVY-LEPTON PRIOR TO NOV 1977
TB	C= TERBIUM NUCLEUS
TC	C= TECHNETIUM NUCLEUS
TE	C= TELLURIUM NUCLEUS
TH	C= THORIUM NUCLEUS
TI	C= TITANIUM NUCLEUS
TL	C= THALLIUM NUCLEUS
TM	C= THULIUM NUCLEUS
T(2200)0	T(2200)+ T(2200)–
U	C= URANIUM NUCLEUS
UNSPEC	C= PARTICLE OF UNSPECIFIED TYPE. FOR PARTICLE SEARCH. NORMALLY ITS USE SHOULD BE ACCOMPANIED BY A DATA COMMENT DESCRIBING THE PARTICLE OF SEARCH. USE FOR PARTICLES NOT YET FOUND AND OF UNKNOWN PROPERTIES. PRINCIPALLY FOR USE IN PROP
UNSPEC+	C= SAME AS UNSPEC EXCEPT THAT IT HAS CHARGE+
UNSPEC–	C= SAME AS UNSPEC EXCEPT THAT IT HAS CHARGE–
UPSI(UNSPEC)	C= UNSPECIFIED UPSILON PARTICLE
UPSI(10010)0	C= UPSILON(10010)
UPSI(10060)0	C= UPSILON(10060)
UPSI(5970)0	C= LEDERMANS UPSILON TO E+ E–
UPSI(9410)0	C= UPSILON(9410)
UPSI(9500)0	C= UPSILON(9500)
U(2360)0	U(2360)+ U(2360)–

VA	C= VANADIUM NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
VEE	C= SEEN UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAY
VEES	C= TWO OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
VEE(S)	C= ONE OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
VMESON	C= VECTOR MESON OF UNSPECIFIED MASS, CHARGE
VMESONO	C= VECTOR MESON OF UNSPECIFIED MASS
V(1110)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
V(1370)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
V(1550)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
V(1750)0	C= VECTOR MESON SEEN IN PHOTOPRODUCTION
V(1765)0	C= STATE SEEN IN E+E- ANNIH
V(1780)0	
V(1820)0	C= STATE SEEN IN E+E- ANNIH
V(1840)0	C= STATE SEEN IN E+E- ANNIH
W	C= INTERMEDIATE VECTOR BOSON
WT	C= TUNGSTEN NUCLEUS -- NOTE NAME IS NOT SAME AS CHEMICAL SYMBOL
W0	C= INTERMEDIATE VECTOR BOSON
W+	C= INTERMEDIATE VECTOR BOSON
W–	C= INTERMEDIATE VECTOR BOSON
XE	C= XENON NUCLEUS
XI0	XI–
XI*3/2(UNSPEC)	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)0	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)+	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)–	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*3/2(UNSPEC)---	C= I=3/2, Y=-1 BARYON OF UNSPEC MASS
XI*(UNSPEC)	C= I=UNSPEC, Y=-1 BARYON OF UNSPEC MASS
XI*(UNSPEC)0	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)+	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)–	C= Y=-1 BARYON OF UNSPEC MASS, I
XI*(UNSPEC)---	C= Y=-1 BARYON OF UNSPEC MASS, I
XI(UNSPEC)	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(UNSPEC)0	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(UNSPEC)–	C= I=1/2, Y=-1 BARYON OF UNSPEC MASS
XI(1530P(3))0	XI(1530P(3))–
XI(1630)0	XI(1630)–
XI(1760)0	XI(1760)–
XI(1820)0	XI(1820)–
XI(1870)0	XI(1870)–
XI(1940)0	XI(1940)–
XI(2030)0	XI(2030)–
XI(2130)0	XI(2130)–
XI(2250)0	XI(2250)–
XI(2400)0	XI(2400)–
XI(2500)0	XI(2500)–
XI(2600)0	XI(2600)–
XO(1430)	
XI(1440)0	XI(1440)+ XI(1440)–
XI(1795)0	XI(1795)+ XI(1795)–
XI(1690)0	
XI(1750)–	C= I=1=1 MESON DECAYING INTO 3PI
X(2500-3600)	C= ANY MESON BUMP SEEN IN PRODUCTION EXPERIMENTS IN THAT MASS REGION (EXCEPT THOSE ASSOCIATED WITH I/PSI, ETC.)
X(2750)0	C= SEEN IN E+ E- ANNIHILATIONS
X(2830)	C= JP=0- CHARMONIUM STATE
X(960)	C= NON-STRANGE MESON BUMP
Y	C= YTTRIUM NUCLEUS

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

YB	C= YETTERBIUM NUCLEUS
YPART	C= HIPAT'S Y-PARTICLE, MASS 2-4 GEV, PROBABLY HADRON
Y+2(UNSPEC)	C= I=2, Y=0 BARYON OF UCSPEC MASS, CHG
Y+2(UNSPEC)++	C= I=2, Y=0 BARYON OF UNSPEC MASS
Y+(UNSPEC)	C= I=0 BAR:ON OF UNSPEC ISOSPIN AND MASS
Y+(UNSPEC)0	C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
Y+(UNSPEC)+	C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
Y+(UNSPEC)-	C= Y=0 BARYON OF UNSPEC ISOSPIN AND MASS
ZN	C= ZINC NUCLEUS
ZR	C= ZIRCONIUM NUCLEUS
Z0(UNSPEC)	C= EXOTIC I=0, Y=2 BARYON OF UNSPEC MASS
Z0(UNSPEC)+	C= EXOTIC I=0, Y=2 BARYON OF UNSPEC MASS
Z0(1780)+	C= EXOTIC I=0, Y=2 BARYON
Z0(1865)+	C= EXOTIC I=0, Y=2 BARYON
Z1(UNSPEC)	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)0	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)+	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(UNSPEC)++	C= EXOTIC I=1, Y=2 BARYON OF UNSPEC MASS
Z1(1900)0	C= EXOTIC I=1, Y=2 BARYON
Z1(1900)+	C= EXOTIC I=1, Y=2 BARYON
Z1(1900)++	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)0	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)+	C= EXOTIC I=1, Y=2 BARYON
Z1(2150)++	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)0	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)+	C= EXOTIC I=1, Y=2 BARYON
Z1(2500)++	C= EXOTIC I=1, Y=2 BARYON
Z*(UNSPEC)	C= EXOTIC I=UNSPEC, Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)0	C= EXOTIC Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)+	C= EXOTIC Y=2 BARYON OF UNSPEC MASS
Z*(UNSPEC)++	C= EXOTIC Y=2 BARYON OF UNSPEC MASS, I
0GAMMA	C= SPECIAL REACTIONS WITH NOT ALL PARTICLES SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT OF NOTING NO GAMMAS WERE PRODUCED, E.G. PI- P --> ANYTHING. 0GAMMA, USE ONLY IN RARE CASES
0P	C= SPECIAL REACTIONS WITH NOT ALL PARTICLES SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT OF NOTING NO PROTONS WERE PRODUCED, E.G. PI- P --> ANYTHING. 0P, USE ONLY IN RARE CASES
0PRONG	C= USE FOR REACTIONS WITH NO CHARGED PARTICLES ORIGINATING FROM PRIMARY VTX. (IGNORES OBSERVED OR UNOBSERVED VEES.
0VEE	C= SPECIAL REACTIONS WITH NOT ALL PARTICLES SPECIFIED IN WHICH AUTHORS MAKE A SPECIAL POINT OF NOTING NO VEES WERE PRODUCED, E.G. PI- P --> ANYTHING 0VEE, USE ONLY IN RARE CASES
(CHARGED)	C= ZERO OR MORE CHARGED PARTICLES, DOES NOT INCLUDE NEUTRALS (SEE PRONG ENTRIES)
(CHGD-HADRONS)	C= ZERO OR MORE CHGD HADRONS
(ELECTRONS)	C= ZERO OR MORE ELECTRONS
(FRAGS)	C= ZERO OR MORE NUCLEAR FRAGMENTS
(GAMMAS)	C= ZERO OR MORE GAMMAS
(HADRONS)	C= ZERO OR MORE HADRONS
(HE)	C= ZERO OR MORE HE NUCLEI
(KAONS)	C= ZERO OR MORE UNSPEC KAONS
(LAMBDAS)	C= ZERO OR MORE LAMBDAS
(LEPTONS)	C= ZERO OR MORE UNSPECIFIED LEPTONS
(MESONS)	C= ZERO OR MORE MESONS
(MUONS)	C= ZERO OR MORE MUONS
(MUON)	C= EITHER ZERO OR ONE MUON
(NEUTRALS)	C= ZERO OR MORE NEUTRAL PARTICLES -- DO NOT USE FOR MM.GE.0

PARTICLE VOCABULARY - ORDERED ALPHABETICALLY (CONT'D)

(NUCLEONS)	C= ZERO OR MORE UNSPEC NUCLEONS
(NUS)	C= ZERO OR MORE UNSPECIFIED NEUTRINOS
(N)	C= ZERO OR MORE NEUTRONS
(PIONS)	C= ZERO OR MORE PIONS
(PIOS)	C= 0 OR MORE PIOS
(PI+S)	C= ZERO OR MORE PI+S
(PI-S)	C= ZERO OR MORE PI-S
(PRONGS)	C= ZERO OR MORE PRONGS PLUS POSSSIBLE NEUTRALS
(P)	C= ZERO OR MORE PROTONS
(STHANGES)	C= ZERO OR MORE UNSPECIFIED STRANGE PARTICLES
(VEES)	C= ZERO OR MORE UNSPECIFIED NEUTRAL STRANGE PARTICLE DECAYS
.GT.1GAMMA	
.GT.1PRONG	C= MORE THAN ONE PRONG
.GT.10PRONG	C= MORE THAN 10 PRONGS
.GT.11PRONG	
.GT.12PRONG	
.GT.13PRONG	C= MORE THAN 13 PRONGS
.GT.14PRONG	
.GT.15PRONG	
.GT.16PRONG	C= MORE THAN 16 PRONGS
.GT.17PRONG	C= MORE THAN 17 PRONGS
.GT.18PRONG	
.GT.19PRONG	
.GT.2GAMMA	
.GT.2PRONG	C= MORE THAN TWO PRONGS
.GT.20PRONG	
.GT.21PRONG	
.GT.22PRONG	C= MORE THAN 22 PRONG
.GT.23PRONG	
.GT.24PRONG	
.GT.25PRONG	
.GT.26PRONG	
.GT.27PRONG	
.GT.28PRONG	
.GT.29PRONG	
.GT.3GAMMA	
.GT.3PRONG	C= MORE THAN 3 PRONGS
.GT.30PRONG	
.GT.4GAMMA	
.GT.4PRONG	C= MORE THAN 4 PRONGS
.GT.5GAMMA	
.GT.5PRONG	C= MORE THAN 5 PRONGS
.GT.6GAMMA	
.GT.6PRONG	C= MORE THAN 6 PRONGS
.GT.7GAMMA	
.GT.7PRONG	C= MORE THAN 7 PRONGS
.GT.8GAMMA	
.GT.8PRONG	C= MORE THAN 8 PRONGS
.GT.9GAMMA	
.GT.9PRONG	C= MORE THAN 9 PRONGS
.LT.1GPRONG	
.LT.2PRONG	
.LT.3PRONG	
.LT.36PRONG	
.LT.4PRONG	
.LT.5PRONG	
.LT.5PRONG	
.LT.7PRONG	
.LT.8PRONG	
.LT.9PRONG	

REACTION DATA DESCRIPTOR VOCABULARY

The reaction data descriptors refer to the nature of the data which are presented.

Any of the variables below can also be understood to refer to functions (including averages or other moments, but not derivatives or integrals) of that variable, unless such functions involve other variables from the list. Histograms which are presented in terms of cross section/bin, number of events/bin, or some form of invariant cross section/bin are all encoded similarly – by the variable plotted on the abscissa.

For data which are presented as a function of two variables, we sometimes use a "multiplied form", for example, MASS*MASS. This occurs most commonly for scatter plots, but also applies to contour plots, and to a series (≥2) of histograms of one variable as a function of cuts in another variable. Use of more than 2 variables is not allowed.

If there is a kinematic ambiguity in the choice of variables, we encode according to the authors' choice of axes.

GENERAL

CS	*Cross section, cross section ratio, and 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.
ANGP	Production angular distribution, i.e., of one or more of the outgoing particles relative to one of the incident particles. Includes $d\sigma/d\Omega$, $d\sigma/dt$, $d\sigma/dt'$, $d\sigma/dP_\perp^2$, etc. Also the equivalent, expressed as moments or polynomial expansion coefficients. Also invariant cross section as a function of production angle or t. By convention, does not include rapidity or its approximation, $y_{lab} = \ln \tan \theta/2$ (see *P*). Includes impact parameters and slopes of $d\sigma/dt$.
ANG	Angular distribution between or among particles in the final state. Includes also *angular distribution 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 produced in the final state, even though the coordinate system axes may be defined with respect to the incident particles (e.g., Jackson angles, etc.) *Also the equivalent, expressed as moments,* etc.
MASS	Mass spectrum, mass^2 spectrum, or invariant cross section as a function of mass or mass squared.
PT	Transverse momentum (p_T) spectrum, p_T^2 spectrum, or invariant cross section as a function of p_T. Does not include momentum transfer spectrum (see ANGP). Includes transverse mass $= \sqrt{p_T^2 + m^2}$, unless the particle mass (m) is also variable.
P	*Any function of outgoing momentum or energy* not included in any of the above. Includes, E, y (rapidity, also rapidity gaps), x ($= p_\parallel^*/p_{max}^*$), $p_\parallel$, or other momentum or energy variable.
FV	(for proposals only) Experiment proposes to measure complete four-vectors, without specifying exactly what analysis of them will be done.

AMPLITUDES

Functions linear in the amplitudes (i.e., involving the phases).

PWA	Partial-wave amplitudes. Includes formation partial waves and production partial waves. Any attempt to measure amplitudes of definite j (angular momentum). *Includes scattering length and effective range.*
AMP	Amplitude not decomposed into states of definite j. Re/Im ratio, helicity amplitude, etc.

VARIABLES RELATED TO SPIN

DME	Density matrix elements, including joint density matrix elements.
POL	Final state spin-1/2 polarization measurement. Includes Wolfenstein spin rotation parameters. Includes measurement of asymmetry *off a polarized target* when it is equal to the final state polarization.
ASYM	Asymmetry in scattering *off a polarized target and/or with a polarized beam (with* exception of special case noted under POL).

REACTION DATA DESCRIPTOR VOCABULARY (CONT'D)

MULTIPLICITIES

MULT	Multiplicity distribution, its average, ratio, or moments. Generally used in *association with final states of the form* N(PRONG), N(HADRON), etc., so that the individual final states are usually not listed.

FOR REVIEW, RAPPORTEUR TALK, OR COMPILATION

MANY	A large assortment of the above descriptors.

EXAMPLES

DATA	DATA DESCRIPTOR
Dalitz plot	MASS*MASS or P*P
Chew-Low Plot	*ANGP*MASS*
Longitudinal Phase Space Plot	P*P
Peyron Plot	PT*P
$d\sigma/du$	ANGP
$\int_0^{+\infty} \mathcal{E}\,\frac{d^3\sigma}{dp^3}\,dp$	ANGP
$\int_0^{4\pi} \int_0^{\infty} \mathcal{E}\,\frac{d^3\sigma}{dp^3}\,dp_T\,d\phi$	P
average outgoing γ-ray energy as a function of beam momentum.	P
$\frac{1}{dy}\,\frac{1}{\sigma}\,\frac{d\sigma}{dp_\perp^2}$, *for ≥2 bins in y*	P*P
$\frac{1}{\Delta m_i}\,\frac{1}{\sigma}\,\frac{d\sigma}{dy}$, for ≥2 bins in m_i	PT*P if m_i is a function of $p_\perp$ only P*P otherwise
$\frac{1}{\Delta\Omega^{lab}}\,\frac{\mathcal{E}^{lab}}{(p^{lab})^2}\,\frac{d\sigma}{dp^{lab}}$, for ≥2 bins in p^{lab}	ANGP*P
$\frac{1}{\Delta p^{lab}}\,\frac{\mathcal{E}^{lab}}{(p^{lab})^2}\,\frac{d\sigma}{d\Omega^{lab}}$, for ≥2 bins in p^{lab}	ANGP*P
$\frac{1}{(\sqrt{s})_i}$ for ≥2 intervals in mass	ANGP*MASS
rapidity correlation contour plot	P*P

SUMMARY OF DD

DD	TYPICAL USE
CS	cross section.
ANGP	*$d\sigma/dt$, $d\sigma/d\Omega$, $d\sigma/du$, dN/dt, etc.*
ANG	ang. dist. between particles in final state
MASS	mass, mass^2
PT	p_T, p_T^2
P	x, y, $p_\parallel$, E, Δy
FV	(proposals only) four-vectors
PWA	production or formation partial-wave analysis
AMP	amplitudes not decomposed into states of definite J
DME	density matrix elements
POL	final state spin-1/2 polarization measurement
ASYM	asymmetry in scattering off polarized target
MULT	multiplicity distribution, its average or other moments
MANY	reviews and compilations only

PARTICLE PROPERTY VOCABULARY

The following descriptors are used to designate various types of particle property data:

MASS Mass or mass difference

W Total width, total rate, mean life. Also difference and ratios of these.

PW Partial widths, partial rate, as well as any ratio or product of these such as branching ratio or integrated cross section. Also upper limits on these. Also differences of these unless included in DEC (DEC includes charge asymmetry δ for $K_L \to \pi l \nu$, η for $K_L \to \pi^+\pi^-$, $x+iy$ for $K_S \to \pi^+\pi^-\pi^0$).

MOM Electric moment, magnetic moment, charge radius, moment ratios.

DEC Weak or electromagnetic decay parameter as defined by Review of Particle Properties, Phys. Letters 75B, No. 1, April 1978, Sec. VI:

ρ, η, ξ, δ, h, $\lvert g_A/g_V \rvert$, ϕ_{AV}, g_S, g_T, g_P	for μ decay
slopes g and slope difference a(CP viol)	for $K \to 3\pi$
form factors f_+, f_-, f_0, λ_+, λ_-, λ_0, ξ, f_S, f_T	for $K \to \pi l \nu$
CP violation parameter $x+iy$	for $K_S \to \pi^+\pi^-\pi^0$
charge asymmetry δ	for $K_L \to \pi l \nu$
CP viol. parameters η_{+-}, η_{00}, ϕ_{+-}, ϕ_{00}, ϵ, ϵ'	for $K_L \to \pi\pi$
$\Delta S \neq \Delta Q$ parameter x	for $K^0 \to \pi^+ l^- \nu$ or $\bar{K}^0 \to \pi^- l^+ \nu$
charge asymmetry	for η decay
$\lvert g_A/g_V \rvert$, δ, α, β, γ, ϕ, Δ	for baryon decay

ON Quantum numbers.

EX Existence (e.g., particle search result, even if negative, or evidence for presence in a mass spectrum).

111.C.1

ACCELERATOR VOCABULARY

The abbreviations for the major high energy physics facilities are listed below. For most accelerators, the abbreviation is simply the code for the institution at which the machine is located (a complete list of institution codes may be found in the Institution Vocabulary, Section III.G). For additional facilities at the same institution, an appropriate modifier is appended, as in CERN-SPS.

For a cosmic ray experiment, we use COSM as the accelerator name. We include only experiments which give information on particle interactions or properties.

We use NONE for the rare cases (mostly particle searches) in which the experiment does not use an accelerator or cosmic rays. We use MANY for reviews and compilations covering data obtained at several (usually unspecified) accelerators.

Energies listed are approximate maximum energies of circulating beams. For colliding beam machines, only one beam is listed.

AERE-CYC	HARWELL CYCLOTRON
ANL	ARGONNE (ZGS) PROTON SYNCH. (12.7 GEV)
ANUC-CYC	CANBERRA CYCLOTRON
BIRM-CYC	BIRMINGHAM CYCLOTRON
BNL	BROOKHAVEN (AGS) PROTON SYNCH. (33 GEV)
BNL-COSMOTRON	BROOKHAVEN (COSMOTRON) PROTON SYNCH. (3 GEV)
BONN	BONN ELECTRON SYNCH. (2.5 GEV)
BONN-500	BONN ELECTRON SYNCHROTRON (500 MEV)
CEA	CAMBRIDGE (CEA) ELECTRON SYNCH. (6.3 GEV)
CEA-BYPASS	CAMBRIDGE (CEA BYPASS) ELECTRON-POSITRON RING (1-1.5 GEV)
CEN-SACLAY	SEE SACL (BELOW)
CERN	CERN (CPS) PROTON SYNCH. (28 GEV)
CERN-CYC	CERN CYCLOTRON (600 MEV)
CERN-ISR	CERN (ISR) PROTON-PROTON ISR (11-31 GEV)
CERN-MSR	MUON STORAGE RING AT CERN
CERN-SPS	SUPER PROTON SYNCHROTON AT CERN
CHIC-CYC	CHICAGO CYCLOTRON
CIT	CAL. TECH. ELECTRON SYNCH. (1.5 GEV)
CMU-CYC	CARNEGIE-MELLON CYCLOTRON
COCKROFT	COCKROFT-WALTON ACCELERATOR
COLO-CYC	U. COLORADO CYCLOTRON (INACTIVE)
COLU-CYC	COLUMBIA CYCLOTRON
CORN	CORNELL ELECTRON SYNCH. (10 GEV)
COSM	COSMIC RAYS
DARE	DARESBURY (NINA) ELECTRON SYNCH. (5.2 GEV)
DARM-LINAC	65 MEV LINAC
DESY	HAMBURG DEUTCHES ELECTRON SYNCH. (7.5 GEV)
DESY-DORIS	HAMBURG (DORIS) ELECTRON-POSITRON RING (5 .EV)
DESY-LINAC	DESY LINEAR ACCELERATOR (HAMBURG, GERMANY)
DESY-PETRA	PETRA E+E- COLLIDING BEAMS
DUKE-CYC	DUKE CYCLOTRON
FNAL	FNAL BATAVIA PROTON SYNCH. (500 GEV)
FRAS	FRASCATI ELECTRON SYNCH. (1.1 GEV)
FRAS-ADONE	FRASCATI (ADONE) ELECTRON-POSITRON RING (1.2 GEV)
GLAS	GLASGOW ELECTRON SYNCH. (320 MEV)
GLAS-CYC	GLASGOW CYCLOTRON
HARV-CYC	HARVARD CYCLOTRON
ILL	UNIV. OF ILL. ELECTRON SYNCH. (300 MEV)
ILL-CYC	URBANA CYCLOTRON
ITEP	ITEP MOSCOW PROTON SYNCH. (7 GEV)
JINR	JINR DUBNA PROTON SYNCH. (10 GEV)
KEK	KEK (JAPAN) PROTON ACCELERATOR (12 GEV)
KFAJ-CYC	INST. OF NUC.PHYS. OF KFA, JULICH, DDR
KHAR	KHARKOV ELECTRON LINEAR ACCEL. (2 GEV)
LAMPF	LOS ALAMOS MESON/PROTON FACTORY (LOS ALAMOS)
LASL	LOS ALAMOS (LAMPF) PROTON LINEAR ACCEL. AND MESON FACTORY (0.8 GEV)

ACCELERATOR VOCABULARY (CONT'D)

LBL	LAWRENCE BERKELEY (BEVATRON) PROTON SYNCH. (6.2 GEV)
LBL-CYC-184IN	THE LBL 184 INCH CYCLOTRON
LBL-CYC-88IN	THE LBL 88 INCH CYCLOTRON
LEBD-FIAN	LEBEDEV PHYSICS INST. 265 MEV SYNCH. (265 MEV)
LEBD-650	LEBEDEV PHYSICS INST. SYNCH. (650 MEV)
LENI	LENINGRAD INST. OF NUCL. PHYS. SYNCHROCYCLOTRON (AT LEAST 500 MEV)
LIVP-CYC	LIVERPOOL CYCLOTRON
LLL-CYC	LIVERMORE CYCLOTRON
LRC-CYC	*LEWIS CYCLOTRON*
LUND	ELECTRON SYNCHROTRON AT LUND (1.1 GEV)
MANY	FOR SOME REVIEWS AND COMPILATIONS
MANZ-LINAC	ELECTRON LINAC AT MAINZ (300 MEV)
MICH-CYC	ANN ARBOR CYCLOTRON
MINN-LINAC	U. MINNESOTA LINEAR PROTON (68 MEV) (INACTIVE)
MIT-BLA	*MIT ELECTRON LINAC*
MIT-CYC	MIT CYCLOTRON
NONE	NO ACCELERATOR USED
NOVD-VEPP-NAP	PROTRON-ANTIPROTON VERSION OF NOVO-VEPP-4 (.LT. 20 GEV ECM)
NOVD-VEPP-2M	E+E- STORAGE RING AT NOVOSIBIRSK (670 MEV ECM)
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 ECM)
NOVO-VEPP-4	ELECTRON-POSITRON RING AT NOVOSIBIRSK, ALSO TO BE USED AS SYNCHROTRON RADIATION SOURCE (7 GEV ECM)
ORNL-CYC	OAK RIDGE CYCLOTRON
ORSA	ORSAY ELECTRON LINEAR ACCEL. (2 GEV)
ORSA-ACO	*ORSAY (ACO) ELECTRON-POSITRON RING* (0.5 GEV)
ORSA-DCI	NEW E+ E- STORAGE RING AT ORSAY
PPA	PRINCETON-PENNSYLVANIA (PPA) PROTON SYNCH. (3 GEV)
PRIN-CYC	PRINCETON CYCLOTRON
PTIU-LINAC	ELECTRON LINAC AT PHYS. TECH. INST. OF UKRAINE (PTIU)
PURD	PURDUE UNIV. ELECTRON SYNCH. (335 MEV)
REACTOR	*GENERAL NUCLEAR REACTOR*
RIEL	RUTHERFORD (NIMROD) PROTON SYNCH. (8 GEV)
ROCH-CYC	ROCHESTER CYCLOTRON
SACL	CEA SACLAY (SATURNE) PROTON SYNCH. (3 GEV)
SACL-LINAC	CEA SACLAY ELECTRON LINAC
SERP	(NEP SERPUKHOV PROTON SYNCH. (76 GEV)
SIN	SCHWEIZERISCHE INST. FUR NUKLARFORSCHUNG
SIRIUS	RUSSIAN ACCELERATOR
SLAC	STANFORD ELECTRON LINEAR ACCEL. (22 GEV)
SLAC-PEP	SLAC POSOTRON-ELECTRON PROJECT (8-36 GEV CM)
SLAC-SPEAR	STANFORD (SPEAR) ELECTRON-POSITRON RING (4.2 GEV)
SREL-CYC	SPACE RADIATIONS EFFECTS LABORATORY CYCLOTRON, LOCATED IN VIRGINIA
SREL-LINAC	*SPACE RADIATION EFFECTS LAB LINAC, NORFOLK VA*
STAN	STANFORD MARK 3 LINEAR ELECTRON ACCELERATOR (1 GEV)
TMSK	TOMSK ELECTRON SYNCH. (1.5 GEV)
TOKY	INS TONYO ELECTRON SYNCH. (1.3 GEV)
TOKY-CYC	TONYO U. CYCLOTRON
TRIUMF	CANADIAN TRIANGLE UNIVERSITY MESON FACILITY
UCD-CYC	*DAVIS CYCLOTRON*
UCLA-CYC	UCLA CYCLOTRON
UNSPEC	UNSPECIFIED
UPPS-CYC	UPPSALA CYCLOTRON
VAN-DE-GRAAFF	GENERAL VAN-DE-GRAAFF ACCELERATOR
WISC	U. WISCONSIN ELECTROSTATIC (2.5 MEV) (INACTIVE)
WUSL-CYC	*UNIV. OF WASHINGTON CYCLOTRON*
YERE	YEREVAN (AMUS) ELECTRON SYNCH. (6.1 GEV)
?	UNKNOWN ACCELERATOR

DETECTOR VOCABULARY

SPECIFIC NON-BUBBLE-CHAMBER FACILITIES

We choose the detector name from this list, if possible. A facility is an apparatus which *is (or will be) used for more than one experiment (with, perhaps, modifications)* or which will *likely produce a large number* of publications. Bubble-chamber facilities are listed in the next section.

ARGO	ARGO Spectrometer System at BNL
CBS	*CERN Boson Spectrometer*
CCS	Chicago Cyclotron Spectrometer at FNAL
CELLO	DESY-PETRA spectrometer system
CERN-IHEP	CERN-IHEP Boson Spectrometer at Serpukhov
CERN-MUNICH	CERN-MUNICH spectrometer at CERN
CITF	Cal Tech-FNAL Neutrino detector system
DASP	DESY-DORIS Double Arm Spectrometer System
DELCO	*SLAC-SPEAR detector system*
DVMS	BNL Double Vee Magnetic Spectrometer
EMS	ANL Effective Mass Spectrometer
FCIT	*Fermilab Gas Jet Target Facility*
HPW	HARV-PENN-WISC neutrino detector at *BNL*
HPWF	HARV-PENN-WISC neutrino detector at FNAL
HRS	SLAC-PEP high resolution spectrometer
JADE	*DESY-PETRA spectrometer system*
LASS	SLAC Large Aperature Solenoid Spectrometer
MAC	SLAC-PEP magnetic calorimeter
MARK-1	DESY-PETRA spectrometer system
MARK-2	SLAC-SPEAR spectrometer system
MEA	Magnetic detector at ADONE
MPS	BNL Multiparticle Spectrometer
NEULAND	Reincarnated *HPWF*
NICE	Non-magnetic precision spectrometer at Serpukhov
OMEGA	CERN OMEGA Spectrometer
PLUTO	DESY-DORIS Superconducting Solenoid Spectrometer
RMS	*Ruthrford Magnetic Spectrometer Facility*
SASF	Single Arm Spectrometer Facility at FNAL
SFM	CERN-ISR Split Field Magnet
SIGMA	*CERN-IHEP magnetic spectrometer* at Serpukhov
SLACKLSF	SLAC KL Spectrometer Facility
SMAG	SLAC-SPEAR Magnetic Detector
SMAG-LGW	SLAC-LBL SMAG with Lead Glass Wall
SPEC-GM	SERP G-m spectrometer system
SSF	SLAC Spectrometer Facility - 1.6, 8, and/or 20 GeV
TASSO	DESY-PETRA spectrometer system
TELAS	*KEK Target Embodied Large Aperature* Specirometer
TOKIWA	KEK spectrometer
TPC	SLAC-PEP time projection chamber
WAS-CISR	Wide Angle Spectrometer at the *CERN-ISR*
WA1	*CERN-DORT-HEID-SACL-BGNA Neutrino Detector at SPS*
2-GAMMA	*SLAC-PEP detector to study 2-gamma process*

GENERIC NON-BUBBLE CHAMBERS

We choose the single element below most closely describing the detector system used.

General:

CC	Cloud Chamber
CALO	Calorimeter
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. Use only if no other name appropriate.
EMUL	Emulsion. Also used for detectors like plastic where tracks are *"frozen" in a solid medium.*
OTHER	Rare non-electronic detectors (e.g., moon, ocean floor)
STRC	Streamer Chamber
TRAD	transition radiation detector

For a spectrometer system, including magnets for momentum analysis:

DAS	Double Arm Spectrometer
SAS	Single Arm Spectrometer
WAS	*Wide Angle Spectrometer*
SPEC	General spectrometer system not fitting one of the above or where specific type not given.

DETECTOR VOCABULARY (CONT'D)

For other electronic detector systems, not including magnets for momentum analysis:

CNTR	Counters (no chambers)
OSPK	Optical spark chambers
WIRE	Wire chambers (proportional wire chambers, drift chambers). Includes all non-optical spark chambers, by convention.
SPRK	Spark chamber of *unspecified type.*

For reviews and compilations covering several experiments:

MANY	
If unspecified:	
?	

BUBBLE CHAMBERS

We refer to bubble chambers according to *the fill at the time the experiment* was run.

HBC	Hydrogen filled
DBC	Deuterium filled
HEBC	Helium filled
HLBC	Heavy Liquid filled

To the above, is appended one or *two qualifiers (joined by hyphens),* selected from the following lists:

Qualifier 1, Name

at ANL:	at Dubna (JINR):	at PPA:
10IN	24LIT	15IN
30IN	26LIT	
40IN	180LIT	at RHEL:
50CM	50CM	30CM
12FT	55CM	80CM
ANLCMU	1M	1.5M
	1.2M	180LIT
at BNL:		OXRHEL
6IN	at FNAL:	
14IN	30IN	at SACLAY:
20IN	15FT	35CM
30IN		40CM
31IN	at FRAS:	81CM
80IN	30CM	82CM
7FT		180LIT
	at ITEP:	
at CERN:	50CM	at SLAC:
30CM	80CM	15IN
32CM	1.2M	40IN
80CM	1.5M	82IN
81CM	2M	
1.2M	2LIT	at Serpukhov (IHEP):
1.5M	120LIT	180LIT
2M	150LIT	MIRA
NB150C		SKAT
HYBUC	at KEK:	2M (LUDMILLA)
GARGA	1M	
DEBC		If not specified:
1.1M3	at LBL:	UNSPEC
	15IN	
at DESY:	25IN	
80CM	30IN	
	72IN	

Qualifier 2, Use only if appropriate.

HYB	-- hybrid system
RAP	-- rapid cycling
TST	-- track sensitive target

Examples:

HLBC-15FT-HYB
HBC-15FT
HEBC-UNSPEC

REFERENCE VOCABULARY

REFERENCE VOCABULARY - JOURNAL ABBREVIATIONS

AANLF	ATTI ACCAD. NAZ. LINCEI, REND., CLASSE DI SCIENZE FIS. (ITALY)
AASF	ANNUALS OF THE ACADEMY OF SCIENCE, FINLAND
AEU	ATOMIC ENERGY (USSR)
AF	ARKIV FOR FYSIK
AFS	ANALES DE FISICA (SPAIN)
AFST	ARKIV FOR DET FYSISKE SEMINAR I TRONDHEIM (NORWAY)
AICHINS	AICHI UNIV. OF EDUCATION RESEARCH REPORT, NATURAL SCIENCE (JAPAN)
AJM	AMERICAN JOURNAL OF MATHEMATICS
AKE	ATOMKERNENERGIE (WEST GERMANY)
AL	ASTROPHYSICS LETTERS
AMP	ACTA MICROBIOLOGICA POLONICA (POLAND)
ANYAS	*ANNALS OF THE NEW YORK ACADEMY OF SCIENCES* (USA)
AO	APPLIED OPTICS
AP	ADVANCES IN PHYSICS
APA	ACTA PHYSICA AUSTRIACA
APAS	ACTA PHYSICA AUSTRIACA, SUPPLEMENTUM
APASH	ACTA PHYSICA ACADEMIAE SCIENTIARUM HUNGARICAE
APL	ANNALEN DER PHYSIK (LEIPZIG, EAST GERMANY)
APNY	ANNALS OF PHYSICS (NEW YORK)
APP	*ACTA PHYSICA POLONICA*
APPA	ANNALES DE PHYSIQUE, PARIS
APPRTT	ACTA POLYTECHNICA (PRAGUE) (RADA) IV TECHNICKO-TEORETICKA (CZECHOSLOVAKIA)
APSL	ACTA PHYSICA SLOVACA
ARNS	ANNUAL REVIEW OF NUCLEAR SCIENCE
ARPRF	ACADEMIA REPUBLICII POPULARE ROMINE, STUD. CERCET. *FIZICA*
AS	ANNALS OF SCIENCE
ASCIF	*ANALELE STIINTIFICE ALE UNIV. AL. I. CUZADIN IASI, SEC. IB FIZICA*
ASTLP	AUSTRALIAN PHYSICIST
ATOMKI	ATOMKI (ATOMMAG KUTATO INTEZET) KOZLEMENYEK (HUNGARY)
ATOMKIS	ATOMKI SUPPLEMENT (HUNGARY)
AUJP	AUSTRALIAN JOURNAL OF PHYSICS
BAPS	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
BASUP	BULLETIN OF THE ACADEMY OF SCIENCE, PHYS. SER, USSR, (SEE IANSF)
BCSARB	BULLETIN DE LA CLASSE DES SCIENCES, ACADEMY ROYALE DE BELGIQUE
BIPB	*BULETINUL INSTITUTULUI POLITEHNIC DIN BRASOV, SERIA B (ROMANIA)*
BIST	BULL. INF. SCI. TECH. (PARIS)
BJP	BULGARIAN JOURNAL OF PHYSICS
BSRSL	BULLETIN DE LA SOCIETE ROYALE DES SCIENCES DE LIEGE (BELG(UK)
BUP	BULL. UNION PHYSICIENS (FRANCE)
CC	CERN COURIER
COP	CAHIERS DE PHYSIQUE
CJP	CANADIAN JOURNAL OF PHYSICS
CLPH	*COLLECT. PHENOMENA*
CNPP	COMMENTS ON NUCLEAR AND PARTICLE PHYSICS
CP	CONTEMPORARY PHYSICS
CPM	COMMENTATIONES PHYSICO-MATHEMATICAE (FINLAND)
CRABS	COMPTES RENDUS DE L'ACADEMIE BULGARE DES SCIENCES
CRAS	COMPTES RENDUS HEBDOMADAIRES DES SEANCES DE L'ACADEMIE DES SCIENCES
CRYOG	CRYOGENICS
CSJ	CURRENT SCIENCE (INDIA)
CSJP	*CZECHOSLOVAK JOURNAL OF PHYSICS*
DANS	DOKLADY AKADEMII NAUK SSSR
DANUS	DOKLADY AKADEMII NAUK UZBEKSKOJ SSR
FC	FYZIKALNY CASOPIS (CZECHOSLOVAKIA)
FIZ	FIZIKA
FP	FORTSCHRITTE DER PHYSIK
FQ	FIELDS AND QUANTA
GK	GENSHIKAKU KENKYU (NUCLEAR STUDY), JAPAN
GVTUZF	GODISHNYK NA VISSHITE TEKH. UCHEBNI ZAVEDENIYA, FIZ. (BULGARIA)
HAP	HUNGARICA ACTA PHYSICA
HP	HANDBUCH DER PHYSIK
HPA	HELVETICA PHYSICA ACTA
HPAS	*HELVETICA PHYSICA ACTA, SUPPLEMENTUM*

REFERENCE VOCABULARY - JOURNAL ABBREVIATIONS (CONT'D)

IA	INDUSTRY ATOMIQUES
IANARSF	IZVESTIYA AKADEMII NAUK ARMYANSKOI SSR, SER. FIZ.
IANAZSF	IZVESTIYA AKADEMII NAUK AZERBAIDZHANSKOI SSR, SER. FIZ. MAT. NAUK
IANKSF	IZVESTIYA AKADEMII NAUK KAZAKHSKOI SSR, SER. FIZ.-MAT
IANSF	IZVESTIYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA
IANUSF	IZVESTIYA AKADEMII NAUK UZBEKSKOI SSR, SER. FIZ.-MAT. NAUK
IAS	INDUSTRIES ATOMIQUES ET SPATIALES (FRANCE)
IET	INSTRUMENTS AND EXPERIMENTAL TECHNIQUES
IETIM	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS -IEEE- TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT (USA)
IETNS	IEEE TRANSACTIONS ON NUCLEAR SCIENCE
IFABAN	IZVESTIYA FIZICHESKIA INSTITUT ANEB, BULGARIA AKAD. NAUK
IJP	INDIAN JOURNAL OF PHYSICS
IJPAP	*INDIAN JOURNAL OF PURE AND APPLIED PHYSICS*
IJTP	INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS
ITPI	IZVESTIYA TOMSKOGO POLITEKHNICHESKOGO INSTITUTA IMENI S.M.KIROVA (USSR)
IVUZF	IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENIE FIZIKA
JACS	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY
JASS	JOURNAL OF THE ASSAM SCIENCE SOCIETY (INDIA)
JETP	SOVIET PHYSICS JETP
JETPL	JETP LETTERS
JHIRO	JOURNAL OF SCIENCE OF THE HIROSHIMA UNIV., SERIES A-II (JAPAN)
JKPS	JOURNAL OF THE KOREAN PHYSICAL SOCIETY
JMP	JOURNAL OF MATHEMATICAL PHYSICS
JNSM	JOURNAL OF NATURAL SCIENCES AND MATHEMATICS
JP	JOURNAL DE PHYSIQUE
JPA	JOURNAL OF PHYSICS A, LONDON
JPC	JOURNAL OF PHYSICS C, LONDON
JPPC	JOURNAL DE PHYSIQUE (PARIS), COLLOQUE
JPH	*JOURNAL DE PHYSIQUE ET LE RADIUM*
JPSJ	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN
JPSJS	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN (SUPPLEMENT)
JRNBSA	JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS, A
JSI	JOURNAL OF SCIENTIFIC INSTRUMENTS
KFKIK	KOZPONTI FIZIKAI KUTATO INTEZET KOZLEMENYEK HUNGARY
KOTP	K'O HSUEH T'UNG PAO--SCIENTIA (CHINA)
KOU	KAKURIKEN KENKYU HOKOKU (TOHOKU UNIV., JAPAN)
KSF	*KRATKIE SOOBSHCHENIYA PO FIZIKE* (USSR)
LMP	LETTERS IN MATHEMATICAL PHYSICS (NETHERLANDS)
LTP	LECTURES ON THEORETICAL PHYSICS
MFSKP	*MEMOIRS OF THE FACULTY OF SCIENCE, KYOTO UNIV., SERIES PHYSICS*
NATURE	NATURE
NBSSP	NATIONAL BUREAU OF STANDARDS SPECIAL PUBLICATION (US)
NC	NUOVO CIMENTO
NCL	LETTERE AL NUOVO CIMENTO
NCR	RIVISTA DEL NUOVO CIMENTO
NCS	NUOVO CIMENTO, SUPPLEMENTO
NFCB	NOTAS DE FISICA, CENTRO BRASILEIRO DE PESQUISAS FISICAS (BRAZIL)
NIM	NUCLEAR INSTRUMENTS AND METHODS
NIMS	NUCLEAR INSTRUMENTS AND METHODS, SUPPLEMENT
NP	NUCLEAR PHYSICS
NPK	NEW PHYSICS -- KOREA
NPS	NATURE (LONDON) PHYSICAL SCIENCE
NS	*NEW SCIENTIST*
NSZ	JOURNAL OF THE PHYSIOLOGICAL SOCIETY OF JAPAN
NUCK	NUCLEUS (KARACHI)
NUKL	NUKLEONIKA
NUSA	NUCLEAR SCIENCE AND APPLICATIONS (PAKISTAN)
NWS	NATURWISSENSCHAFTEN
OPTSP	OPTIKA I SPEKTROSKOVIYA, USSR, SEE OS
OS	OPTICAL SPECTRA, SEE OPTSP
PAAS	*PROCEEDINGS OF THE AUSTRIAN ACADEMY OF SCIENCE*
PBL	PHYSIKALISCHE BLATTER (W.GERMANY)
PHYS	PHYSICA
PIAS	PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCE
PJSIR	PAKISTAN JOURNAL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

REFERENCE VOCABULARY - JOURNAL ABBREVIATIONS (CONTD)

PL	PHYSICS LETTERS
PLPI	PROCEEDINGS OF THE LEBEDEV PHYSICS INSTITUTE (ENG. TRANS. OF TRIL)
PM	PHILOSOPHICAL MAGAZINE
PN	PARTICLES AND NUCLEI
PNAS	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA
PNEWS	*PHYSICS NEWS (INDIA)*
PNOR	PHYSICA NORVEGICA (NORWAY)
PNP	PROGRESS IN NUCLEAR PHYSICS
PNTI	*PROGRESS IN NUCLEAR TECHNIQUES AND INSTRUMENTATION*
PPMSJ	PROCEEDINGS OF THE PHYSICO-MATHEMATICAL SOCIETY OF JAPAN
PPSL	PROCEEDINGS OF THE PHYSICAL SOCIETY OF LONDON
PR	*PHYSICAL REVIEW*
PRA	PHYSICAL REVIEW ABSTRACTS
PRAM	PRAMANA
PRL	PHYSICAL REVIEW LETTERS
PRPL	*PHYSICS REPORTS (PHYSICS LETTERS C)*
PRSE	PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH
PRSL	PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON
PS	PHYSICA SCRIPTA (SWEDEN)
PSTF	POSTEPY FIZYKI (POLAND)
PTE	PRIBORY I TEKHNIKA EKSPERIMENTA
PTP	*PROGRESS OF THEORETICAL PHYSICS*
PTPS	PROGRESS OF THEORETICAL PHYSICS, SUPPLEMENT
RFERM	RENDICONTI DELLA SCUOLA INTERNAZIONALE DI FISICA ENRICO FERMI (ITALY)
RLNST	*RESEARCH REPORT OF THE LAB OF NUCLEAR SCIENCE, TOHOKU UNIV.*
RMP	REVIEWS OF MODERN PHYSICS
RP	RECHERCHE (PARIS)
RPP	*REPORTS ON PROGRESS IN PHYSICS*
RRP	REVUE ROUMAINE DE PHYSIQUE
RSI	REVIEW OF SCIENTIFIC INSTRUMENTS
RSMFM	*RENDICONTI DEL SEMINARIO MATEMATICO E FISICO DI MILANO*
SA	SCIENTIFIC AMERICAN
SANG	*SOOBSHCHENIYA AKADEMII NAUK GRUZINSKOI SSR*
SAV	SCIENCES ET AVENIR (FRANCE)
SCF	STUDII SI CERCETARI DE FIZICA (ROMANIA)
SCIFOR	SCIENCE FORUM (CANADA)
SCIIND	SCIENCE AND INDUSTRY (INDIA)
SCIREP	*SCIENCE REPORTER (NEW DELHI, INDIA)*
SJNP	*SOVIET JOURNAL OF NUCLEAR PHYSICS*
SOVJPN	SOVIET JOURNAL OF PARTICLES AND NUCLEI
SPD	*SOVIET PHYSICS DOKLADY*
SPTP	SOVIET PHYSICS--TECHNICAL PHYSICS
SPU	SOVIET PHYSICS-USPEKHI SEE UFN
STMP	*SPRINGER TRACTS IN MODERN PHYSICS (WEST GERMANY)*
TASME	*TRANSACTIONS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS*
TFIL	*TRUDY FIZICHESKOGO INSTITUTA IMENI LEBEDEV, USSR (SEE PLPI)*
TFIVEK	*TRUDY INSTITUTA FIZIKI VYSOKIKH ENERGII, AKADEMIYA NAUK KAZAKSKOI (KAZAKH, SSR)*
TMP	THEORETICAL MATHEMATICAL PHYSICS
UCKE	UCHUSEN KENKYU (STUDIES OF COSMIC RAYS) (JAPAN)
UFN	USPEKHI FIZICHESKIKH NAUK (USSR), SEE SPU
UFZR	UKRAINSKII FIZICHESKII ZHURNAL (RUSSIAN EDITION)
UMS	UMSCHAU DIE (WEST GERMANY)
UMWT	UMSCHAU IN WISSENSCHAFT AND TECHNIK (W.GERMANY)
UNKNWN	UNKNOWN JOURNAL
VANK	*VESTNIK AKADEMII NAUK KAZAKHSKOI SSR*
VESMIR	VERSMIR (CZECHOSLOVAKIA)
VLUFK	VESTNIK LENINGRADSKOGO UNIV. FIZIKA, KHIMIYA (USSR)
VMUFA	VESTNIK MOSKOVSKOGO UNIV., SER. III FIZIKA, ASTRONOMIYA (USSR)
VNTFYEK	VOPROSY ATOMNOI NAUKI I TEKHNIKI, SERIIA FIZIKA VYSOKIKH ENERGII I ATOMNOGO YADRA (KHARKOV, SSR)
VICH	VEDA TECHNIKA (USSR)
WULI	WU-LI -PHYSICS- (CHINA)
YF	YADERNAYA FIZIKA
ZETF	ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI
ZETFP	*ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI, PIS'MA V REDAKTS*
ZGINF	ZESZYTY NAUKOWE AKADEMII GORNICZO-HUTNICZEJ W KRAKOWIE, ROZPRAWY (POLAND)
ZNAT	ZEITSCHRIFT FUER NATURFORSCHUNG (W. GERMANY)
ZP	ZEITSCHRIFT FUER PHYSIK

REFERENCE VOCABULARY - CONFERENCE ABBREVIATIONS

ADELAIDE/AIP-74	*FROM AUSTRALIAN INSTITUTE OF PHYSICS NATIONAL CONGRESS,* ADELAIDE, AUSTRALIA, 21 MAY 1974
AINSE NUC. PHYS-75	FROM 6 AINSE NUCLEAR PHYSICS CONFERENCE 1976, MELBOURNE, *AUSTRALIA*, 9 FEB 1976
AIX-61	FROM INTERNATIONAL CONFERENCE ON ELEMENTARY *PARTICLES*, AIX-EN-PROVENCE, FRANCE, 14-20 SEP 1961
AMST. SPRING MTG-76	FROM SPRING MEETING, 26 AND 27 APRIL 1976, AMSTERDAM
ANL-HEP-7014	FROM SYMPOSIUM ON POLARIZATION AT *HIGH ENERGY- ARGONNE*, ILL. (15 APR 1970).
ANL-HEP-7208	*IN PLANNING FOR THE FUTURE, ZERO GRADIENT SYNCHROTRON* WORKSHOPS, SUMMER 1971
APS/DPF-74	FROM MEETING OF THE DIVISION OF PARTICLES AND FIELDS OF THE AMERICAN PHYSICAL SOCIETY, WILLIAMSBURG, VIRGINIA, USA, 5 SEP 1974
APS/DPF-75	FROM AMERICAN PHYSICAL SOCIETY, DIVISION OF PARTICLES AND *FIELDS*, 27-29 AUG 1975 SEATTLE, WA, USA
ATOMIC MASSES-67	FROM 3RD *INTERNATIONAL CONFERENCE* ON ATOMIC MASSES, WINNIPEG, CANADA, 1967
AT.MASS+FUND.CONST-72	FROM 4. INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND *FUNDAMENTAL CONSTANTS*, TEDDINGTON, UK, 6 -10 SEP 1971
AT.MASS+FUND.CONST-76	FROM 5. INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND FUNDAMENTAL CONSTANTS, PARIS, FRANCE, 2 JUN 1975
BALATON SYMPOS-74	*FROM 9. SYMPOSIUM ON PARTICLE PHYSICS*, BALATONFURED, HUNGARY, 12 JUN 1974
BANFF SCHOOL-70	FROM PROCEEDINGS OF THE BANFF SUMMER SCHOOL ON *INTERMEDIATE ENERGY NUCLEAR PHYSICS*, ED. G.C.NIELSON (UNIV. OF ALBERTA, EDMONTON) 1970
BANGALORE SYMP-73	FROM NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM BANGALORE, INDIA, 27 DEC 1973
BARYONS-73	FROM CONFERENCE ON BARYON RESONANCES, WEST LAFAYETTE, INDIANA, USA, 29 APR 1973
BARYONS-76	FROM TOPICAL CONFERENCE ON BARYON RESONANCES, OXFORD, UK, 5 *JUL* 1976
BATAVIA-72	FROM 16. INTERNATIONAL CONF. ON HIGH ENERGY PHYSICS, CHICAGO, ILLINOIS, USA, 6 SEP 1972
BERKELEY APS/DPF-73	FROM MEETING OF *THE DIVISION OF PARTICLES* AND FIELDS, BERKELEY, CALIFORNIA, USA, 13 AUG 1973
BNL WRKSHOP-74	FROM WORKSHOP ON POLARIZED TARGETS, UPTON, L.I., NEW *YORK*, USA, 3 JUN 1974
BOSTON-75	FROM CONF. ON GUAGE THEORIES AND MODERN FIELD THEORY, 26-27 SEP 1975, BOSTON, MA, USA
BOSTON MESON-74	*FROM 4. INTERNATIONAL CONFERENCE ON EXPERIMENTAL MESON* SPECTROSCOPY, BOSTON, MASSACHUSETTS, USA, 26 APR 1974
CAMBRIDGE-76	FROM SYMPOSIUM ON PHYSICS AND OUR WORLD, CAMBRIDGE, MASSACHUSETTS, USA, 17 OCT 1974
CARGESE INST-75	FROM LECTURES DELIVERED AT CARGESE *SUMMER SCHOOL*, CARGESE, FRANCE, 30 JUN -- 25 JUL 1975
CERN HEP-58	FROM 8TH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS, CERN, GENEVA, SWITZERLAND, 30 *JUN* - 5 *JUL* 1958
CERN HEP-62	*FROM 11TH INTERNATIONAL CONFERENCE ON HIGH ENERGY* PHYSICS, CERN, GENEVA, SWITZERLAND, 4-11 JUL 1962
CERN SYMP-56	FROM CONFERENCE ON *HIGH ENERGY* ACCELERATORS
CERN SYN-CYC-69	FROM SYMPOSIUM ON PHYSICS AT THE CERN SYNCHRO-CYCLOTRON, 1969
CERN TOP-60	FROM *TOPICAL CONFERENCE* ON HIGH-ENERGY COLLISIONS, CERN, GENEVA, SWITZERLAND, 15-16 JAN 1968
CERN--ISNR-75	FROM PROCEEDINGS OF THE ISNR-CERN SCHOOL OF PHYSICS, ALUSHTA, *USSR*, 14 MAY 1975
CERN-60-7	SAME AS CERN TOP-60 (SEE ABOVE)
CERN-72-10	FROM SYMPOSIUM ON NUCLEON--ANTINUCLEON ANNIHILATIONS, *GIESSBERG, SWITZERLAND* (27 MAR 1972)
CIPP SUM,SCH-72	FROM INSTITUTE OF PARTICLE PHYSICS SUMMER SCHOOL, MONTREAL, CANADA, 28 AUG 1972
CNSS-70	*FROM* 92ND NATIONAL CONGRESS OF THE LEARNED SOCITIES, STRASBOURG, FRANCE - 3 MAR 1967
COSMIC RAY-69	FROM 11TH INTERNATIONAL CONFERENCE ON COSMIC RAYS, *BUDAPEST, HUNGARY*, 25 AUG - 4 SEP, 1969

COSMIC RAY-70	FROM 6. *INTERAMERICAN SEMINAR ON COSMIC RAYS- LA PAZ*, BOLIVIA (19 JUL 1970).
COSMIC RAY-71	FROM 12. INTERNATIONAL CONFERENCE ON COSMIC RAYS- *HOBART, AUSTRALIA* (16 AUG 1971)
COSMIC RAY-73	FROM 13. INTERNATIONAL COSMIC RAY CONFERENCE, DENVER, COLORADO, USA, 17 AUG 1973
COSMIC RAY-75	FROM 14 INTERNATIONAL COSMIC RAY CONFERENCE, MUENCHEN, F.R. GERMANY, 15 AUG 1975
DEEP HAD. STRUCT-75	FROM SUMMER INST. ON PARTICLE PHYSICS, SLAC, STANFORD, CALIF., JUL 21-31, 1975
DEV.IN HEP	FROM PROCEEDINGS OF THE INTERNATIONAL SCHOOL OF PHYSICS ''ENRICO FERMI'', VARENNA, ITALY, 2 AUG 1971
DL/R-32	FROM MEETING ON EXPERIMENTAL TESTS FOR EXOTIC ELECTRO-MAGNETIC CURRENTS, DARESBURY, UK, 6 JUL 1973
DNPL-R-15 NO.2	FROM PROCEEDINGS OF THE DARESBURY STUDY WEEKEND- DARESBURY, ENGLAND (11 JUN 1971)
DNPL/R-30	*FROM PROCEEDINGS OF THE PION EXCHANGE MEETING*, DARESBURY, ENG., 23 MAR 1973
DRESDEN INT SYM ON HEP	FROM INTERNATIONAL SYMPOSIUM ON HIGH ENERGY PHYSICS, DRESDEN, FEDERAL REPUBLIC OF GERMANY, 19 APR 1971
DUBNA HEP-64	FROM 12TH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS, JINR, DUBNA, USSR, 1964
ELEC+PHOTON SYM-69	FROM INTERNATIONAL SYMPOSIUM ON ELECTRON AND PHOTON INTERACTIONS AT HIGH ENERGIES, LIVERPOOL, DARESBURY, ENGLAND, 14 - 20 SEP 1969
ELEC+PHOTON-71	FROM INTERNATIONAL SYMPOSIUM ON ELECTRON AND PHOTON *INTERACTIONS AT HIGH ENERGIES*- ITHACA, N. Y., USA, 23 AUG 1971
ELEC+PHOTON/BONN-73	FROM 6. INTERNATIONAL SYMPOSIUM ON ELECTRON AND PHOTON *INTERACTIONS AT HIGH ENERGIES, BONN, F.R. GERMANY, 27 AUG 1973*
ELEM.PART.PHYS-76	FROM ELEMENTARY PARTICLE PHYSICS, EDITOR, G.HOEHLER, SPRINGER VERLAG, NEW YORK, 1976
ELEM.PROC.AT H.E-71	FROM ELEMENTARY PROCESS AT HIGH ENERGY, EDITED BY *A.ZICHICHI*, ACADEMIC PRESS, NEW YORK, USA 1971
EXP.MESON SPECT-70	FROM EXPERIMENTAL MESON SPECTROSCOPY CONFERENCE PHILADELPHIA, PA, 1970
EXP.MESON SPECT-72	FROM 3. INTERNATIONAL CONFERENCE ON EXPERIMENTAL MES'n SPECTROPY, PHILADELPHIA, PA. (28 APR 1972)
FORLNANRS-68	FROM SYMPOSIUM ON LIGHT NUCLEI, FEW BODY PROBLEMS, AND NUCLEAR FORCES, BRELA, YUGOSLAVIA
FEW BODY PROD-67	FROM SYMPOSIUM ON FEW BODY PROBLEMS, LIGHT NUCLEI AND NUCLEAR INTERACTIONS, *BRELA* (1967)
FEW BODY DYN-76	*FROM 7. INTERNATIONAL CONFERENCE ON* FEW BODY PROBLEMS IN NUCLEAR AND PARTICLE PHYSICS, DELHI, INDIA, 29 DEC 1975
FEW BODY PROD.PROC-74	FROM WORKSHOP ON FEW-BODY PRODUCTION PROCESSES, OHO, *IBARAKI, JAPAN, 4 JUN 1974*
FEW PART NUC.INT-72	FROM PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON FEW PARTICLE PROBLEMS IN THE NUCLEAR INTERACTION, LOS ANGELES, USA 28, AUG 1972
FORMICAL MEETING-74	FROM 2ND INTERNATIONAL WINTER MEETING ON FUNDAMENTAL PHYSICS, FORMICAL, SPAIN, JAN 28 - FEB 2, 1974
FUNB.INTERACTIONS	FROM CORAL GABLES CONFERENCE ON FUNDAMENTAL INTERACTIONS OF THEORECTICAL STUDIES, CORAL GABLES, FLORIDA, USA, 22 JAN 1973
FUND.INT.IN PH.+AST	FROM CONFERENCE ON FUNDAMENTAL INTERACTIONS AT HIGH ENERGY, CORAL GABLES, FLORIDA, USA, 26 JAN 1972
GIF SCHOOL-73	FROM SUMMER SCHOOL ON PARTICLE PHYSICS, GIF-SUR-YVETTE, FRANCE, 1973
GIF SCHOOL-74	FROM SUMMER SCHOOL ON PARTICLE PHYSICS, GIF-SUR-YVETTE, FRANCE, 9 SEP 1974
GIF SCHOOL-75	FROM SUMMER SCHOOL ON PARTICLE PHYSICS, GIF-SUR-YVETTE, FRANCE, 8 SEP 1975
HADRON PHYS.AT ISR-73	*FROM COLLOQUIUM ON HADRONIC PHYSICS AT ISR ENERGY*, MARSEILLE, FRANCE, 21 NOV 1973

HAMBURG SYMP-68	*FROM PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM* ON ELECTRON AND PHOTON INTERACTIONS AT HIGH ENERGIES, HAMBURG, DESY, GERMANY, 8-12 JUN 1965
HAMBURG THEOR-75	FROM SUMMER SCHOOL ON THEORETICAL PARTICLE PHYSICS *HELD ON 14-26 SEP 1975 AT HAMBURG, GERMANY*
HAWAII TOP-73	FROM 5 TOPICAL CONFERENCE IN PARTICAL PHYSICS, HONOLULU, HAWAII, USA, 8 AUG 1973
HAWAII TOP-75	FROM LECTURES PRESENTED AT 6TH HAWAII TOPICAL CONF. IN PARTICLE PHYSICS, AUG 6-19, 1975
HEIDELBERG-67	*FROM* INTERNATIONAL CONFERENCE ON ELEMENTARY PARTICLES, HEIDELBERG, GERMANY, 20 - 27 SEP 1967
HEP INT. W/NUCL SEM-70	FROM SEMINAR ON INTERACTIONS OF ELEMENTARY PARTICLES WITH NUCLEI, TRIESTE
HEP W.POL.BEAMS-74	FROM SYMPOSIUM ON HIGH ENERGY PHYSICS WITH POLARIZED BEAMS, ARGONNE, ILLINOIS, USA, 8 FEB 1974
HEP+FUND PART-68	FROM HIGH ENERGY PHYSICS AND FUNDAMENTAL PARTICLES, EDITED BY A.O.BARUT AND E.WESLEY, NEW YORK, GORDON *AND BREACH SCIENCE PUBLISHERS, 1968*
HEP+NUC.STRUCTURE-70	FROM 3RD INTERNATIONAL CONFERENCE ON HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE, NEW YORK, 1969
HEP+NUC.STRUCTURE-74	FROM 5 INTERNATIONAL CONFERENCE ON HIGH-ENERGY PHYSICS AND NUCLEAR STRUCTURE, UPPSALA, SWEDEN, 18 JUN 1973
HEP/KIEV-72	FROM 16. INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS - KIEV, USSR (25 AUG 1972).
HEP/NASHVILLE-73	HIGH ENERGY PARTICLE INTERACTIONS, NASHVILLE, 1973
HI EN.PHYS-67	FROM HIGH ENERGY PHYSICS, ED. E.H.S.BURHOP (ACADEMIC PRESS, NEW YORK) 1967
HI MULT.HAD INT-70	FROM COLLOQUIUM ON HIGH MULTIPLICITY HADRONIC INTERACTIONS- PARIS
HIGH ENERGY COLL-69	FROM 3RD INTERNATIONAL CONFERENCE ON HIGH-ENERGY *REACTIONS, STONY BROOK, N. Y., USA*
HIGH MOM. IN NUCLEI	FROM COLLOQUIUM ON MEASUREMENT AND INTERPRETATION OF HIGH MOMENTA IN NUCLEI, SACLAY, FRANCE, 8 MAY 1974
HIGH.PART.PHYS	FROM INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS, SICILY, *ITALY, 7 JUL 1972*
HYPERON RESON-70	FROM INTERNATIONAL CONFERENCE ON HYPERON RESONANCES- DURHAM, N. C, USA, (24 APR 1970).
INST.FOR HEP-70	FROM PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON *INSTRUMENTATION FOR HIGH ENERGY PHYS., ED. V.P.DZHELEPOV* (JINR, MOSCOW) 1970
INTER.EN.PHYS-73	FROM TOPICAL MEETING ON INTERMEDIATE ENERGY PHYSICS, LYCEUM ALPINUM, ZUOZ, ENGADIN, SWITZERLAND, 4-13 APRIL 1973
JINR-D1-2-8405	FROM 4. INTERNATIONAL SYMPOSIUM ON HIGH ENERGY AND ELEMENTARY PARTICLE PHYSICS, VARNA, BULGARIA, 22 SEP 1974
JINR-D1-6349	FROM 4. INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE- DUBNA, USSR (7 SEP 1971).
JINR-D1,2-7781	FROM 3. INTERNATIONAL SYMPOSIUM ON HIGH ENERGY AND ELEMENTARY PARTICLE PHYSICS, SINAIA, ROMANIA, 2 OCT 1973
JINR-D-6004	*FROM INTERNATIONAL SEMINAR ON BINARY REACTIONS OF* HADRONS AT HI ENERGIES, DUBNA, USSR, 3 JUN 1971
KEK SUMMER SCHOOL-74	FROM 3. SUMM CHOOL ON PHYSICS IN THE INTERMEDIATE ENERGY RANGE, OHO, IBARAKI, JAPAN, 16 JUN 1974
KEK-73-1D	*FROM PROCEEDINGS FOR HIGH ENERGY PHYSICS*, IBARAKI, JAPAN, 17 JUL 1973
KIEV-59	FROM 9TH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS, KIE USSR, 15 - 25 JUL 1959
LAWS OF HADRONS	FROM INTERNATIL SCHOOL OF SUBNUCLEAR PHYSICS, ERICE, TRAPANI, ITALY, 8 JUL 1973
LEIPZIG SYMPOS-74	FROM 5TH INT. CONF. ON MULTIPARTICLE HADRODYNAMICS, LEIPZIG, EAST GERMANY, JUN 4-10, 1974
LEPTON/PHOTON-75	FROM INTERNATIONAL SYMPOSIUM ON LEPTON AND PHOTON INTERACTIONS AT HIGH ENERGIES, STANFORD, CALIFORNIA, USA, 21 AUG 1975

LEPT+HAD STRUCT	FROM INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS, ERICE, ITALY, 14 JUL 1974
LES HOUCHES SCH-75	FROM INST. ON *STRUCTURAL ANALYSIS OF MULTIPARTICLE COLLISION AMPLITUDES IN RELATIVISTIC QUANTUM THEORY*, 3-26 JUN 1975, LES HOUCHES, FRANCE
LOMA-KOLI SYMPOS-75	FROM INT. SYMPOSIUMON ANTI-P P INTERACTIONS, LOMA-KOLI, *FINLAND, JUN 11-19, 1975*
LOMA/KOLI SUM.SCH-72	FROM 7. FINNISH SUMMER SCHOOL IN PHYSICS, MODERN DEVELOPMENTS IN HADRON PHYSICS, LOMA-KOLI, FINLAND, *26 JUN 1972*
LONDON-74	FROM 17. INTERNATIONAL CONFERENCE ON HIGH-ENERGY PHYSICS, LONDON, UK, 1 JUL 1974
LOW TEMP PHYS-71	FROM 12. INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS - KYOTO, JAPAN (4 SEP 1970).
MANY-BODY PROC-75	FROM 4. INTERNATIONAL SEMINAR ON HIGH ENERGY PHYSICS *PROBLEMS, MANY-BODY PROCESSES*, DUBNA, USSR, JUN 1975
MANY PART.DYN.SYM-74	FROM 5. INTERNATIONAL SYMPOSIUM ON MANY PARTICLE HADRODYNAMICS, EISENACH
MED.E.PHYS SUM.SCH-70	SAME AS BANFF SCHOOL-70 (SEE ABOVE)
MESON-NUC. PHYS-76	FROM INTERNATIONAL TOPICAL CONFERENCE ON MESON-NUCLEAR PHYSICS, PITTSBURGH, PENNSYLVANIA, USA, *24 MAY 1976*
MES.EFF.NUCL	FROM RENCONTRE DE SACLAY. MESONIC EFFECTS IN NUCLEI, SACLAY FRANCE, 12 MAY 1975
MES.RES+E.M.PHEN-71	FROM INTERNATIONAL CONFERENCE ON MESON RESONANCES AND *RELATED ELECTROMAGNETIC PHENOMENA*, BOLOGNA, ITALY, 14-16 APR 1971
MORIOND-70	FROM 5. *INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC* INTERACTIONS- MERIBEL-LES- ALLUES, FRANCE 9 MAR 1970
MORIOND-71	FROM *CONFERENCE* OF MORIOND MEETING ON PHENOMENOLOGY OF WEAK AND ELECTROMAGNETIC INTERACTIONS- MERIBEL-LES -ALLUES, FRANCE (7 MAR 1971).
MORIOND-72	FROM 7TH RENCONTRE DE MORIOND CONF. MERIBEL-LES-ALLUES, FRANCE MAR 1972
MORIOND-73	FROM 8. *RENCONTRE DE MORIOND*, MERIBEL-LES-ALLUES, FRANCE, MAR 1973
MORIOND-74	FROM 9. RENCONTRE DE MORIOND, MERIBEL-LES-ALLUES, FRANCE, 3 MAR 1974
MORIOND-75	FROM 10. *RENCONTRE* DE MORIOND, MERIBEL-LES-ALLUES, FRANCE, 2 MAR 1975
MTG ON FUND. PHYS	FROM 3. INTERNATIONAL MEETING ON FUNDAMENTAL PHYSICS, SIERRA NEVADA, SPAIN, 10 FEB 1975
MULTI-PART. DYN	FROM 4. INTERNATIONAL SYMPOSIUM ON MULTIPARTICLE HADRODYNAMICS, PAVIA, ITALY, 31 AUG 1973
MUON PHYS-75	FROM *MUON PHYSICS*, EDITED BY V.W.HUGHES AND C.S.WU, NEW YORK, ACADEMIC PRESS, 1975
NASHVILLE-76	FROM CONFERENCE ON PARTICLE SEARCHES AND DISCOVERIES, *NASVILLE, TENNESSEE*, USA, 1 MAR 1976
NEUTRINOS-72	FROM SYMPOSIUM ON NEUTRINO 1972, BALATONFRED, HUNGARY, 11 JUN 1972, 17 JUN 1972.
NEUTRINOS-74	FROM 4. *INTERNATIONAL CONFERENCE ON NEUTRINO PHYSICS* AND ASTROPHYSICS, PHILADELPHIA, PA, USA, 26 APR 1974
NEUTRINOS-75	FROM 5. INTERNATIONAL CONFERENCE ON *NEUTRINO SCIENCE*, BALATONFURED, HUNGARY, 16 JUN 1975
NEUTRINO/PARIS-75	FROM INTERNATIONAL COLLOQUIUM ON HIGH ENERGY NEUTRINO PHYSICS, PARIS, FRANCE, 18 MAR 1975
NEUTRON PHYS SCH.	FROM 2. *INTERNATIONAL SCHOOL* ON NEUTRON PHYSICS, ALUSHTA, USSR, 2 APR 1974
NEW DIR HADRON SPECT	FROM NEW DIRECTIONS IN HADRON SPECTROSCOPY MEETING, ARGONNE, ILLINOIS, USA, 7 JUL 1975
NR-1421/VI/PH	FROM 3. INTERNATIO. ' CONF. ON MANY-BODY REACTIONS, *ZAKOPANE, POLAND, 2. JUN 1972*
NUC. PHYS W/K BEAMS	FROM CONFERENCE ON NUCLEAR AND HYPERNUCLEAR PHYSICS WITH KAON BEAMS, UPTON, NEW YORK, 2 JUL 1973
NUC.PHYS-73	FROM INTERNATIONAL CONFERENCE ON NUCLEAR PHYSICS, *MUNICH, F.R. GERMANY*, 27 AUG 1973

NUC.SCI+ENGINEERING	FROM FINAL CONFERENCE ON NUCLEAR PHYSICS AND ELEMENTARY PARTICLE PHYSICS, KHARKOV, UKRAINIAN SSR, 4 JUN 1973
OLD/NEW PROB ELEM PHYS	FROM OLD AND NEW PROBLEMS IN ELEMENTARY PARTICLES, *EDITED BY G.PUPPI, NEW YORK, ACADEMIC PRESS, 1968*
ORBIS SCIENTIAE-75	FROM ORBIS SCIENTIAE II HELD 20-25 JAN 1975 AT CORAL GABLES FL, USA
OXFORD COLLOQ-75	FROM 6TH INT. COLLOQUIUM ON MULTIPARTICLE REACTIONS, *OXFORD, ENGLAND JUL 14-19* 1975
PALERMO-75	FROM INT. CONF. ON HIGH ENERGY PHYSICS, PALERMO, ITALY, *JUN 23-28*, 1975
PARIS CONG-64	FROM CONGRES INTERNATIONAL DE PHYSIQUE NUCLEAIRE, PARIS, FRANCE, 2 - 8 JUL 1964
PART+FIELDS-71	FROM MEETING ON PARTICLES AND *FIELDS- ROCHESTER*, N.Y. 30 AUG 1971
PAR.INT.AT V.H.E.	FROM 2 SUMMER INSTITUTE ON PARTICLE INTERACTIONS AT VERY HIGH ENERGIES, LOUVAIN, BELGIUM, 12 AUG 1973
PAST DEC.PART.THEOR-70	*FROM PAST DECADE IN PARTICLE THEORY*, ED. E.C.G.SUDARSHAN (GORDON AND BREACH, SCI. PUBL., INC., NEW YORK) 1973
PHENOM.IN PP-71	FROM CONF. ON THE PHENOMENOLOGY OF PARTICLE PHYSICS, 1971, CALTECH, PASADENA, CA, USA
PHYS. W/ POL.BEAMS-75	FROM PHYSICS WITH POLARIZED BEAMS, REPORT OF ANL TECHNICAL ADVISORY PANEL, ANL-HEP-CP-75-73
PIPI/TALLAHASSEE-73	FROM INT. CONF. ON PI-PI SCATTERING AND ASSOCIATED TOPICS, TALLAHASSEE, 1973
PISA HEP MTG-67	FROM PROCEEDINGS OF HIGH ENERGY PHYSICS MEETING, *PISA, ITALY, 9-11 OCT 1967*
POL.TARGETS-71	FROM *2. INTERNATIONAL CONFERENCE ON POLARIZED TARGETS-* BERKELEY, CALIF. (30 AUG 1971)
PRAGUE SYMPOS-74	FROM INTERNATIONAL CONFERENCE ON ANTINUCLEON-NUCLEON *INTERACTIONS*, LIBLICE, CZECHOSLOVAKIA, 25 JUN 1974
PROB IN HEP	FROM SEMINAR ON ACTUAL PROBLEMS OF ELEMENTARY PARTICLE PHYSICS, SOCHI, USSR, 10 OCT 1974
PROG.NUCL.PHYS-70	FROM PROGRESS IN NUCLEAR PHYSICS (PERGAMON PRESS) 1970
PROP. FUND.INT.	FROM PROPERTIES OF THE FUNDAMENTAL INTERACTION NATO-MPI-MRST ADVANCED STUDY INSTITUTE *MEETING, ERICE, ITALY*, 8 JUL 1971
PROP.NUC.STATES-69	FROM INTERNATIONAL CONFERENCE ON PROPERTIES OF NUCLEAR *STATES (LES PRESSES DE L'UNIV. DE MONTREAL) 1969*
RESON.PART-65	*FROM SECOND* TOPICAL CONFERENCE ON RESONANT PARTICLES-- ATHENS, OHIO, 1965
RHEL-R-245	FROM MEETING ON FUTURE WORK IN K/SUP +-/ STRONG INTERACTON PHYSICS BELOW 5 GEV/C- CHILTON, ENGLAND, 19 NOV 1971
RHEL SCH-75	*FROM SUMMER SCHOOL FOR YOUNG HIGH ENERGY PHYSICISTS*, 8-26 SEP 1975 AT CHILTON, ENGLAND
RHEL-72-1	FROM 4. INTERNATIONAL CONFERENCE ON HIGH ENERGY COLLISIONS, OXFORD, UK, 5 APR 1972
RL-73-88	*FROM INFORMAL MEETING* ON PHYSICS WITH POLARIZED TARGETS AT HIGH ENERGY, ABINGDON, ENG., 17 MAR 1973
RL-74-38	FROM SCHOOL FOR YOUNG HIGH ENERGY PHYSICISTS, CHILTON, UK, 15 JUL 1973
ROCHESTER-56	FROM 6TH INTERNATIONAL CONF. ON HIGH ENERGY PHYSICS, ROCHESTER, NY, USA, 3 - 7 APR 1956
ROCHESTER-60	FROM 10TH INTERNATIONAL CONF. ON HIGH ENERGY PHYSICS, *ROCHESTER, NY, USA, 25 AUG - 1 SEP 1960*
SANTA FE-75	FROM 6. INTERNATIONAL CONF. ON HIGH ENERGY PHYSICS AND NUCLEAR *STRUCTURE, SANTA FE, NEW MEXICO*, USA, 9 JUN 1975
SCHLADMING SCHOOL-74	LECTURES GIVEN AT 13TH INT. UNIV. FUR KERNPHYSIK, SCHLADMING, AUSTRIA, FEB 4-15, 1974
SCHLADMING SCHOOL-75	LECTURES PRESENTED AT XIV INTERNATIONLE UNIV. FUR *KERNPHYSIK, SCHLADMING, AUSTRIA, 24 FEB - 7 MAR 1975*
SIENNA-63	FROM CONFERENCE ON ELEMENTARY PARTICLE PHYSICS, *SIENNA* ITALY, 30 SEP - 5 OCT 1 963 - *1 SEP 1960*
SLAC SUM.INST-73	FROM SLAC SUMMER INST. ON PARTICLE PHYSICS, STANFORD, CALIFORNIA, USA, 1973

SLAC SUM.INST-74	FROM SLAC SUMMER INST. ON PARTICLE PHYSICS, STANFORD, CALIFORNIA, USA, 29 JUL 1974
SMOLENICE-75	FROM TRIANGLE CONF. ON HIGH ENERGY PARTICLE INTERACTIONS — *COMPOSITE STRUCTRUE OF HADRONS*, 3-6 NOV 1975 AT SMOLENICE, CZECHOSLOVAKIA
STONYBROOK 69	FROM 3RD INTERNATIONAL CONFERENCE ON HIGH ENERGY COLLISIONS 5 –6 SEP 1969
STONY BROOK-73	FROM 5. INTERNATIONAL CONFERENCE ON HIGH ENERGY COLLISIONS, STONY BROOK, NEW YORK, USA, 23 AUG 1973
STORAGE RING-76	INVITED TALK PRESENTED AT INT. MEETING ON STORAGE RING PHYSICS, PLAINE, FRANCE, FEB 22–28, 1976
STRN.INT. AT H.E.	FROM 4. GIFT SEMINAR IN THEORETICAL PHYSICS, BARCELONA, SPAIN, 11 APR 1973
STRONG INT.PHYS	FROM INTERNATIONAL SUMMER INSTITUTE ON THEORETICAL PHYSICS MEETING, KAISERSLAUTERN, GERMANY, 17 JUL 1972
SYM.MANY PRT. HADRDYN SYRACUSE-75	SAME AS MANY PART.DYN.SYM-74 (SEE ABOVE)
THEORY+EXPT. IN HEP	FROM 4. NATIONAL SYMPOSIUM ON NUCLEON ANTINUCLEON INTERICTIONS, SYRACUSE, NEW YORK, USA, 2 MAY 1975
THREE PARTICLE PWA	FROM ORBIS SCIENTIST MEETING, CORAL GABLES, FLORIDA, USA 21 JAN 1975
TOKYO SYM-73	FROM PROCEEDINGS OF THE DARESBURY STUDY WEEKEND, WARRINGTON, UK, 1 FEB 1975
	FROM INTERNATIONAL SYMPOSIUM ON HIGH ENERGY PHYSICS, TOKYO, JAPAN, 23 JUL 1973

REFERENCE VOCABULARY – CONFERENCE ABBREVIATIONS (CONT'D)

TRENDS IN HEP THEORY	FROM TRENDS IN ELEMENTARY PARTICLE THEORY, EDITED BY H.ROLLNIK AND K.DIETZ, BONN UNIV., 1975
TRIANGLE SEM-72FEB	FROM PROCEEDINGS OF THE TRIANGLE SEMINAR– BUDAPEST, HUNGARY, 9 FEB 1972
TRIANGLE SEM-72OCT	FROM TRIANGLE SEMINAR ON EXPERIMENTAL HIGH ENERGY PHYSICS, VIENNA, AUSTRIA, 9 OCT 1972
TRIANGLE SEM-73	FROM 3. EXPERIMENTAL TRIANGLE SEMINAR ON HIGH ENERGY NUCLEAR PHYSICS, TRIESTE, ITALY, 28 MAY 1973
TRIANGLE SEM-74	FROM PROCEEDINGS OF THE TRIANGLE SEMINAR, BELGRADE. YUGOLSALVIA, 28 OCT 1974
TRIESTE TOPICAL MTG-74	FROM TOPICAL MEETING ON HIGH ENERGY COLLISIONS, TRIESTE, ITALY, SEP 9–13, 1974
US-JAPAN HEP SEM-72	FROM JOINT JAPANESE—U. S. SEMINAR ON ELEMENTARY-PARTICLE PHYSICS WITH BUBBLE CHAMBER DETECTORS, STANFORD CA, USA 24 FEB 1971
VARNA SYMPOS-74	FROM 4. INTERNATIONAL SYMPOSIUM ON HIGH ENERGY AND ELEMENTARY PARTICLE PHYS., VARNA, BULGARIA, 22 SEP 1974
VIENNA-68	FROM INT. HIGH ENERGY PHYSICS CONF., VIENNA 1968
VISVA-BHARATI SYM-74	FROM AT 2ND HIGH ENERGY PHYSICS SYMPOSIUM, SANTINIKETAN, INDIA, NOV 9–13, 1974
YEREVAN SCH-75	FROM 6TH ALL UNION SCHOOL ON HIGH ENERGY PHYS., YEREVAN, USSR APRIL 8–19, 1975
YOUNG HEP SCH.-75	FROM SCHOOL FOR YOUNG HIGH ENERGY PHYSICISTS, CHILTON, OXFORDSHIRE, ENGLAND, 8 SEP 1975

INSTITUTION VOCABULARY

Ordered by abbreviation:

AACH	PHYS. INST. *DER TECH. HOCHSCHULE*	AACHEN, GERMANY
AARH	AARHUS UNIV.	AARHUS, DENMARK
ABAD	ABADAN INST. OF TECHNOLOGY	ABADAN, IRAN
ABOA	ABO AKADEMI,	*ABO*, FINLAND
ABRN	AUBURN UNIV.	AUBURN, ALABAMA, USA
ACUS	PHYSICAL INST. OF ACAD. OF SCIENCES	MOSCOW, USSR
ADEL	ADELPHI UNIV.	*GARDEN CITY, N. Y.*, USA
ADLD	ADELAIDE UNIV	ADELAIDE, AUSTRALIA
AECL	ATOMIC ENERGY *CENTER AT LAHORE*	LAHORE, INDIA
AERE	ATOMIC ENERGY RES. ESTAB.	HARWELL, BERKS., *ENGLAND*
AERO	AEROLAB DEVELOPMENT CO.	PASADENA, CA, USA
AFCR	AIR FORCE CAMBRIDGE *RESEARCH LABS*	BEDFORD, MASS., USA
AICH	*AICHI EDUCATIONAL UNIV.*	*TOYOTA, AICHI PREF., JAPAN*
AINO	INST. NEERINPHYS. ONDERZOEK	AMSTERDAM, NETHERLANDS
AKIT	AKITA UNIV	*AKITA, JAPAN*
ALAH	ALABAMA UNIV AT HUNTSVILLE	HUNTSVILLE, AL, USA
ALAU	*ALABAMA UNIV AT UNIVERSITY*--TUSCALOOSA	UNIVERSITY, AL, USA
ALBA	STATE UNIV. OF NEW YORK AT ALBANY	ALBANY, N. Y., US=
ALBE	ALBERTA UNIV., NRC	EDMONTON, ALB CANADA
ALIG	ALIGARH *MUSLIM UNIV*	ALIGARH, INDIA
ALLA	ALLAHABAD UNIV.	ALLAHABAD, INDIA
ALLG	COMMUNITY COLLEGE OF ALLEGHENY COUNTY	PITTSBURGH, PA, USA
ALMA	KAZAKH INST. FOR HIGH ENERGY PHYS.	*ALMA-ATA*, USSR
AMER	AMERICAN UNIV.	WASHINGTON DC, USA
AMES	*AMES LAB*	AMES, IOWA, USA
AMMC	ACADEMY OF MINING AND METALLURGY	*CRACOW, POLAND*
AMST	UNIV. OF AMSTERDAM	AMSTERDAM, NETHERLANDS
ANDE	*ANDES UNIV.*	*BOGOTA, COLOMBIA*
ANIK	*AMSTERDAM* NIKHEF	AMSTERDAM, NETHERLANDS
ANKA	MIDDLE EAST TECHNICAL UNIV.	ANKARA, TURKEY
ANL	ARGONNE NAT. LAB.	ARGONNE, ILL., USA
ANPL	ATHENS UNIV., NUCL. PHYS. LAB.	ATHENS, GREECE
ANTW	*RIJKSUNIVERSITAIR CENTRUM*	ANTWERP, BELGIUM
ANUC	AUSTRALIAN NATIONAL UNIV. AT CANBERRA	*CANBERRA, AUSTRALIA*
AOYA	AOYAMA GAKUIN UNIV.	TOKYO, JAPAN
ARIZ	UNIV. OF *ARIZONA*	TUCSON, ARIZ., USA
ARIS	ARIZONA STATE UNIV	TEMPE, AZ, USA
ASHI	ASHIKAGA INST. TECHNOLOGY	ASHIKAGA, JAPAN
ATCH	ADVANCED TECH. *CENTER*	ARLINGTON, TX, USA
ATEN	NUCLEAR RES. CENTRE DEMOKRITOS	ATHENS, GREECE
AUCK	AUCKLAND UNIV.	AUCKLAND, NEW ZEALAND
AWRE	ATOMIC WEAPONS RESEARCH *ESTABLISHMENT*	ALDERMASTON, ENGLAND
AZER	AZERBAYDZHAN S.N.KIROV STATE UNIV.	BAKU, USSR
BAGN	*OBS. DU PIC DU MIDI*	BAGNERES-DE-BIGORRE, FRANCE
BAIR	NATIONAL COMM. ATOMIC ENERGY	*BUENOS AIRES, ARG*
BARC	UNIV. AUTONOMA DE BARCELONA	BARCELONA, SPAIN
BARI	UNIV. *DI BARI*	BARI, ITALY
BART	BARTOL RESEARCH FOUNDATION	SWARTHMORE, PENN.
BASL	BASLE UNIV.	BASLE, SWITZERLAND
BC	BOSTON COLLEGE	*CHESNUT HILL*, MA, USA
BEDF	BEDFORD COLLEGE	LONDON, ENGLAND
BELG	*INST. INTERUNIV.* DES SCI. NUC.	BRUXELLES, BELGIUM
BELL	BELLCOMM INC.	*WASHINGTON DC*, USA
BERG	FYSISK INSTITUTT	BERGEN, NORWAY
BERL	INST. *HOCHENERGIEPHYS.* DAW	ZEUTHEN/BERLIN, DDR
BERN	UNIV. BERN	BERN, SWITZERLAND
BGNA	UNIV. DI BOLOGNA	BOLOGNA, ITALY
BHUB	*BHUBANESWAR PHYS. INST.*	*BHUBANESWAR, INDIA*
BIEL	UNIV. BIELEFELD	BIELEFELD, GERMANY
BIIT	INDIAN INST. OF TECHNOLOGY	BOMBAY, INDIA
BING	STATE UNIV. OF NEW YORK AT BINGHAMTON	BINGHAMTON, N. Y., USA
BIRM	BIRMINGHAM UNIV.	BIRMINGHAM, ENGLAND
BNL	*BROOKHAVEN NATIONAL* LAB.	UPTON, L.I., N. Y., USA
BOHR	NIELS BOHR INSTITUTE	*COPENHAGEN, DENMARK*
BOIS	BOISE STATE U.	BOISE, IDAHO, USA

INSTITUTION VOCABULARY (CONT'D)

BOMB	BOMBAY UNIV.	BOMBAY, INDIA
BONN	UNIV. BONN	BONN, GERMANY
BORD	BORDEAUX UNIV.	GRADIGNAN, FRANCE
BOST	BOSTON UNIV.	BOSTON, MASS., USA
BPOL	POLYTECHNIC INST. OF BROOKLYN	*BROOKLYN*, NY, USA
BRAN	BRANDEIS UNIV.	WALTHAM, MASS., USA
BRAT	INST. OF *PHYSICS, UNIV. BRATISLAVA*	BRATISLAVA, CZECHOSLOVAKIA
BRCO	BRITISH COLUMBIA UNIV.	VANCOUVER, CANADA
BRES	UNIVERSITA CATTAOLICA DI BRESCIA	BRESCIA, ITALY
BRIG	BRIGHAM YOUNG UNIV.	PROVO, UT, USA
BRIS	H. H. WILLS PHYS. LAB., U. OF BRISTOL	BRISTOL, ENGLAND
BRNC	BROOKLYN COLLEGE	BROOKLYN, NY, USA
BRPO	STATE UNIV. OF NEW YORK COLL. AT BROCKPORT	BROCKPORT, NY, USA
BROW	BROWN UNIV.	PROVIDENCE, R. I., USA
BRUX	*UNIV. LIBRE DE BRUXELLES*	*BRUXELLES, BELGIUM*
BRUY	CEA DE BRUYERES-LE-CHATEL	MONTROUGE, FRANCE
BSSL	BERKELEY SPACE SCI. LAB, UCB	BERKELEY, CA, USA
BUCH	BUCHAREST *STATE UNIV.*	BUCHAREST, ROMANIA
BUDA	CENTRAL RESEARCH INSTITUTE OF PHYSICS	BUDAPEST, HUNGARY
BUFF	STATE UNIV. OF NEW YORK AT BUFFALO	BUFFALO, N. Y., USA
BUND	PHYS. TECH. BUNDESANSTALT	*BRUNSWICK*, W.GERMANY
CAEN	LAB. DE PHYS. CORPUSCULAIRE	CAEN, FRANCE
CALG	CALGARY UNIV.	CALGARY, ALB., CANADA
CAMB	CAMBRIDGE UNIV.	*CAMBRIDGE, ENGLAND*
CAMP	CAMP UNIV. OF CAMPINAS	SAO PAULO, BRAZIL
CARL	CARLTON UNIV.	OTTAWA, CANADA
CASE	CASE WESTERN RESERVE UNIV.	CLEVELAND, OHIO, USA
CATA	CATANIA UNIV.	CATANIA, ITALY
CATH	CATHOLIC UNIV. OF *AMERICA*	WASHINGTON DC, USA
CAVE	*CAVENDISH LAB., CAMBRIDGE UNIV.*	*CAMBRIDGE, ENGLAND*
CDEF	COLLEGE DE FRANCE	PARIS, FRANCE
CEA	CAMBRIDGE ELECTRON ACCEL.	*CAMBRIDGE, MASS.*, USA
CENG	CEN, GRENOBLE	GRENOBLE, FRANCE
CERN	*EUROPEAN ORG. FOR NUC. RES.*	GENEVA, SWITZERLAND
CEYL	CEYLON UNIV	COLOMBO, CEYLON
CHAR	CHARLES UNIV.	PRAGUE, CZECHOSLOVAKIA
CHIC	UNIV. OF CHICAGO	CHICAGO, ILL., USA
CIIT	CZ. HIGHER TECH. INST. AT PRAGUE	PRAGUE, CZECHOSLOVAKIA
CHUB	CHUBU INST. TECH.	NAGOYA, JAPAN
CHUO	CHUO UNIV.	*TOKYO, JAPAN*
CINC	UNIV. OF CINCINNATI	CINCINNATI, OHIO, USA
CIQM	CARNEGIE INST. OF WASHINGTON	WASHINGTON, D.C., USA
CIPP	CANADIAN INST. OF PARTICLE PHYS.	*MONTREAL*, CANADA
CISI	INDIAN STATISTICAL INST.	CALCUTTA, INDIA
CIT	*CALIF. INSTITUTE OF TECHNOLOGY*	PASADENA, CALIF., USA
CLBR	CALABRIA UNIV.	CALABRIA, ITALY
CLER	UNIV. DE CLERMONT-FERRAND	CLERMONT-FERRAND, FRANCE
CLRK	CLARKSON COLL. OF TECH.	POTSDAM, NY, USA
CMNS	COMENIUS UNIV.	BRATISLAVA, CZECHOSLOVAKIA
CMU	CARNEGIE-MELLON UNIV.	PITTSBURGH, PA., USA
CNRC	CANADIAN NATIONAL RESEARCH COUNCIL	OTTAWA, CANADA
COLO	UNIV. OF COLORADO	BOULDER, COLO., USA
COLU	*COLUMBIA UNIV.*	NEW YORK, N. Y., USA
CONC	CONCORDIA TEACHER'S COLL.	RIVER FOREST, IL, USA
COPE	COPENHAGEN UNIV	COPENHAGEN, DENMARK
CORN	CORNELL UNIV.	*ITHACA, N. Y.*, USA
COSI	COSICE UNIV.	COSICE, CZECHOSLOVAKIA
COSU	COLORADO STATE UNIV.	FORT COLLINS, COLO., USA
COTT	COTTON COLLEGE	*GAUHATI, INDIA*
COUN	THE COOPER UNION	NEW YORK, N. Y., USA
CRAC	*INST. FOR NUCLEAR RESEARCH*	CRACOW, POLAND
CRNL	CHALK RIVER NUCLEAR LABORATORIES	CHALK RIVER, CANADA
CUNY	CITY UNIV. OF NEW YORK	NEW YORK, N. Y., USA
CURI	PIERRE ET MARIE CURIE UNIV.	PARIS, FRANCE
CUZA	AL.I.CUZA UNIV.	ISAI, ROMANIA
DACC	ATOMIC ENERGY CENTRE	DACCA, BANGLADESH
DAEC	DANISH ATOMIC ENERGY COMMISION	*RISOE*, DENMARK

DARE	DARESBURY NUC. PHYS. LAB.	DARESBURY, ENGLAND
DARM	TECHNISCHE UNIV., DARMSTADT	DARMSTADT, GERMANY
DART	*DARTMOUTH COLLEGE*	HANOVER, N. H., USA
DECC	DENVER COMMUNITY COLLEGE	DENVER, COLO., USA
DELH	*UNIV. OF DELHI*	DELHI, INDIA
DESY	DEUTSCHES ELEKTRONEN-SYNCH.	HAMBURG, GERMANY
DGSI	DARMSTADT-GSI, HEAVY ION	DARMSTADT, GERMANY
DIBR	DIBRUGARH UNIV	DIBRUGARH, INDIA
DLFT	TECHNISCHE HOGESCHOOL	DELFT, NETHERLANDS
DORT	UNIV. DORTMUND	DORTMUND-HORNBRUCH, GERMANY
DSRL	DUPONT AND CO., SAVANNAH RIVER LAB.	AIKEN, S.C., USA
DUBT	COLLEGE OF TECHNOLOGY, DUBLIN	DUBLIN, IRELAND
DUKE	DUKE UNIV.	DURHAM, N. C., USA
DURG	REGIONAL ENGINEERING COLL.	DURGAPUR, INDIA
DURH	UNIV. OF DURHAM	DURHAM, ENGLAND
DUSH	ACAD. OF SCI. TAJIK	*DUSHANBE, TAJIK, USSR*
DUUC	UNIVERSITY COLLEGE	DUBLIN, IRELAND
EAEC	*EUROPEAN ATOMIC ENERGY COMMISSION*	BRUSSELS, BELGIUM
EDIN	UNIV. OF EDINBURGH	EDINBURGH, SCOTLAND
EFI	ENRICO FERMI INST. FOR NUCL. STUDIES	CHICAGO, ILL., USA
EHIM	EHIME UNIV.	EHIME-KEN, JAPAN
ELMT	ELMHURST COLLEGE	ELMHURST, I., USA
EMMA	EMMANUEL COLLEGE	BOSTON, MASS., USA
ENSP	ECOLE NORMALE SUPERIEURE	PARIS, FRANCE
EOTV	*ROLAND EOTVOS UNIV*	*BUDAPEST, HUNGARY*
EPOL	ECOLE POLYTECHNIQUE	PALAISEAU, FRANCE
EREV	STATE ATOMIC ENERGY COMM. AT YEREVAN	YEREVAN, USSR
ERLA	UNIV. ERLANGEN	ERLANGEN, GERMANY
ESTA	ESTADUAL UNIV.	*CAMPINAS, BRAZIL*
ETHZ	SWISS FEDERAL INST. OF TECHNOLOGY	ZURICH, SWITZERLAND
EWAS	EASTERN WASHINGTON STATE COLL.	CHENEY, WASH., USA
EXET	EXETER UNIV	EXETER, ENGLAND
FAIR	FAIRHAVEN COLLEGE	BELLINGHAM, WASH., USA
FIRZ	UNIV. DI FIRENZE	FIRENZE, ITALY
FISK	FISK UNIV.	NASHVILLE, TENN., USA
FLOR	UNIV. OF FLORIDA	GAINSVILLE, FLA., USA
FNAL	FERMI NATIONAL ACCELERATOR LAB.	BATAVIA, ILL., USA
FOM	*FOM, FOR FUNDAMENTAL RESEARCH ON MATTER*	*UTRECHT, NETHERLANDS*
FRAS	LAB. NAZIONALI DEL SINCROTRONE	FRASCATI, ITALY
FRED	FREIE UNIV. BERLIN	BERLIN, GERMANY
FREI	UNIV. FREIBURG	FREIBURG, GERMANY
FRIB	UNIV. DE FRIBOURG	FRIBOURG, *SWITZERLAND*
FSU	FLORIDA STATE UNIVERSITY	TALLAHASSEE, FLA., USA
FUIT	FUKUOKA INST TECH.	FUKUOKA, JAPAN
FUKU	FURUSHIMA UNIV.	FUKUSHIMA, JAPAN
GAEC	GRUMMAN AIRCRAFT ENGINEERING CORP	BETHPAGE, NY, USA
GAUH	GAUHATI UNIV.	GAUHATI, INDIA
GAYA	GAYA COLL. OF MAGADH UNIV.	GAYA, BIHAR, INDIA
GEEL	EURATOM AT GEEL	GEEL, BELGIUM
GENO	UNIV. DI GENOVA	GENOVA, ITALY
GEOR	UNIV. OF GEORGIA	ATHENS, GA, USA
GESC	GENERAL ELECTRIC R AND D CENTER	SCHENECTADY, N. Y., USA
GEVA	UNIV. DE GENEVE	GENEVA, SWITZERLAND
GHEN	GHENT RIJKSUNIVERSTEIT	GHENT, NETHERLANDS
GHNA	GHANA UNIV.	LEGON, GHANA
GLAS	UNIV. OF GLASGOW	GLASGOW, SCOTLAND
GLPH	GUELPH UNIV	GUELPH, ONTARIO, CANADA
GOME	GOMEL STATE UNIV.	GOMEL, BYELORUSSIAN, USSR
GOTE	CHALMERS UNIV., INST. OF THEOR. PHYS.	GOTEBORG, SWEDEN
GRAZ	UNIV. GRAZ	GRAZ, AUSTRIA
GREN	GRENOBLE UNIV.	GRENOBLE, FRANCE
GRON	GRONINGEN RIJKSUNIVERSITEIT	GRONINGEN, NETHERLANDS
GRUM	GRUMMAN AEROSPACE CORP.	BETHPAGE, N. Y., USA
GSCD	GEOLOGICAL SURVEY OF CANADA	OTTAWA, CANADA
GUIL	UNIV. OF SURREY AT GUILFORD	GUILFORD, SURREY, ENGLAND
GWU	GEORGE WASHINGTON UNIV.	WASHINGTON, DC, USA
HAIF	*TECHNION - ISRAEL INST. OF TECHNOLOGY*	HAIFA, ISRAEL

HALT	HIGH ALT. OBS., NATL CENT. FOR ATMOS. RES.	BOULDER, CO, USA
HAMB	UNIV. HAMBURG	HAMBURG, GERMANY
HANO	HANOI UNIV.	HANOI, VIETNAM
HARV	*HARVARD UNIV.*	*CAMBRIDGE, MASS., USA*
HASL	*HEALTH AND SAFETY LAB*	*NEW YORK, N. Y., USA*
HAWA	UNIV. OF HAWAII	HONOLULU, HAWAII, USA
HEID	UNIV. HEIDELBERG	HEIDELBERG, GERMANY
HELS	HELSINGIN YLIOPISTO	HELSINKI, FINLAND
HIGA	HIGASHI CHIKUSHI JR COLL.	KITAKYUSHU, FUKUOKA, JAPAN
HIME	HIMEJI INST. OF TECH.	HYOGO, JAPAN
HIRO	HIROSHIMA UNIV.	HIROSHIMA, JAPAN
HOKK	HOKKAIDO UNIV.	SAPPORO, JAPAN
HOLY	HOLY CROSS COLLEGE	WORCESTER, MA, USA
HONG	HONG KONG UNIV	HONG KONG
HOUS	UNIV. OF HOUSTON	HOUSTON, TEXAS, USA
HRSK	HIROSAKI UNIV.	HIROSAKI, JAPAN
HUMB	HUMBOLDT UNIV	BERLIN, *E.GERMANY*
IACS	INDIAN ASSOC. FOR THE CULTIVATION OF SCI.	CALCUTTA, INDIA
IASD	INST. FOR ADVANCED STUDIES AT DUBLIN	DUBLIN, IRELAND
IBAD	IBADAN UNIV.	IBADAN, NIGERIA
IBAR	IBARAKI PHYS.	MITO-SHI, JAPAN
IBM	INTERNATIONAL BUSINESS MACHINES, INC.	PALO ALTO, CALIF., USA
ICUT	INTERNATIONAL CHRISTIAN UNIV. AT TOKYO	TOKYO, JAPAN
IDAH	UNIV. OF IDAHO	MOSCOW, ID, USA
IFA	*INST. FOR ATOMIC PHYSICS*	*BUCHAREST, ROMANIA*
IFE	UNIVERSITY OF IFE	ILE-IFE, NIGERIA
IIT	ILLINOIS INST. OF TECH.	CHICAGO, ILL., USA
ILL	UNIV. OF ILLINOIS	URBANA, ILL., USA
ILLC	UNIV. OF ILLINOIS AT CHICAGO	CHICAGO, ILL., USA
ILLG	INST. LAUE-LANGEVIN	GRENOBLE, FRANCE
IND	UNIV. OF INDIANA	BLOOMINGTON, IND., USA
INNP	INST. FOR NUCL. PROBLEMS, ACAD. OF SCI.	MOSCOW, USSR
INNS	INNSBRUCK UNIV.	INNSBRUCK, AUSTRIA
INUS	INST. FOR NUCLEAR STUDY AT TOKYO UNIV.	TOKYO, JAPAN
IOAN	UNIV. OF IOANNINA	IOANNINA, GREECE
IOFF	IOFFE INST. OF PHYS. AND TECH.	LENINGRAD, USSR
IOWA	UNIV. OF IOWA	IOWA CITY, IOWA, USA
IPB	INSTITUTUL POLITEHNIC	*BUCHAREST, ROMANIA*
IPN	INST. PHYS. NUCLEAIRE	ORSAY, FRANCE
IPNP	INSTITUT DE PHYSIQUE NUCLEAIRE	PARIS, FRANCE
IRAD	INSTITUTE DU RADIUM	PARIS, FRANCE
ISSP	*SOLID STATE PHYS. INST., UNIV. OF TOKYO*	TOKYO, JAPAN
ISU	IOWA STATE UNIV.	AMES, IOWA, USA
ITEP	INST. FOR THEOR. AND EXP. PHYS.	MOSCOW, USSR
ITHA	ITHACA COLLEGE	ITHACA, N.Y., USA
IUPP	INT. UNION OF PURE AND APPLIED PHYS.	LONDON, ENGLAND
IUPU	INDIANA U. - PURDUE U. AT INDIANAPOLIS	INDIANAPOLIS, IND., USA
JADA	JADAVPUR UNIV.	CALCUTTA, INDIA
JAGL	JAGELLONIAN UNIV.	CRACOW, POLAND
JAMU	JAMMU UNIV.	JAMMU-TAWI, INDIA
JERS	JERSEY CITY STATE COLL.	JERSEY CITY, NJ
JHU	JOHNS HOPKINS UNIV.	BALTIMORE, MD., USA
JICS	JADAVPUR IND. ASSOC. CULTIV SCI.	CALCUTTA, INDIA
JINR	JOINT INST. FOR NUCL. RESEARCH	DUBNA, USSR
JODH	*JODHPUR UNIV.*	JODHPUR, RAJASTHAN, INDIA
JSWN	JAPAN UNIV. OF SOCIAL WELFARE	NAGOYA, JAPAN
KABA	KABARDINO-BALKARIAN STATE UNIV.	NALCHIK, USSR
KAIS	KAISERSLAUTERN UNIV	KAISERSLAUTERN, *GERMANY*
KALY	KALYANI UNIV.	KALYANI, INDIA
KANP	INDIAN INST. TECH.	KANPUR, INDIA
KANS	UNIV. OF KANSAS	LAWRENCE, KANSAS, USA
KARL	TECHNISCHE UNIV. KARLSRUHE	KARLSRUHE, GERMANY
KAZA	PHYSICAL-TECHNICAL INST.	KAZAN, USSR
KEK	*NAT. LAB FOR HIGH ENERGY PHYS., JAPAN*	TSUKUBA-GUN, JAPAN
KENT	KENT UNIV. AT CANTERBURY, KENT	CANTERBURY, ENGLAND
KFAJ	KFA JULICH	JULICH, GERMANY
KFZK	KERNFORSCHUNGSZENTRUM, KARLSRUHE	LEOPOLDSHAVEN, GERMANY

INSTITUTION VOCABULARY (CONT'D)

KHAB	*FAR EAST SCIENCE CENTER*	KHABAROVSK, USSR
KHAR	PHYSICO-TECH. INST., ACAD. SCI., UKR.SSR	KHARKOV, USSR
KHLP	KHLOPIN RADIUM INST.	LENINGRAD, USSR
KHSU	KHARKOV STATE UNIV.	KHARKOV, USSR
KIAE	KURCHATOV INST. OF *ATOMIC ENERGY*	MOSCOW, USSR
KIDR	BORIS KIDRIC INST. NUC. SCI.	BELGRADE, YUGOSLAVIA
KIEL	KIEL UNIV.	KIEL, GERMANY
KIEV	*PHYSICAL-TECHNICAL INST.*	KIEV, USSR
KINI	KINKI UNIV.	IIZUKA, JAPAN
KINK	KINKI UNIV.	OSAKA, JAPAN
KIRT	KIRTLAND AIR FORCE BASE	ALBUQUERQUE, NM, USA
KISH	INST.APP.PHYS. ACAD. SCI	*KISHINEV*, MOLDAVIA, USSR
KMUL	KARL MARX UNIV.	LEIPZIG, DDR
KNGA	KANAGAWA UNIV.	YOKOHAMA, JAPAN
KNIJ	*KATHOLIEKE UNIV. NIJMEGEN*	NIJMEGEN, NETHERLANDS
KNTY	UNIV. OF KENTUCKY	LEXINGTON, KY., USA
KNZW	KANAZAWA UNIV	KANAZAWA, JAPAN
KOBE	KOBE UNIV.	KOBE, JAPAN
KOCH	*KOCHI UNIV*	*KOCHI, JAPAN*
KONA	KONAN UNIV.	KOBE, JAPAN
KOSI	CZECH. ACAD. SCI. AT KOSICE	KOSICE, CZECHOSLOVAKIA
KOSU	*PAVLA J. SAFARIK* UNIV.	KOSICE, CZECHOSLOVAKIA
KSAN	KYUSHU SANGYO UNIV.	KITAKYUSHU, FUKUOKA, *JAPAN*
KSUA	KAZAKH STATE UNIV.	ALMA-ATA, USSR
KSUM	KANSAS STATE UNIV	MANHATTEN, KS. USA
KURU	KURUKSHETRA UNIV.	*INDIA*
KWAN	KWANSAI GAKUIN UNIV.	HYOGO-KEN, JAPAN
KYOT	*KYOTO UNIV.*	*KYOTO, JAPAN*
KYUS	*KYUSHU UNIV.*	FUKUOKA, JAPAN
LALO	LINEAR ACCELERATOR LAB, ORSAY	ORSAY, FRANCE
LANC	LANCASTER UNIV.	LANCASTER, ENGLAND
LAND	LANDAU INST. THEOR. PHYS	MOSCOW, USSR
LANG	LANGUEDOC UNIV.	*MONTPELLIER, FRANCE*
LAPP	LAPP UNIV.	ANNECY, FRANCE
LAPZ	UNIV. MAYOR DE SAN ANDRES	LA PAZ, ARGENTINA
LASL	U. C. LOS *ALAMOS SCIENTIFIC* LAB.	LOS ALAMOS, N. M., USA
LASU	*LOS ANGELES STATE UNIV*	*LOS ANGELES*, CA, USA
LAUS	UNIV. OF LAUSANNE	LAUSANNE, SWITZERLAND
LAVL	LAVAL UNIV.	QUEBEC, CANADA
LBL	U. C. LAWRENCE BERKELEY LAB.	*BERKELEY*, CALIF., USA
LEBO	LEBEDEV PHYSICS INST.	MOSCOW, USSR
LEED	LEEDS UNIV.	LEEDS, ENGLAND
LEHI	*LEHIGH* UNIV.	BETHLEHEM, PA, USA
LEID	INST. LORENTZ	LEIDEN, NETHERLANDS
LENI	INST. OF NUCL. PHYS., AKAD. NAUK USSR	LENINGRAD, USSR
LENP	LENINGRAD KALININ POLYTECHNIC INST.	LENINGRAD, USSR
LENU	LENINGRAD UNIV.	*LENINGRAD*, USSR
LEUV	LEUVEN UNIV.	HEVERLEE, BELGIUM
LIBN	LAB INTERUNIV. BELGE HIGH ENG.	BRUSSELS, BELGIUM
LIEG	*LIEGE UNIV.*	LIEGE, BELGIUM
LINZ	LINZ INSTITUT FUR PHYSIK, KEPLER HOCH.	LINZ, AUSTRIA
LIPS	DAVID LIPSCOMB COLL.	NASHVILLE, TENN. USA
LIVP	LIVERPOOL UNIV.	LIVERPOOL, ENGLAND
LLL	LAWRENCE LIVERMORE LAB	*LIVERMORE, CALIF.*, USA
LOCK	LOCKHEAD PALO ALTO RESEARCH LAB	PALO ALTO, CA, USA
LODZ	LODZ UNIV.	LODZ, POLAND
LOGN	*UTAH STATE UNIV. AT LOGAN*	LOGAN, UTAH, USA
LOIC	IMPERIAL COL. OF SCI. AND TECH.	LONDON, ENGLAND
LOKC	KING'S COLLEGE	LONDON, ENGLAND
LOQM	QUEEN MARY COLLEGE	LONDON, ENGLAND
LOUC	UNIVERSITY COLLEGE	LONDON, ENGLAND
LOUG	LOUGHBOROUGH UNIV. OF TECHNOLOGY	LOUGHBOROUGH, ENGLAND
LOWC	WESTFIELD COLLEGE	LONDON, ENGLAND
LPGP	*LAB. DE PHYS. GENERAL, UNIV. PARIS*	PARIS, FRANCE
LPNP	*LAB. DE PHYS. NUCL. ET HAUTES ENERGIES*	PARIS, FRANCE
LPTH	PARIS UNIV VII, LPTHE	PARIS, FRANCE
LRC	LEWIS RESEARCH CENTER, NASA	CLEVELAND, OHIO, USA

INSTITUTION VOCABULARY (CONT'D)

LSBF	LISBON INST. FISICA	LISBON, PORTUGAL
LSU	LOUISIANA STATE UNIV.	BATON ROUGE, LA., USA
LUMI	CENTRE UNIV. DE LUMINY	*MARSEILLE, FRANCE*
LUND	LUND UNIV.	LUND, SWEDEN
LVLN	UNIV. CATHOLIQUE DE LOUVAIN	LOUVAIN-LA-NEUVE, BELG.
LYON	INST. DE PHYS. NUCL., *UNIV. DE LYON*	VILLEURBANNE, FRANCE
MADR	JUNTA DE ENERGIA NUCLEAR	MADRID, SPAIN
MAEC	STATE ATOMIC ENERGY COMMITTEE	MOSCOW, USSR
MAIN	*MAINE UNIV.*	ORONO, ME, USA
MANH	MANHATTAN COLLEGE	NEW YORK, N. Y., USA
MANI	UNIV. OF MANITOBA	WINNIPEG, CANADA
MANZ	UNIV. MAINZ	MAINZ, GERMANY
MARB	MARBURG UNIV.	*MARBURG/LAHN, GERMANY*
MARS	CENTRE NATIONAL DE LA RECHERCHE SCI.	MARSEILLE, FRANCE
MASA	UNIV. OF MASSACHUSETTS	AMHERST, MASS., USA
MASB	*UNIV.* OF MASSACHUSETTS	BOSTON, MASS., USA
MATS	MATSCIENCE	MADRAS, INDIA
MCGI	MCGILL UNIV.	MONTREAL, CANADA
MCHS	UNIV. MANCHESTER	MANCHESTER, ENGLAND
MDRU	MADRAS UNIV., GUINDY	MADRAS, INDIA
MEIS	MEISEI UNIV	TOKYO, JAPAN
MELB	UNIV. OF MELBOURNE	PARKVILLE, AUSTRALIA
MEXI	NACIONAL INSTITUTO POLITECNICO	MEXICO CITY, MEXICO
MEXU	UNIV NAC. AUTONOMA DE MEXICO	MEXICO CITY, MEXICO
MICH	UNIV. OF MICHIGAN	ANN ARBOR, MICH., USA
MICR	INST. FOR COSMIC RESEARCH	MOSCOW, USSR
MILA	UNIV. DI MILANO	MILANO, ITALY
MIM	*MOSCOW INST. OF MATHEMATICS*	MOSCOW, USSR
MINN	UNIV. OF MINNESOTA	MINNEAPOLIS, MINN., USA
MINR	*INSTITUTE FOR NUCLEAR RESEARCH*	MOSCOW, USSR
MINS	ACAD. OF SCI. BYELORUSSIAN	MINSK, BYEL., USSR
MIOH	MIAMI UNIV.	OXFORD, OHIO, USA
MIRA	INTL. CENTER FOR THEO. PHYS., MIRAMARE	TRIESTE, ITALY
MISR	INST FOR SPACE RESEARCH	*MOSCOW, USSR*
MISS	MISSISSIPPI UNIV.	UNIVERSITY, MISS. USA
MISU	MISSISSIPPI STATE UNIV.	STATE COLLEGE, MISS, USA
MIT	*MASSACHUSETTS INST. OF TECHNOLOGY*	*CAMBRIDGE, MASS., USA*
MMST	MCMASTER UNIV.	HAMILTON, ONT. CANADA
MODE	ISTITUTO DI FISICA DELLA UNIVERSITA	MODENA, ITALY
MONS	UNIV. DE L'ETAT, MONS	MONS, BELGIUM
MONT	MONTREAL UNIV	*MONTREAL*, QUE., CANADA
MOSU	MOSCOW STATE UNIV. INST. OF NUCL. PHYS.	MOSCOW, USSR
MPCM	MAX-PLANCK-INSTITUT FUER CHEMIE	MAINZ, GERMANY
MPEI	MOSCOW *PHYS. ENG. INST*	MOSCOW, USSR
MPIG	MAX-PLANCK-INST. FUR PHYS.-ASTROPHYS.	GARCHING, GERMANY
MPIH	MAX-PLANCK-INST. FUR PHYS.-ASTROPHYS.	HEIDELBERG, GERMANY
MPIM	MAX-PLANCK-INST. FUR PHYS.-ASTROPHYS.	MUNICH, GERMANY
MPTI	MOSCOW PHYSICAL-TECHNICAL INST.	MOSCOW, USSR
MSCC	NASA MANNED SPACECRAFT CENTER	HOUSTON, TEXAS, USA
MSNA	INS. DI FISICA DELL UNIV.	MESSINA, ITALY
MSU	*MICHIGAN STATE UNIV.*	EAST LANSING, MICH., USA
MTHO	MT. HOLYOKE COLLEGE	SOUTH HADLEY, MASS., USA
MTPL	MICHIGAN UNIV., AT MT. PLEASANT	MT. PLEASANT, MI, USA
MUDD	HARVEY MUDD COLLEGE	CLAREMONT, CALIF., USA
MULH	CENTRE UNIV. DU HAUT-RHIN	*MULHOUSE, FRANCE*
MUNI	MUNICH UNIV.	MUNICH, GERMANY
MUNT	TECHNISCHE UNIVERSITAT MUNICH	MUNICH, GERMANY
MURA	MIDWESTERN UNIV. *RESEARCH ASSOC.*	STROUGHTON, WI. USA
NAGO	NAGOYA UNIV.	NAGOYA, JAPAN
NAME	NASA AMES RESEARCH CENTER	MOFFETT FIELD, CA, USA
NANC	UNIV. DE NANCY	NANCY, FRANCE
NANY	NANYANG UNIV.	*SINGAPORE, SINGAPORE*
NAPL	UNIV. DI NAPOLI	NAPOLI, ITALY
NARA	NARA WOMEN'S UNIV.	NARA, JAPAN
NASA	NASA, *GODDARD*	GREENBELT, MD, USA
NASL	NASA, LEWIS	CLEVELAND, OH, USA
NBNG	NORTH BENGAL UNIV.	RAJARAMMOHUNPUR, INDIA

INSTITUTION VOCABULARY (CONT'D)

NBS	NATIONAL BUREAU OF STANDARDS	WASHINGTON DC, USA
NDAM	UNIV. OF NOTRE DAME	NOTRE DAME, IND., USA
NDIT	NEW DELHI INST. OF TECHNOLOGY	DELHI, INDIA
NEAS	NORTHEASTERN UNIV.	BOSTON, MASS., USA
NEBR	UNIV. OF NEBRASKA	LINCOLN, NEBR., USA
NEUC	UNIV. OF NEUCHATEL	NEUCHATEL, SWITZERLAND
NEVI	NEVIS LAB.	IRVINGTON-ON-HUDSON, N.Y., USA
NFLD	NEWFOUNDLAND UNIV	ST. JOHNS, NFLD, CANADA
NGNY	NASA, GODDARD INST.	NEW YORK, NY, USA
NHMP	NEW HAMPSHIRE UNIV	DURHAM, NH, USA
NICE	NICE UNIV.	NICE, FRANCE
NIPS	IST. DI FIS. SPERIMENTALE	NAPOLI, ITALY
NION	NIHON UNIV	TOKYO, JAPAN
NIJM	R. K. UNIV. NIJMEGEN	NIJMEGEN, NETHERLANDS
NILU	NORTHERN ILLINOIS UNIV.	DEKALB, ILL., USA
NORD	NORDISK INS. FOR TEOR. ATOMFYS.	COPENHAGEN, DENMARK
NOTT	NOTTINGHAM UNIV.	NOTTINGHAM, ENGLAND
NOVO	INST. OF NUCL. PHYS.	NOVOSIBIRSK, USSR
NPOL	*NORTHERN POLYTECHNIC*	*LONDON, ENGLAND*
NRL	NAVAL RESEARCH LABORATORY	WASHINGTON, D.C., USA
NSF	*NATIONAL SCIENCE FOUNDATION*	*WASHINGTON, D.C., USA*
NTUA	NATL. TECH. UNIV. OF ATHENS	ATHENS, GREECE
NWES	NORTHWESTERN UNIV.	EVANSTON, ILL., USA
NYMC	NEW YORK MEDICAL COLL.	NEW YORK, N. Y., USA
NYU	NEW YORK UNIV.	NEW YORK, N. Y., USA
OBER	OBERLIN COLLEGE	OBERLIN, OHIO, USA
OBNI	ATOMIC RESEARCH CENTER	OBNINSK, USSR
OERS	ORSAY, ECOLE NORMALE SUPERIEURE	ORSAY, FRANCE
OHIO	OHIO UNIV.	ATHENS, OHIO, USA
OKAY	OKAYAMA UNIV	OKAYAMA, JAPAN
OKLN	OKLAHOMA UNIV	NORMAN, OK, USA
OPEN	*OPEN UNIV*	*MILTON KEYNES, ENGLAND*
ORME	LAB DE PHYS. THEOR. ET H.ENERGIES	ORSAY, FRANCE
OREC	OREGON STATE UNIV	CORVALLIS, ORE, USA
OREG	UNIV. OF OREGON	EUGENE, ORE., USA
ORLE	LAB DE PHYS. ORLEANS	ORLEANS, FRANCE
ORNL	OAK RIDGE NATIONAL LAB.	OAK RIDGE, TENN., USA
ORSA	UNIV. DE PARIS, FAC. DES SCI.	ORSAY, FRANCE
OSAK	OSAKA UNIV.	OSAKA, JAPAN
OSKC	OSAKA CITY UNIV.	OSAKA, JAPAN
OSLO	OSLO UNIV.	OSLO, NORWAY
OSMA	OSMANIA UNIV.	HYDERABAD, INDIA
OSSE	*SCI. EDUC. INST. OF OSAKA PREF.*	*OSAKA, JAPAN*
OSU	OHIO STATE UNIV.	COLUMBUS, OHIO, USA
OSUS	OKLAHOMA STATE UNIV.	*STILLWATER, OK, USA*
OTTA	UNIV. OF OTTAWA	OTTAWA, CANADA
OXF	OXFORD UNIV.	OXFORD, ENGLAND
PADO	UNIV. DI PADOVA	PADOVA, ITALY
PANU	PANJAB UNIV.	ROHTAK, INDIA
PARI	PARIS UNIV. BEFORE DIVISION IN EARLY 70'S	PARIS, FRANCE
PARM	UNIV. OF PARMA	PARMA, ITALY
PATR	UNIV. OF PATRAS	PATRAS, GREECE
PAVI	UNIV. DI PAVIA	PAVIA, ITALY
PENN	UNIV. OF PENNSYLVANIA	PHILADELPHIA, PA., USA
PHGD	PHYS. GESELLSCHAFT DER DDR, BERLIN	BERLIN, GERMANY
PIAS	PRINCETON INST. ADVANCED STUDY	PRINCETON, NJ, USA
PINP	INST. NAT. PHYS. NUCL. PHYS. PART.	PARIS, FRANCE
PISA	*UNIV. DI PISA*	*PISA, ITALY*
PITT	UNIV. OF PITTSBURGH	PITTSBURGH, PA., USA
PLAT	STATE UNIV. OF NEW YORK	PLATTSBURGH, NY, USA
POON	POONA UNIV.	POONA, INDIA
PPA	PRINCETON-PENN. PROTON ACCEL.	PRINCETON, N. J., USA
PRAG	INSTITUTE OF PHYSICS, CSAV	PRAGUE, CZECHOSLOVAKIA
PRES	PRESIDENCY COLLEGE	CALCUTTA, INDIA
PRIN	*PRINCETON UNIV.*	*PRINCETON, N. J., USA*
PSU	PENNSYLVANIA STATE UNIV.	UNIVERSITY PARK, PA., USA
PTCH	POTCHEFSTROOM UNIV	POTCHEFSTROOM, S.AFRICA

INSTITUTION VOCABULARY (CONT'D)

PTEU	PHYS. TECH. INST. OF ACAD. SCI., UZB.	TASHKENT, USSR
PUNJ	PUNJAB UNIV	CHANDIGARH, INDIA
PUNL	UNIV. OF THE PUNJAB	LAHORE, PAKISTAN
PURD	PURDUE UNIV.	LAFAYETTE, IND., USA
QUB	QUEENS UNIV. AT BELFAST	BELFAST, NORTHERN IRELAND
QUEB	*UNIV. DU QUEBEC*	*MONTREAL, CANADA*
QUNS	*QUEENS COLLEGE OF CUNY*	*FLUSHING, N. Y., USA*
RAJS	RAJSHAHI UNIV.	RAJSHAHI, BANGLADESH
RAWA	ISLAMABAD UNIV.	RAWALPINDI, PAKISTAN
REDL	REDLANDS UNIV	REDLANDS, CA, USA
REED	REED COLLEGE	PORTLAND, OREGON, USA
REHO	WEIZMANN INST. OF SCI.	REHOVOTH, ISRAEL
REZ	REZ INST. NUCL. PHYS.	REZ, CZECHOSLOVAKIA
RHEL	RUTHERFORD HIGH ENERGY LAB.	CHILTON, DIDC., OXON., ENGLAND
RHLC	ROYAL HOLLOWAY COLLEGE	ENGLEFIELD GREEN, ENGLAND
RICE	WILLIAM MARSH RICE UNIV.	HOUSTON, TEXAS, USA
RIKK	RIKKYO UNIVERSITY	RIKKYO, JAPAN
RIOJ	RIO DE JANEIRO UNIV.	RIO DE JANEIRO, BRAZIL
RISO	RESEARCH ESTAB. RISO	ROSKILDE, DENMARK
RITS	ROYAL INST. OF TECHNOLOGY	STOCKHOLM, SWEDEN
RMCS	ROYAL MILITARY COLLEGE OF SCIENCE	SHRIVENHAM, ENGLAND
ROCH	UNIV. OF ROCHESTER	ROCHESTER, N. Y., USA
ROCK	ROCKEFELLER UNIV.	NEW YORK, N. Y., USA
ROMA	UNIV. DI ROMA	ROMA, ITALY
RUTG	RUTGERS UNIV.	NEW BRUNSWICK, N. J., USA
RUTP	RUTGERS UNIV AT PISCATAWY	PISCATAWAY, NJ, USA
RVAC	ROYAL VET. AND AGRIC. UNIV.	COPENHAGEN, DENMARK
SACL	*CNTR. D'ETUDES NUC. SACLAY*	GIF-SUR-YVETTE, FRANCE
SAGA	SAGA UNIV.	SAGA, JAPAN
SAGM	SAGAMI INST. TECH.	FUJISAWA, JAPAN
SAIT	SAITAMA UNIV.	SAITAMA, JAPAN
SAMC	SAITAMA MEDICAL COLL.	SAITAMA, JAPAN
SAND	SANDIA LABS	ALBUQUERQUE, NM, USA
SANI	IST. SUPERIORE DI SANITA	ROMA, ITALY
SANT	UNIV. DE SANTANDER	SANTANDER, SPAIN
SAOP	SAO PAULO UNIV.	SAO PAULO, BRAZIL
SARA	SARATOVA STATE UNIV	SARATOVA, USSR
SASK	UNIV. OF SASKATCHEWAN	SASKATOON, CANADA
SBER	SAN BERNARDINO STATE COLL.	SAN BERNARDINO, CA, USA
SCAN	SCANDINAVIAN COLLABORATION	SCANDINAVIA
SCST	STATE COMM. ON SCIENCE AND TECH.	HANOI, NORTH VIETNAM
SCUC	UNIV. OF SOUTH CAROLINA AT COLUMBIA	COLUMBIA, SC, USA
SDCO	*SAN DIEGO STATE COLL.*	*SAN DIEGO, CA, USA*
SEAT	SEATTLE PACIFIC COLLEGE	SEATTLE, WASH., USA
SEIB	*AUSTRIAN STUD. FUER ATOM-ENERGIE, PHYS.*	VIENNA, SEIBERSDORF, AUSTRIA
SEOU	KOREA UNIV. AT SEOUL	SEOUL, S. KOREA
SERP	INST. OF HIGH EN. PHYS.	SERPUKOV, USSR
SETO	SETON HALL UNIV.	SOUTH ORANGE, N. J., USA
SFLA	SOUTH FLORIDA UNIV.	TAMPA, FL., USA
SFSU	SAN FRANCISCO STATE UNIV.	SAN FRANCISCO, CA, USA
SHAF	SHAFARIK UNIV.	KOSHITSE, USSR
SHEF	UNIV. OF SHEFFIELD	SHEFFIELD, YORKS., ENGLAND
SHIB	SHIBAURA INST. TECH.	TOKYO, JAPAN
SHIN	SHINSHU UNIV.	MATSUMOTO, JAPAN
SHIZ	SHIZUOKA UNIV	SHIZUOKA, JAPAN
SHMP	UNIV. OF SOUTHAMPTON	SOUTHAMPTON, ENGLAND
SHOW	SHOWA MEDICAL COLL.	TOKYO, JAPAN
SIEG	*SIEGEN UNIV.*	*HUTTENTAL, GERMANY*
SING	UNIV. OF SINGAPORE	SINGAPORE, SINGAPORE
SINR	INST. OF NUCL. RESEARCH	SOFIA, BULGARIA
SLAC	STANFORD LINEAR ACCEL. CENTER	STANFORD, CALIF., USA
SMAS	SOUTHEASTERN MASSACHUSETTS UNIV.	NORTH DARTMOUTH, MASS., USA
SMU	SOUTHERN METHODIST UNIV.	DALLAS, TEXAS, USA
SNRC	ISRAEL AEC SOTSG. NUCL. RESEARCH CENTER	YAVNEH, ISRAEL
SNSP	*SCUOLA NORMALE SUPERIORE*	*PISA, ITALY*
SOFC	HIGH INST. OF CHEM. TECH.	SOFIA, BULGARIA
SOFI	BULGARIAN ACAD. OF SCI.	SOFIA, BULGARIA

SRI	STANFORD RESEARCH INST.	MENLO PARK, CALIF., USA
STAN	STANFORD UNIV.	*STANFORD, CALIF.*, USA
STEL	UNIV. OF STELLENBOSCH	CAPE PROVINCE, SOUTH AFRICA
STEV	STEVENS INST. OF TECH.	HOBOKEN, N. J., USA
STLO	ST. LOUIS UNIV.	ST. LOUIS, MO., USA
STOH	STOCKHOLM UNIV.	*STOCKHOLM, SWEDEN*
STON	STATE UNIV. OF NEW YORK AT STONYBROOK	STONYBROOK, L.I., N. Y., USA
STPL	*SAINT PAUL UNIV.*	TOKYO, JAPAN
STRA	CENTRE DES RES. NUCLEAIRES	STRASBOURG, FRANCE
STRU	UNIV. DE STRASBOURG	STRASBOURG, FRANCE
SUFB	SUFFOLK UNIV	BOSTON, MA, USA
SUFF	SUFFOLK UNIV.	SUFFOLK, ENGLAND
SUSS	SUSSEX UNIV.	SUSSEX, ENGLAND
SYDN	UNIV. OF SYDNEY	SYDNEY, AUSTRALIA
SYRA	SYRACUSE UNIV.	SYRACUSE, N. Y., USA
TAJK	TAJIKSKII STATE UNIV	*DUSHANBE, TAJIK, USSR*
TAMU	TEXAS A AND M UNIV.	COLLEGE STATION, TEXAS, U.S.A
TASH	TASHKENT STATE UNIV.	VUTCORBNEY, UZB, USSR
TASM	TASMANIA *UNIV.*	HOBART, TASMANIA, AUSTRALIA
TATA	TATA INST. OF FUNDAMENTAL RESEARCH	BOMBAY, INDIA
TBIL	INST. OF PHYSICS	TBILISI, USSR
TBSU	TBILISI STATE UNIV.	TBILISI, USSR
TEDD	NATIONAL PHYSICS LAB.	*TEDDINGTON, ENGLAND*
TELA	UNIV. OF TEL-AVIV	TEL-AVIV, ISRAEL
TEMP	TEMPLE UNIV.	PHILADELPHIA, PA., USA
TENN	UNIV. OF TENNESSEE	*KNOXVILLE, TENN.*, USA
TEXA	UNIV. OF TEXAS AT AUSTIN	AUSTIN, TX, USA
TEXD	UNIV. OF TEXAS AT DALLAS	DALLAS, TX, USA
THES	*UNIV. OF THESSALONIKI*	THESSALONIKI, GREECE
TIMI	TIMISOARA UNIV.	TIMISOARA, *ROMANIA*
TIPC	INST. AND CHEM. RESEARCH INST	TOKYO, JAPAN
TIYF	TASHKENT INST. YAD. FIZ.	ULUGBEK, UZB, USSR
TMSK	NUCL. PHYS. INST., *TOMSK POLYTECH. INST.*	TOMSK, USSR
TMU	TOKYO METROPOLITAN UNIV.	TOKYO, JAPAN
TNTO	UNIV. OF TORONTO	TORONTO, CANADA
TNTS	TOHONTO U. SCARBOROUGH COLL.	WEST HILL, ONT. CANADA
TOCH	COSMIC RAY LAB, TOKYO UNIV.	TOKYO, *JAPAN*
TOGA	TOHOKU-GAKUIN UNIV.	MIYAGI, JAPAN
TOHO	TOHOKU UNIV.	SENDAI, JAPAN
TOIN	TOKYO *INST. OF TECH.*	TOKYO, JAPAN
TOKY	UNIV. OF TOKYO	TOKYO, JAPAN
TORI	UNIV. DI TORINO	TORINO, ITALY
TPOL	TASHKENT POLYTECH INST	TASHKENT, USSR
TRIN	TRINITY COLLEGE	*DUBLIN, IRELAND*
TRIU	TRIUMF, UNIV. OF BRITISH COLUMBIA	VANCOUVER, CANADA
TRON	*UNIV. OF TRONDHEIM*	*TRONDHEIM, NORWAY*
TRST	*UNIV. OF TRIESTE*	TRIESTE, ITALY
TRTU	TRONDHEIM TECHNICAL UNIV.	TRONDHEIM, NORWAY
TRW	TRW SYSTEMS	REDONDO BEACH, CA, USA
TSOP	SOPHIA UNIV.	TOKYO, JAPAN
TSUK	TSUKUBA UNIV.	*IBARAKI, JAPAN*
TUAT	TOKYO UNIV. OF AGRICULTURE AND TECH.	TOKYO, JAPAN
TUBI	TUBINGEN UNIV	TUBINGEN, GERMANY
TUED	TOKYO UNIV. OF *EDUCATION*	TOKYO, JAPAN
TUFT	TUFTS UNIV.	MEDFORD, MASS., USA
TUNI	TUNIS UNIV.	TUNIS, TUNISIA
TWAS	WASEDA UNIV	TOKYO, JAPAN
UATH	UNIV. OF ATHENS	ATHENS, *GREECE*
UBEL	UNIV. *OF BELGRADE*	BELGRADE, YUGOSLAVIA
UCB	UNIV. OF CALIF. AT BERKELEY	BERKELEY, CALIF., USA
UCD	UNIV. OF CALIF. AT *DAVIS*	DAVIS, CALIF., USA
UCI	UNIV. OF CALIF. AT IRVINE	IRVINE, CALIF., USA
UCLA	UNIV. OF CALIF. AT LOS ANGELES	LOS ANGELES, CALIF., USA
UCND	UNION CARBIDE NUCLEAR DIVISION	OAK RIDGE, TENN., USA
UCR	UNIV. OF CALIF. AT RIVERSIDE	*RIVERSIDE, CALIF.*, USA
UCSB	UNIV. OF CALIF. AT *SANTA BARBARA*	*SANTA BARBARA, CALIF.*, USA

UCSC	UNIV. OF CALIF. AT SANTA CRUZ	SANTA CRUZ, CALIF., USA
UCSD	UNIV. OF CALIF. AT SAN DIEGO	LA JOLLA, CALIF., USA
ULAN	INST OF PHYSICHEM, MONGOLIAN *SCI. ACAD.*	*ULAN-BATOR*, MONGOLIA
UMAD	UNIV. DE MADRID	MADRID, SPAIN
UMD	UNIV. OF MARYLAND	COLLEGE PARK, MD., USA
UNC	*UNIV. OF NORTH CAROLINA*	GREENSBORO, N. C., USA
UNCS	UNION COLLEGE	SCHENECTADY, N. Y., USA
UNM	UNIV. OF NEW MEXICO	ALBUQUERQUE, NEW MEX., USA
UPNJ	UPSALA COLLEGE	EAST ORANGE, N. J., USA
UPPT	ANGSTROMLABORATORIET	*UPPSALA, SWEDEN*
USC	UNIV OF SOUTHERN CALIF.	LOS ANGELES, CALIF., USA
USPS	U. S. NAVAL POSTGRADUATE SCHOOL	MONTEREY, CALIF., US.
UTAH	UNIV. OF *UTAH*	SALT LAKE CITY, UTAH, USA
UTRE	UNIVERSITY OF UTRECHT	UTRECHT, NETHERLANDS
UTSU	UTSUNOMIYA UNIV.	UTSUNOMIYA, JAPAN
UUPP	UNIV. OF UPPSALA	UPPSALA, SWEDEN
UZHG	UZHGOROD STATE UNIV.	*UZHGOROD*, USSR
VALE	UNIV. DE VALENCIA	VALENCIA, SPAIN
VAND	*VANDERBILT* UNIV.	NASHVILLE, TENN., USA
VARA	*BANARES HINDU UNIV.*	VARANASI, INDIA
VARN	INST. ELECT. MECH. ENG.	VARNA, BULGARIA
VASS	VASSAR COLLEGE	POUGHKEEPSIE, N. Y., USA
VERE	COSMIC RAY PHYSICS LAB	VERRIERES LE BUISSON, FRANCE
VICT	VICTORIA UNIV.	*VICTORIA*, BC, CANADA
VIEN	INST. FOR HIGH EN. PHYS., A. A. S.	VIENNA, AUSTRIA
VILL	*SIN VILLIGEN UNIV. HIGH ENERGY PHYS. LAB*	*VILLIGEN, SWITZERLAND*
VIRG	UNIV. OF *VIRGINIA*	CHARLOTTESVILLE, VA., USA
VIRK	INST. FUER RADIUMFORSCHUNG UND KERNPHYSIK	VIENNA, AUSTRIA
VPI	VIRGINIA POLYTECHNIC INST.	BLACKSBURG, VA., USA
VRIJ	VRIJE UNIV.	AMSTERDAM, NETHERLANDS
WAKA	WAKAYAMA MEDICAL COLLEGE	WAKAYAMA-SHI, JAPAN
WARS	UNIV. OF WARSAW	WARSAW, POLAND
WASH	UNIV. OF WASHINGTON	SEATTLE, WASH., USA
WATR	*UNIV. OF WATERLOO*	WATERLOO, ONT., CANADA
WAYN	WAYNE STATE UNIV.	DETROIT, MICH., USA
WEST	WESTERN UNIV.	LONDON, CANADA
WIEN	UNIV. WIEN	VIENNA, AUSTRIA
WILL	COLLEGE OF WILLIAM AND *MARY*	*WILLIAMSBURG*, VA., USA
WISC	UNIV. OF WISCONSIN	MADISON, WISC., USA
WISP	WISCONSIN UNIV. AT PARKSIDE	PARKSIDE, WI, USA
WISW	*UNIV* OF WISCONSIN AT WAUSAU	WAUSAU, WI, USA
WITW	UNIV. OF THE WITWATERSRAND	*JOHANNESBURG, SOUTH AFRICA*
WLEE	WASHINGTON AND LEE UNIV.	LEXINGTON, VA, USA
WOOD	WOODSTOCK COLLEGE	WOODSTOCK, MD., USA
WORI	WORCESTER *POLYTECHNIC INST.*	WORCESTER, MASS., USA
WSLC	*WISCONSIN STATE UNIV*	*LA CROSSE, WI*, USA
WTU	WARSAW TECH. UNIV.	WARSAW, POLAND
WUPP	UNIV. *WUPPERTAL*	WUPPERTAL, GERMANY
WURZ	WURZBURG UNIV.	WURZBURG, GERMANY
WUSL	WASHINGTON UNIV.	ST. LOUIS, MO., USA
WYOM	UNIV. OF WYOMING	LARAMIE, WYOMING, USA
YANI	INST. COSMOPHYSICAL RESEARCH	*YAKUTSK*, USSR
YALE	YALE UNIV.	NEW HAVEN, CONN., USA
YAMG	YAMAGATA UNIV.	YAMAGATA, JAPAN
YAMN	*YAMANASHI* UNIV.	KOFU CITY, JAPAN
YERE	YEREVAN PHYSICS INST.	YEREVAN, ARMENIA, *USSR*
YERS	YEREVAN STATE UNIV.	YEREVAN, ARMENIA, USSR
YOKO	YOKOHAMA NATIONAL UNIV	YOKOHAMA, JAPAN
YORK	*YORK UNIVERSITY*	*DOWNSVIEW, ONT.*, CANADA
YUNN	YUNNAN UNIV.	KUNMING, CHINA
ZAED	ZENT. FUER ATOMKERNENERGIE-DOKUM.	EGGENSTEIN-LEOPOLDSHAFEN, GER.
ZAGR	*INSTITUTE RUDER BOSKOVIC*, ZAGREB	ZAGREB, YUGOSLAVIA
ZARA	ZARAGOZA UNIV.	ZAHAGOZA, SPAIN
ZEEM	ZEEMAN LAB., UNIV. OF AMSTERDAM	AMSTERDAM, NETHERLANDS
ZURI	ZURICH UNIVERSITY	ZURICH, SWITZERLAND
*	UNKNOWN INSTITUTION	

PART IV
DOCUMENT SUMMARY LISTINGS

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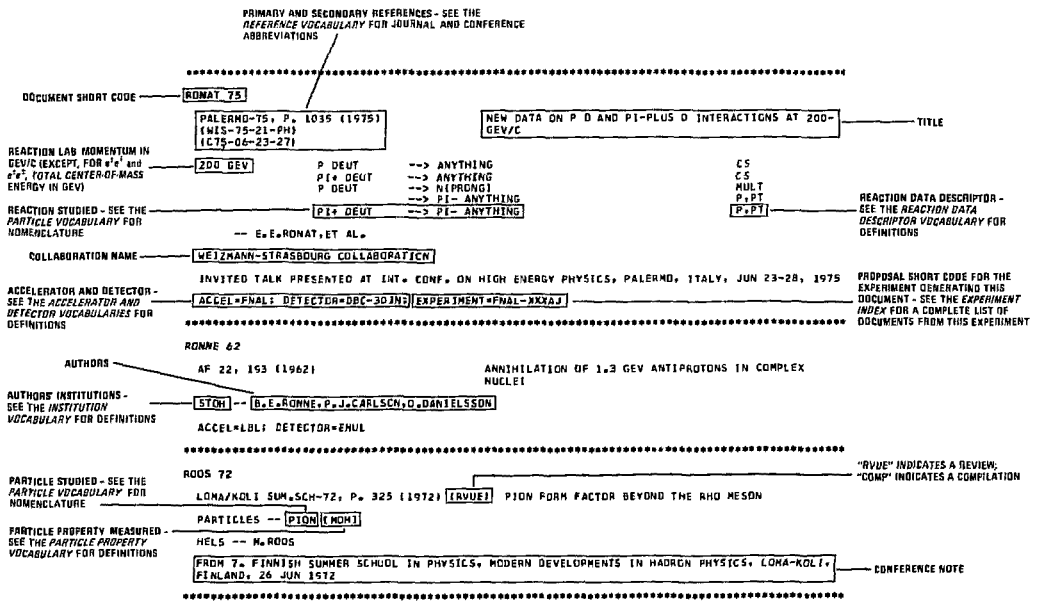
The Document Summary Listings may be found on the microfiche mounted on the inside back cover. The Listings contain the complete set of information we have encoded for every document in our database. The documents are ordered alphabetically by Short Code, which is described in the text, Section I.C.1. For ease of reference, the first and last Short Codes contained on each fiche appear dictionary-style at the top of the fiche, in printing large enough to be read by eye. An illustrative key to the Summary Listings is given on the next page, showing the information available and the format used.

ILLUSTRATIVE KEY