

189 11/26
22-1805
LA-5900-MS

Informal Report

UC-2

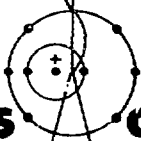
Reporting Date: May 1975

Issued: September 1974

**Publications of LASL Research
1974**

Compiled by

Alison K. Kerr



los alamos
scientific laboratory
of the University of California
LOS ALAMOS, NEW MEXICO 87545

An Affirmative Action/Equal Opportunity Employer

MASTER

UNITED STATES
ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
CONTRACT W-7405-ENG-36

**In the interest of prompt distribution, this report was not edited by
the Technical Information staff.**

Printed in the United States of America. Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22151
Price: Printed Copy \$7.60 Microfiche \$2.25

This report was prepared as an account of work sponsored
by the United States Government. Neither the United States
nor the United States Energy Research and Development Ad-
ministration, nor any of their employees, nor any of their con-
tractors, subcontractors, or their employees, makes any
warranty, express or implied, or assumes any legal liability or
responsibility for the accuracy, completeness, or usefulness of
any information, apparatus, product, or process disclosed, or
represents that its use would not infringe privately owned
rights.

NOTICE
 This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration, nor any of their employees, nor any of their contractors, subcontractors, or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

CONTENTS

Introduction	iii
Preface	v
Publications Arranged in Subject Categories	
1. Aerospace Studies	1
2. Analytical Technology	4
3. Astrophysics	6
4. Atomic and Molecular Physics, Equation of State, Opacity	9
5. Biology and Medicine	13
6. Chemical Dynamics and Kinetics	21
7. Chemistry	23
8. Cryogenics	25
9. Crystallography	28
10. CTR and Plasma Studies	30
11. Earth Science and Engineering	39
12. Energy (Nonnuclear)	42
13. Engineering and Equipment	43
14. EPR, ESR, NMR Studies	45
15. Explosives and Detonations	46
16. Fission Physics	47
17. Health and Safety	50
18. Hydrodynamics and Radiation Transport	56
19. Instruments	58
20. Lasers	60
21. Mathematics and Computers	70
22. Medium Energy Physics	71
23. Metallurgy and Ceramics Technology	78
24. Neutronic and Criticality Studies	81
25. Nuclear Physics	82
26. Nuclear Safeguards	91
27. Physics	94
28. Reactor Technology	96
29. Solid State Science	98
30. Miscellaneous (Including Project Rover)	99
Author Index	103
Numerical Index	115
Publication Tabulation	150
Words Excluded from KWIC Index	152
Keyword-in-Context (KWIC) Index	155

INTRODUCTION

The Los Alamos Scientific Laboratory (LASL), which is operated for the U.S. Energy Research and Development Administration by the University of California, was founded in 1943 at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of Northern New Mexico, as part of the wartime Manhattan Project. It had a single assignment—to create the world's first nuclear fission bombs. Success in that task, one of the greatest scientific and technological achievements of all time, was followed by equal success in developing the first thermonuclear weapons. Since 1952 the Laboratory has diversified its programs, and while still serving as one of the nation's two development centers for nuclear weapons, LASL now devotes about one half of its total effort to unclassified research exploring several peaceful applications of nuclear energy, and other forms of energy. The various LASL weapons and nonweapons programs are supported by extensive fundamental research in physics, mathematics, chemistry, metallurgy, biology, medicine, and other fields.

Major non-weapons research activities at Los Alamos include an Energy Division to look especially into new technology to bring to both old energy activities and new energy sources such as solar and geothermal; the Laboratory's involvement, as one of the major participants, in Project Sherwood, the ERDA's program of research in the control of thermonuclear reactions; an accelerator facility, called LAMPF, for medium-energy nuclear physics

research; low-energy and intermediate-energy nuclear physics research using a variety of particle accelerators and neutron sources including underground nuclear explosions; and a program of medical and biological effects of radiation and basic work in molecular and cellular biology. Besides LAMPF, the experimental and test facilities of LASL, many of which are unique, include nuclear reactors, particle accelerators, and a large number of specialized laboratories. Examples are a 25-MeV, 3-stage Van de Graaff particle accelerator; a 27-MeV electron accelerator used to produce a very intense, very short burst of x rays for high-speed flash radiography; and a computing center consisting of two CDC 6600/s, four 7600/s, two CYBER-70/s, and the locally designed and built MANIAC II.

LAMPF is a \$55-million, 800-MeV, 1-mA-beam linear accelerator used to produce beams of protons, mesons, and other nuclear particles with intensities up to 10,000 greater than those available from present machines. Scyllac, an \$8.5-million toroidal theta-pinch device 25 meters in circumference, for producing thermonuclear reactions in deuterium plasmas, has been built and is in operation.

LASL, as of 1974, employed about 5000 people. About one third of the total staff are scientists and engineers. The total operating costs—excluding construction—of the laboratory are about \$148 million per year. The value of the ERDA-owned buildings and equipment at Los Alamos is more than \$400 million.

PREFACE

The Libraries' continuing program of locating, recording, and announcing publications of LASL-sponsored research has resulted in the previous publications: "Selected Bibliography of Publications of LASL Research, 1957-1962," (LAMS-2895 and supplement), and "Publications of LASL Research," for each of the years 1963 through 1973, and a five-year compilation covering the years 1967-1971 (LA-5400-MS). The most recent volume is "Publications of LASL Research 1973 (LA-5777-MS). This bibliography lists unclassified 1974 publications of work done at the Los Alamos Scientific Laboratory and those earlier publications that were received too late for inclusion in earlier compilations. Papers published in 1974 are included regardless of when they were actually written. Declassification of previously classified reports is considered to constitute publication. All classified issuances are omitted—even those papers, themselves unclassified, which were published only as part of a classified document. If a paper was published more than once, all places of publication are included.

The bibliography includes Los Alamos Scientific Laboratory reports, papers released as non-Los Alamos reports, journal articles, books, chapters of books, conference papers whether published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses, and U.S. patents. Publications by LASL authors which are not records of Laboratory-sponsored work are included when the Library becomes aware of them. These publications are indicated by three asterisks following the author's name in place of a group designation.

The arrangement in each bibliographical citation is title first, place(s) of publication indented, then authors, further indented. The *Chemical Abstracts* abbreviation is used for journal citations except for the capitalization. The group designations given after the authors' names indicate the groups with which the authors were associated at the time the papers were written. Group designations have been omitted for early declassified papers. The asterisks at the end of LA-DC and LA-UR entries indicate that the LASL Libraries ordered reprints of the papers. Parenthetical information includes report and reprint numbers, book call numbers, and patent

numbers. The parentheses indicate the information by which Los Alamos borrowers may obtain the material from the LASL Libraries.

The entries are arranged in sections by broad subject categories. Within each section they are alphabetical by title. All types of publications are interfiled.

The author and numerical indexes refer to the item numbers, which consist of a number designating the section, followed by a dash and a number for the alphabetic arrangement of the item within the section. An appendix gives a tabulation of the entries by type of publication.

There is a Keyword-in-Context index, plus a list of words not included in that index.

Most of the reports listed in this publication are available for sale from

National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22151

or on request by government agencies and their contractors for sale from

Technical Information Center
U.S. Energy Research and Development Administration
P.O. Box 62
Oak Ridge, Tennessee 37830.

Reprints of journal articles whose citations are followed by a report number and an asterisk are available as long as the supply lasts from the first author listed. Address requests to him at

Los Alamos Scientific Laboratory
University of California
Post Office Box 1663
Los Alamos, New Mexico 87545

This bibliography has been prepared by the LASL Library Services Group, ISD-4, from the records of the Technical Information Group, ISD-6, from abstracting and indexing journals, and from supplementary library files. Inquiries regarding any of the materials included should be directed to the Serials Unit of the LASL Libraries.

The Libraries gratefully acknowledge the assistance of members of LASL's Technical Information Group in assigning subject categories, and of members of the Computer Division for assistance with the computerized system for handling publication information.

1. AEROSPACE STUDIES

1-1 ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.

SOLAR PHYS., V.37, P.451-67, 1974.

(LA-UR-74-217)*

ASBRIDGE, JOHN R. (P-4)

BAME, SAMUEL J., JR. (P-4)

FELDMAN, WILLIAM C. (P-4)

1-2 AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 ANGSTROMS AND 5577 ANGSTROMS.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.1152, 1974.

PONGRATZ, MORRIS B.

WOLCOTT, JOHN H. (J-16)

KEADY, CHARLES J.

SIMONS, DAVID J.

1-3 ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.

J. GEOPHYS. RES., V.79, P.535-47,

1974. (LA-UR-73-1251)*

NISHIDA, A.

HONES, EDWARD W., JR. (P-4)

1-4 BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.387, 1974.

PALMER, IAN D. (P-4)

SINGER, SIDNEY (P-4)

1-5 BOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.

J. GEOPHYS. RES., V.79, P.2773-81, 1974.

(LA-UR-73-1554)*

FELDMAN, WILLIAM C. (P-4)

ASBRIDGE, JOHN R. (P-4)

BAME, SAMUEL J., JR. (P-4)

1-6 CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.1176-7, 1974.

WOLCOTT, JOHN H. (J-16)

PETERSON, ROBERT W. (J-16)

HONES, EDWARD W., JR. (P-4)

PONGRATZ, MORRIS B.

1-7 ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.1167, 1974.

HONES, EDWARD W., JR. (P-4)

PALMER, IAN D. (P-4)

1-8 EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AURORAL SPIRAL.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.391, 1974.

NIELSEN, HANS C. S.

WESCOTT, EUGENE M.

DAVIS, T. NEIL

BOTTOMS, PAUL J. (J-10)

PEEK, H. MILTON (J-10)

1-9 FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.1170, 1974.

WESCOTT, EUGENE M.

KAN, J. R.

NIELSEN, HANS C. S.

PEEK, H. MILTON (J-10)

1-10 HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND.

ABSTRACT PUBLISHED IN:

EOS, V.55, P.1130-1, 1974.

ASBRIDGE, JOHN R. (P-4)

BAME, SAMUEL J., JR. (P-4)

FELDMAN, WILLIAM C. (P-4)

MONTGOMERY, MICHAEL D. (P-4)

1-11 HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS.

J. GEOPHYS. RES., V.79, P.934-8, 1974.

(LA-UR-73-906)*

HIRSHBERG, JOAN

ASBRIDGE, JOHN R. (P-4)

ROBBINS, DONALD E.

1-12 INTERPENETRATING SOLAR WIND STREAMS. REV. GEOPHYS. SPACE PHYS., V.12,

P.715-23, 1974. (LA-UR-74-577)*

FELDMAN, WILLIAM C. (P-4)

ASBRIDGE, JOHN R. (P-4)

BAME, SAMUEL J., JR. (P-4)

MONTGOMERY, MICHAEL D. (P-4)

1-13
 INTERPENETRATING SOLAR WIND STREAMS.
 ABSTRACT PUBLISHED IN:
 SOLAR WIND, 1974, 3RD CONFERENCE,
 PACIFIC GROVE, CA, PROC., P.179.
 UCLA INSTITUTE OF GEOPHYSICS AND
 PLANETARY PHYSICS, 1974.
 (523C74880 1974)
 FELDMAN, WILLIAM C. (P-4)
 ASBRIDGE, JOHN R. (P-4)
 BAME, SAMUEL J., JR. (P-4)
 MONTGOMERY, MICHAEL D. (P-4)

1-14
 INTERPLANETARY HEAT CONDUCTION: IMP-7
 RESULTS.
 SOLAR WIND, 1974, 3RD CONFERENCE,
 PACIFIC GROVE, CA, PROC., P.334-32.
 UCLA INSTITUTE OF GEOPHYSICS AND
 PLANETARY PHYSICS, 1974.
 (523C74880 1974)
 FELDMAN, WILLIAM C. (P-4)
 MONTGOMERY, MICHAEL D. (P-4)
 ASBRIDGE, JOHN R. (P-4)
 BAME, SAMUEL J., JR. (P-4)
 LEWIS, H. RALPH, JR. (CTR-6)

1-15
 1-14 CONJUGATE MAGNETIC FIELD LINE
 TRACING EXPERIMENTS WITH BARIUM SHAPED
 CHARGES.
 J. GEOPHYS. RES., V.79, P.159-68, 1974.
 WESCOTT, EUGENE M.
 RIEGER, E. R.
 NIELSEN, HANS C. S.
 DAVIS, T. NEIL
 PEEK, H. MILTON (J-10)
 BOTTOMS, PAUL J. (J-10)

1-16
 LUNAR ELEMENTAL ANALYSIS UTILIZING THE
 APOLLO GAMMA RAY REMOTE SENSING SYSTEM.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.327, 1974.
 TROMBKA, JACOB L.
 METZGER, ALBERT E.
 ARNOLD, JAMES R.
 REEDY, ROBERT C. (CNC-11)
 BIELEFELD, M. J.

1-17
 MAGNETOTAIL'S SURFACE LAYER AND THE
 CLEFT.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.67, 1974.
 HONES, EDWARD W., JR. (P-4)

1-18
 MARINER 10 PLASMA SCIENCE EXPERIMENT
 RESULTS.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.340, 1974.
 ASBRIDGE, JOHN R. (P-4)
 BAME, SAMUEL J., JR. (P-4)
 BRIDGE, H. S.
 LAZARUS, A.
 OGLYIE, KEITH W.
 SCUDDER, J. D.

1-19
 MONTE CARLO STUDIES OF THE SKY RADIATION
 AT TWILIGHT.
 APPL. OPTICS, V.13, P.534-47, 1974.
 (LA-UR-73-923)*
 BLATTNER, WOLFIAM G.
 HORAK, HENRY G. (J-10)
 COLLINS, DAVID G.
 WELLS, MICHAEL B.

1-20
 MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS
 IN A TIME DEPENDENT ELECTRIC FIELD MODEL.
 J. GEOPHYS. RES., V.79, P.1432-8,
 1974. (LA-UR-73-1470)*
 ROEDERER, JUAN G. (P-4)
 HONES, EDWARD W., JR. (P-4)

1-21
 NEAR-SIMULTANEOUS MEASUREMENT OF LOW
 ENERGY ELECTRONS BY SOUNDING ROCKET AND
 SATELLITE.
 J. GEOPHYS. RES., V.79, P.4322-5,
 1974. (LA-UR-74-535)*
 REARWIN, STEPHEN
 HONES, EDWARD W., JR. (P-4)

1-22
 OBSERVATIONS OF THE DEVELOPMENT OF
 STRIATIONS IN LARGE BARIUM ION CLOUDS.
 PLANETARY SPACE SCI., V.22, P.67-78,
 1974.
 DAVIS, T. NEIL
 ROMICK, GERALD J.
 WESCOTT, EUGENE M.
 JEFFRIES, ROBERT A. (J-10)
 KERR, DONALD M., JR. (J-10)
 PEEK, H. MILTON (J-10)

1-23
 OBSERVATIONS OF THE MAGNETOTAIL SURFACE
 LAYER WITH THE VELA SATELLITES.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.982, 1974.
 HONES, EDWARD W., JR. (P-4)

1-24
 OBSERVED ANOMALOUS BEHAVIOR OF HIGH
 LATITUDE BARIUM PLASMA JET.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.392, 1974.
 WESCOTT, EUGENE M.
 NIELSEN, HANS C. S.
 DAVIS, T. NEIL
 MURRAY, WALLACE B.
 PEEK, H. MILTON (J-10)
 BOTTOMS, PAUL J. (J-10)

1-25
 PAYLOAD PERFORMANCE OF SHAPED CHARGE
 BARIUM RELEASES.
 ABSTRACT PUBLISHED IN:
 EOS, V.55, P.367, 1974.
 WRIGHT, DONALD
 BROSTE, WILLIAM B.
 EASTMAN, TIMOTHY E.
 PEEK, H. MILTON (J-10)

- 1-26
PLASMA AND ENERGETIC PARTICLES IN THE
MAGNETOTAIL AT 60 EARTH RADII.
J. GEOPHYS. RES., V.79, P.4779-85,
1974.
CHASE, L. M.
MC GUIRE, R. E.
LIN, R. P.
ANDERSON, K. A.
MC COY, J. E.
HONES, EDWARD W., JR. (P-4)
- 1-27
POSSIBLE ALFVEN WAVE GENERATION MECHANISM
IN INTERPLANETARY SPACE.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.1181, 1974.
MONTGOMERY, MICHAEL D. (P-4)
FORSUND, DAVID W. (P-4)
FELDMAN, WILLIAM C. (P-4)
GARY, S. PETER (P-4)
- 1-28
PROLONGED TAILWARD FLOW OF PLASMA IN THE
THINNED PLASMA SHEET OBSERVED AT R EQUALS
APPROXIMATELY 18 EARTH RADII DURING
SUBSTORMS.
J. GEOPHYS. RES., V.79, P.1485-92,
1974. (LA-UR-73-1288)*
HONES, EDWARD W., JR. (P-4)
LUI, ANTHONY T. Y.
BAME, SAMUEL J., JR. (P-4)
SINGER, SIDNEY (P-4)
- 1-29
SOLAR WIND ELECTRON TEMPERATURE
DEPRESSIONS FOLLOWING SOME INTERPLANETARY
SHOCK WAVES: EVIDENCE FOR MAGNETIC
MERGING?
J. GEOPHYS. RES., V.79, P.3103-10,
1974. (LA-UR-73-1634)*
MONTGOMERY, MICHAEL D. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
FELDMAN, WILLIAM C. (P-4)
- 1-30
SOLAR WIND ELECTRON VARIATIONS IN HIGH
SPEED STREAMS.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.411, 1974.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
MONTGOMERY, MICHAEL D. (P-4)
- 1-31
SOLAR WIND ELECTROSTATIC POLARIZATION
POTENTIAL AT 1 AU.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.1180, 1974.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
GARY, S. PETER (P-4)
MONTGOMERY, MICHAEL D. (P-4)
- 1-32
SOLAR WIND HEAVY ION ABUNDANCES.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.410, 1974.
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELDMAN, WILLIAM C. (P-4)
KEARNEY, PHILIP D. (P-4)
MONTGOMERY, MICHAEL D. (P-4)
- 1-33
SOLAR WIND HELIUM(2+) TO HYDROGEN(+)
TEMPERATURE RATIO.
J. GEOPHYS. RES., V.79, P.2319-23,
1974. (LA-UR-73-1697)*
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
- 1-34
UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS
THAN 1 MEV SOLAR PROTONS OBSERVED IN THE
MAGNETOSHEATH.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.1167, 1974.
HIGBIE, PAUL R. (P-4)
PALMER, IAN D. (P-4)
HONES, EDWARD W., JR. (P-4)
- 1-35
UPPER LIMITS FOR THE SOLAR WIND HELIUM
CONTENT AT 1 AU.
J. GEOPHYS. RES., V.79, P.1808-12, 1974.
(LA-UR-73-1520)*
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
KEARNEY, PHILIP D. (P-4)
- 1-36
VELA AND IMP PLASMA FLOW OBSERVATIONS.
ABSTRACT PUBLISHED IN:
EOS, V.55, P.996-7, 1974.
HONES, EDWARD W., JR. (P-4)

2. ANALYTICAL TECHNOLOGY

- 2-1
ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.
LASL, 1974, 12P. (LA-5696-SR)
WATERBURY, GLENN R. (CMB-1) COMP.
- 2-2
CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL - HYDROCHLORIC ACID.
LASL, 1974, 7P. (LA-5728)
MARSH, SINCLAIR F. (CMB-1)
ORTIZ, M. ROMAYNE (CMB-1)
REIN, JAMES E. (CMB-1)
- 2-3
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.
LASL, 1974, 10P. (LA-5497)
MAC DOUGALL, CAROLYN SUE (CMB-1)
MARSHALL, THOMAS K. (CMB-1)
MATLACK, GEORGE M. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
- 2-4
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.
TIC, 1974, 30P. MN (LA-UR-74-845)
BUBERNAK, JOSEPH (CMB-1)
MATLACK, GEORGE M. (CMB-1)
- 2-5
DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.
LASL, 1974, 5P. (LA-5539)
GARDNER, ROSS D. (CMB-1)
HENICKSMAN, ARTHUR L. (CMB-1)
ASHLEY, WILLIAM H. (CMB-1)
- 2-6
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.
LASL, 1974, 7P. (LA-5429)
HUES, ALVIN D. (CMB-1)
HENICKSMAN, ARTHUR L. (CMB-1)
ASHLEY, WILLIAM H. (CMB-1)
- 2-7
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.
TIC, 1974, 22P. MN (LA-UR-74-356)
MARTELL, CALVIN J. (CMB-1)
- 2-8
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.
LASL, 1974, 6P. (LA-5454)
MARTELL, CALVIN J. (CMB-1)
- 2-9
FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS
LASL, 1974, 6P. (LA-5791)
COX, LAWRENCE E. (CMB-1)
- 2-10
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.
LASL, 1974, 7P. (LA-5568)
MARSH, SINCLAIR F. (CMB-1)
ORTIZ, M. ROMAYNE (CMB-1)
ABERNATHEY, ROBERT M. (CMB-1)
REIN, JAMES E. (CMB-1)
- 2-11
MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.
LASL, 1974, 3P. (LA-5489)
SMITH, MAYNARD E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
- 2-12
MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.
LASL, 1952, DECLASSIFIED 1967, 55P. (LA-1354)
REINSCHREIBER, JAMES E., JR. (CMB-1)
- 2-13
PORTABLE FLASH X RAY SYSTEMS: TECHNIQUES AND APPLICATIONS.
LASL, 1974, 16P. (LA-5756-MS)
BRYANT, LAWRENCE E., JR. (CMB-1)
- 2-14
PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.
LASL, 1974, 15P. (LA-5627)
SWANSON, GERALD C. (CMB-1)
REIN, JAMES E. (CMB-1)
MARSH, SINCLAIR F. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

- 7-15
SEALED TUBE DISSOLUTION METHOD FOR
DETERMINATION OF NITRIDE NITROGEN IN
BORON CARBIDE
LAST, 1971, 6P, (LA-3672)
PERBIN, RICHARD E. (CMR-D)
ZERWENH, AL. (CMR-D)
ASHLEY, WILLIAM H. (CMR-D)
- 7-16
SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM
IN PLUTONIUM DIOXIDE
LAST, 1971, 4P, (LA-3690)
KOSKI, NANCY L. (CMR-D)
GARDNER, ROSS D. (CMR-D)
WATKINS, GLENN R. (CMR-D)
- 7-17
USE OF HYDRAZINE TO INCREASE THE SPEED
AND CONTRAST OF INDIUM RADIOPHOTOGRAPHIC
FILM
PHOTOGR. SCI. ENCL. V. 18, P. 11, 12
1971, (LA-36880)
MEANS, JAMES P. (CMR-D)
SANDOVAL, ETIENNE M. (CMR-D)
- 7-18
X-RAY SPECTROGRAPHIC DETERMINATION OF
BDDIUM IN LITHIUM HYDRIDE OR LITHIUM
DEUTERIDE
LAST, 1971, 4P, (LA-3660)
HANSSEL, JAMES M. (CMR-D)
HAMMILL, E. ARNOLD (CMR-D)

3. ASTROPHYSICS

- 3-1
ABSOLUTE INTENSITIES AND POLARIZATION OF
THE OUTER CORONA FROM THE JUNE 30, 1973
TOTAL SOLAR ECLIPSE.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.346.
1974.
KELLER, CHARLES F. (J-15)
TABOR, JAMES E. (J-15)
- 3-2
COLLISION OF A FAST SHOCK WITH AN
INTERSTELLAR CLOUD: A MODEL FOR CAS-A.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.5, P.434.
1973.
SGRO, ANTHONY G. (TD-1)
- 3-3
CORONAL LINE PROFILE STUDY ABOARD THE
FRENCH CONCORDE.
SOLAR ECLIPSE 1973 BULLETIN, NO.4.
P.41-6. GPO, 1974. (523:N277SO 1973)
LIEBENBERG, DONALD H. (L-DOT)
HOFFMAN, MARVIN M. (J-12)
- 3-4
COSMIC GAMMA RAY BURSTS: A REVIEW OF THE
OBSERVATIONAL DATA.
TIC, 1974. 38P. MN (LA-UR-74-833)
STRONG, IAN B. (P-4)
- 3-5
DETECTION OF HYDROGEN CYANIDE IN COMET
KOHOUTEK (1973F).
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.389.
1974.
SNYDER, LEWIS E.
BUHL, D.
HUEBNER, WALTER F. (T-4)
- 3-6
DEVELOPMENT OF THE OSO-6 HIGH ENERGY
NEUTRON DETECTOR AND CORRELATION OF
MEASURED SOLAR NEUTRON FLUXES TO SOLAR
FLARES.
THESIS, UNIV. OF NEW MEXICO, 1973.
LASL, 1974. 167P. (LA-5487-T)
YOUNG, FREDERICK (L-4)
- 3-7
DISTANCES TO THE SOURCES OF OBSERVED
COSMIC GAMMA RAY BURSTS.
NATURE, V.251, P.396-7. 1974.
(LA-UR-74-797)*
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)
- 3-8
ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL
GAMMA RAY MEASUREMENTS.
LUNAR SCIENCE, 1974. 5TH CONFERENCE.
HOUSTON, PROC., V.2, P.1067-78.
PERGAMON, 1974. (GEOCHIM. COSMOCHIM.
ACTA, SUPPL.5, V.2. 1974.)
(523:L961S 5TH V.2)
METZGER, ALBERT E.
TROMBKA, JACOB I.
REEDY, ROBERT C. (CNC-11)
ARNOLD, JAMES R.
- 3-9
EVIDENCE FOR A GALACTIC ORIGIN OF
TRANSIENT GAMMA RAY BURSTS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.270.
1974.
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)
- 3-10
FORMATION OF PARHELIA AT HIGHER SOLAR
ELEVATIONS.
J. ATMOS. SCI., V.31, P.1876-84. 1974.
(LA-UR-73-1601)*
MC DOWELL, ROBIN S. (CNC-4)
- 3-11
FUTURE SATELLITE EXPERIMENTS FOR GAMMA
BURST OBSERVATIONS.
TIC, 1974. 23P. MN (LA-UR-74-868)
EVANS, W. DOYLE (P-4)
- 3-12
HYDROGEN CYANIDE RADIO EMISSION FROM
COMET KOHOUTEK (1973F).
ICARUS, V.23, P.580-4. 1974.
(LA-UR-74-865)*
HUEBNER, WALTER F. (T-4)
SNYDER, LEWIS E.
BUHL, D.
- 3-13
LASER - PLASMA SPECTRA OF HIGHLY IONIZED
FLUORINE.
ASTROPHYS. J., V.187, P.417-20. 1974.
FELDMAN, U.
DOSCHEK, G. A.
NAGEL, D. J.
BEHRING, W. E.
COWAN, ROBERT D. (T-4)

- 3-14
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.
IASL, 1974, 10P. (LA-5590-MS)
RADZIEMSKI, LEON J., JR. (CMB-1)
- 3-15
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.293, 1974.
RADZIEMSKI, LEON J., JR. (CMB-1)
LILLIEQUIST, CARL
- 3-16
NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.168, PAPER NO. NUCL-21, 1974.
REEDY, ROBERT C. (CNC-11)
- 3-17
OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.
SCIENCE, V.185, P.145-51, 1974.
OGILVIE, KEITH W.
SCUDDER, J. D.
HARTLE, R. E.
SISCOE, G. L.
BRIDGE, H. S.
LAZARUS, A.
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
YEATES, C. M.
- 3-18
OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.
SCIENCE, V.183, P.1293-6, 1974.
BRIDGE, H. S.
LAZARUS, A.
SCUDDER, J. D.
OGILVIE, KEITH W.
HARTLE, R. E.
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
FELDMAN, WILLIAM C. (P-4)
SISCOE, G. L.
- 3-19
OBSERVATIONS OF COSMIC GAMMA RAY BURSTS.
1. ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.587, 1974.
KLEBESADEL, RAY W. (P-4)
- 3-20
OBSERVATORY REPORT.
BULL. AM. ASTRON. SOC., V.6, P.398-406, 1974. (LA-UR-74-590)*
JONES, ERIC M. (J-10)
STRONG, IAN B. (P-4)
- 3-21
POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.289-90, 1974.
KELLER, CHARLES F. (J-15)
TABOR, JAMES E. (J-15)
- 3-22
POST-NEWTONIAN NEUTRON STARS.
ASTROPHYS. J., V.189, P.L75-8, 1974.
(LA-UR-74-364)*
WAGONER, ROBERT V.
MALONE, ROBERT C. (T-6)
- 3-23
PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.
ASTROPHYS. J., V.188, P.L1-3, 1974.
(LA-UR-73-1764)
STRONG, IAN B. (P-4)
KLEBESADEL, RAY W. (P-4)
OLSON, ROY A. (P-4)
- 3-24
PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.
ASTROPHYS. J., V.191, P.207-9, 1974.
(LA-UR-73-828)*
JONES, ERIC M. (J-10)
- 3-25
QUASI-STELLAR DIAMETERS AND INTENSITY FLUCTUATIONS.
SCIENCE, V.145, P.918-9, 1964.
ALSO PUBLISHED IN:
REDSHIFT CONTROVERSY, G. B. FIELD, H. ARP, AND J. N. BAHCALL, EDS., P.227-8, W. A. BENJAMIN, 1973. (523:F453R)
TERRELL, JAMES (P-DOR)
- 3-26
QUIET CORONA: TEMPERATURE AND TEMPERATURE GRADIENT.
SOLAR PHYS., V.35, P.137-52, 1974.
(LA-UR-73-1533)*
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELDMAN, WILLIAM C. (P-4)
KEARNEY, PHILIP D. (P-4)
- 3-27
RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.
AKAD. NAUK SSSR, ASTRON. SOVET. NAUCH. INFORM., NO.15, P.3-103, 1969.
COX, ARTHUR N. (J-15)
STEWART, JOHN N., JR. (J-15)
- 3-28
RELATIVISTIC TERMS IN NONLINEAR PULSATION THEORY.
ASTROPHYS. J., V.187, P.175-7, 1974.
(LA-UR-73-114)*
DAVIS, CECIL G. (J-15)

3-29

REVIEW OF COSMIC GAMMA RAY AND X RAY
BURSTS.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,

P.40-1, 1974.

STRONG, IAN B. (P-4)

3-30

SPECTRA MEASUREMENTS OF A COSMIC GAMMA
RAY BURST WITH FAST TIME RESOLUTION.

ASTROPHYS. J., V.191, P.17-10, 1974.

IMHOF, W. L.

NAKANO, G. H.

JOHNSON, R. G.

KILNER, J. R.

REAGAN, J. B.

KLEBESADEL, RAY W. (P-4)

STRONG, IAN B. (P-4)

3-31

SPECTRA MEASUREMENTS OF A COSMIC GAMMA
RAY BURST WITH FAST TIME RESOLUTION.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,

P.43-2, 1974.

IMHOF, W. L.

NAKANO, G. H.

JOHNSON, R. G.

KILNER, J. R.

REAGAN, J. B.

KLEBESADEL, RAY W. (P-4)

STRONG, IAN B. (P-4)

3-32

TEMPORAL OBSERVATIONS OF THE LAMBDA 5303
EMISSION LINE PROFILE DURING THE 74
MINUTE TOTALITY FROM THE CONCORDE SST AT
THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE:
PRELIMINARY INTENSITY VARIATIONS ABOVE AN
ACTIVE REGION.

TIC, 1974, 9P. MN (LA-UR-73-1303)

LIEBENBERG, DONALD H. (L-DOT)

HOFFMAN, MARVIN M. (J-12)

3-33

THEORETICAL AND EXPERIMENTAL STUDY OF
IRON(XIX) TO IRON(XXIV) SOLAR FLARE
SPECTRA AND ISOELECTRONIC SPECTRA IN
SULPHUR.

ASTROPHYS. J., V.187, P.377-83, 1974.

FAWCETT, BRIAN C.

HAYES, R. W.

COWAN, ROBERT D. (T-4)

3-34

TITUS-BODE LAW AND THE POSSIBILITY OF
RECENT LARGE SCALE EVOLUTION IN THE SOLAR
SYSTEM.

TIC, 1974, 10P. MN (LA-UR-74-919)

NIETO, MICHAEL MARTIN (T-5)

3-35

TRANSIENT COSMIC GAMMA AND X RAY
SOURCES, 1973, CONFERENCE, LOS ALAMOS,
NM, PROCEEDINGS.

LASL, 1974, 311P. (LA-5505-C)

STRONG, IAN B. (P-4) COMP.

3-36

TYPE II SOLAR RADIO BURST OBSERVED IN THE
CORONA AND IN INTERPLANETARY SPACE.

SOLAR PHYS., V.37, P.443-9, 1974.

(LA-UR-73-1557)*

PALMER, IAN D. (P-4)

3-37

UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY
FORMATION BASED ON EXPLOSIVE
FRAGMENTATION.

LASL, 1974, 17P. (LA-5364)

BROWN, WILBUR K. (TD-7)

4. ATOMIC AND MOLECULAR PHYSICS, EQUATION OF STATE, OPACITY

- 4-1
4P(6)D - 4P(5)D5S TRANSITIONS IN
RUTHENIUM, RHODIUM, AND PALLADIUM.
J. PHYS. B, V.7, P.1152-7, 1974.
EVEN-ZOHAR, M.
FRAENKEL, B. S.
COWAN, ROBERT D. (T-4)
- 4-2
AB INITIO POTENTIAL CURVES FOR THE NEON:
C8S) - NEON INTERACTION WITH
SEMIEMPIRICAL TREATMENT OF SPIN ORBIT
COUPLING.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.152, 1974.
COHEN, JAMES S. (TD-8)
SCHNEIDER, BARRY (T-6)
- 4-3
ALGEBRA OF LEVEL SPLITTING.
PHYS. REV., V.A9, P.2273-81, 1974.
(LA-UR-73-1874)*
LOUCK, JAMES D. (T-9)
- 4-4
APPROXIMATE ESTIMATE OF THE FORM OF
MOLECULAR VIBRATIONS.
J. MOL. SPECTRY., V.52, P.166, 1974.
(LA-UR-73-1782)*
MC DOWELL, ROBIN S. (CNC-4)
- 4-5
BETHE-SALPETER EQUATION: NUMERICAL
EXPERIENCE WITH A HYDROGENLIKE ATOM.
TIC, 1974, 24P. MN (LA-UR-74-766)
GAMMEL, JOHN L. (T-9)
MENZEL, MARY T. (T-9)
- 4-6
COHERENT AND INCOHERENT X RAY SCATTERING
BY BOUND ELECTRONS. 3. FIVE ELECTRON
ATOMS.
PHYS. REV., V.A16, P.438-9, 1974.
(LA-UR-73-1116)*
BROWN, ROBERT T. (J-15)
- 4-7
COMPUTED ENERGY GAP IN KRYPTON.
INT. J. QUANTUM CHEM., V.8, P.451-5,
1974.
BORING, A. MICHAEL (J-10)
- 4-8
DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE
CYANOGEN VIOLET SYSTEM OBSERVED DURING
THE FLASH PHOTOLYSIS OF BROMINE CYANIDE.
J. MOL. SPECTRY., V.49, P.106-16,
1974. (LA-UR-73-818)*
ENGLEMAN, ROLF, JR. (CMB-1)
- 4-9
DESIGN CONSIDERATIONS FOR A HIGH
PRESSURE, EQUATION OF STATE EXPERIMENT.
LASL, 1974, 16P. (LA-5615-MS)
RAGAN, CHARLES E. (P-3)
- 4-10
EFFECT OF CONTINUUM CONFIGURATION
INTERACTION ON THE POSITION OF SP(6) IN
NEUTRAL CHLORINE AND OTHER HALOGENS.
J. OPT. SOC. AM., V.64, P.1474-8,
1974. (LA-UR-74-717)*
COWAN, ROBERT D. (T-4)
RADZIEMSKI, LEON J., JR. (CMB-1)
KAUFMAN, VICTOR
- 4-11
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY
CHARGED RARE GAS IONS AND RARE GAS ATOMS
FOR PRIMAR^Y ION ENERGIES BELOW 100 EV.
J. CHEM. PHYS., V.60, P.3588-98, 1974.
(LA-UR-73-1361)*
MAIER, WILLIAM B., II (L-3)
- 4-12
ELECTRONIC CONFIGURATION IN THE GROUND
STATE OF ATOMIC LAWRENCIUM.
PHYS. REV., V.A9, P.2270-2, 1974.
NUGENT, L. J.
VANDER SLUIS, K. L.
FRICKE, BURKHARD
MANN, JOSEPH B., JR. (T-4)
- 4-13
ELECTRONIC STRUCTURE AND OPTICAL
PROPERTIES OF SOME FIRST ROW TRANSITION
METAL OXYHALIDES.
THESIS, UNIV. OF WYOMING, 1974.
LASL, 1974, 192P. (LA-5637-T)
JASINSKI, JERRY P. (CNC-4)

- 4-11
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.168, PAPER NO. INOR-124, 1974.
JASINSKI, JERRY P. (CNC-4)
WOOD, JOHN H. (CMB-5)
ASPREY, LARNED B. (CNC-1)
HOLT, SMITH L.
- 4-15
ELECTRONIC STRUCTURE OF URANIUM HEXAFLUORIDE.
J. CHEM. PHYS., V.61, P.3800-3, 1974. (LA-UR-74-1025)*
BORING, A. MICHAEL (J-10)
WOOD, JOHN H. (CMB-5)
MOSKOWITZ, J. W.
- 4-16
EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE.
TIC, 19.4, 24P. MN (LA-UR-74-1173)
BARNES, JOHN F. (T-4)
- 4-17
EXCITATION TRANSFER IN NEON + NEON* COLLISIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.152, 1974.
SCHNEIDER, BARRY (T-6)
COHEN, JAMES S. (TD-8)
- 4-18
EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.
TIC, 1974, 19P. MN (LA-UR-74-27)
ALSO PUBLISHED IN:
INT. J. QUANTUM CHEM., V.8, P.209-17, 1974.
ENGELKE, SANDRA Z. (P-4)
- 4-19
FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES.
J. MOL. SPECTRY., V.49, P.82-90, 1974. (LA-UR-73-749)*
JONES, LLEWELLYN H. (CNC-4)
- 4-20
FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.
CHEM. PHYS. LETTERS, V.25, P.111-3, 1974. (LA-UR-73-1584)*
SNOW, EDWARD C. (CMB-5)
WOOD, JOHN H. (CMB-5)
- 4-21
GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.
INORG. CHEM., V.13, P.2366-70, 1974. (LA-UR-74-197)*
PAINE, ROBERT T., JR. (CNC-4)
MC DOWELL, ROBIN S. (CNC-4)
- 4-22
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.
J. CHEM. PHYS., V.61, P.3230-9, 1974. (LA-UR-74-526)*
COHEN, JAMES S. (T-6)
SCHNEIDER, BARRY (T-6)
- 4-23
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.
J. CHEM. PHYS., V.61, P.3240-3, 1974. (LA-UR-74-527)*
SCHNEIDER, BARRY (T-6)
COHEN, JAMES S. (T-6)
- 4-24
HUGONIOT EQUATION OF STATE OF BERYLLIUM OXIDE.
HIGH TEMP. HIGH PRESSURES, V.5, P.503-8, 1973. (LA-UR-73-485)*
MARSH, STANLEY P. (M-6)
- 4-25
HUGONIOT EQUATIONS OF STATE OF LITHIUM - HYDROGEN -6, LITHIUM -DEUTERIUM -6, LITHIUM - HYDROGEN -N, AND LITHIUM - DEUTERIUM -N.
LASL, 1972, DECLASSIFIED 1974, 29P. (LA-4942)
MARSH, STANLEY P. (GMX-6)
- 4-26
INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.
CHEM. PHYS. LETTERS, V.27, P.577-9, 1974. (LA-UR-74-538)*
SCHNEIDER, BARRY (T-6)
BORING, A. MICHAEL (J-10)
COHEN, JAMES S. (T-6)
- 4-27
INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA.
COORDINATION CHEMISTRY, 1970, 13TH INTERNATIONAL CONFERENCE, CRACOW-ZAKOPANE, SECTION LECTURES, NOVEL IN COORDINATION CHEMISTRY, P.65-74, POLISH ACADEMY OF SCIENCES, 1974. (541:C778C 13TH)
JONES, LLEWELLYN H. (CMF-4)
- 4-28
INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.
J. CHEM. PHYS., V.60, P.4872-9, 1974. (LA-UR-73-1408)*
HECHT, HARRY G. (CNC-2)
GRUBER, JOHN B. (CNC-2)
- 4-29
KINETICS FOR POPULATION INVERSION ON THE 557.7 NM 0(1S) TO 0(1D) TRANSITION IN ATOMIC OXYGEN.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.153, 1974.
JUDD, O'DEAN P. (T-6)
ROCKWOOD, STEPHEN D. (T-6)

- 4-30
LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.
J. PHYS. CHEM. SOLIDS, V.35, P.1393-404, 1974. (LA-DC-72-1244)*
DEMAREST, HAROLD H. JR. (M-6)
- 4-31
LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.165, 1974.
MAIER, WILLIAM B., II (L-3)
HOLLAND, REDUS F. (L-3)
- 4-32
LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE.
J. CHEM. PHYS., V.60, P.1352-4, 1974. (LA-UR-73-1574)*
GRUBER, JOHN B. (CNC-2)
HECHT, HARRY G. (CNC-2)
- 4-33
MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.
LASL, 1974, 6P. (LA-5698-MS)
BENNETT, ELBERT W. (J-14)
- 4-34
MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.
J. CHEM. PHYS., V.61, P.2372-82, 1974. (LA-UR-74-522)*
COHEN, JAMES S. (T-6)
PACK, RUSSELL T. (T-6)
- 4-35
NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.1231, 1974.
CARTWRIGHT, DAVID C.
DUNNING, THOMAS H. JR. (T-6)
- 4-36
NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.
SPECTROSC. LETTERS, V.7, P.547-50, 1974.
ENGLEMAN, ROLE JR. (CMB-1)
- 4-37
NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.
COMPUTER PHYS. COMMUN., V.7, P.73-84, 1974. (LA-UR-73-212)*
WOOD, JOHN H. (CMB-5)
BORING, A. MICHAEL (CMB-5)
- 4-38
NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.
J. CHEM. PHYS., V.60, P.2900-6, 1974. (LA-DC-72-1561)*
JONES, WESLEY M. (CMB-11)
DEVER, DAVID F. (CMB-11)
- 4-39
PHYSICAL EXAMPLE OF THE BIEDENHARN-GAMBA THEORY OF LEVEL SPLITTINGS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.83, 1974.
LOUCK, JAMES D. (T-9)
- 4-40
POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.
INORG. CHEM., V.13, P.2816-9, 1974. (LA-UR-74-439)*
KUBAS, GREGORY J. (CNC-4)
JONES, LLEWELLYN H. (CNC-4)
- 4-41
POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.
RADIATION RES., V.59, P.363-6, 1974. (LA-UR-74-135)*
SCHNEIDER, BARRY (T-6)
COHEN, JAMES S. (T-6)
- 4-42
QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.
SPECTROCHIM. ACTA, V.30A, P.1271-4, 1974. (LA-UR-73-703)*
MC DOWELL, ROBIN S. (CNC-4)
- 4-43
REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.
J. CHEM. PHYS., V.61, P.3459-70, 1974. (LA-UR-74-862)*
MAIER, WILLIAM B., II (L-3)
- 4-44
SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.1231, 1974.
COHEN, JAMES S. (T-6)
- 4-45
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.
INORG. CHEM., V.13, P.313-6, 1974. (LA-UR-73-461)*
SWANSON, BASIL I. (CNC-4)
JONES, LLEWELLYN H. (CNC-4)

- 4-46
SPACE FIXED VS BODY FIXED AXES IN ATOM - DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.
J. CHEM. PHYS., V.60, P.633-9, 1974.
(LA-UR-73-1260)*
PACK, RUSSELL T. (T-6)
- 4-47
STABILIZATION OF SOLUTION OF THE HARTREE-FOCK EQUATIONS.
J. COMPUTAT. PHYS., V.16, P.160-6, 1974. (LA-UR-74-102)*
COWAN, ROBERT D. (T-4)
MANN, JOSEPH B., JR. (T-4)
- 4-48
STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA. EXPLORATION OF THE PLANETARY SYSTEM. 1973. IAU SYMPOSIUM NO. 65, TORUN. PROC., P.13-20. REIDEL, 1974.
(520:IN61S 65) (LA-UR-73-827)*
HUEBNER, WALTER F. (T-4)
FULLERTON, L. WAYNE (C-4)
- 4-49
THEORETICAL CALCULATION OF ATOMIC SPIN - ORBIT PARAMETERS.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.1370, 1974.
COWAN, ROBERT D. (T-4)
GRIFFIN, DONALD C.
- 4-50
THEORY OF ELECTRON CORRELATION IN METALS. PHYS. REV., V.B10 P.1255-65, 1974.
(LA-UR-74-270)*
KERLEY, GERALD I. (T-4)
- 4-51
THEORY OF ELECTRON INTERACTION IN METALS. ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.299, 1974.
KERLEY, GERALD I. (T-4)
- 4-52
THOMAS-FERMI CALCULATION OF POTENTIAL BETWEEN ATOMS.
LASL, 1974, 4P. (LA-5694-MS)
LEE, CLARENCE E. (TD-1)
LONGMIRE, CONRAD L.
ROSENBLUTH, MARSHALL N.
- 4-53
TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.
J. OPT. SOC. AM., V.64, P.1058-62, 1974.
BURKHALTER, P. G.
FELDMAN, U.
COWAN, ROBERT D. (T-4)
- 4-54
USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.
CHEM. PHYS. LETTERS, V.25, P.140-2, 1974. (LA-UR-73-1716)*
SCHNEIDER, BARRY (T-6)
- 4-55
VAN DER WAALS INTERACTIONS OF CARBON DIOXIDE.
J. CHEM. PHYS., V.61, P.2091-4, 1974.
(LA-UR-74-653)*
PACK, RUSSELL T. (T-6)
- 4-56
VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.
J. CHEM. PHYS., V.61, P.4650-5, 1974.
(LA-UR-74-1186)*
JONES, LLEWELLYN H. (CNC-4)
SWANSON, BASIL I. (CNC-4)
KUBAS, GREGORY J. (CNC-4)
- 4-57
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.
INORG. CHEM., V.13, P.2289-90, 1974.
(LA-UR-74-420)*
JONES, LLEWELLYN H. (CNC-4)
- 4-58
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.
J. CHEM. PHYS., V.61, P.3571-80, 1974.
(LA-UR-74-809)*
MC DOWELL, ROBIN S. (CNC-4)
ASPREY, LARNED B. (CNC-4)
PAINE, ROBERT T., JR. (CNC-4)
- 4-59
WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE(II)).
J. OPT. SOC. AM., V.64, P.366-89, 1974.
(LA-UR-73-1328)*
RADZIEMSKI, LEON J., JR. (CMB-1)
KAUFMAN, VICTOR
- 4-60
ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.
PHYS. REV., V.B10, P.3075-91, 1974.
(LA-UR-74-1087)*
MORIARTY, JOHN A. (CMB-5)

5. BIOLOGY AND MEDICINE

- 5-1
ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS. ABSTRACT PUBLISHED IN: FEDERATION PROC., V.33, P.1239, 1974. DE LISI, CHARLES P. (T-DOT) PETERSEN, DONALD F. (H-9)
- 5-2
ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HP1C1. J. VIROL., V.14, P.1604-6, 1974. (LA-UR-74-1123)* OKINAKA, RICHARD (H-9) BARNHART, BENJAMIN J. (H-9)
- 5-3
ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973. LASL, 1974, 165P. (LA-5633-PR) RICHMOND, CHESTER R. (H-DO) COMP. SULLIVAN, ELIZABETH M. (H-DO) COMP.
- 5-4
ANNUAL REPORT, ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING, JULY 1, 1973 THROUGH JUNE 30, 1974. LASL, 1974, 5P. (LA-5790-PR) KOELLE, ALFRED R. (E-3) FREYMAN, ROBERT W. (E-DOR) DEPP, STEVEN W. (E-DO) HOLM, DALE M. (H-6)
- 5-5
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. I. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS. CELL. IMMUNOL., V.10, P.415-31, 1974. (LA-UR-73-411)* BELL, GEORGE I. (T-DOT) DE LISI, CHARLES P. (T-DOT)
- 5-6
APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS). LASL, 1974, 5P. (LA-5565-MS) CRAM, L. SCOTT (H-10)
- 5-7
APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION, JULY 1, 1973 - JUNE 30, 1974. LASL, 1974, 4P. (LA-5719-PR) CRAM, L. SCOTT (H-10)
- 5-8
AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS. J. HISTOCHEM. CYTOCHEM., V.22, P.616-21, 1974. (LA-UR-74-278)* STEINKAMP, JOHN A. (H-10) CRISSMAN, HARRY A. (H-10)
- 5-9
AUTOMATIC IDENTIFICATION AND PHYSIOLOGICAL MONITORING IN ANIMALS. TIC, 1974, 8P. MN (LA-UR-74-630) BALDWIN, HOWARD A. (H-6) DEPP, STEVEN W. (E-DO) KOELLE, ALFRED R. (E-3) FREYMAN, ROBERT W. (E-4)
- 5-10
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM-238 DIOXIDE AND PLUTONIUM-239 DIOXIDE MICROSPHERES IN BEAGLES. ABSTRACT PUBLISHED IN: HEALTH PHYS., V.27, P.643, 1974. RICHMOND, CHESTER R. (H-DO) HOLLAND, LAURENCE M. (H-4) DRAKE, GLESSIE A. (H-4) WILSON, JULIE S. (H-4)
- 5-11
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS. TIC, 1974, 14P. MN (LA-UR-74-77) KLIGERMAN, MORTON M. (DIR OFF) PETERSEN, DONALD F. (H-9)
- 5-12
BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES. BIOPOLYMERS, V.13, P.2263-72, 1974. GRAY, DONALD M. GRAY, CARLA W. RATLIFF, ROBERT L. (H-9) SMITH, DAVID A. (H-9)

- 5-13
CAMAC AND RADIOTHERAPY.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.252-3, 1974.
LUNDY, ARVID S. (MP-3)
SHLAER, SALLY (MP-1)
- 5-14
CELL CYCLE ANALYSIS IN TWENTY MINUTES.
SCIENCE, V.184, P.1297-8, 1974.
(LA-UR-73-1790)*
CRISSMAN, HARRY A. (H-10)
TOBEY, ROBERT A. (H-9)
- 5-15
CELL CYCLE DEPENDENT CHANGES IN
ORGANIZATION OF MAMMALIAN NUCLEI.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.A137, 1974.
HILDEBRAND, CARL E. (H-9)
TOBEY, ROBERT A. (H-9)
- 5-16
CELL CYCLE SPECIFIC CHANGES IN HISTONE
PHOSPHORYLATION ASSOCIATED WITH CELL
PROLIFERATION AND CHROMOSOME
CONDENSATION.
J. CELL BIOL., V.60, P.356-64, 1974.
(LA-UR-73-647)*
GURLEY, LAWRENCE R. (H-9)
WALTERS, RONALD A. (H-9)
TOBEY, ROBERT A. (H-9)
- 5-17
CELL PREPARATION AND STAINING FOR FLOW
SYSTEMS.
TIC, 1974, 20P. MN (LA-UR-73-1614)
CRISSMAN, HARRY A. (H-10)
- 5-18
CHAIRMAN'S CLOSING REMARKS, SESSION V:
THE CELL SURFACE.
TIC, 1974, 5P. MN (LA-UR-73-1721)
KRAEMER, PAUL M. (H-9)
- 5-19
CHAIRMAN'S REMARKS, SESSION V: THE CELL
SURFACE.
TIC, 1974, 8P. MN (LA-UR-73-1722)
KRAEMER, PAUL M. (H-9)
- 5-20
CHARACTERISTICS OF ENERGY DEPOSITION BY
PIONS.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.247-8, 1974.
HUTSON, RICHARD L. (MP-3)
ARMSTRONG, T. W.
- 5-21
CHROMOSOME BANDING ANALYSIS OF IN VITRO
CELL POPULATIONS.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.30, P.283, 1974.
DEAVEN, LARRY L. (H-9)
SANDERS, PHYLLIS C. (H-9)
KLIGERMAN, MORTON M. (H-9)
PETERSEN, DONALD F. (H-9)
- 5-22
CHROMOSOME G-BANDING AND DNA CONSTANCY IN
ANEUPLOID CELL POPULATIONS.
TIC, 1974, 28P. MN (LA-UR-74-146)
DEAVEN, LARRY L. (H-9)
SANDERS, PHYLLIS C. (H-9)
GRILLY, JULIAMARIE L. (H-DO)
KRAEMER, PAUL M. (H-9)
PETERSEN, DONALD F. (H-9)
- 5-23
COMPARATIVE IMMEDIATE AND LONG TERM
EFFECTS OF GAMMA RAY DOSE PROTRACTION BY
FRACTIONATION AND CONTINUOUS LOW DOSE
RATE EXPOSURE IN DOGS AND MONKEYS.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.59, P.144, 1974.
HOLLAND, LAURENCE M. (H-4)
SPALDING, JOHN F. (H-4)
PRINE, JAMES R. (H-4)
JOHNSON, OGDEN S. (H-4)
- 5-24
COMPUTER OPERATIONS FOR SUPPORT OF PION
RADIOTHERAPY AT LOS ALAMOS.
TIC, 1974, 9P. MN (LA-UR-74-1296)
LUNDY, ARVID S. (MP-3)
MINOR, MICHAEL (MP-3)
SHLAER, SALLY (MP-1)
- 5-25
COOPERATIVE PHENOMENA IN HOMOPOLYMERS:
AN ALTERNATIVE FORMULATION OF THE
PARTITION FUNCTION.
BIOPOLYMERS, V.13, P.1511-2, 1974.
(LA-UR-74-259)*
DE LISI, CHARLES P. (T-DO)
- 5-26
DEGRADATION OF NUCLEIC ACID IN AQUEOUS
SOLUTION BY IONIZING RADIATION. 1. LOSS
OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF
THYMINE OR THYMINE DERIVATIVES UPON X
IRRADIATION.
INT. J. RADIAT. BIOL., V.25, P.603-9,
1974. (LA-UR-73-1856)*
HOARD, DONALD E. (H-9)
HAYES, F. NEWTON (H-9)
GOAD, WALTER B., JR. (T-DO)
- 5-27
DEGRADATION OF NUCLEIC ACID IN AQUEOUS
SOLUTION BY IONIZING RADIATION. 2.
ANALYSIS OF THE CONTRIBUTION OF VARIOUS
WATER RADICALS TO THE LOSS OF ULTRAVIOLET
ABSORPTION BY THYMIDYLATE SOLUTIONS
DURING X IRRADIATION.
INT. J. RADIAT. BIOL., V.26, P.511-22,
1974. (LA-UR-74-988)*
HAYES, F. NEWTON (H-9)
HOARD, DONALD E. (H-9)
DEAN, PHILLIP N. (H-10)
GOAD, WALTER B., JR. (T-DO)
- 5-28
DETECTION OF HETEROPLLOID TUMOR CELLS.
J. NAT. CANCER INST., V.52, P.863-8,
1974. (LA-UR-73-1118)*
HOBAN, PAUL K. (H-10)
ROMERO, ANGELA (H-10)
STEINKAMP, JOHN A. (H-10)
PETERSEN, DONALD F. (H-9)

- 5-29
DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.
TIC, 1974, 5P. MN (LA-UR-73-1615)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-21, NO.1, P.731-4, 1974.
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
UMBARGER, C. JOHN (A-1)
- 5-30
DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.
BIOPHYS. J., V.14, P.439-53, 1974.
(LA-UR-73-1108)*
BRUNSTING, ALBERT (H-10)
MULLANEY, PAUL F. (H-10)
- 5-31
DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES.
J. INFECTION, V.129, P.362-4, 1974.
(LA-UR-73-1536)*
SAUNDERS, GEORGE C. (H-6)
WILDER, MARK E.
- 5-32
DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN.
LASL, 1950, DECLASSIFIED 1971, 45P.
(LA-1151)
LANGHAM, WRIGHT H.
- 5-33
DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.
BRIT. J. RADIOL., V.47, P.405-10, 1974. (LA-UR-73-82)*
RAJU, MUDUNDI R. (H-4)
TRUJILLO, THEODORE T. (H-4)
MULLANEY, PAUL F. (H-4)
ROMERO, ANGELA (H-10)
STEINKAMP, JOHN A. (H-4)
WALTERS, RONALD A. (H-4)
- 5-34
DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.233-4, 1974.
SCHILLACI, MARIO E. (MP-3)
- 5-35
DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.
LASL, 1974, 5P. (LA-5722-MS)
SPALDING, JOHN F. (H-4)
JOHNSON, OGDEN S. (H-4)
ARCHULETA, RUBEN F. (H-4)
TIETJEN, GARY L. (C-5)
- 5-36
DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.
FILED 1973, PATENTED JUL.16, 1974.
(U. S. PATENT 3,824,402)
MULLANEY, PAUL F. (H-10)
WEST, WILLIAM T. (H-10)
- 5-37
EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.
BIOPHYS. J., V.14, P.99-118, 1974.
(LA-UR-73-898)*
WALTERS, RONALD A. (H-9)
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
- 5-38
EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.
BIOCHIM. BIOPHYS. ACTA, V.353, P.227-37, 1974. (LA-UR-74-82)*
ENGER, M. DUANE (H-9)
WALTERS, RONALD A. (H-9)
CAMPBELL, EVELYN W. (H-9)
- 5-39
EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.
EXPTL. CELL RES., V.85, P.234-8, 1974.
(LA-UR-73-900)*
NOLAND, BILLIE JEAN (H-9)
WALTERS, RONALD A. (H-9)
TOBEY, ROBERT A. (H-9)
HARDIN, JULIA MARIE (H-9)
SHEPHERD, GEORGE R. (H-9)
- 5-40
EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.
RADIATION RES., V.60, P.173-201, 1974.
(LA-UR-74-83)*
WALTERS, RONALD A. (H-9)
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
ENGER, M. DUANE (H-9)
RATLIFF, ROBERT L. (H-9)
- 5-41
ELECTRONIC ANIMAL IDENTIFICATION AND TEMPERATURE MONITORING.
TIC, 1974, 26P. MN (LA-UR-73-1688)
BALDWIN, HOWARD A. (H-6)
DEPP, STEVEN W. (E-DO)
KOELLE, ALFRED R. (E-4)
FREYMAN, ROBERT W. (E-DOR)
- 5-42
ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.
ANAL. CHEM., V.46, P.499-503, 1974.
(LA-UR-73-1119)*
BEARSE, ROBERT C. (A-1)
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
UMBARGER, C. JOHN (A-1)

- 5-43
ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1303, 1974.
SALZMAN, GARY C. (H-10)
MULLANEY, PAUL F. (H-10)
- 5-44
EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.
NUCLEAR MEDICINE, 1974, 1ST WORLD CONGRESS, TOKYO, PROC., RECENT ADVANCES IN NUCLEAR MEDICINE, P.26-30, THE CONGRESS, 1974.
(612.05:W927C 1974)
SHREEVE, WALTON W.
SHOOP, JON D.
OTT, DONALD G. (H-11)
MC INTEER, BERTHUS B. (CNC-4)
- 5-45
EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -13 IN VIVO.
ABSTRACT PUBLISHED IN:
J. NUCL. MED., V.15, P.532, 1974.
SHREEVE, WALTON W.
SHOOP, JON D.
OTT, DONALD G. (H-11)
MC INTEER, BERTHUS B. (CNC-4)
- 5-46
EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO. COLL-19, 1974.
FIEL, ROBERT
MULLANEY, PAUL F. (H-10)
- 5-47
FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.
J. CELLULAR PHYSIOL., V.84, P.197-204, 1974. (LA-UR-74-253)*
STEINKAMP, JOHN A. (H-10)
KR., MER. PAUL M. (H-9)
- 5-48
FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.
INTERN. J. CANCER, V.14, P.514-21, 1974. (LA-UR-74-644)*
HORAN, PAUL K. (H-10)
JETT, JAMES H. (H-10)
ROMERO, ANGELA (H-10)
LEHMAN, JOHN (H-10)
- 5-49
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.
BIOCHEM. BIOPHYS. RES. COMMUN., V.56, P.423-30, 1974. (LA-UR-73-1674)*
KRAEMER, PAUL M. (H-9)
SMITH, DAVID A. (H-9)
- 5-50
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.
PROC. SOC. EXPTL. BIOL. MED., V.146, P.1061-6, 1974. (LA-UR-73-1837)*
STEINKAMP, JOHN A. (H-10)
ROMERO, ANGELA (H-10)
- 5-51
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1561, 1974.
GOLDSTEIN, BYRON
DE LISI, CHARLES P. (T-DOT)
ABATE, JOSEPH
- 5-52
IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.
TIC, 1974, 50P. MN. (LA-UR-74-1477)
RICHMOND, CHESTER R. (H-10)
- 5-53
IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.384-5, 1974.
DEAN, PHILLIP N. (H-10)
- 5-54
IN VIVO TISSUE ANALYSIS USING MU-MESIC X RAYS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.98-9, 1974.
HUTSON, RICHARD L. (MP-3)
- 5-55
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DCA-TIN - DCA-TIN BY ULTRAVIOLET LIGHT.
BIOCHEMISTRY, V.13, P.485-93, 1974.
(LA-UR-73-1113)*
STRNISTE, GARY F. (H-9)
SMITH, DAVID A. (H-9)
- 5-56
INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1417, 1974.
SMITH, DAVID A. (H-9)
MARTINEZ, AARON M. (H-9)
- 5-57
INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS.
BIOCHIM. BIOPHYS. ACTA, V.353, P.475-86, 1974. (LA-UR-74-106)*
SMITH, DAVID A. (H-9)
MARTINEZ, AARON M. (H-9)

- 5-58
IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.
SURG. FORUM, V.25, P.372-4, 1974.
(LA-UR-73-376)*
ALSO PUBLISHED AS:
TIC, 1975, 4P. MN (LA-UR-74-842)
GOODRICH, EDWARD O., JR.
PRINE, JAMES R. (H-4)
WILSON, JULIE S. (H-4)
- 5-59
ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.
BIOCHIM. BIOPHYS. ACTA, V.349, P.61-77, 1974. (LA-DC-12630)*
SAPONARA, ARTHUR G. (H-4)
ENGER, M. DUANE (H-4)
- 5-60
ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.A174, 1974.
KRAEMER, PAUL M. (H-9)
- 5-61
KINETICS OF HEMOLYTIC PLAQUE FORMATION.
PROC. NAT. ACAD. SCI. V.71, P.16-20, 1974. (LA-UR-73-229)*
DE LISI, CHARLES P. (T-DOT)
BELL, GEORGE I. (T-DOT)
- 5-62
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.59, P.144-5, 1974.
SPALDING, JOHN F. (H-4)
JOHNSON, OGDEN S. (H-4)
ARCHULETA, RUBEN F. (H-4)
- 5-63
LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO. COLL-18, 1974.
MULLANEY, PAUL F. (H-10)
SALZMAN, GARY C. (H-10)
- 5-64
LUNG IRRADIATION WITH STATIC PLUTONIUM MICROSPHERES.
TIC, 1974, 29P. MN (LA-UR-74-968)
ANDERSON, ERNEST C. (H-10)
HOLLAND, LAURENCE M. (H-4)
PRINE, JAMES R. (H-4)
RICHMOND, CHESTER R. (H-10)
- 5-65
MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.A175, 1974.
KRAEMER, PAUL M. (H-9)
TODD, PAUL (H-10)
- 5-66
MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.
J. CELL BIOL., V.60, P.523-7, 1974.
(LA-UR-73-1073)*
DEAN, PHILLIP N. (H-10)
JEFF, JAMES H. (H-10)
- 5-67
MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.59, P.270, 1974.
HOARD, DONALD E. (H-9)
HAYES, F. NEWTON (H-9)
GOAD, WALTER B., JR. (T-DOT)
- 5-68
MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.
METHODS IN CELL BIOLOGY, D. M. PRESCOTT, ED. V.8, CHAP.12, P.179-204, ACADEMIC, 1974. 1576.3:M592C V.8)
DEAVEN, LARRY L. (H-9)
PETERSEN, DONALD F. (H-9)
- 5-69
MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.
TIC, 1974, 9P. MN (LA-UR-73-1832)
KNAPP, EDWARD A. (MP-3)
- 5-70
METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.
ARCH. BIOCHEM. BIOPHYS., V.164, P.469-77, 1974. (LA-UR-74-332)*
GURLEY, LAWRENCE R. (H-9)
WALTERS, RONALD A. (H-9)
TOBEY, ROBERT A. (H-9)
- 5-71
METHOD FOR PRODUCTION OF UNIFORM MICROSPHERES.
FILED 1971, PATENTED FEB. 5, 1974.
(U. S. PATENT 3,790,492)
FULWYLER, MACK J. (H-4)
- 5-72
MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.
NATURE, V.248, P.430-1, 1974.
(LA-UR-73-1694)*
BELL, GEORGE I. (T-DOT)
- 5-73
MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREES.
MATH. BIOSCI., V.19, P.9-25, 1974.
(LA-DC-72-596)*
BEYER, WILLIAM A. (T-DOT)
STEIN, MYRON L. (C-7)
SMITH, TEMPLE F.
ULAM, STANISLAW M.

- 5-74
MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.
EXPTL. CELL RES., V.84, P.15-23, 1974.
(LA-UR-73-1255)*
STEINKAMP, JOHN A. (H-10)
ROMERO, ANGELA (H-10)
HORAN, PAUL K. (H-10)
CRISSMAN, HARRY A. (H-10)
- 5-75
NATURE OF CHROMOSOME INSTABILITY IN HETEROPOID CELL POPULATIONS.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.A79, 1974.
DEAVEN, LARRY L. (H-9)
SANDERS, PHYLLIS C. (H-9)
PETERSEN, DONALD F. (H-9)
- 5-76
NEGATIVE PIONS IN RADIOTHERAPY: A BRIEF REVIEW.
EUR. J. CANCER, V.10, P.211-5, 1974.
(LA-UR-73-1388)*
RAJU, MUDUNDI R. (H-10)
- 5-77
NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PI MINUS BIOMEDICAL CHANNEL.
LASL, 1974, 8P. (LA-5746-MS)
GOODMAN, CLARK (LAMPF USER)
- 5-78
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.
TIC, 1974, 9P. MN (LA-UR-74-932)
DALY, BART J. (T-3)
- 5-79
OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.
SCANNING ELECTRON MICROSCOPY, 1974, 7TH ANNUAL SYMPOSIUM, CHICAGO, PROC., P.573-9, IIT RESEARCH INSTITUTE, 1974.
(535:583E 7TH)
ENLANDER, DEREK
SCOTT, THEA
TOBEY, ROBERT A. (H-9)
- 5-80
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.
TIC, 1974, 47P. MN (LA-UR-73-1650)
BELL, GEORGE I. (T-DOT)
- 5-81
ON THE MECHANISM OF HEMOLYTIC PLAQUE INHIBITION.
IMMUNOCHEMISTRY, V.11, P.661-5, 1974. (LA-UR-74-382)*
DE LISI, CHARLES P. (T-DOT)
GOLDSTEIN, BYRON
- 5-82
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.
1.
MATH. BIOSCL., V.20, P.27-511, 1974.
(LA-UR-73-511)*
ABSTRACT PUBLISHED IN:
NOTICES AM. MATH. SOC., V.20, P.A544, 1973.
PIMBLEY, GEORGE H. (T-DOT)
- 5-83
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.
2.
MATH. BIOSCL., V.21, P.251-77, 1974.
(LA-UR-73-982)*
PIMBLEY, GEORGE H. (T-DOT)
- 5-84
PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.
ARCH. RATIONAL MECH. ANAL., V.55, P.93-123, 1974. (LA-UR-74-80)*
PIMBLEY, GEORGE H. (T-DOT)
- 5-85
PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS.
AM. REV. RESP. DIS., V.110, P.368-9, 1974.
COBURN, MICHAEL D. (WX-2)
COBURN, LEAH A.
SOLOMONS, CLIVE C.
- 5-86
PLUTONIUM -238 FUELS FOR POWERING MEDICAL DEVICES.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.620, 1974.
MULLINS, LAWRENCE J., JR. (CMB-11)
STODDARD, STEPHEN D. (CMB-6)
- 5-87
POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.59, P.305, 1974.
RAJU, MUDUNDI R. (H-10)
HORAN, PAUL K. (H-10)
ROMERO, ANGELA (H-10)
TRUJILLO, THEODORE T. (H-10)
MARTIN, JOHN C. (H-10)
STERNHAGEN, C. J.
- 5-88
PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM -238 FUELS, JULY 1, 1971 JUNE 30, 1973.
LASL, 1974, 41P. (LA-5506-PR)
MULLINS, LAWRENCE J., JR. (CMB-11) COMP.
- 5-89
PREPARATION AND PROPERTIES OF THE POLYMERS D(AIC)N-D(ICT)N AND D(AGC)N-D(GCT)N.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1424, 1974.
RATLIFF, ROBERT L. (H-9)
SMITH, DAVID A. (H-9)
HAYES, F. NEWTON (H-9)
HOARD, DONALD E. (H-9)
- 5-90
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1328, 1974.
HILDEBRAND, CARL E. (H-9)
OKINAKA, RICHARD (H-9)

- 5-91
PROBE ACTIVITIES. ANNUAL REPORT. JULY 1, 1973 - JUNE 30, 1974.
LASL, 1974. 9P. (LA-5751-PR)
HOLM, DALE M. (H-6)
PAYNE, ROBERT J. (H-6)
- 5-92
PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.248, 1974.
HUTSON, RICHARD L. (MP-3)
BUSH, EDGAR D., JR. (MP-8)
- 5-93
PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1974.
LASL, 1974. 4P. (LA-5796-PR)
STEINKAMP, JOHN A. (H-10)
HORAN, PAUL K. (H-10)
MARTIN, JOHN C. (H-10)
SALZMAN, GARY C. (H-10)
CRISSMAN, HARRY A. (H-10)
- 5-94
PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.253-4, 1974.
BOONE, MAX L. M.
FAUST, JOHN
HUTSON, RICHARD L. (MP-3)
LUNDY, ARVID S. (MP-3)
- 5-95
QUANTITATIVE IMMUNOFLOUORESCENCE MEASUREMENTS OF SV40 T-ANTIGEN PRODUCTION.
ABSTRACT PUBLISHED IN:
BACTERIOL. PROC., V.74, ABSTRACT NO. V256, 1974. (LA-UR-74-8)*
HORAN, MARY (H-6)
HORAN, PAUL K. (H-10)
WILLIAMS, CURTIS A.
- 5-96
QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.
IMMUNOCHEMISTRY, V.11, P.667-72, 1974. (LA-UR-74-279)*
CRAM, L. SCOTT (H-10)
FORSLUND, JEAN C. (H-10)
- 5-97
RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.
USAEC, 1974. 47P. (WASH-1320)
BAIR, WILLIAM J.
RICHMOND, CHESTER R. (***)
WACHHOLZ, BRUCE W.
- 5-98
RADIOISOTOPE PROGRAM AT LAMPF. TIC, 1974. 17P. MN (LA-UR-74-147)
ALSO PUBLISHED IN:
PRACTICAL APPLICATIONS OF ACCELERATORS, 1973, SYMPOSIUM, LOS ALAMOS, NM. PROC., P.93-105, LASL, 1974. (CONF-730849) (LA-5535-C)
O'BRIEN, HAROLD A., JR. (CNC-11)
- 5-99
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1). RADIATION RES., V.60, P.473-81, 1974. (LA-UR-74-446)*
RAJU, MUDUNDI R. (H-10)
JETT, JAMES H. (H-10)
- 5-100
RECENT DEVELOPMENTS IN DISEASE SURVEILLANCE METHODS FOR POULTRY. TIC, 1974. 19P. MN (LA-UR-74-1174)
HENSLEY, JOHN C.
CRAM, L. SCOTT (H-10)
SAUNDERS, GEORGE C. (H-6)
HOLM, DALE M. (H-6)
- 5-101
RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.
LASL, 1974. 7P. (LA-5724-MS)
SPALDING, JOHN F. (H-4)
HOLLAND, LAURENCE M. (H-4)
JOHNSON, OGDEN S. (H-4)
PRINE, JAMES R. (H-4)
LONDON, JERRY E. (H-4)
LA BAUME, PATRICIA M. (H-4)
- 5-102
ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.
TIC, 1974. 8P. MN (LA-UR-74-1127)
HENSLEY, JOHN C.
HOLM, DALE M. (H-6)
DEPP, STEVEN W. (E-D0)
KOELLE, ALFRED R. (E-3)
FREYMAN, ROBERT W. (E-4)
- 5-103
SCRAPIE HISTOLOGY IMAGE ENHANCEMENT.
LASL, 1974. 15P. (LA-5734-SR)
SEAGRAVE, JOHN D. (P-DOR)
- 5-104
SEMIANNUAL REPORT. SEROLOGIC TEST SYSTEMS DEVELOPMENT, JULY THROUGH DECEMBER 1973.
LASL, 1974. 22P. (LA-5556-PR)
SAUNDERS, GEORGE C. (H-6)
CLINARD, ELVA H. (H-6)
FORSLUND, JEAN C. (H-10)
BARTLETT, MARY L. (H-6)
HOLM, DALE M. (H-6)
- 5-105
SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE.
ABSTRACT PUBLISHED IN:
J. CELL BIOL., V.63, P.A126, 1974.
GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
HILDEBRAND, CARL E. (H-9)
WALTERS, RONALD A. (H-9)

- 5-106
SOME PROBLEMS OF TREATMENT PLANNING FOR
PION BEAMS.
ABSTRACT PUBLISHED IN:
PHYS. MED. BIOL., V.19, P.247, 1974.
HUTSON, RICHARD L. (MP-3)
JETT, JAMES H. (H-10)
- 5-107
STATISTICAL THERMODYNAMICS OF OLIGOMER -
POLYMER INTERACTIONS.
BIOPOLYMERS, V.13, P.2305-14, 1974.
DE LISI, CHARLES P. (T-DOT)
- 5-108
STUDIES OF PLUTONIUM IN HUMAN
TRACHEOBRONCHIAL LYMPH NODES.
TIC, 1974, 21P. MN (LA-UR-74-1454)
MC INROY, JAMES F. (H-5)
STEWART, MICHAEL W.
MOSS, WILLIAM D. (H-5)
- 5-109
SUB-RIBOSOMAL PARTICLES OF CULTURED
CHINESE HAMSTER CELLS: RELATIONSHIP
BETWEEN RNA AND PROTEIN COMPONENTS.
EUROPEAN J. BIOCHEM., V.43, P.17-28,
1974. (LA-UR-73-1423)*
ENGER, M. DUANE (H-9)
WALTERS, RONALD A. (H-9)
HAMPEL, ARNOLD E.
CAMPBELL, EVELYN W. (H-9)
HANNERS, JOHN L. (H-9)
- 5-110
SYNTHESIS OF HETEROGENEOUS NUCLEAR,
INFOSOMAL MESSENGER-LIKE, AND
POLYSOMAL MESSENGER RNA IN SYNCHRONIZED
CHINESE HAMSTER CELLS.
ABSTRACT PUBLISHED IN:
FEDERATION PROC., V.33, P.1418, 1974.
ENGER, M. DUANE (H-9)
CAMPBELL, EVELYN W. (H-9)
- 5-111
TECHNIQUES FOR VISUALIZING PION TREATMENT
PORTS AT LAMPF.
LASL, 1974, 5P. (LA-5799-MS)
BARNES, JAMES E. (MP-3)
HUTSON, RICHARD L. (MP-3)
- 5-112
THEORY OF PRECIPITATION AND AGGLUTINATION
REACTIONS IN IMMUNOLOGICAL SYSTEMS.
J. THEORET. BIOL., V.45, P.555-75,
1974. (LA-UR-73-710)*
DE LISI, CHARLES P. (T-DOT)
- 5-113
UNIFORM DEPTH DOSE DISTRIBUTIONS FROM
MONOENERGETIC NEGATIVE PION BEAMS.
LASL, 1974, 6P. (LA-5598-MS)
MEYER, HANS O. (MP-DO)
- 5-114
UPTAKE KINETICS OF RELATIVELY INSOLUBLE
PARTICLES BY TRACHEOBRONCHIAL LYMPH
NODES.
TIC, 1974, 25P. MN (LA-UR-74-1476)
THOMAS, ROBERT G. (H-4)
- 5-115
USE OF MU-MESIC X RAYS AS A MEDICAL TOOL.
PRACTICAL APPLICATIONS OF
ACCELERATORS, 1973, SYMPOSIUM, LOS
ALAMOS, NM, PROC., P.166-71, LASL,
1974. (CONF-730849) (LA-5535-C)
HUTSON, RICHARD L. (MP-3)

6. CHEMICAL DYNAMICS AND KINETICS

- 6-1
CHEMICAL REACTION DYNAMICS. PART 1.
GEOMETRICAL STRUCTURE.
ARCH. RATIONAL MECH. ANAL., V.55,
P.230-74, 1974. (LA-UR-74-1054)*
OSTER, GEORGE F.
PERELSON, ALAN S. (T-10)
- 6-2
CHEMICAL REACTION NETWORKS.
IEEE TRANS. CIRCUITS SYST., V.CAS-21,
P.709-21, 1974. (LA-UR-74-1183)*
OSTER, GEORGE F.
PERELSON, ALAN S. (T-10)
- 6-3
COMMENT ON: MONTE CARLO CALCULATIONS OF
REACTION RATES AND ENERGY DISTRIBUTIONS
AMONG REACTION PRODUCTS. 4. $F + HF(V)$ TO
 $HF(V) + F$ AND $F + DF(V)$ TO $DF(V) + F$.
J. CHEM. PHYS., V.60, P.2200, 1974.
(LA-UR-73-1360)*
THOMPSON, DONALD L. (CNC-4)
- 6-4
COMPUTER MOVIE OF THE REACTION DYNAMICS
OF THE HOT ATOM ($T^* +$ METHANE) AND
($T^* +$ DEUTEROMETHANE) SYSTEMS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.167, PAPER NO. PHYS-126, 1974.
RAFF, LIONEL M. (CNC-4)
- 6-5
DETERMINATION OF CONDENSED PHASE
KINETICS CONSTANTS.
THERMOCHEM. ACTA, V.9, P.444-6, 1974.
(LA-UR-74-402)*
ROGERS, RAYMOND N. (WX-2)
- 6-6
ILLUSTRATION OF REACTION MECHANISM IN
POLYATOMIC SYSTEMS VIA COMPUTER MOVIES.
J. CHEM. EDUC., V.51, P.712-6, 1974.
(LA-UR-73-1807)*
RAFF, LIONEL M. (CNC-4)
- 6-7
KINETICS OF A HYDROGEN(2) - FLUORINE(2),
EXPLOSION AS INITIATED BY A PULSE OF
FLUORINE ATOMS.
LASL, 1974, 28P. (LA-5409)
SULLIVAN, JOHN H. (CNC-4)
FEBER, ROY C., JR. (CMB-8)
- 6-8
KINETICS OF THE OXIDATION OF HYDROQUINONE
BY PLUTONIUM(VI) AND BY PLUTONIUM(V) IN
AQUEOUS PERCHLORATE SOLUTIONS.
J. INORG. NUCL. CHEM., V.36, P.639-43,
1974. (LA-UR-73-779)*
NEWTON, THOMAS W. (CNC-2)
- 6-9
KINETICS OF THE OXIDATION OF PLUTONIUM
(III) TO PLUTONIUM(IV) BY CHROMIUM(VI).
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.167, PAPER NO. INOR-167, 1974.
NEWTON, THOMAS W. (CNC-2)
- 6-10
MONTE CARLO CLASSICAL DYNAMICAL STUDY OF
THE CHLORINE + CHLORINE(2) AND IODINE +
IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION
AND ATOM EXCHANGE REACTIONS.
J. CHEM. PHYS., V.60, P.4557-67,
1974. (LA-UR-74-75)*
THOMPSON, DONALD L. (CNC-4)
- 6-11
MONTE CARLO QUASICLASSICAL TRAJECTORY
STUDY OF BROMINE + HYDROGEN BROMIDE AND
HYDROGEN + HYDROGEN BROMIDE: EFFECT OF
REACTANT VIBRATION AND ROTATION ON
REACTION RATES AND ENERGY TRANSFER.
J. CHEM. PHYS., V.61, P.719-32, 1974.
(LA-UR-73-1792)*
WHITE, JOHN MICHAEL (CNC-4)
THOMPSON, DONALD L. (CNC-4)
- 6-12
MONTE CARLO TRAJECTORIES: THE REACTION
HYDROGEN + BROMINE(2) YIELDS HYDROGEN
BROMIDE + BROMINE.
J. CHEM. PHYS., V.61, P.4186-203,
1974. (LA-UR-74-1002)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.260, 1974.
BLAIS, NORMAND C. (CNC-4)
TRUHLAR, DONALD G. (CNC-4)
- 6-13
REACTION BETWEEN PLUTONIUM AND DEUTERIUM.
PART 1. RATE MEASUREMENTS BY PRESSURE
CHANGES.
LASL, 1974, 10P. (LA-5515-MS)
BOWERSOX, DAVID F. (CMB-11)

- 6-14
 REPLY TO: COMMENT ON MOLECULAR BEAM
 KINETICS: DEUTERIUM + CHLORINE
 TRIFLUORIDE. BY HELLMUT HABERLAND AND
 KONRAD SCHMIDT.
 J. CHEM. PHYS., V.60, P.2198, 1974.
 (LA-UR-73-1711)*
 CROSS, JON B. (CNC-4)
- 6-15
 STABILITY AND NONEXPLOSIVE HYDROGEN
 FLUORIDE PRODUCTION IN ATMOSPHERIC
 PRESSURE HYDROGEN - OXYGEN - FLUORINE
 MIXTURES.
 LASL, 1974, 11P. (LA-5659)
 GETZINGER, RICHARD W. (L-3)
- 6-16
 THEORETICAL INVESTIGATIONS OF THE
 REACTION DYNAMICS OF POLYATOMIC SYSTEMS:
 CHEMISTRY OF THE HOT ATOM (T^* + METHANE)
 AND (T^* + DEUTEROMETHANE) SYSTEMS.
 J. CHEM. PHYS., V.60, P.2220-44, 1974.
 (LA-UR-73-1384)*
 RAFF, LIONEL M. (CNC-4)
- 6-17
 TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN
 - OXYGEN IGNITION AND THE RATE
 COEFFICIENT FOR $O + H(2)$ YIELDS $OH + H$.
 INTERN. J. CHEM. KINETICS, V.6, P.921-
 43, 1974. (LA-UR-74-544)*
 SCHOTT, GARRY L. (L-3)
 GETZINGER, RICHARD W. (L-3)
 SEITZ, WILLIAM A. (GMX-7)
- 6-18
 TRANSLATION ROTATION ENERGY TRANSFER:
 MOLECULAR BEAM DYNAMICS OF KRYPTON +
 CARBON DISULFIDE.
 ABSTRACT PUBLISHED IN:
 BULL. AM. PHYS. SOC., SER.2, V.19,
 P.261, 1974.
 CROSS, JON B. (CNC-4)
- 6-19
 UNEXPLAINED PARADOX: THE THERMAL RATE
 COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM
 CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM
 EXCHANGE REACTION.
 ABSTRACT PUBLISHED IN:
 AM. CHEM. SOC. ABSTRACTS OF PAPERS,
 V.167, PAPER NO. PHYS-70, 1974.
 SUZUKAWA, HENRY H., JR. (CNC-4)
 THOMPSON, DONALD L. (CNC-4)
 RAFF, LIONEL M. (CNC-4)
- 6-20
 VIBRATIONAL INVERSION OF CYANOGEN
 PRODUCED BY FLASH PHOTOLYSIS OF BROMINE
 CYANIDE IN EXCESS XENON.
 J. PHOTOCHEM., V.1, P.317-20, 1973.
 (LA-DC-72-778)*
 ENGLEMAN, ROLF, JR. (GMX-2)

7. CHEMISTRY

- 7-1
ANALYTICAL EXPRESSION FOR ENTHALPY AND
HEAT CAPACITY FOR URANIUM - PLUTONIUM
DIOXIDE.
J. NUCL. MATER., V.50, P.155-61, 1974.
GIBBY, R. L.
LEIBOWITZ, L.
CLIFTON, DAVID G. (CMB-11)
KERRISK, JERRY F. (CMB-11)
- 7-2
CALCULATION OF EQUILIBRIUM COMPOSITIONS
IN EXCHANGE REACTIONS.
LASL, 1974, 4P. (LA-5747-MS)
CARSTENS, DEAN H. W. (CMB-3)
- 7-3
CONTEMPORARY CHEMISTRY: CONCEPTS AND
ISSUES.
MERRILL, 1974, 500P. (540:W235C)
WALTERS, EDWARD A.
WEWERKA, EUGENE M. (***)
- 7-4
FORMATION OF NIOBIUM DIHYDRIDE FROM
NIOBIUM CATALYZED BY LANTHANUM - NICKEL
(5).
J. INORG. NUCL. CHEM., V.36, P.461-3.
1974. (LA-UR-73-415)*
CARSTENS, DEAN H. W. (CMB-3)
FARR, JOHN D. (CMB-3)
- 7-5
FREE ENERGY IN CONCENTRATION SPACE.
LASL, 1974, 8P. (LA-5653-MS)
EVERETT, CORNELIUS J. (TD-6)
- 7-6
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE
THERMOCHEMICAL PRODUCTION OF HYDROGEN
FROM WATER.
NUCLEAR PROCESS HEAT APPLICATIONS.
1974, 1ST NATIONAL TOPICAL MEETING.
LOS ALAMOS, NM. PROC., P.251-60, LASL.
1974. (CONF-741032) (LA-5795-C)
ALSO PUBLISHED AS:
TIC, 1975, 11P. MN (LA-UR-74-1459)
BOWMAN, MELVIN G. (CMB-DO)
- 7-7
ON DIVALENT AMERICIUM IN MOLTEN SALT/
MOLTEN PLUTONIUM SYSTEMS.
J. CHEM. THERMODYNAMICS, V.6, P.103-4.
1974. (LA-UR-73-430)*
LEARY, JOSEPH A. (CMB-DO)
MULLINS, LAWRENCE J., JR. (CMB-11)
- 7-8
PREPARATION OF PLUTONIUM -238 (OXYGEN
-16) DIOXIDE.
FILED 1972, PATENTED APR. 2, 1974.
(U. S. PATENT 3,801,700)
NANCE, ROBERT L. (CMB-11)
LEARY, JOSEPH A. (CMB-11)
MULLINS, LAWRENCE J., JR. (CMB-11)
- 7-9
QUARTERLY REPORT, THERMOCHEMICAL
PRODUCTION OF HYDROGEN FROM WATER, APRIL
1 THROUGH JUNE 30, 1974.
LASL, 1974, 5P. (LA-5731-PR)
BOWMAN, MELVIN G. (CMB-3) COMP.
- 7-10
QUARTERLY REPORT, THERMOCHEMICAL
PRODUCTION OF HYDROGEN FROM WATER,
JANUARY 1 THROUGH MARCH 31, 1974.
LASL, 1974, 11P. (LA-5606-PR)
BOWMAN, MELVIN G. (CMB-3) COMP.
- 7-11
RA-LA PROCESS RESEARCH.
LASL, 1952, DECLASSIFIED 1967, 38P.
(LA-1474)
LAMAR, LAWRENCE E. (CMR-10)
- 7-12
RADIATION CHARACTERISTICS OF PLUTONIUM
-238 DIOXIDE HEAT SOURCES.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.620.
1974.
MATLACK, GEORGE M. (CMB-1)
HUBERNAK, JOSEPH (CMB-1)
- 7-13
REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES
OF TRANSITION METAL FLUORIDES, SYNTHESIS
OF MOLYBDENUM PENTAFLUORIDE AND
MOLYBDENUM TETRAFLUORIDE.
INORG. CHEM., V.13, P.1529-31, 1974.
(LA-UR-73-1609)*
PAINE, ROBERT T., JR. (CNC -4)
ASPREY, LARNED B. (CNC-4)
- 7-14
STANDARD GIBBS FREE ENERGY OF FORMATION
OF PLUTONIUM(2)NICKEL(7).
J. CHEM. THERMODYNAMICS, V.6,
P.1110-2, 1974.
CAMPBELL, GEORGE M. (CMB-11)

7.15
STATUS REPORT ON THE INITIAL NUCLEAR
CHEMISTRY EXPERIMENTS AT THE CLINTON P
ANGERSON MESON PHYSICS FACILITY (LAMPF)
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V. 168, PAPER NO. NUCL. 3, 1974.
WILLIAMS, ROBERT A. (CNC 11)
DROPSKY, BRUCE J. (CNC 11)

7.16
SYNTHESES WITH STABLE ISOTOPES:
ACETYLENE - CARBON-13(2) AND LITHIUM
ACETYLIDE - CARBON-13(2) ETHYLENEDIAMINE
COMPLEX
J. LABELLED COMP., V. 10, P. 361-8
1974. (LA-UR-74-3035)
WHALEY, THOMAS W. (H 11)
OTT, DONALD G. (H 11)

7.17
SYNTHESES WITH STABLE ISOTOPES: PYRIDINE
(NITROGEN-15)
J. LABELLED COMP., V. 10, P. 281-6
1974. (LA-UR-74-1865)
WHALEY, THOMAS W. (H 11)
OTT, DONALD G. (H 11)

7.18
SYNTHESIS WITH STABLE ISOTOPES: METHANOL
(CARBON-13), METHANOL - CARBON-13(D)
AND METHANOL - CARBON-12
J. LABELLED COMP., V. 10, P. 315-24
1974. (LA-UR-74-1596)
OTT, DONALD G. (H 11)
KERR, VERNON N. (H 11)
WHALEY, THOMAS W. (H 11)
BENZIGER, THEODORE M. (WX 2)
ROHWER, ROBERT K. (WX 2)

7.19
SYNTHESIS, STRUCTURE, AND PROPERTIES OF
SOME ORGANOMETALLIC SULFUR CLUSTER
COMPOUNDS
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V. 167, PAPER NO. INOR. 53, 1974.
VERGAMINI, PHILLIP J. (CNC 1)

7.20
THERMODYNAMIC PROPERTIES OF ACTINIDE
CARBIDES
J. NUCL. MATER., V. 51, P. 36-46, 1974.
(LA-UR-74-1347)
HOLLEY, CHARLES E., JR. (CNC 2)

8. CRYOGENICS

8.1
APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BREAKER FILM FLOW
DTIC, 1972, 50P, MN (LA-DC 72-922)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO, PROC., V.1, P.268-71
PLENUM, 1974, (536161) 13TH V.1,
(LA-DC 72-922)*
CAMPBELL, LAURENCE J. (P.8)

8.2
COMMENT ON: NEW MECHANISM OF DISSIPATION
IN THE ACCELERATED FLOW OF SUPERFLUID
HELIUM
LETT. NUOVO CIMENTO, V.11, P.573-4
1974, (LA-UR 74-560)*
CAMPBELL, LAURENCE J. (Q.26)

8.3
COMPUTERIZED SYSTEM FOR ULTRALOW
TEMPERATURE, LARGE TIME
REVERSAL AND PAIRTY EXPERIMENTS
TIC, 1974, 50P, MN (LA-UR 74-1055)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V. NS-21, NO.1,
P.57-61, 1974
HANDY, LARRY E. (P.8)
STEYERT, WILLIAM A., JR. (Q.26)

8.4
CONDUCTOR TESTS FOR DC SUPERCONDUCTING
POWER TRANSMISSION
TIC, 1974, 12P, MN (LA-UR 74-724)
BARTLETT, ROGER J. (Q.26)
HAMMEL, EDWARD F., JR. (ENERGY OFFICE)
HOFFER, JAMES R. (Q.26)
KELLER, WILLIAM E. (Q.26)
KERR, EUGENE C. (Q.26)
MC DONALD, THOMAS E. (Q.26)
TAYLOR, R. DEAN (Q.26)
TRELA, WALTER J. (Q.26)

8.5
DEPENDENCE OF THE COBALT LITHIUM
SUPERCONDUCTING TRANSITION ON
PREPARATION
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.674-5, 1974
OLSEN, CLAYTON E. (CMB-8)
ERICKSON, DENNIS J. (M6)
TAYLOR, R. DEAN (Q.26)

8.6
DESIGN OPTIONS AND TRADE OFFS IN
SUPERCONDUCTING MAGNETIC ENERGY STORAGE
WITH IRREVERSIBLE SWITCHING
TIC, 1974, 21P, MN (LA-UR 74-909)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972,
SYMPOSIUM, AUSTIN, TX, PROC., P.177,
20C, TIC, 1974, (CONF 74111)
(LA-DC 74-909)*

LAQUE, HENRY L. (Q.26)
LINDSAY, JAMES D. G. (Q.26)
LITTLE, EDWARD M. (Q.26)
ROGERS, JOHN D., JR. (Q.26)
WELDON, DAVID M. (Q.26)

8.7
DEVELOPMENT PROJECT FOR A DC
SUPERCONDUCTING POWER TRANSMISSION LINE
TIC, 1974, 8P, MN (LA-UR 74-1300)
MC DONALD, THOMAS E. (P.8)

8.8
DIRECT EVIDENCE FOR THE COEXISTENCE OF
SUPERCONDUCTIVITY AND FERROMAGNETISM
DTIC, 1972, 11P, MN (LA-DC 72-914)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO, PROC., V.2, P.66-7
PLENUM, 1974, (536161) 13TH V.2,
(LA-DC 72-914)*
TAYLOR, R. DEAN (P.8)
DECKER, WAYNE R.
ERICKSON, DENNIS J. (P.8)
GIBBS, ANGELO J. (CMB-3)
MATTHIAS, BERND T. (CMB-3)
OLSEN, CLAYTON E. (CMB-13)
SZKLARZ, EUGENE G. (CMB-3)

8.9
DIRECT MEASUREMENT OF THE DISSIPATION
FUNCTION OF THE FLOWING SATURATED HELIUM
II FILM
DTIC, 1972, 10P, MN (LA-DC 72-914)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO, PROC., V.1, P.263-7,
PLENUM, 1974, (536161) 13TH V.1,
(LA-DC 72-914)*
KELLER, WILLIAM E. (P.8)
HAMMEL, EDWARD F., JR. (P.8)

- 8-10
DISSIPATION IN THE FLOWING SATURATED
SUPERFLUID FILM.
DTIC, 1972, 11P. MN (LA-DC-72-891)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO. PROC., V.1, P.253-7,
PLENUM, 1974, (536:16) 13TH V.1)
(LA-DC-72-891)*
HOFFER, JAMES K. (P-8)
FRASER, JAMES C. (P-8)
HAMMILL, EDWARD F., JR. (P-8)
CAMPBELL, LAURENCE J. (P-8)
KELLER, WILLIAM E. (P-8)
SPERMAN, ROBERT H. (P-8)
- 8-11
ENERGY AND CRYOENGINEERING.
TIC, 1974, 20P. MN (LA-UR-74-741)
HAMMILL, EDWARD F., JR. (ENERGY OFFICE)
- 8-12
ENERGY STORAGE AND SWITCHING WITH
SUPERCONDUCTORS.
FILED 1973, PATENTED MAR. 26, 1974.
(U.S. PATENT 3,800,256)
GARWIN, RICHARD L. (T-DO)
- 8-13
FILM THICKNESS MEASUREMENTS ON THE
FLOWING SUPERFLUID HELIUM FILM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.136, 1974.
BANTON, MARTIN E. (Q-26)
HOFFER, JAMES K. (Q-26)
KELLER, WILLIAM E. (Q-26)
- 8-14
GRAVITATIONAL FLOW OF SUPERFLUID HELIUM
THROUGH SMALL ORIFICES.
J. LOW TEMP. PHYS., V.16, P.211-28,
1974, (LA-UR-74-5)*
BANTON, MARTIN E. (Q-26)
- 8-15
HELIUM FILM FLOW DISSIPATION WITH A
RESTRICTIVE GEOMETRY.
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO. PROC., V.1, P.251-2,
PLENUM, 1974, (536:16) 13TH V.1)
(LA-DC-72-893)*
LIEBENBERG, DONALD H. (P-8)
- 8-16
HYDRODYNAMIC THEORY CORRELATION FOR 72
HELIUM EVAPORATORS.
DTIC, 1972, 10P. MN (LA-DC-72-785)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972,
13TH INTERNATIONAL CONFERENCE,
BOULDER, CO. PROC., V.1, P.607-11,
PLENUM, 1974, (536:16) 13TH V.1)
(LA-DC-72-785)*
SYDORIAK, STEPHEN G. (P-8)
- 8-17
HYDROGEN GAS - LIQUID MIXING.
LASL, 1960, DECLASSIFIED 1968, 27P.
G.2MS-2399)
EDES-KUTY, FREDERICK J. (CMB-9)
ET AL.
- 8-18
MEAN FIELD THEORY OF SOME MAGNETIZED
AN FERROMAGNETS.
J. LOW TEMP. PHYS., V.14, P.471-99,
1974, (LA-DC-72-1189)*
GOLDSTEIN, LOUIS (T-DOT)
- 8-19
MELTING PRESSURE OF HELIUM-3 AT VERY LOW
TEMPERATURES.
J. LOW TEMP. PHYS., V.15, P.583-99,
1974, (LA-UR-73-797)*
GOLDSTEIN, LOUIS (T-DOT)
- 8-20
METHODS OF ENERGY TRANSFER FROM A
MAGNETIC ENERGY STORAGE SYSTEM USING A
TRANSFER CAPACITOR AND A SUPERCONDUCTING
SWITCH.
LASL, 1974, 19P. (LA-5631-MS)
WELDON, DAVID M. (CTR-7)
LINDSAY, JAMES D. G. (Q-26)
- 8-21
NON-ALIGNMENT OF THE MAGNETIC HYPERFINE
FIELD OF IRIIDIUM IN IRON.
PHYS. REV., V.C9, P.2063-6, 1974.
KRANE, KENNETH S.
STEVERT, WILLIAM A., JR. (Q-26)
- 8-22
OBSERVATION OF TRANSVERSE CONDUCTANCE
DISCONTINUITY DURING DESTRUCTION OF
SUPERCONDUCTIVITY BY CURRENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.138, 1974.
OVERTON, WILLIAM C., JR. (Q-26)
SCHUCH, ADAM F. (Q-26)
WEINSTOCK, H.
- 8-23
POOL BOILING HEAT TRANSFER TO LIQUID
HELIUM AND LIQUID NITROGEN IN A NEARLY
ZERO GRAVITY ENVIRONMENT.
TIC, 1974, 14P. MN (LA-UR-74-680)
EDES-KUTY, FREDERICK J. (Q-26)
WILLIAMSON, KENNETH D., JR. (Q-26)
TAYLOR, JAMES F. (Q-26)
- 8-24
PROGNOSIS FOR SUPERCONDUCTIVITY IN
NEPTUNIUM AND PLUTONIUM.
SOLID STATE COMMUN., V.15, P.49-51,
1974, (LA-UR-73-1233)*
HILL, H. HUNTER (CMB-5)
WHITE, RALPH W. (CMB-8)
LINDSAY, JAMES D. G. (Q-26)
STRUEBING, VERNON O. (CMB-5)
- 8-25
PROGRESS REPORT, USAEC DAT (DIVISION OF
APPLIED TECHNOLOGY) DC SUPERCONDUCTING
POWER TRANSMISSION LINE PROJECT AT LASL,
APRIL 1 THROUGH JUNE 30, 1974.
LASL, 1974, 20P. (LA-5787-PR)
KELLER, WILLIAM E. (Q-26) COMP.
TAYLOR, R. DEAN (Q-26) COMP.

8-26

PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.

LASL, 1974, 17P. (LA-5684-PR)

KELLER, WILLIAM E. (Q-26) COMP.

TAYLOR, R. DEAN (Q-26) COMP.

8-27

PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.

LASL, 1974, 17P. (LA-5581-PR)

KELLER, WILLIAM E. (Q-26) COMP.

TAYLOR, R. DEAN (Q-26) COMP.

8-28

PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.

LASL, 1974, 3P. (LA-5786-PR)

HASSENZAHN, WILLIAM V. (Q-26)

8-29

PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.

LASL, 1974, 3P. (LA-5588-PR)

HASSENZAHN, WILLIAM V. (Q-26)

TURNER, ROBERT D. (Q-26)

8-30

PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.

TIC, 1973, 21P. MN (LA-UR-73-413)

ALSO PUBLISHED IN:

ADV. CRYOG. ENG., V.19, P.241-7, 1974.

(LA-UR-73-413)*

WILLIAMSON, KENNETH D., JR. (Q-26)

SIMMONS, JAMES E. (P-DOR)

EDESKUTY, FREDERICK J. (Q-26)

FRETWELL, JAMES H. (Q-26)

MARTIN, JAMES T. (MP-7)

FICHT, HARRY (Q-26)

8-31

SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM(3)TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,

P.437, 1974.

BARTLETT, ROGER J. (Q-26)

HOFFER, JAMES K. (Q-26)

TAYLOR, R. DEAN (Q-26)

8-32

SUMMARY OF MOSSBAUER EVIDENCE ASSOCIATED WITH THE KONDO EFFECT.

PHYS. REV., V.B9, P.344-6, 1974.

KITCHENS, THOMAS A.

TAYLOR, R. DEAN (Q-26)

8-33

SUPERCONDUCTING MAGNETIC ENERGY STORAGE.

TIC, 1974, 22P. MN (LA-UR 74-737)

ALSO PUBLISHED IN:

CRYOGENICS, V.15, P.73-8, 1975.

LAQUER, HENRY L. (Q-26)

8-34

SUPERCONDUCTIVITY OF PROTACTINIUM.

DTIC, 1972, 9P. MN (LA-DC-72-919)

ALSO PUBLISHED IN:

LOW TEMPERATURE PHYSICS - LT 13, 1972.

13TH INTERNATIONAL CONFERENCE.

BOULDER, CO. PROC., V.3, P.377-81.

PLENUM, 1974. (536161 13TH V.3)

(LA-DC-72-919)*

FOWLER, ROBERT D.

ASPREY, LARNED B. (CNC 4)

LINDSAY, JAMES D. G. (P-8)

WHITE, RALPH W. (CMB-3)

9. CRYSTALLOGRAPHY

- 9-1
ARSENIC (0001) SURFACES: AUGER LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES. SURFACE SCI. V.11, P.125-11, 1973. (LA-UR-73-784)*
ELLIS, WALTON P. (CMB-8)
- 9-2
BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DI-CESIUM MAGNESIUM IRON HEXACYANIDE. INORG. CHEM. V.13, P.1685-7, 1974. (LA-UR-73-1689)*
SWANSON, BASH L. (CNC-1)
HAMBURG, S. I.
RYAN, ROBERT R. (CNC-1)
- 9-3
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIUM). INORG. CHEM. V.13, P.1681-4, 1974. (LA-UR-74-689)*
RYAN, ROBERT R. (CNC-1)
SWANSON, BASH L. (CNC-1)
- 9-4
CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1' - AZOBISCARBAMIDE. J. CHEM. PHYS., V.60, P.176-84, 1974. (LA-DC-72-716)*
CROMER, DON T. (CMB-5)
LARSON, ALLEN C. (CMB-5)
- 9-5
CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6- TRIAMINO-S-TRIAZINE. J. CHEM. PHYS., V.60, P.185-92, 1974. (LA-DC-72-717)*
CROMER, DON T. (CMB-5)
LARSON, ALLEN C. (CMB-5)
- 9-6
DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION. DTIC, 1372, 13P, MN (LA-DC-72-894)
ALSO PUBLISHED IN:
LOW TEMPERATURE PHYSICS - LT 13, 1972, 13TH INTERNATIONAL CONFERENCE, BOULDER, CO. PROC., V.2, P.203-9, PLENUM, 1974. (536:161 13TH V.2)
(LA-DC-72-894)*
MILLS, ROBERT L. (P-8)
YARNELL, JOHN L. (P-2)
SCHUCH, ADAM F. (P-8)
- 9-7
EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM-238 (80 PER CENT) DIOXIDE. 3. APPLICATIONS OF X-RAY ANALYSIS. 1973, 22ND ANNUAL CONFERENCE, DENVER, PROC., ADVANCES IN X-RAY ANALYSIS, V.17, P.348-53, PLENUM, 1974. (545:C7181 22ND) (LA-UR-73-854)*
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
- 9-8
EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION. J. APPL. PHYS., V.44, P.1968-76, 1973. (LA-DC-72-871)*
TESTER, JEFFERSON W. (CMB-13)
HERRICK, CLAUDE C. (CMB-13)
REID, R. C.
- 9-9
IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS. COMPUTER PHYS. COMMUN., V.8, P.71-81, 1974. (LA-UR-74-542)*
WARREN, JOHN L. (DIR OFF)
WORTON, THOMAS G.
- 9-10
IRON-57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN. ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.480, 1974.
ERICKSON, DENNIS J. (Q-26)
TAYLOR, R. DEAN (Q-26)
KITCHENS, THOMAS A.
- 9-11
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VICINAL SURFACES. SURFACE SCI., V.45, P.569-84, 1974. (LA-UR-74-344)*
ELLIS, WALTON P. (CMB-8)
- 9-12
LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIBORIDE. TIC, 1974, 4P, MN (LA-UR-73-1724)
BOWMAN, ALLEN L. (CMB-3)
NERESON, NORRIS G. (P-2)
WIENKE, BRUCE R. (T-1)

9-13
METHOD FOR THE ACCURATE MEASUREMENT OF
LATTICE COMPRESSIONS OF LOW-Z MATERIALS
AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY
DIFFRACTION.

REV. SCI. INSTR., V.45, P.1408-10,
1974. (LA-UR-74-434)*

HALLECK, PHILLIP M. (WX-7)
OLINGER, BARTON W. (M-6)

9-14
ORDERED STEP ARRAYS ON EVAPORATED ARSENIC
(0001) VICINAL SURFACES.

SURFACE SCI., V.41, P.619-23, 1974.
(LA-UR-73-0990)*

TESTER, JEFFERSON W. (CMB-8)
HERRICK, CLAUDE C. (CMB-8)
ELLIS, WALTON P. (CMB-8)

9-15
PREPARATION AND SINGLE CRYSTAL STRUCTURE
OF BETA - NH₄UF₅, AMMONIUM
PENTAFLUORO URANATE(IV).

ACTA. CRYST., V.B30, P.1966-70, 1974.
(LA-UR-74-500)*

PENNEMAN, ROBERT A. (CNC-4)
RYAN, ROBERT R. (CNC-4)
ROSENZWEIG, ABRAHAM (CNC-4)

9-16
STRUCTURE OF CERIUM METAL AT HIGH
PRESSURE.

PHYS. REV. LETTERS, V.32, P.773-4,
1974. (LA-UR-74-150)*

ELLINGER, FINLEY H. (CMB-5)
ZACHARIASEN, WILLIAM H. (CMB-5)

9-17
STRUCTURE OF LITHIUM HYDRIDE TO 12 GPA.
APPL. PHYS. LETTERS, V.24, P.536-7.

1974. (LA-UR-74-210)*

OLINGER, BARTON W. (M-6)
HALLECK, PHILLIP M. (WX-7)

9-18
THEORY OF A MAGNETIC COOLING SYSTEM AT
VERY LOW TEMPERATURES.

J. LOW TEMP. PHYS., V.17, P.385-401,
1974. (LA-UR-74-60)*

GOLDSTEIN, LOUIS (T-DOT)

9-19
UNIFORM VECTOR DISTRIBUTION FOR ACCURATE
SPATIAL INTEGRATION.

J. COMPUTAT. PHYS., V.14, P.59-83,
1974. (LA-UR-73-891)*

OVERTON, WILLIAM C., JR. (Q-26)
SCHUCH, ADAM F. (Q-26)

9-20
X RAY STUDY OF HELIUM -4 CLOSE PACKED
STRUCTURES AT HIGH PRESSURE.

J. LOW TEMP. PHYS., V.16, P.305-8,
1974. (LA-UR-73-1561)*

MILLS, ROBERT L. (Q-26)
SCHUCH, ADAM F. (Q-26)

10. CTR AND PLASMA PHYSICS

10-1

250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCYLLAC EXPERIMENT.

TIC, 1974, 4P, MN (LA-UR-73-1282)

ALSO PUBLISHED IN:

ENGINEERING PROBLEMS OF FUSION RESEARCH, 1973, 5TH SYMPOSIUM, PRINCETON, NJ, PROC., P.314-7, IEEE, 1974, (537:S989EN 1973)

HANKS, KENNETH W. (Q-4)

BOICOURT, GRENFELL P. (Q-4)

BAILEY, ARTHUR G. (Q-4)

10-2

APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH.

ABSTRACT PUBLISHED IN:

SHERWOOD THEORY, 1972, MEETING, LOS ALAMOS, NM, ABSTRACTS, P.C6, LASL, 1972, (539:554TA)

FREIDBERG, JEFFREY P. (P-18)

LEWIS, H. RALPH, JR. (P-18)

10-3

BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19, P.903, 1974.

ELLIS, WILLIAM R. JR. (CTR-2)

FRESE, KENNETH B. (CTR-8)

SEMON, RICHARD E. (CTR-8)

10-4

BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.

ABSTRACT PUBLISHED IN:

TRANS. AM. NUCL. SOC., V.19, P.468-9, 1974.

SORAN, PATRICK D. (T-1)

DUDZIAK, DONALD J. (T-1)

10-5

CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS.

LASL, 1974, 5P, (LA-5779-MS)

MILLER, GUTHRIE (CTR-3)

10-6

COMPARATIVE ANALYSIS OF DEUTERIUM - TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.

TIC, 1974, 21P, MN (LA-UR-74-629)

ALSO PUBLISHED IN:

TECHNOLOGY OF CONTROLLED NUCLEAR FUSION, 1974, 1ST TOPICAL MEETING, SAN DIEGO, PROC., V.1, P.548-63, TIC, 1974, (CONF-74002-P1)

DUDZIAK, DONALD J. (T-1)

KRAKOWSKI, ROBERT A. (Q-DOT)

10-7

CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.

TIC, 1974, 16P, MN (LA-UR-74-583)

ALSO PUBLISHED IN:

TECHNOLOGY OF CONTROLLED NUCLEAR FUSION, 1974, 1ST TOPICAL MEETING, SAN DIEGO, PROC., V.1, P.70-82, TIC, 1974, (CONF-74002-P1)

WILLIAMS, JAMES M. (L-5)

MERSON, THOMAS J. (ENG-6)

FINCH, FRANCIS T. (L-5)

SCHILLING, FREDERICK P. (ENG-6)

FRANK, THURMAN G. (L-5)

10-8

CURRENT CONTINUITY IN DENSE PLASMA.

J. APPL. PHYS., V.45, P.2112-4, 1974.

(LA-DC-13288)

MILLS, CARROLL B. (T-DOT)

10-9

CW LASER DENSITY MEASUREMENTS ON SCYLLAC.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19, P.904, 1974.

JAHODA, FRANZ C. (CTR-8)

KRISTAL, RICHARD (CTR-8)

LILLBERG, JOHN W. (CTR-8)

SEIBEL, FREDERICK T. (CTR-8)

10-10

DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLOSION HEATING EXPERIMENT.

TIC, 1974, 4P, MN (LA-UR-73-1752)

ALSO PUBLISHED IN:

ENGINEERING PROBLEMS OF FUSION RESEARCH, 1973, 5TH SYMPOSIUM, PRINCETON, NJ, PROC., P.664-6, IEEE, 1974, (537:S989EN 1973)

HAMMEL, JAY E. (Q-5)

HENINS, IVARS (Q-5)

MARSHALL, JOHN, JR. (Q-5)

SHERWOOD, ARTHUR R. (Q-5)

10-11
DESIGN OF THE SCYLLAC TOROIDAL THETA
PINCH EXPERIMENT

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.901, 1974.

RIBE, FRED L. (CTR-DO)
HARRIS, HARLAN W. (CTR-4)
KEMP, EDWIN L., JR. (CTR-4)
QUINN, WARREN E. (CTR-5)
SAWYER, GEORGE A. (CTR-DO)

10-12
DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN
CROWBAR SWITCH.

TIC, 1974, 16P, MN (LA-UR-73-1611)

ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, N.J. PROC., P.658-663, IEEE,
1974, (537-8989EN 1973)

DIKE, ROBERT S. (Q-4)
KEWISH, RALPH W., JR. (Q-4)

10-13
ELECTRIC BREAKDOWN OF POTENTIAL RTPR
(REFERENCE THETA PINCH REACTOR) FIRST
WALL MATERIALS.

TIC, 1974, 11P, MN (LA-UR-74-583)

ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.448-55, TIC,
1974, (CONF-740402-P2)

BUNCH, JAMES M. (CMB-5)
CLINARD, FRANK W., JR. (CMB-5)

10-14
EFFECT OF BERYLLIUM (N₂N) MULTIGROUP
TREATMENT ON THETA PINCH BLANKET
NUCLEONICS.

TIC, 1974, 14P, MN (LA-UR-74-608)

ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.172-84, TIC,
1974, (CONF-740402-P2)

SORAN, PATRICK D. (T-2)
DUDZIAK, DONALD J. (T-1)
MUIR, DOUGLAS W. (T-2)

10-15
EFFECTS OF FINITE BETA AND TEMPERATURE
ANISOTROPY ON THE MODIFIED TWO STREAM
INSTABILITY.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.957, 1974.

GLADD, N. THOMAS (CTR-6)

10-16
ELECTRICAL CONDUCTANCE OF A CONFINED ARC
DISCHARGE.

PHYS. FLUIDS, V.17, P.2116-23, 1974.

(LA-DC-72-838)*

ELLIOTT, C. JAMES (T-6)

10-17
ELECTRICAL INSULATOR STUDIES FOR THE
THETA PINCH FUSION REACTOR

ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.664,
1974.

CLINARD, FRANK W., JR. (CMB-5)
BUNCH, JAMES M. (CMB-5)

10-18
ENERGY AND PRESSURE BALANCE
CONSIDERATIONS IN Z PINCHES.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.636, 1974.

BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
HABERSTICH, ALBERT (CTR-2)
KARR, HUGH J. (CTR-2)
PHILLIPS, JAMES A. (CTR-6)

10-19
ENGINEERING DESIGN STUDY OF A REFERENCE
THETA PINCH REACTOR (RTPR).

NUCL. FUSION, V.14, SUPPL., P.99-149,
1974.

RIBE, FRED L. (Q-DO)
KRAKOWSKI, ROBERT A. (Q-DOT)
COULTAS, THOMAS A.
HATCH, A. J.

10-20
ENGINEERING DESIGN STUDY OF A REFERENCE
THETA PINCH REACTOR (RTPR). A JOINT
REPORT PREPARED FOR THE U. S. ATOMIC
ENERGY COMMISSION.

LASL, 1974, 137P, (ANL-8019) (LA-5336)

ABSTRACT PUBLISHED IN:
NUCL. FUSION, V.14, SUPPL., P.169,
1974.

KRAKOWSKI, ROBERT A. (Q-DOT)
RIBE, FRED L. (Q-DO)
COULTAS, THOMAS A.
HATCH, A. J.

10-21
ENGINEERING PROBLEMS OF FUSION RESEARCH.
REPORT ON THE FIFTH SYMPOSIUM HELD AT
PRINCETON, N. J., 5-9 NOVEMBER 1973.

NUCL. FUSION, V.14, P.277-80, 1974.

(LA-UR-74-157)*

KEMP, EDWIN L., JR. (Q-4)

10-22
ENVIRONMENTAL IMPACT STUDY OF A REFERENCE
THETA PINCH REACTOR (RTPR).

TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.564-77, TIC,
1974, (CONF-740402-P1)

DRALEY, J. E.
COULTAS, THOMAS A.
MARONI, V. A.
KRAKOWSKI, ROBERT A. (Q-DOT)

10-23
EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC)
STUDIES FOR A HIGH BETA TOKAMAK.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.642, 1974.

BAKER, DON A. (Q-2)
MANN, LAWRY W. (Q-6)

- 10-24
EQUILIBRIUM AND STABILITY OF $L = 1$
HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE
PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.938, 1974.
BERGE, GERHARD (CTR-6)
FREIDBERG, JEFFREY P. (CTR-6)
- 10-25
ERGONIC OPTIMIZATION AND PARAMETER STUDY
OF THE RTPR (REFERENCE THETA PINCH
REACTOR) BURN CYCLE.
TIC, 1974, 17P. MN (LA-UR-74-617)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.112-23, TIC,
1974, (CONF-740402-P1)
KRAKOWSKI, ROBERT A. (Q-DOT)
OLIPHANT, THOMAS A., JR. (Q-7)
THOMASSEN, KEITH I. (Q-7)
RIBE, FRED L. (Q-DO)
- 10-26
ESTIMATION OF LASER - PLASMA INTERACTIONS
IN THE SCYLLA 1-C THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.962, 1974.
YORK, THOMAS M.
MC KENNA, KENNETH F. (CTR-3)
- 10-27
EVALUATION OF MAJOR MATERIAL PROBLEMS
ANTICIPATED FOR THE REFERENCE THETA PINCH
REACTOR (RTPR).
TIC, 1974, 15P. MN (LA-UR-73-1653)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, N.J. PROC., P.189-202, IEEE,
1974, (537:S989EN 1973)
BUNCH, JAMES M. (CMB-5)
CLINARD, FRANK W., JR. (CMB-5)
DUDZIAK, DONALD J. (T-1)
GREEN, WALTER V. (CMB-8)
KRAKOWSKI, ROBERT A. (Q-DOT)
- 10-28
EXPERIMENTS IN THE STAGED THETA PINCH
EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.904, 1974.
THOMAS, KEITH S. (CTR-7)
DOWNING, JAMES N., JR. (CTR-7)
GRIBBLE, ROBERT F. (CTR-7)
LINFORD, RULON K. (CTR-7)
- 10-29
EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE
ENERGY CIRCUIT.
TIC, 1974, 7P. MN (LA-UR-73-1610)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, N.J. PROC., P.459-61, IEEE,
1974, (537:S989EN 1973)
HAARMAN, ROY A. (Q-4)
DIKE, ROBERT S. (Q-4)
HOLLEN, MILTON J. (Q-4)
- 10-30
FAST WAVE HEATING OF TOKAMAK PLASMAS.
ABSTRACT PUBLISHED IN:
SHERWOOD THEORY, 1972, MEETING, LOS
ALAMOS, NM. ABSTRACTS, P.A3, LASL,
1972, (539:554TA)
PERKINS, F. W.
KINDEL, JOSEPH M. (P-18)
- 10-31
FIRST WALL FLUXES IN A THETA PINCH
FEASIBILITY/DEUTERIUM - TRITIUM
EXPERIMENT.
TIC, 1974, 10P. MN (LA-UR-74-56)
ALSO PUBLISHED IN:
J. NUCL. MATER., V.53, P.48-53, 1974,
(LA-UR-74-56)*
THOMASSEN, KEITH I. (Q-7)
OLIPHANT, THOMAS A., JR. (Q-7)
- 10-32
FIRST WALL MATERIALS PROBLEMS IN FUSION
REACTORS.
TIC, 1974, 6P. MN (LA-UR-74-1206)
CLINARD, FRANK W., JR. (CMB-5)
- 10-33
FITWEIB: A PROGRAM TO FIT FAILURE DATA TO
WEIBULL PROBABILITY PARAMETERS.
LASL, 1974, 18P. (LA-5538)
BOICOURT, GRENFELL P. (Q-4)
- 10-34
FUSION ENGINEERING AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972,
SYMPOSIUM, AUSTIN, TX, PROC., P.831-
41, TIC, 1974, (CONF-721111)
(537:T255C)
KEMP, EDWIN L., JR. (P-16)
- 10-35
FUSION REACTOR APPLICATIONS OF THE HIGH
DENSITY LINEAR THETA PINCH.
TIC, 1974, 15P. MN (LA-UR-74-640)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.175-86, TIC,
1974, (CONF-740402-P1)
ELLIS, WILLIAM R., JR. (Q-3)
- 10-36
FUSION REACTOR NUCLEAR ANALYSIS METHODS
AND APPLICATIONS.
TIC, 1974, 24P. MN (LA-UR-74-883)
DUDZIAK, DONALD J. (T-1)
- 10-37
FUSION REACTORS AS FUTURE ENERGY
RESOURCES.
SCIENCE, V.186, P.397-407, 1974,
(LA-UR-74-676)*
POST, RICHARD F.
RIBE, FRED L. (CTR-DO)
- 10-38
FUSION REACTORS AS FUTURE ENERGY SOURCES.
TIC, 1974, 35P. MN (LA-UR-73-1684)
POST, RICHARD F.
RIBE, FRED L. (Q-DO)

- 10-39
HEAT TRANSFER THROUGH A REFERENCE THETA
PINCH REACTOR (RTPR) COOLING LAYER.
TIC, 1974, 10P. MN (LA-UR-74-61)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.677-84, TIC,
1974, (CONF-740402-P1)
OLIPHANT, THOMAS A., JR. (Q-7)
- 10-40
HIGH BETA TOKAMAK.
LASL, 1974, 8P. (LA-5476)
FREIDBERG, JEFFREY P. (Q-6)
MARSHALL, JOHN, JR. (Q-5)
SHERWOOD, ARTHUR R. (Q-5)
- 10-41
HIGH VOLTAGE TECHNOLOGY FOR THE LASL
IMPLOSION HEATING EXPERIMENT.
TIC, 1974, 4P. MN (LA-UR-73-1753)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.667-9, IEEE,
1974, (537:S989EN 1973)
HAMMEL, JAY E. (Q-5)
HENINS, IVARS (Q-5)
MARSHALL, JOHN, JR. (Q-5)
SHERWOOD, ARTHUR R. (Q-5)
- 10-42
HOLOGRAPHIC INTERFEROMETRY ON SCYLLAC.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.904, 1974.
KRISTAL, RICHARD (CTR-8)
- 10-43
HYBRID SIMULATION OF PINCH IMPLOSIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.937, 1974.
SGRO, ANTHONY G. (CTR-6)
NIELSON, CLAIR W. (CTR-6)
OLIPHANT, THOMAS A., JR. (CTR-7)
- 10-44
I(Z) CURRENT MEASUREMENTS IN THE SCYLLAC
TORUS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.903, 1974.
MACHALEK, MILTON D. (CTR-3)
CANTRELL, EMMETT L. (CTR-3)
ELLIS, WILLIAM R., JR. (CTR-3)
VAN DER LAAN, PIETER C. T.
- 10-45
IMPROVED STABILITY OF THE ZT-1 TOROIDAL
PINCH BY PROGRAMMING.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.642, 1974.
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
FORMAN, PETER R. (CTR-2)
HOWELL, ROBERT B. (CTR-2)
KARR, HUGH J. (CTR-2)
PHILLIPS, JAMES A. (CTR-2)
SCHOFIELD, ALDRED E. (CTR-2)
- 10-46
INDUCTIVE ENERGY STORAGE WITH CAPACITIVE
OR HOMOPOLAR TRANSFER.
TIC, 1974, 15P. MN (LA-UR-73-1576)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.444-6, IEEE,
1974, (537:S989EN 1973)
THOMASSEN, KEITH L. (Q-7)
- 10-47
INDUCTIVE MODEL FOR MULTIDIMENSIONAL
PLASMA SIMULATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.969, 1974.
NIELSON, CLAIR W. (CTR-6)
LEWIS, H. RALPH, JR. (CTR-6)
- 10-48
INFLUENCE OF INTENSE AC ELECTRIC FIELDS
ON THE ELECTRON - ION COLLISION RATE IN A
PLASMA.
PHYS. REV. LETTERS, V.33, P.1210-3,
1974, (LA-UR-74-1327)*
BROWNELL, JOHN H. (CTR-1)
DREICER, HARRY (CTR-1)
ELLIS, RICHARD F. (CTR-1)
INGRAHAM, JOHN C. (CTR-1)
- 10-49
JOULE LOSSES IN LINEAR THETA PINCHES:
LASER VS MAGNETIC HEATING.
TIC, 1973, 9P. MN (LA-UR-72-1580)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.247-51, IEEE,
1974, (537:S989EN 1973)
ELLIS, WILLIAM R., JR. (Q-3)
- 10-50
KINK INSTABILITIES IN A HIGH BETA
TOKAMAK WITH ELLIPTIC CROSS SECTION.
PHYS. FLUIDS, V.17, P.440-6, 1974,
(LA-UR-73-817)*
FREIDBERG, JEFFREY P. (Q-6)
HAAS, FREDERICK A. (Q-6)
- 10-51
KINK INSTABILITIES IN ARBITRARY CROSS
SECTION PLASMAS.
PHYS. FLUIDS, V.17, P.634-9, 1974,
(LA-UR-73-979)*
MARDER, BARRY M. (Q-6)
- 10-52
KINK INSTABILITIES IN THE BELT PINCH.
PHYS. FLUIDS, V.17, P.447-51, 1974,
(LA-UR-73-806)*
MARDER, BARRY M. (Q-6)

- 10-53
LASER FUSION POWER PLANT SYSTEMS ANALYSIS.
TIC, 1974, 17P. MN (LA-UR-74-580)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR FUSION, 1974, 1ST TOPICAL MEETING, SAN DIEGO, PROC., V.1, P.142-53, TIC, 1974, (CONF-740402-P1)
FINCH, FRANCIS T. (L-5)
KERN, EDWARD A. (L-5)
WILLIAMS, JAMES M. (L-5)
- 10-54
LASER IMPLSION HEATING EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.904, 1974.
HAMMEL, JAY E. (CTR-5)
HENINS, IVARS (CTR-5)
JARBOE, THOMAS R. (CTR-5)
MARSHALL, JOHN, JR. (CTR-5)
SHERWOOD, ARTHUR R. (CTR-5)
- 10-55
MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (PTR).
LASL, 1974, 28P. (LA-5748-MS)
ROGERS, JOHN D., JR. (CTR-9)
SWANNACK, CLARKE E. (CTR-9)
THOMASSEN, KEITH L. (CTR-7)
WELDON, DAVID M. (CTR-9)
- 10-56
MAGNETIC FIELD PROGRAMMING IN ZT-1.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.936, 1974.
DI MARCO, JOSEPH N. (CTR-2)
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
KARR, HUGH J. (CTR-2)
- 10-57
MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.
TIC, 1974, 6P. MN (LA-UR-74-652)
GREEN, WALTER V. (CMB-8)
YESKE, RONALD A. (CMB-8)
- 10-58
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.
PHYS. REV. LETTERS, V.32, P.409-12, 1974, (LA-UR-73-1844)*
MC KENNA, KENNETH F. (Q-3)
KRISTAL, RICHARD (Q-3)
THOMAS, KEITH S. (Q-7)
- 10-59
MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA.
ABSTRACT PUBLISHED IN:
SHERWOOD THEORY, 1972, MEETING, LOS ALAMOS, NM, ABSTRACTS, P.4, LASL, 1972, (539:554TA)
FREIDBERG, JEFFREY P. (P-18)
MARDER, BARRY M. (P-18)
- 10-60
MIXED SNOWFLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.
NUCL. FUSION, V.14, P.377-82, 1974.
OLIPHANT, THOMAS A., JR. (Q-7)
- 10-61
MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.
TIC, 1974, 7P. MN (LA-UR-74-43)
ALSO PUBLISHED IN:
J. NUCL. MATER., V.53, P.62-5, 1974.
OLIPHANT, THOMAS A., JR. (Q-7)
- 10-62
NUMERICAL STUDY OF THE ROTATING THETA PINCH.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.944-5, 1974.
BRACKBILL, JEREMIAH U. (T-3)
- 10-63
OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.975-6, 1974.
THOMSON, DAVID B. (P-3)
MC BROOM, ROBERT C. (P-3)
- 10-64
ON CTR BREAKEVEN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES.
LASL, 1974, 7P. (LA-5640-MS)
FREIHALD, DAVID A. (L-5)
GERWIN, RICHARD A. (CTR-6)
- 10-65
PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.
TIC, 1973, 23P. MN (LA-DC-72-1397)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR FUSION EXPERIMENTS AND THE ENGINEERING ASPECTS OF FUSION REACTORS, 1972, SYMPOSIUM, AUSTIN, TX, PROC., P.160-76, TIC, 1974, (CONF-721111)
(537:T255C)
BURNETT, SIBLEY C. (P-15)
ELLIS, WILLIAM R., JR. (P-15)
RIBE, FRED L. (P-CTR)
- 10-66
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.
TIC, 1974, 25P. MN (LA-UR-73-1593)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION RESEARCH, 1973, 5TH SYMPOSIUM, PRINCETON, NJ, PROC., P.432-43, IEEE, 1974, (537:S989EN 1973)
ROGERS, JOHN D., JR. (Q-26)
BAKER, BRUCE L. (Q-26)
WELDON, DAVID M. (Q-7)

- 10-67
PARAMETRIC INSTABILITIES AT LOW
FREQUENCIES ABOVE THE LOWER HYBRID.
ABSTRACT PUBLISHED IN:
SHERWOOD THEORY, 1972, MEETING, LOS
ALAMOS, NM. ABSTRACTS, P.C8, LASL,
1972, (539:554TA)
KINDEL, JOSEPH M. (P-18)
OKUDA, H.
- 10-68
PARAMETRIC INSTABILITIES OF WHISTLERS.
ABSTRACT PUBLISHED IN:
SHERWOOD THEORY, 1972, MEETING, LOS
ALAMOS, NM. ABSTRACTS, P.C7, LASL,
1972, (539:554TA)
FORSLUND, DAVID W. (P-18)
KINDEL, JOSEPH M. (P-18)
LINDMAN, ERICK L. (J-10)
- 10-69
PHYSICS PROBLEMS OF THERMONUCLEAR
REACTORS.
TIC, 1974, 20P, MN (LA-UR-74-280)
RIBE, FRED L. (Q-DO)
- 10-70
PHYSICS PROBLEMS OF THERMONUCLEAR
REACTORS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.85-6, 1974.
RIBE, FRED L. (Q-DO)
- 10-71
PLASMA COLUMN MOTION IN THE SCYLLAC
TORUS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.903, 1974.
CANTRELL, EMMETT L. (CTR-3)
KRISTAL, RICHARD (CTR-8)
MACHALEK, MILTON D. (CTR-3)
MC CONNELL, JOHN R. (CTR-3)
QUINN, WARREN E. (CTR-3)
- 10-72
PLASMA EQUILIBRIUM AND STABILITY IN THE
SCYLLAC TOROIDAL SECTOR EXPERIMENTS.
NUCL. FUSION, V.14, P.841-63, 1974.
(LA-UR-74-1341)*
ELLIS, WILLIAM R., JR. (CTR-3)
JAHODA, FRANZ C. (CTR-8)
KRISTAL, RICHARD (CTR-8)
QUINN, WARREN E. (CTR-3)
RIBE, FRED L. (CTR-DO)
SAWYER, GEORGE A. (CTR-DO)
SIEMON, RICHARD E. (CTR-8)
- 10-73
PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC
THETA PINCH.
PHYS. FLUIDS, V.17, P.1314-21, 1974.
(LA-UR-73-1460)*
THOMAS, KEITH S. (Q-7)
HARRIS, HARLAN W. (Q-4)
JAHODA, FRANZ C. (Q-3)
SAWYER, GEORGE A. (Q-3)
SIEMON, RICHARD E. (Q-3)
- 10-74
POTENTIAL FATIGUE PROBLEMS IN FIRST WALL
LASER CONTROLLED FUSION REACTORS.
LASL, 1974, 10P. (LA-5664-MS)
WEERTMAN, JOHANNES (CMB-8)
- 10-75
PREDICTION OF FAILURES IN CTR SYSTEMS.
TIC, 1971, 6P, MN (LA-UR-73-1612)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.308-13, IEEE,
1974, (537:S989EN 1973)
BOICOURT, GRENFELL P. (Q-4)
- 10-76
PRELIMINARY L(1,0) FEEDBACK FORCE
EXPERIMENTS ON SCYLLA IV 3.
LASL, 1974, 4P. (LA-5788-MS)
ELLIS, WILLIAM R., JR. (CTR-3)
GRIBBLE, ROBERT F. (CTR-3)
HARDER, CARROLL R. (CTR-3)
- 10-77
PRESENT STATUS AND FUTURE PROGRAM OF THE
ZT 1 EXPERIMENT.
LASL, 1974, 32P. (LA-5530-SR)
PHILLIPS, JAMES A. (Q-6) COMP.
DI MARCO, JOSEPH N. (Q-2) COMP.
JAHODA, FRANZ C. (Q-3) COMP.
- 10-78
PRESSURE BALANCE LIMITATIONS IN Z PINCHES
WITH DIFFUSION HEATING.
PHYS. REV. LETTERS, V.32, P.202-5,
1974, (LA-UR-73-1817)*
BAKER, DON A. (Q-6)
PHILLIPS, JAMES A. (Q-2)
- 10-79
PROGRESS REPORT, LASL CONTROLLED
THERMONUCLEAR RESEARCH PROGRAM FOR A 12
MONTH PERIOD ENDING DECEMBER 1973.
LASL, 1974, 19UP. (LA-5656-PR)
KATZ, MAURICE J. (CTR-DO) COMP.
- 10-80
PROJECT MANAGEMENT OF SCYLLAC.
TIC, 1974, 8P, MN (LA-UR-74-61)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.286-90, IEEE,
1974, (537:S989EN 1973)
HARRIS, HARLAN W. (Q-4)
KEMP, EDWIN L., JR. (Q-4)
RIBE, FRED L. (Q-DO)
QUINN, WARREN E. (Q-3)
- 10-81
PROSPECTS FOR CONVERTING THORIUM -232 -
URANIUM -233 IN A LINEAR THETA PINCH.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.6,
1974.
THOMASSEN, KEITH L. (CTR-7)
KRAKOWSKI, ROBERT A. (CTR-7)
OLIPHANT, THOMAS A., JR. (CTR-7)
BOSLER, GERALD E. (T-1)
DUDZIAK, DONALD J. (T-1)

- 10-82
RADIAL PLASMA STRUCTURE OF THE SCYLIA 1-B
THETA PINCH IMPLSION: FLUTE
INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.904, 1974.
MC KENNA, KENNETH F. (CTR-3)
KRISTAL, RICHARD (CTR-8)
ZIMMERMANN, EUGENE L. (CTR-3)
- 10-83
REVERSIBLE MAGNETIC ENERGY TRANSFER AND
STORAGE SYSTEMS.
TIC, 1973, 23P. MN (LA-DC-72-1325)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972.
SYMPOSIUM, AUSTIN, TX. PROC., P.208.
25, TIC, 1974. (CONF-721111) (537:T255C)
THOMASSEN, KEITH L. (P.15)
- 10-84
REVIEW OF SFX/FTR FIRST WALL RESEARCH AND
DEVELOPMENT PROGRAM AT LASL.
TIC, 1974, 13P. MN (LA-UR-74-628)
KRAKOWSKI, ROBERT A. (CTR-7)
THOMASSEN, KEITH L. (CTR-7)
- 10-85
SCALING LAWS FOR THE LINEAR THETA PINCH.
2. CIRCULATING POWER IN A HIGH FIELD
REACTOR.
LASL, 1974, 14P. (LA-5499-MS)
ELLIS, WILLIAM R., JR. (Q-3)
- 10-86
SCYLLAC FEEDBACK STABILIZATION SYSTEM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.904, 1974.
MILLER, GUTHRIE (CTR-3)
KRISTAL, RICHARD (CTR-8)
KUTAC, KENNETH J. (CTR-4)
GRIBBLE, ROBERT F. (CTR-7)
- 10-87
SCYLLAC MHD (MAGNETOHYDRODYNAMIC)
FEEDBACK SYSTEM.
TIC, 1973, 15P. MN (LA-DC-72-1389)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972.
SYMPOSIUM, AUSTIN, TX. PROC., P.601-9.
TIC, 1974. (CONF-721111) (537:T255C)
GRIBBLE, ROBERT F. (P.15)
- 10-88
SCYLLAC THETA PINCH EXPERIMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.90, 1974.
THOMAS, KEITH S. (Q-7)
- 10-89
SEMIEMPIRICAL CABLE DESIGN.
LASL, 1974, 8P. (LA-5691)
BOICOURT, GRENFELL P. (CTR-4)
- 10-90
SENSITIVITY OF NEUTRON MULTIGROUP CROSS
SECTIONS TO THERMAL BROADENING OF THE
FUSION PEAK.
TIC, 1974, 8P. MN (LA-UR-74-613)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.166-71, TIC,
1974. (CONF-740402-P2)
MUIR, DOUGLAS W. (T-2)
- 10-91
SENSITIVITY OF RTPR (REFERENCE THETA
PINCH REACTOR) AFTERHEAT AND
RADIOACTIVITY TO NIOBIUM -94 CROSS
SECTION UNCERTAINTY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.465,
1974.
MUIR, DOUGLAS W. (T-2)
DUDZIAK, DONALD J. (T-1)
- 10-92
SHOCK HEATING AND STAGING CIRCUIT FOR FTR
(FUSION TEST REACTOR) TEST MODULE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.937, 1974.
GRIBBLE, ROBERT F. (CTR-7)
LINFORD, RUFON K. (CTR-7)
BOICOURT, GRENFELL P. (CTR-4)
- 10-93
STABILITY ANALYSIS OF BGK WAVES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.924, 1974.
SYMON, KEITH R.
LEWIS, H. RALPH, JR. (CTR-6)
- 10-94
STABILITY ANALYSIS OF INHOMOGENEOUS
PLASMA EQUILIBRIA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.924, 1974.
LEWIS, H. RALPH, JR. (CTR-6)
SYMON, KEITH R.
- 10-95
STABILITY OF A FINITE BETA $L = 2$
STELLARATOR.
ABSTRACT PUBLISHED IN:
SHERWOOD THEORY, 1972, MEETING, LOS
ALAMOS, NM. ABSTRACTS, P.C5, LASL,
1972. (539:554TA)
FREIDBERG, JEFFREY P. (P.18)
- 10-96
STABILITY OF DIFFUSE HIGH BETA HELICAL
SYSTEMS.
NUCL. FUSION, V.14, P.809-20, 1974.
(LA-UR-74-985)*
FREIDBERG, JEFFREY P. (CTR-6)
MARDER, BARRY M. (CTR-6)
WEITZNER, HAROLD (CTR-6)

- 10-97
STABILITY OF THE ZT-1 TOROIDAL Z PINCH AT
REDUCED TOROIDAL CURRENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.936-7, 1974.
HABERSTICH, ALBERT (CTR-2)
BAKER, DON A. (CTR-2)
BURKHARDT, LOUIS C. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
KARR, HUGH J. (CTR-2)
- 10-98
STAGED THETA PINCHES WITH IMPLOSION
HEATING.
TIC, 1973, 27P. MN (LA-DC-72-1400)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972.
SYMPOSIUM, AUSTIN, TX. PROC., P.812-
30, TIC, 1974. (CONF-721111)
(537:T255C)
FREIDBERG, JEFFREY P. (P-18)
MORSE, RICHARD L. (T-6)
RIBE, FRED L. (P-DO)
- 10-99
STUDY OF CAPACITIVE ENERGY STORAGE FOR A
THETA PINCH PTR COMPRESSION COIL.
TIC, 1974, 8P. MN (LA-UR-74-71)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, N.J. PROC., P.303-7, IEEE,
1974. (537:S989EN 1973)
KEMP, EDWIN L., JR. (Q-4)
- 10-100
SUPPLEMENT TO PROPOSAL FOR THE
CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT
STUDIES THETA PINCH.
LASL, 1974, 10P. (LA-5474-P, SUPPL.)
ELLIS, WILLIAM R., JR. (CTR-3)
FREIDBERG, JEFFREY P. (CTR-6)
QUINN, WARREN E. (CTR-3)
- 10-101
SURFACE EFFECTS AT THE FIRST WALL OF THE
REFERENCE THETA PINCH REACTOR (RTPR).
TIC, 1974, 11P. MN (LA-UR-74-42)
ALSO PUBLISHED IN:
J. NUCL. MATER., V.53, P.54-61, 1974.
KRAKOWSKI, ROBERT A. (Q-DOT)
CLINARD, FRANK W., JR. (CMB-5)
RIBE, FRED L. (Q-DO)
COULTAS, THOMAS A.
- 10-102
SURVEY OF A 210 KJ DENSE PLASMA FOCUS
(DPF 6).
LASL, 1974, 13P. (LA-5635-MS)
FREIWALD, DAVID A. (L-5)
DOWNING, JAMES N., JR. (CTR-7)
- 10-103
TECHNICAL ASSESSMENT OF A REFERENCE
THETA PINCH REACTOR (RTPR).
TIC, 1974, 40P. MN (LA-UR-74-870)
KRAKOWSKI, ROBERT A. (CTR-7)
THOMASSEN, KEITH I. (CTR-7)
COULTAS, THOMAS A.
- 10-104
TEMPERATURE MEASUREMENTS ON ZT-1.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.936, 1974.
HOWELL, ROBERT B. (CTR-2)
DI MARCO, JOSEPH N. (CTR-2)
FORMAN, PETER R. (CTR-8)
KARR, HUGH J. (CTR-2)
- 10-105
THEORY AND SIMULATION OF HIGHER ORDER
CYCLOTRON DAMPING.
PHYS. FLUIDS, V.17, P.1428-31, 1974.
(LA-UR-73-1141)*
GITOMER, STEVEN J. (Q-6)
FORSLUND, DAVID W. (T-6)
- 10-106
THE Z PINCH FTR (FUSION TEST REACTOR)
TEST MODULE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.937, 1974.
LINFORD, RULON K. (CTR-7)
HANKS, KENNETH W. (CTR-4)
THOMASSEN, KEITH I. (CTR-DO)
- 10-107
THOMSON SCATTERING ON SCYLLAC.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.903-4, 1974.
SIEMON, RICHARD E. (CTR-8)
CHANDLER, GEORGE I. (CTR-8)
LILLBERG, JOHN W. (CTR-8)
SEIBEL, FREDERICK T. (CTR-8)
- 10-108
TOROIDAL KINK MODE STABILITY OF A FINITE
BETA, ARBITRARY CROSS SECTION, TOKAMAK
PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.941, 1974.
FREIDBERG, JEFFREY P. (CTR-6)
GROSSMANN, WILLIAM, JR. (CTR-6)
- 10-109
TRANSFORMER FOR INJECTION EXPERIMENTS.
LASL, 1974, 5P. (LA-5673-MS)
SIEMON, RICHARD E. (CTR-8)
- 10-110
TRANSMISSION SPECTROSCOPY OF LASEP
PRODUCED PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.887, 1974.
GODWIN, ROBERT P. (L-4)
GIOVANELLI, DAMON V. (L-4)
MC CALL, GENE H. (L-4)
- 10-111
TRANSMUTATION AND ATOM DISPLACEMENT RATES
IN A REFERENCE THETA PINCH REACTOR
(RTPR).
TIC, 1974, 26P. MN (LA-UR-74-611)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.114-35, TIC,
1974. (CONF-740102-P2)
DUDZIAK, DONALD J. (T-1)

10-112
TWO SPECIES VLASOV CONFINEMENT
EQUILIBRIA.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.905, 1974.
HEWETT, DENNIS W. (CTR-6)
NIELSON, CLAIR W. (CTR-6)

10-113
TWO STREAM INSTABILITY STUDIED WITH FOUR
ONE DIMENSIONAL PLASMA SIMULATION MODELS.
J. COMPUTAT. PHYS., V.14, P.193-9,
1974.

BROWN, D. I.
GITOMER, STEVEN J. (Q-6)
LEWIS, H. RALPH, JR. (Q-6)

10-114
UPDATE OF FIRST WALL INSULATOR
REQUIREMENTS FOR THE REFERENCE THETA
PINCH REACTOR (RTPR). (A SUMMARY REVIEW
OF MATERIAL REPORTED SINCE APRIL 1973).

TIC, 1974, 33P. MN (LA-UR-74-627)
KRAKOWSKI, ROBERT A. (CTR-7)
CLINARD, FRANK W., JR. (CMB-5)

10-115
VACUUM ULTRAVIOLET EMISSION FROM A NEON
SEEDED THETA PINCH.

LASL, 1974, 17P. (LA-5466-MS)
THOMSON, DAVID B. (P-3)
BAILEY, ARTHUR G. (Q-4)
ENGLEMAN, ROLF, JR. (CMB-1)

10-116
VUV EMISSION FROM ARGON, KRYPTON, AND
XENON IN A RADIAL VIEWED THETA PINCH.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.892, 1974.
ENGLEMAN, ROLF, JR. (CMB-1)
THOMSON, DAVID B. (P-3)
MONAGHAN, DENNIS A. (ENG-7)

11. EARTH SCIENCE AND ENGINEERING

11-1
AIR VOLUME AND ENERGY TRANSFER THROUGH
TEST HOLES AND ATMOSPHERIC PRESSURE
EFFECTS ON THE MAIN AQUIFER.

LASL, 1974, 14P. (LA-5725-MS)
PUTTYMUN, WILLIAM D. (H-8)
KOOPMAN, F. C.
BARR, SUMNER (H-8)
CLEMENTS, WILLIAM E. (H-8)

11-2
APPLICATION OF THICK FILM AND BULK
COATING TECHNOLOGY TO THE SUBTERRENE
PROGRAM.

TIC, 1974, 21P. MN (LA-UR-74-20)
ALSO PUBLISHED IN:
J. VACUUM SCI. TECH., V.11, P.802-5,
1974. (LA-UR-74-20)*
STARK, WALTER A., JR. (CMB-3)
WALLACE, TERRY C. (CMB-3)
WITTEMAN, WILLARD G. (CMB-3)
KRUPKA, MILTON C. (CMB-3)
DAVID, WALTER R. (CMB-3)
RADOSEVICH, CHARLES L. (CMB-3)

11-3
ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT
VOLCANIC ROCK.

TIC, 1974, 13P. MN (LA-UR-73-1695)
ALSO PUBLISHED IN:
UTILIZATION OF VOLCANO ENERGY, 1974,
UNITED STATES-JAPAN COOPERATIVE
SCIENCE SEMINAR, HILO, HI. PROC.,
P.415-30, SANDIA LABORATORIES, 1974.
(551:U89V)
AAMODT, R. LEE (Q-22)

11-4
CONCEPTUAL DESIGN OF A CORING SUBTERRENE
GEOPROSPECTOR.

LASL, 1974, 14P. (LA-5517-MS)
NEUDECKER, JOSEPH W. (Q-23)

11-5
DEVELOPMENT OF A MOBILE ROCK MELTING
SUBTERRENE FIELD UNIT FOR UNIVERSAL
EXTRUDING PENETRATORS.

LASL, 1974, 8P. (LA-5573-MS)
GRIGGS, JAMES E. (Q-23)

11-6
DILATATION AND THE SLIP-PATCH HYPOTHESIS.
ABSTRACT PUBLISHED IN:

EOS, V.55, P.1196, 1974.
BRIDWELL, RICHARD J. (J-9)

11-7
EQUILIBRIUM TEMPERATURE MEASUREMENTS IN
CRYSTALLINE ROCKS.

ABSTRACT PUBLISHED IN:
EOS, V.55, P.1192, 1974.
ALBRIGHT, JAMES N. (Q-22)

11-8
EXPERIMENTAL MEASUREMENT OF IN-SITU
STRESS IN GRANITE BY HYDRAULIC
FRACTURING.

LASL, 1974, 4P. (LA-5605-MS)
AAMODT, R. LEE (Q-22)

11-9
GEOLOGY OF GEOTHERMAL TEST HOLE GT-2,
FENTON HILL SITE, JULY 1974.

LASL, 1974, 15P. (LA-5780-MS)
PUTTYMUN, WILLIAM D. (H-8)
WEST, FRANCIS G. (Q-22)
PETTITT, ROLAND A. (Q-22)

11-10
GEOTHERMAL ENERGY. (TESTIMONY)

TIC, 1974, 9P. MN (LA-UR-73-1316)
ALSO PUBLISHED IN:
GEOTHERMAL ENERGY, HEARINGS,
SUBCOMMITTEE ON ENERGY, COMM. ON
SCIENCE AND ASTRONAUTICS, U. S. HOUSE
OF REPRESENTATIVES, 93RD CONGRESS,
FIRST SESSION, SEP. 11-18, 1973.
P.110-25. (328:C93:1 73-115)
SMITH, MORTON C. (Q-22)

11-11
GEOTHERMAL ENERGY: A NEW APPLICATION OF
ROCK MECHANICS?

TIC, 1974, 15P. MN (LA-UR-74-821)
ROEGERS, JEAN-CLAUDE (Q-26)
BROWN, DONALD W. (Q-22)

11-12
GEOTHERMAL POWER.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER. 2, V.19,
P.98, 1974.
SMITH, MORTON C. (Q-22)

11-13
GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL
APPLICATIONS OF SUBTERRENE DEVICES: A
STATUS REVIEW.

LASL, 1974, 30P. (LA-5689-MS)
ALTSEIMER, JOHN H. (Q-23)

11-11
HEAT TRANSFER AND THERMAL TREATMENT
PROCESSES IN SUBTERRENE PRODUCED GLASS
HOLE LININGS.

LASL, 1974, 13P. (LA-5502-MS)
STANTON, ALAN C. (Q-23)

11-15
IMPORTANCE OF THE PERMEABILITY FACTOR IN
IN SITU STRESS DETERMINATIONS.

ABSTRACT PUBLISHED IN:
EOS, V.55, P. 425, 1974.
ROEGHERS, JEAN-CLAUDE (Q-26)

11-16
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC
LABORATORY IN THE TRANSFER OF A NEW
EXCAVATION TECHNOLOGY.

TIC, 1974, 12P. MN (LA-UR-74-1328)
HANOLD, ROBERT J. (Q-23)
BANKSTON, CHARLES A., JR. (Q-23)
ROWLEY, JOHN C. (Q-23)
LONG, W. W.

11-17
INSTRUMENTATION FOR GRANITE TEST NO. 1.

LASL, 1974, 11P. (LA-5626-MS)
DENNIS, BERT R. (Q-22)
POTTER, ROBERT M. (Q-22)

11-18
INSTRUMENTATION FOR GRANITE TEST NO. 1.

TIC, 1974, 23P. MN (LA-UR-74-503)
DENNIS, BERT R. (Q-22)
POTTER, ROBERT M. (Q-22)

11-19
LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY
ROCK GEOTHERMAL ENERGY PROGRAM.

ENERGY CRISIS, 1973, SYMPOSIUM,
ALBUQUERQUE, PAPERS, P.106-7, NEW
MEXICO BUREAU OF MINES AND MINERAL
RESOURCES, 1974, (CE3:E56CR)
AAMODT, R. LEE (Q-22)

11-20
NUMERICAL MODEL OF EDGE WAVE GENERATION
FOR A DISTURBANCE NEAR A SHORELINE.

ABSTRACT PUBLISHED IN:
EOS, V.55, P.307, 1974.
OLSEN, KENNETH H. (J-9)
STEWART, JOHN N., JR. (J-9)
HWANG, LI-SAN

11-21
NUMERICAL SOLUTION OF MELT FLOW AND
THERMAL ENERGY TRANSFER FOR THE
LITHOTHERMODYNAMICS OF A ROCK MELTING
PENETRATOR.

LASL, 1974, 20P. (LA-5608-MS)
MC FARLAND, ROBERT D. (Q-22)

11-22
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL
ENERGY IN THE WESTERN UNITED STATES.

TIC, 1974, 22P. MN (LA-UR-73-1075)
BROWN, DONALD W. (Q-22)

11-23
POTENTIAL FOR THE PRODUCTION OF POWER
FROM GEOTHERMAL RESOURCES.

TIC, 1974, 18P. MN (LA-UR-73-926)
SMITH, MORTON C. (Q-22)

11-24
PROCEEDINGS OF THE NATO CCMS INFORMATION
MEETING ON DRY HOT ROCK GEOTHERMAL
ENERGY, SEPTEMBER 17-19, 1974, LOS
ALAMOS, NEW MEXICO.

LASL, 1974, 40P. (LA-5818-C)
TESTER, JEFFERSON W. (Q-22)

11-25
RESULTS FROM HYDRAULIC FRACTURING
EXPERIMENTS IN DEEP CRYSTALLINE ROCK.
ABSTRACT PUBLISHED IN:

EOS, V.55, P.425, 1974.
BROWN, DONALD W. (Q-22)

11-26
ROCK MELTING APPLIED TO EXCAVATION
TUNNELING.

TIC, 1974, 8P. MN (LA-UR-74-26)
ROWLEY, JOHN C. (Q-23)

11-27
ROCK MELTING SUBTERRENESES: THEIR ROLE IN
FUTURE EXCAVATION TECHNOLOGY.

TIC, 1974, 20P. MN (LA-UR-74-728)
ROWLEY, JOHN C. (Q-23)
HANOLD, ROBERT J. (Q-23)
BANKSTON, CHARLES A., JR. (Q-23)
NEUDECKER, JOSEPH W. (Q-23)

11-28
SEISMIC AND FLUID PRESSURE RESPONSE FROM
A SERIES OF HYDRAULIC FRACTURES IN
GRANITE.

ABSTRACT PUBLISHED IN:
EOS, V.55, P.430, 1974.
POTTER, ROBERT M. (Q-22)
DENNIS, BERT R. (Q-22)

11-29
SELECTED PHYSICO-CHEMICAL PROPERTIES OF
BASALTIC ROCKS, LIQUIDS, AND GLASSES.

LASL, 1974, 10P. (LA-5540-MS)
KRUPKA, MILTON C. (CMB-3)

11-30
SUBTERRENE ELECTRICAL HEATER DESIGN AND
MORPHOLOGY.

LASL, 1974, 29P. (LA-5211-MS)
ARMSTRONG, PHILIP E. (CMB-8)

11-31
SUBTERRENE INSTRUMENTATION REQUIREMENTS.

TIC, 1973, 6P. MN (LA-UR-73-459)
ALSO PUBLISHED IN:
ISA TRANS., V.13, P.199-201, 1974.
(LA-UR-73-459)*
NEUDECKER, JOSEPH W. (Q-23)

11-32
SUBTERRENE ROCK MELTING EXCAVATION
PROGRAM.

TIC, 1974, 19P. MN (LA-UR-74-801)
HANOLD, ROBERT J. (Q-23)

11-33
VISCIOUS MELT FLOW AND THERMAL ENERGY
TRANSFER FOR A ROCK MELTING PENETRATOR:
LITHOTHERMODYNAMICS.

TIC, 1974, 17P. MN (LA-UR-74-328)
MC FARLAND, ROBERT D. (Q-22)
HANOLD, ROBERT J. (Q-23)

11-34
WATER SUPPLY AT LOS ALAMOS DURING 1973.
LASL, 1974, 30P. (LA-5636-MS)
PURTYMUN, WILLIAM D. (H-8)
HERCEG, JOSEPH E. (H-8)

12. ENERGY (NONNUCLEAR)

- 12-1
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE
ABSORPTION, DEHUMIDIFICATION AND SOLAR
RANKINE COOLING SYSTEM OPTIONS FOR A
66000 SQUARE FOOT BUILDING IN LOS ALAMOS,
NEW MEXICO.
TIC, 1974. 26P. MN (LA-UR-74-1062)
HEDSTROM, JAMES C. (Q-DOT)
BALCOMB, J. DOUGLAS (Q-DOT)
MECKLER, GERSHON (ENG-DO)
- 12-2
CONTROL SYSTEM DESIGN AND SIMULATION FOR
SOLAR HEATED STRUCTURES.
TIC, 1974. 29P. MN (LA-UR-74-1085)
MURRAY, HUGH S. (E-4)
HAFFER, JOHN F. (E-4)
SHIPLEY, JAMES P., JR. (E-DOR)
SPRINGER, THOMAS E. (E-4)
BALCOMB, J. DOUGLAS (Q-DOT)
HEDSTROM, JAMES C. (Q-DOT)
- 12-3
DESIGN AND TESTING OF A STRUCTURALLY
INTEGRATED STEEL SOLAR COLLECTOR UNIT
BASED ON EXPANDED FLAT METAL PLATES.
TIC, 1974. 35P. MN (LA-UR-74-1093)
MOORE, STANLEY W. (Q-DOT)
BALCOMB, J. DOUGLAS (Q-DOT)
HEDSTROM, JAMES C. (Q-DOT)
- 12-4
LONG RANGE CONSIDERATIONS AND
POSSIBILITIES OF A HYDROGEN ECONOMY.
TIC, 1974. 10P. MN (LA-UR-74-528)
EDES-KUTY, FREDERICK J. (Q-26)
- 12-5
MODELING AND HYBRID SIMULATION OF SOLAR
ENERGY SYSTEMS.
TIC, 1974. 9P. MN (LA-UR-74-1604)
MURRAY, HUGH S. (E-4)
- 12-6
RESEARCH ON INTEGRATED SOLAR COLLECTOR
ROOF STRUCTURES. PROGRESS REPORT FOR THE
PERIOD APRIL 1 TO JUNE 30, 1974.
LASL, 1974. 24P. (LA-5859-PR)
BALCOMB, J. DOUGLAS (Q-DOT)
HEDSTROM, JAMES C. (Q-DOT)
MOORE, STANLEY W. (Q-DOT)

13. ENGINEERING AND EQUIPMENT

- 13-1
BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES.
LASL, 1974. 3P. (LA-5766-MS)
CLAYTON, RICHARD D. (P-11)
- 13-2
COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.
REMOTE SYSTEMS TECHNOLOGY, 1973. 21ST CONFERENCE, SAN FRANCISCO. PROC., P.113. ANS, 1973. (628-H832C 21ST)
LAZARUS, MICHAEL E. (CMB-14)
MASON, PIPER A., JR. (CMB-14)
- 13-3
COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL.
ABSTRACT PUBLISHED IN:
PACKAGING AND TRANSPORTATION OF RADIOACTIVE MATERIALS, 1974. 4TH INTERNATIONAL SYMPOSIUM, MIAMI BEACH. PROC., V.1, P.261. USAEC, 1974. (CONF-740901-P1)
FUKA, LOUIS R. (ENG-7)
- 13-4
FAILURE OF COOLING TOWER LOB-CT-1.
LASL, 1974. 8P. (LA-5508-MS)
MIDKIFF, WILLIAM S. (ENG-7)
- 13-5
FIBER OPTIC SECURITY SEAL.
FILED 1973. PATENTED DEC.17, 1974. (U. S. PATENT 3,854,792)
KOELE, ALFRED R. (E-3)
- 13-6
FISSION GAS AND VOID VOLUME MEASURING SYSTEM.
REMOTE SYSTEMS TECHNOLOGY, 1973. 21ST CONFERENCE, SAN FRANCISCO. PROC., P.11-3. ANS, 1973. (628-H832C 21ST)
LAZARUS, MICHAEL E. (CMB-14)
- 13-7
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.
PACKAGING AND TRANSPORTATION OF RADIOACTIVE MATERIALS, 1974. 4TH INTERNATIONAL SYMPOSIUM, MIAMI BEACH. PROC., V.1, P.277-90. USAEC, 1974. (CONF-740901-P1)
ANDRAE, RICHARD W. (ENG-7)
- 13-8
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.
LASL, 1974. 7P. (LA-5808-PR)
ANDRAE, RICHARD W. (ENG-7)
- 13-9
KILOTON SHIELD DOORS AT LAMPE.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.428-9, 1974.
WILSON, MAHLON T. (MP-7)
- 13-10
LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE.
TIC, 1974. 5P. MN (LA-UR-73-1362)
MC DONALD, THOMAS E. (E-5)
KERR, EUGENE C. (Q-26)
TRELA, WALTER J. (Q-26)
- 13-11
LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION.
LASL, 1974. PAGED IN SECTIONS. (LA-5220-M)
ENGINEERING DEPARTMENT PERSONNEL
- 13-12
MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.
TIC, 1974. 14P. MN (LA-UR-73-1604)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION RESEARCH, 1973. 5TH SYMPOSIUM, PRINCETON, NJ. PROC., P.475-8. IEEE, 1974. (537:S989EN 1973)
BANTA, JAMES J. (ENG-7)
HAMMER, CHARLES F. (Q-4)
- 13-13
OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.
TIC, 1974. 5P. MN (LA-UR-74-761)
ORR, HUGH D. (ENG-8)
FORREST, ROBERT P., JR. (ENG-8)
STUTZ, ROGER A. (ENG-8)

13-14

PERFORMANCE TESTS OF GRAVITY ASSIST HEAT
PIPES WITH SCREEN WICK STRUCTURES.

TIC, 1974, 17P. MN (LA-UR-74-212)

KEMME, JOSEPH E. (Q-25)

DEVERALL, JOHN E. (Q-25)

KEDDY, EDWARD S. (Q-25)

PHILLIPS, JOHN R. (Q-25)

RANKEN, WILLIAM A. (Q-25)

13-15

PLUTONIA AERODYNAMIC DISK (PAD). SUMMARY
REPORT.

LASL, 1974, 24P. (LA-5527-MS)

BURNS, JAMES J. (CMB-5)

VORREITER, J. W.

13-16

PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES
IN FLUID BED COAL GASIFICATION.

TIC, 1974, 20P. MN (LA-UR-74-984)

STRIMBECK, D. C.

SHERREN, D. C.

KEDDY, EDWARD S. (Q-25)

13-17

SHIPPING CASK FOR FAST REACTOR FUEL
ELEMENTS.

LASL, 1974, 74P. (LA-5526-MS)

NOYES, HORACE E. (SP-DO)

13-18

SHIPPING CONTAINER FOR PLUTONIUM -238 AS
FISSILE MATERIAL CLASS 1.

LASL, 1974, 40P. (LA-5589-MS)

NOYES, HORACE E. (SP-DO)

13-19

SOFT X RAY SOURCE.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,

P.519, 1974.

STEIN, WILLIAM E. (P-DOR)

13-20

THIN METAL WINDOWS FOR GAS TARGETS.

NUCL. INSTR. METHODS, V.116, P.451-2,

1974. (LA-UR-73-1660)*

JARMIE, NELSON (P-DOR)

MORRISON, LOUIS J. (P-9)

MARTIN, JOHN C. (H-4)

13-21

TRITIUM ION BEAM FOR AN INTENSE NEUTRON
SOURCE. INS.

TIC, 1974, 6P. MN (LA-UR-73-1613)

ALSO PUBLISHED IN:

ENGINEERING PROBLEMS OF FUSION

RESEARCH, 1973, 5TH SYMPOSIUM,

PRINCETON, NJ. PROC., P.272-6, IEEE,

1974. (537:8989EN 1973)

EMIGH, C. ROBERT (P-DOR)

13-22

USE OF OPTICAL PROFILOMETER SYSTEM AT
LASL.

REMOTE SYSTEMS TECHNOLOGY, 1973, 21ST

CONFERENCE, SAN FRANCISCO, PROC.,

P.111-2, ANS, 1973. (628:H832C 21ST)

LAZARUS, MICHAEL E. (CMB-14)

14. EPR, ESR, NMR STUDIES

14-1

CARBON -13 NUCLEAR MAGNETIC RESONANCE
SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN.
AN ACETIC ACID DERIVATIVE WITH AN
UNUSUALLY HIGH PK VALUE.

CHEM. COMMUN., P.85-6. 1974.

(LA-UR-73-1418)*

WALKER, T. E.

HOGENKAMP, H. P. C.

NEEDHAM, TERENCE E. (CNC-4)

MATWYOFF, NICHOLAS A. (CNC-4)

14-2

CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC
RESONANCE SPECTROSCOPY OF
ADENOSYLCOBALAMIN SELECTIVELY ENRICHED
WITH CARBON -13.

BIOCHEMISTRY, V.13, P.2650-5. 1974.

ABSTRACT PUBLISHED IN:

FEDERATION PROC., V.33, P.1283. 1974.

WALKER, T. E.

HOGENKAMP, H. P. C.

NEEDHAM, TERENCE E. (CNC-4)

MATWYOFF, NICHOLAS A. (CNC-4)

14-3

CONFORMATION OF CYCLIC BETA - ADENOSINE
3',5'- PHOSPHATE IN SOLUTION USING THE
LANTHANIDE SHIFT TECHNIQUE.

J. AM. CHEM. SOC., V.96, P.5552-6.

1974. (LA-UR-74-441)*

LAVALLEE, DAVID K. (CNC-2)

ZELTMANN, ALFRED H. (CNC-2)

14-4

PROTON - OXYGEN -17 SPIN - SPIN COUPLING
CONSTANT IN LIQUID WATER.

J. CHEM. PHYS., V.60, P.4636-7. 1974.

(LA-UR-73-1705)*

BURNETT, LOWELL J. (CNC-2)

ZELTMANN, ALFRED H. (CNC-2)

14-5

SPIN RELAXATION IN OXYGEN -17 ENRICHED
WATER.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,

P.647. 1974.

BURNETT, LOWELL J. (CNC-2)

ZELTMANN, ALFRED H. (CNC-2)

15. EXPLOSIVES AND DETONATIONS

- 15-1
DCO SAFETY.
LASL, 1955. DECLASSIFIED 1968. 10P.
(LAMS-1915)
ANDERSON, JAMES C. (GMX-7)
- 15-2
FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH.
LASL, 1953. DECLASSIFIED 1971. 40P.
(LA-1568)
FICKETT, WILDON (GMX-DO)
- 15-3
IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES.
TIC, 1974. 13P. MN (LA-UR-74-743)
JOPPA, RICHARD M. (M-6)
- 15-4
METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.
FILED 1972. PATENTED APR. 16, 1974.
(U. S. PATENT 3,804,017)
VENABLE, DOUGLAS (GMX-11)
TAYLOR, ROGER W. (GMX-11)
ROGERS, BENJAMIN T. (GMX-11)
- 15-5
NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.
ABSTRACT PUBLISHED IN:
SIAM REV., V.16, P.115, 1974.
ANDERSON, CHARLES A. (WX-3)
ZIENKIEWICZ, O. C.
- 15-6
PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL -3,7- DINITRO -1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.
LASL, 1974. 12P. (LA-5638-MS)
COBURN, MICHAEL D. (WX-2)
BENZIGER, THEODORE M. (WX-2)
- 15-7
PROPERTIES OF AMATEX/20.
LASL, 1974. 22P. (LA-5516-MS)
POPOLATO, ALPHONSE (WX-3)
CAMPBELL, ARTHUR W. (M-3)
HANTEL, LAWRENCE W. (WX-2)
LEWIS, HAROLD R. (WX-3)
SALGADO, PETER G. (WX-3)
CRAIG, BOBBY G. (M-3)
- 15-8
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVE PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973.
LASL, 1974. 46P. (LA-5521-PR)
POPOLATO, ALPHONSE (WX-3) COMP.
- 15-9
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM, DECEMBER 1, 1973, THROUGH MARCH 15, 1974.
LASL, 1974. 20P. (LA-5616-PR)
POPOLATO, ALPHONSE (WX-3) COMP.
- 15-10
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM, MARCH 16 THROUGH JUNE 30, 1974.
LASL, 1974. 20P. (LA-5711-PR)
POPOLATO, ALPHONSE (WX-3) COMP.
- 15-11
SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.
J. HEAT TRANSFER, V.96, P.398-404, 1974.
ANDERSON, CHARLES A. (WX-3)
ZIENKIEWICZ, O. C.
- 15-12
SYNTHESIS OF 3,3',5,5'- TETRANITRO -2,2'-AZOPYRIDINE AND SOME PICRYLAZO DERIVATIVES OF 3,5- DINITROPYRIDINE.
J. HETEROCYCLIC CHEM., V.11, P.1099-100, 1974. (LA-UR-74-962)*
COBURN, MICHAEL D. (WX-2)

16. FISSION PHYSICS

16-1
CALCULATION OF FISSION BARRIERS FOR HEAVY
NEUTRON RICH NUCLEI

TIC, 1973, 20P, MN (LA-UR-73-972)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.145-58, IAEA, 1974,
(IAEA-SM-174/60) (539:163SF 3RD V.1)
(LA-UR-73-972)*

HOWARD, W. MICHAEL (P-11)
NIX, JAMES R. (T-9)

16-2
CALCULATION OF FISSION BARRIERS WITH THE
DROPLET MODEL AND FOLDED YUKAWA SINGLE
PARTICLE POTENTIAL.

NUCL. PHYS., V.A229, P.269-91, 1974.
MOLLER, PETER (T-9)
NIX, JAMES R. (T-9)

16-3
CALCULATION OF FISSION BARRIERS.

TIC, 1973, 50P, MN (LA-UR-73-1036)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.103-40, IAEA, 1974,
(IAEA-SM-174/202) (539:163SF 3RD V.1)
(LA-UR-73-1036)*

MOLLER, PETER (T-9)
NIX, JAMES R. (T-9)

16-4
DETERMINATION OF SPINS OF INTERMEDIATE
STRUCTURE RESONANCES IN SUBTHRESHOLD
FISSION.

TIC, 1973, 17P, MN (LA-UR-73-960)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.85-97, IAEA, 1974,
(IAEA-SM-174/65) (539:163SF 3RD V.1)

KEYWORTH, GEORGE A. (P-3)
LEMLEY, JAMES R. (P-3)
OLSEN, CLAYTON E. (CMB-8)
SEIBEL, FREDERICK T. (P-3)
DABBS, J. W. T.
HILL, N. W.

16-5
ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F)
FOR THE NUCLEUS RADON -216.

PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.447-58, IAEA, 1974,
(IAEA-SM-174/56) (539:163SF 3RD V.1)
FREIESLEBENT, H.
BRITT, HAROLD C. (P-DOR)
HUIZENGA, J. R.

16-6
EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS
FROM FAST FISSION OF URANIUM -235.

ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.396-7,
1974.
EVANS, ALBERT E. (A-1)
EAST, LARRY V. (A-1)

16-7
ESTIMATED VALUES OF FRACTIONAL YIELDS
FROM LOW ENERGY FISSION AND A COMPILATION
OF MEASURED FRACTIONAL YIELDS.

LASL, 1974, 173P, (LA-5553-MS)
WOLFSBERG, KURT (CNC-11)

16-8
EXPERIMENTAL FISSION BARRIERS FOR
ACTINIDE NUCLEI.

TIC, 1973, 31P, MN (LA-UR-73-1179)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.3-23, IAEA, 1974,
(IAEA-SM-174/201) (539:163SF 3RD V.1)
(LA-UR-73-1179)*
BACK, BIRGER BO (P-DOR)
BRITT, HAROLD C. (P-DOR)
GARRETT, J. D. (P-DOR)
HANSEN, OLE (P-DOR)
LEROUX, BERNARD (P-DOR)

16-9
FISSION AND COMPLETE FUSION MEASUREMENTS
IN ARGON -40 BOMBARDMENTS OF NICKEL -58
AND SILVER -109.

TIC, 1973, 17P, MN (LA-UR-73-1180)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.2, P.309-16, IAEA, 1974,
(IAEA-SM-174/59) (539:163SF 3RD V.2)
GUTBRØD, H. H.
PLASIL, F.
BRITT, HAROLD C. (P-DOR)
ERKKILA, BRUCE H. (P-12)
STOKES, RICHARD H. (P-12)
BLANN, M.

- 16-10
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.
TIC, 1973, 18P, MN (LA-UR-73-1178)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION.
1973, 3RD IAEA SYMPOSIUM, ROCHESTER, NY, PROC., V.1, P.25-36, IAEA, 1974.
(IAEA-SM-174/27) (539:163SF 3RD V.1)
(LA-UR-73-1178)*
BACK, BIRGER BO (P-DOR)
HANSEN, OLE (P-DOR)
BRITT, HAROLD C. (P-DOR)
GARRETT, J. D. (P-DOR)
- 16-11
FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.
ABSTRACT PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION.
1973, 3RD IAEA SYMPOSIUM, ROCHESTER, NY, PROC., V.2, P.490, IAEA, 1974.
(IAEA-SM-174/46) (539:163SF 3RD V.2)
BACK, BIRGER BO (P-DOR)
HANSEN, OLE (P-DOR)
BRITT, HAROLD C. (P-DOR)
GARRETT, J. D. (P-DOR)
LEROUX, BERNARD (P-DOR)
- 16-12
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.
PHYS. REV., V.C9, P.1924-47, 1974.
(LA-UR-73-1762)*
BACK, BIRGER BO (P-DOR)
HANSEN, OLE (P-DOR)
BRITT, HAROLD C. (P-DOR)
GARRETT, J. D. (P-DOR)
- 16-13
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.
PHYS. REV., V.C10, P.1948-65, 1974.
(LA-UR-74-798)*
BACK, BIRGER BO (P-DOR)
BRITT, HAROLD C. (P-9)
HANSEN, OLE (P-DOR)
LEROUX, BERNARD (P-DOR)
GARRETT, J. D. (P-DOR)
- 16-14
FISSION OF URANIUM -238, BISMUTH -209 AND GOLD -197 WITH INTERMEDIATE ENERGY HELIUM -4 IONS.
PHYSICS AND CHEMISTRY OF FISSION.
1973, 3RD IAEA SYMPOSIUM, ROCHESTER, NY, PROC., V.1, P.391-408, IAEA, 1974.
(IAEA-SM-174/85) (539:163SF 3RD V.1)
VIOLA, VICTOR E., JR.
MINOR, MICHAEL (***)
ROCHE, CHARLES T.
CLARK, R. G.
- 16-15
FISSION.
ENCYCLOPEDIA OF PHYSICS, R. M. BESANCON, ED., P.351-6, VAN NOSTRAND REINHOLD, 1974, (530:E56PH2)
TERRELL, JAMES (I-2)
- 16-16
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO. NUCL-18, 1974.
WOLFSBERG, KURT (CNC-11)
- 16-17
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.
PHYS. REV., V.C10, P.1872-9, 1974.
(LA-UR-74-587)*
BALESTRINI, SILVIO J. (CNC-11)
FORMAN, LEON (J-16)
- 16-18
INDEPENDENT YIELDS OF XENON -133M, XENON -133G, XENON -135M AND XENON -135G FROM FISSION.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO. NUCL-19, 1974.
FORD, GEORGE P. (CNC-11)
WOLFSBERG, KURT (CNC-11)
ERDAL, BRUCE R. (CNC-11)
- 16-19
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.331-2, 1974.
ENGLAND, TALMADGE R. (T-2)
HARRIS, DONALD R., JR. (T-2)
- 16-20
MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM -254.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO. NUCL-21, 1974.
WOLFSBERG, KURT (CNC-11)
FORD, GEORGE P. (CNC-11)
- 16-21
MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3, DEUTERON - FISSION) AND (HELIUM -3, TRITON - FISSION) REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.995, 1974.
BRITT, HAROLD C. (P-9)
GAVRON, AVIGDOR I. (P-9)
KONECNY, E. (P-9)
WEBER, JOSEF (CNC-11)
WILHELMY, JERRY B. (CNC-11)
- 16-22
METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.
IASL, 1974, 28P, (LA-5587-MS)
BALESTRINI, SILVIO J. (CNC-11)

16-23
MODIFIED DEFINITION OF THE SURFACE ENERGY
IN THE LIQUID DROP FORMULA.

TIC, 1973, 25P. MN (LA-UR-73-999)

ALSO PUBLISHED IN:

PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.159-75, IAEA, 1974,
(IAEA-SM-174/12) (539:163SF 3RD V.1)
(LA-UR-73-999)²

KRAPPE, HANS J.

NIX, JAMES R. (T-9)

16-24
NEUTRON INDUCED FISSION CROSS SECTIONS
FROM CHARGED PARTICLE REACTIONS.

ABSTRACT PUBLISHED IN:

BULL. AM. PHYS. SOC., SER.2, V.19,
P.995-6, 1974.

WILHELMY, JERRY B. (CNC-11)

BRITT, HAROLD C. (P-9)

GAVRON, AVIGDOR I. (P-9)

KONECNY, E. (P-9)

WEBER, JOSEF (CNC-11)

16-25
POST-FISSION PHENOMENA.
ANN. REV. NUCL. SCI., V.24, P.151-207,
1974.

HOFFMAN, DARLEANE C. (CNC-11)

HOFFMAN, MARVIN M. (J-12)

16-26
PRESENT STATUS OF NUCLEAR FISSION THEORY.
ABSTRACT PUBLISHED IN:

AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.167, PAPER NO. NUCL-17, 1974.

NIX, JAMES R. (T-9)

16-27
PROMPT AND DELAYED NEUTRON YIELDS FROM
LOW ENERGY PHOTOFISSION OF THORIUM -232,
URANIUM -235, URANIUM -238 AND PLUTONIUM
-239.

TIC, 1973, 20P. MN (LA-UR-73-968)

ALSO PUBLISHED IN:

PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,
NY, PROC., V.1, P.431-44, IAEA, 1974.

(IAEA-SM-174/100) (539:163SF 3RD V.1)

CALDWELL, JOHN T. (A-2)

DOWDY, EDWARD J. (A-2)

WORTH, GARY M. (A-2)

16-28
PROMPT NEUTRON EMISSION IN LOW ENERGY
FISSION.

ABSTRACT PUBLISHED IN:

AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.167, PAPER NO. NUCL-15, 1974.

HOFFMAN, DARLEANE C. (CNC-11)

16-29
PROMPT NEUTRONS FROM THE SPONTANEOUS
FISSION OF FERMIUM -257.

TIC, 1973, 17P. MN (LA-UR-73-1010)

ALSO PUBLISHED IN:

PHYSICS AND CHEMISTRY OF FISSION,
1973, 3RD IAEA SYMPOSIUM, ROCHESTER,

NY, PROC., V.2, P.191-9, IAEA, 1974.

(IAEA-SM-174/77) (539:163SF 3RD V.2)

BALAGNA, JOHN P., JR. (CNC-11)

FARRELL, JOHN A. (P-11)

FORD, GEORGE P. (CNC-11)

HEMMENDINGER, ARTHUR (P-3)

HOFFMAN, DARLEANE C. (CNC-11)

VEESER, LYNN R. (P-3)

WILHELMY, JERRY B. (CNC-11)

17. HEALTH AND SAFETY

17-1
AEROSOL RESEARCH AND DEVELOPMENT RELATED
TO HEALTH HAZARD ANALYSIS, JANUARY 1
THROUGH JUNE 30, 1974.

LASL, 1974, 13P. (LA-5797-PR)
ORTIZ, LAWRENCE W. (H-5)
ETTINGER, HARRY J. (H-5)
FAIRCHILD, CHARLES I. (H-5)
TILLERY, MARVIN I. (H-5)

17-2
AEROSOL RESEARCH AND DEVELOPMENT RELATED
TO HEALTH HAZARD ANALYSIS, JULY 1 THROUGH
DECEMBER 31, 1973.

LASL, 1974, 21P. (LA-5555-PR)
ETTINGER, HARRY J. (H-5)
FAIRCHILD, CHARLES I. (H-5)
ORTIZ, LAWRENCE W. (H-5)

17-3
AEROSOL RESEARCH AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.

TIC, 1974, 20P. MN (LA-UR-74-723)
ETTINGER, HARRY J. (H-5)
TILLERY, MARVIN I. (H-5)
ELDER, JOHN C. (H-5)
GONZALES, MANUEL (H-5)

17-4
BIOHAZARDS MANUAL.

LASL, 1974, 17P. (LA-5267-M)
KRAEMER, PAUL M. (H-9)
FLYNN, PAUL L. (H-2)
TALLEY, GEORGE M. (H-5)
TOBEY, ROBERT A. (H-9)
HOLLAND, LAURENCE M. (H-4)

17-5
BIOLOGICAL TRANSFER PROCESSES IN
ENVIRONMENTAL SURVEILLANCE.

TIC, 1974, 7P. MN (LA-UR-74-764)
HANSON, WAYNE C. (H-8)

17-6
CHAMBER STUDIES OF VISIBILITY REDUCING
AEROSOLS.

ATMOS. ENVIRON., V.8, P.1035-48, 1974.
(LA-UR-73-938)*
ELDER, JOHN C. (H-5)
ETTINGER, HARRY J. (H-5)
NELSON, ROBERT Y.

17-7
CONCENTRIC AEROSOL SPECTROMETER.

J. AM. IND. HYG. ASSOC., V.35, P.62-
74, 1974, (LA-UR-73-1049)*
TILLERY, MARVIN I. (H-5)

17-8
CONTAMINATION LIMITS FOR REAL AND
PERSONAL PROPERTY.

TIC, 1974, 10P. MN (LA-UR-74-623)
ALSO PUBLISHED IN:
AEC ENVIRONMENTAL PROTECTION, 1974.
2ND CONFERENCE, ALBUQUERQUE, NM.
PROC., V.2, P.705-13, USAEC, 1974.
(WASH-1332(74) V.2)
HEALY, JOHN W. (H-DO)
SMITH, W. JOHN (H-DO)

17-9
CONTAMINATION LIMITS FOR REAL AND
PERSONAL PROPERTY. PROGRESS REPORT FOR
THE PERIOD JANUARY TO JUNE, 1973.

LASL, 1974, 58P. (LA-5482-PR)
HEALY, JOHN W. (H-DO)

17-10
CONTINGENCIES AND RISK CONTROL.
PANEL DISCUSSION.

NUCLEAR CRITICALITY SAFETY, 1973.
SHORT COURSE, TAOS, NM. PROC., P.25-
33, TIC, 1974, (TID-26286)
REIDER, ROY (H-3)
ET AL

17-11
CRYOGENICS SAFETY IN A HYDROGEN FUEL
SOCIETY.

TIC, 1974, 20P. MN (LA-UR-74-340)
REIDER, ROY (H-3)
EDESUTY, FREDERICK J. (Q-26)
WILLIAMSON, KENNETH D., JR. (Q-26)

17-12
DEMOLITION OF BUILDING 12, AN OLD
PLUTONIUM FILTER FACILITY.

TIC, 1974, 75P. MN (LA-UR-74-591)
ALSO PUBLISHED IN:
AEC ENVIRONMENTAL PROTECTION, 1974.
2ND CONFERENCE, ALBUQUERQUE, NM.
PROC., V.2, P.855-929, USAEC, 1974.
(WASH-1332(74) V.2)
CHRISTENSEN, ELDON L. (CMB-11)
GARDE, RAYMOND (H-8)
VALENTINE, ALLEN M. (H-1)

- 17-13
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.
TIC, 1974. 13P. MN (LA-UR-74-1051)
MITCHELL, ROBERT N. (H-5)
DE FIELD, JAMES D. (H-5)
STAFFORD, RONALD G. (H-1)
MC NEESE, WILBUR D. (CMB-11)
EBERHARDT, WILLIAM (ENG-2)
LAUSHKIN, NIKOLAI
- 17-14
DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.
ABSTRACT PUBLISHED IN:
HEALTH PHYS., V.27, P.622-3. 1974.
HANKINS, DALE E. (H-1)
CORTEZ, JOSEPH R. (H-1)
- 17-15
DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
LASL, 1974. 10P. (LA-5716-MS)
PURTYMUN, WILLIAM D. (H-8)
- 17-16
DISSOLUTION OF PLUTONIUM -238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS.
LASL, 1974. 6P. (LA-5624)
PATTERSON, JAMES H. (CMB-1)
NELSON, GILBERT B. (CMB-1)
MATLACK, GEORGE M. (CMB-1)
- 17-17
ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.
LASL, 1974. 7P. (LA-5559)
HANSON, WAYNE C. (H-8)
- 17-18
ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.198-9. 1974.
MC LAUGHLIN, THOMAS P. (P-5)
PETERSON, DONALD M. (P-5)
STRATTON, WILLIAM R. (P-5)
- 17-19
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1973.
LASL, 1974. 57P. (LA-5586)
SCHIAGER, KEITH J. (H-8) COMP.
APT. KENNETH E. (H-8) COMP.
- 17-20
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES.
LASL, 1974. 66P. (LA-5645)
H-DIVISION STAFF
- 17-21
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944.
LASL, 1944. DECLASSIFIED 1972. 8P.
(LAMS-119)
POPHAM, RICHARD A.
- 17-22
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944.
LASL, 1944. DECLASSIFIED 1972. 5P.
(LAMS-108)
POPHAM, RICHARD A.
- 17-23
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944.
LASL, 1944. DECLASSIFIED 1972. 10P.
(LAMS-79)
POPHAM, RICHARD A.
- 17-24
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.
LASL, 1944. DECLASSIFIED 1972. 7P.
(LAMS-99)
POPHAM, RICHARD A.
- 17-25
HUMAN EXPERIENCE.
TIC, 1974. 38P. MN (LA-UR-74-1300)
RICHMOND, CHESTER R. (H-DO)
- 17-26
INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.33-4. 1974.
PATTERSON, JAMES H. (CMB-1)
MATLACK, GEORGE M. (CMB-1)
NELSON, GILBERT B. (CMB-1)
- 17-27
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.
HEALTH PHYS., V.27, P.173-9. 1974.
(LA-UR-73-945)*
ENGELKE, MORRIS J. (H-1)
ISRAEL, HARVEY I. (H-1)
- 17-28
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.
TIC, 1974. 59P. MN (LA-UR-74-1340)
TRAVIS, JOHN R. (CMB-5)
- 17-29
MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.32. 1974.
WATSON, CLAYTON W. (ADWP-2)
BARR, SUMNER (H-8)
- 17-30
NUCLEAR EXPLOSION 16 JULY 1945, HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.
LASL, 1947. DECLASSIFIED 1969. 114P.
(LA-625)
HOFFMAN, JOSEPH G.

- 17-31
NUCLEAR SAFETY IN NUCLEAR POWER AND
PROPULSION DEVICES FOR SPACE.
TIC. 1973. 36P. MN (LA-DC-72-1480)
ALSO PUBLISHED IN:
ASTRONAUT. ACTA, V.18, SUPPL., P.99.
111. 1974. (LA-DC-72-1480)*
GRAVES, GLEN A. (DIR OFF)
- 17-32
OCULAR HAZARD FROM PICOSECOND PULSES OF
NEODYMIUM : YTTRIUM - ALUMINIUM - GARNET
LASER RADIATION.
SCIENCE, V.185, P.362-3, 1974.
HAM, WILLIAM T., JR.
MUELLER, HAROLD A.
GOLDMAN, ARNOLD I.
NEWMAN, BRIAN E. (L-2)
HOLLAND, LAURENCE M. (H-4)
KUWABARA, T.
- 17-33
OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT)
AND ITS RELATION TO RISK.
J. VACUUM SCI. TECH., V.11, P.323-7.
1974. (LA-UR-73-858)*
REIDER, ROY (H-3)
- 17-34
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS
FROM DEPLETED URANIUM PENETRATORS FIRED
AGAINST ARMOR PLATE TARGETS.
LASL, 1974, 11P. (LA-5654)
HANSON, WAYNE C. (H-8)
ELDER, JOHN C. (H-5)
ETTINGER, HARRY J. (H-5)
HANTEL, LAWRENCE W. (WX-2)
OWENS, JAMES W. (H-5)
- 17-35
PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER.
TIC. 1974. 8P. MN (LA-UR-74-1232)
APT, KENNETH E. (H-8)
SCHIAGER, KIETH J. (H-8)
- 17-36
PERFORMANCE OF MULTIPLE HEPA FILTERS
AGAINST PLUTONIUM AEROSOLS.
TIC. 1974. 25P. MN (LA-UR-74-1035)
GONZALES, MANUEL (H-5)
ELDER, JOHN C. (H-5)
ETTINGER, HARRY J. (H-5)
- 17-37
PERFORMANCE OF MULTIPLE HEPA FILTERS
AGAINST PLUTONIUM AEROSOLS, JANUARY 1
THROUGH JUNE 30, 1974.
LASL, 1974. 9P. (LA-5784-PR)
ELDER, JOHN C. (H-5)
ETTINGER, HARRY J. (H-5)
GONZALES, MANUEL (H-5)
TILLERY, MARVIN I. (H-5)
- 17-38
PERFORMANCE OF MULTIPLE HEPA FILTERS
AGAINST PLUTONIUM AEROSOLS, JULY 1
THROUGH DECEMBER 31, 1973.
LASL, 1974. 11P. (LA-5544-PR)
ETTINGER, HARRY J. (H-5)
ELDER, JOHN C. (H-5)
GONZALES, MANUEL (H-5)
- 17-39
PERSONAL PROTECTIVE DEVICES.
INDUSTRIAL ENVIRONMENT; ITS EVALUATION
AND CONTROL, P.519-31. GPO, 1973.
(614.85:P97613)
SCHULTE, HARRY F. (H-5)
- 17-40
PLUTONIUM -238 INCORPORATED IN FISH
LIVING IN WATER CONTAINING PLUTONIUM -238
DIOXIDE.
TIC. 1974. 8P. MN (LA-DC-12899)
FOWLER, ERIC B. (H-7)
ADAMS, WARREN H. (H-7)
- 17-41
PLUTONIUM -238 RELEASE IN SIMULATED
NATURAL ENVIRONMENTS.
TIC. 1974. 18P. MN (LA-UR-74-1590)
PATTERSON, JAMES H. (CMB-1)
MATLACK, GEORGE M. (CMB-1)
NELSON, GILBERT B. (CMB-1)
- 17-42
PLUTONIUM AEROSOL SIZE CHARACTERISTICS.
HEALTH PHYS., V.27, P.45-53, 1974.
(LA-UR-73-1326)*
ELDER, JOHN C. (H-5)
GONZALES, MANUEL (H-5)
ETTINGER, HARRY J. (H-5)
- 17-43
PLUTONIUM CONTAMINATED WOUND EXPERIENCE
AND ASSAY TECHNIQUES AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.
HEALTH PHYS., V.27, P.55-9, 1974.
(LA-UR-73-36)*
JOHNSON, LAMAR J. (H-8)
LAWRENCE, JAMES N. P. (H-1)
- 17-44
POWER REACTOR EXCURSION STUDIES.
ENGINEERING OF FAST REACTORS FOR SAFE
AND RELIABLE OPERATION, 1972.
INTERNATIONAL CONFERENCE, KARLSRUHE.
PROC., V.3, P.1331-54. GESELLSCHAFT
FUR KERNFORSCHUNG, 1973.
(CONF-721006) (626:E57F V.3)
STRATTON, WILLIAM R. (N-2)
ENGLE, LEON B. (N-2)
PETERSON, DONALD M. (N-2)
- 17-45
PRESERVATION AND STORAGE OF URINE
SAMPLES FOR THE DETERMINATION OF MERCURY.
J. AM. IND. HYG. ASSOC., V.35, P.257-61.
1974. (LA-UR-73-1458)*
TRUJILLO, PATRICIO E., JR. (H-5)
STEIN, PATRICIA C. (H-5)
CAMPBELL, EVAN E. (H-5)
- 17-46
PRINCIPLES OF SAFETY. SAFETY IN GENERAL.
CRITICALITY RISK IN PERSPECTIVE.
TIC. 1974. 21P. MN (LA-UR-73-1428)
ALSO PUBLISHED IN:
NUCLEAR CRITICALITY SAFETY, 1973.
SHORT COURSE, TAOS, NM. PROC., P.11-5.
TIC. 1974. (TID-26286)
REIDER, ROY (H-3)

- 17-47
PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.
TIC, 1974. 18P. MN (LA-UR-73-1004)
FULTYN, ROBERT V. (H-1)
- 17-48
PROBLEM OF LARGE AREA PLUTONIUM CONTAMINATION.
BUREAU OF RADIOLOGICAL HEALTH, 1969. 13P. (PB-189,346)
LANGHAM, WRIGHT H. (H-4)
- 17-49
PROGRESS REPORT, CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JANUARY - JUNE 1974.
LASL, 1974. 5P. (LA-5726-PR)
HEALY, JOHN W. (H-DO)
SMITH, W. JOHN (H-8)
- 17-50
PROGRESS REPORT, CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1973.
LASL, 1974. 6P. (LA-5579-PR)
HEALY, JOHN W. (H-DO)
SMITH, W. JOHN (H-DO)
- 17-51
PROGRESS REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.
LASL, 1974. 8P. (LA-5634-PR)
CAMPBELL, EVAN E. (H-5)
WOOD, GERRY O. (H-5)
ANDERSON, ROBERT G. (H-5)
- 17-52
PROGRESS REPORT, RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JANUARY 1 THROUGH JUNE 30, 1974.
LASL, 1974. 14P. (LA-5758-PR)
HELD, BRUCE J. (H-5)
RICHARDS, CHARLES P. (H-5)
REVOIR, WILLIAM H. (H-5)
BEVIS, DARELL A. (H-5)
MOORE, TOM O. (H-5)
DAVIS, THOMAS O., JR. (H-5)
HYATT, EDWIN C. (H-5)
- 17-53
PROGRESS REPORT, RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JULY 1 THROUGH DECEMBER 31, 1973.
LASL, 1974. 8P. (LA-5574-PR)
HELD, BRUCE J. (H-5)
ET AL.
- 17-54
PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS.
LASL, 1974. 100P. (LA-5483-MS)
HEALY, JOHN W. (H-DO)
- 17-55
QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AIHA.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS, V.167, PAPER NO.ACSC-8, 1974.
CAMPBELL, EVAN E. (H-5)
- 17-56
QUARTERLY REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.
LASL, 1974. 5P. (LA-5484-PR)
CAMPBELL, EVAN E. (H-5)
WOOD, GERRY O. (H-5)
ANDERSON, ROBERT G. (H-5)
- 17-57
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT, FY 1974.
LASL, 1974. 8P. (LA-5686-PR)
BATTAT, MORRIS E. (T-1) COMP.
- 17-58
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JANUARY 1 THROUGH MARCH 31, 1974.
LASL, 1974. 5P. (LA-5625-PR)
BATTAT, MORRIS E. (T-1) COMP.
- 17-59
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JULY 1 THROUGH SEPTEMBER 30, 1973.
LASL, 1974. 6P. (LA-5514-PR)
BATTAT, MORRIS E. (T-1) COMP.
- 17-60
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.
LASL, 1974. 5P. (LA-5576-PR)
BATTAT, MORRIS E. (T-1) COMP.
- 17-61
RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.
LASL, 1974. 12P. (LA-5520-MS)
GONZALES, MANUEL (H-5)
ETTINGER, HARRY J. (H-5)
STAFFORD, RONALD G. (H-5)
BRECKENRIDGE, CHARLES E., JR. (H-5)
- 17-62
RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.
LASL, 1974. 42P. (LA-5805-PR)
HELD, BRUCE J. (H-5)
REVOIR, WILLIAM H. (H-5)
PRITCHARD, JOHN A. (H-5)
HACK, ALAN L. (H-5)
GEOFFRION, LOUIS A. (H-5)
DAVIS, THOMAS O., JR. (H-5)
LOWRY, PHILIP L. (H-5)
RICHARDS, CHARLES P. (H-5)
WHEAT, LLOYD D. (H-5)
HYATT, EDWIN C. (H-5)

- 17-63
RESPIRATOR STUDIES RELATED TO THE AEC
DIRECTORATE OF REGULATORY STANDARDS,
JANUARY 1 THROUGH DECEMBER 31, 1973.
LASL, 1974. 16P. (LA-5612-PR)
HELD, BRUCE J. (H-5)
LOWRY, PHILIP L. (H-5)
BEVIS, DARELL A. (H-5)
DAVIS, THOMAS O., JR. (H-5)
GEOFFRION, LOUIS A. (H-5)
HACK, ALAN L. (H-5)
MOORE, TOM O. (H-5)
PRITCHARD, JOHN A. (H-5)
RICHARDS, CHARLES P. (H-5)
HYATT, EDWIN C. (H-5)
- 17-64
RESPIRATORY STUDIES FOR THE NATIONAL
INSTITUTE FOR OCCUPATIONAL SAFETY AND
HEALTH. JULY 1, 1972, THROUGH JUNE 3,
1973.
LASL, 1974. 44P. (LA-5620-PR)
HYATT, EDWIN C. (H-5)
PRITCHARD, JOHN A. (H-5)
HELD, BRUCE J. (H-5)
BEVIS, DARELL A. (H-5)
DAVIS, THOMAS O., JR. (H-5)
GEOFFRION, LOUIS A. (H-5)
HACK, ALAN L. (H-5)
LOWRY, PHILIP L. (H-5)
MOORE, TOM O. (H-5)
RICHARDS, CHARLES P. (H-5)
WHEAT, LLOYD D. (H-5)
- 17-65
REVIEW OF THE NATURAL RESOURCES DEFENSE
COUNCIL PETITION CONCERNING LIMITS FOR
INSOLUBLE ALPHA EMITTERS.
LASL, 1974. 20P. (LA-5810-MS)
HEALY, JOHN W. (H-DO)
RICHMOND, CHESTER R. (H-DO)
ANDERSON, ERNEST C. (H-DO)
- 17-66
SAFETY MANUAL, L-DIVISION, LASER RESEARCH
AND TECHNOLOGY, SUPPLEMENT 1. HAZARDOUS
CHEMICALS: FLUORINE (F2).
LASL, 1974. 2P. (LA-5305-MS, SUPPL. 1)
WINBURN, DUANE C. (E-2)
- 17-67
SAFETY TEST NO.S-6 LAUNCH PAD ABORT
SEQUENTIAL TEST. PHASE 1: LOW VELOCITY
HSA (HEAT SOURCE ASSEMBLY) IMPACT.
LASL, 1974. 27P. (LA-5705-MS)
SNOW, EDWARD C. (CMB-5)
- 68
SELECTION OF RESPIRATOR TEST PANELS
REPRESENTATIVE OF U. S. ADULT FACIAL
SIZES.
LASL, 1974. 31P. (LA-5488)
HACK, ALAN L. (H-5)
HYATT, EDWIN C. (H-5)
HELD, BRUCE J. (H-5)
MOORE, TOM O. (H-5)
RICHARDS, CHARLES P. (H-5)
MC CONVILLE, JOHN T. (H-5)
- 17-69
SHIELDED SHIPPING CONTAINER FOR FISSILE
MATERIAL CLASS 1 OR LARGE QUANTITIES OF
RADIOACTIVE MATERIAL. SUPPLEMENT.
LASL, 1974. 16P. (LA-4686-MS, SUPPL.)
NOYES, HORACE E. (SP-DO)
- 17-70
SNAP 19/VIKING RTG (PADIOISOTOPE
THERMOELECTRIC GENERATOR) SOLID
PROPELLANT FIRE TEST.
LASL, 1974. 9P. (LA-5782-MS)
SNOW, EDWARD C. (CMB-5)
- 17-71
SOLVENT EVAPORATION RATES.
J. AM. IND. HYG. ASSOC., V.35, P.695-
710. 1974. (LA-UR-75-5002)*
GRAY, DOUGLAS C. (***)
- 17-72
STORM RUNOFF AND TRANSPORT OF
RADIONUCLIDES IN DP CANYON, LOS ALAMOS
COUNTY, NEW MEXICO.
LASL, 1974. 9P. (LA-5744)
PURTYMUN, WILLIAM D. (H-8)
- 17-73
STUDIES OF THE APPARENT SOLUBILITY OF
PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN
AQUATIC ENVIRONMENT AND THE UPTAKE OF
PLUTONIUM FROM A SOIL MATRIX CONTAINING
PLUTONIUM -238 DIOXIDE.
TIC, 1974. 31P. MN (LA-UR-74-588)
ALSO PUBLISHED IN:
AEC ENVIRONMENTAL PROTECTION. 1974.
2ND CONFERENCE, ALBUQUERQUE, NM.
PROC., V.2, P.615-44. USAEC, 1974.
(WASH-1332(74) V.2)
ADAMS, WARREN H. (H-7)
FOWLER, ERIC B. (H-7)
- 17-74
TEST METHODS AND EFFICIENCY STUDIES ON
MULTI-BANK HEPA FILTER SYSTEMS.
TIC, 1974. 56P. MN (LA-UR-74-992)
ETTINGER, HARRY J. (H-5)
MITCHELL, ROBERT N. (H-5)
GONZALES, MANUEL (H-5)
DE FIELD, JAMES D. (H-5)
ELDER, JOHN C. (H-5)
- 17-75
TLD STACK EFFLUENT MONITOR.
ABSTRACT PUBLISHED IN:
HEALTH PHYS., V.27, P.621. 1974.
NEELY, GLENN W. (H-1)
- 17-76
TRANSFER TECHNIQUE FOR ELECTRON
MICROSCOPY OF MEMBRANE FILTER SAMPLES.
J. AM. IND. HYG. ASSOC., V.35,
P.423-5. 1974. (LA-UR-73-1769)*
ORTIZ, LAWRENCE W. (H-5)
ISOM, BONNIE LEE (H-5)

17-77

USAEC WORKSHOP ON PERSONNEL NEUTRON
DOSIMETRY.

NEUTRON MONITORING FOR RADIATION
PROTECTION PURPOSES. 1972. SYMPOSIUM,
VIENNA. PROC., V.2, P.251-9. IAEA.
1973. (IAEA-SM-167/52) (542:N497M V.2)

VALLARIO, EDWARD J.

HANKINS, DALE E. (H-1)

17-78

VENTILATION DESIGN MODIFICATIONS AT LOS
ALAMOS SCIENTIFIC LABORATORY MAJOR
PLUTONIUM OPERATIONAL AREAS.

TIC, 1974. 20P. MN (LA-UR-74-1132)

STAFFORD, RONALD G. (H-11)

GALLIMORE, JOHN C., JR. (H-1)

MITCHELL, ROBERT N. (H-5)

MARAMAN, WILLIAM J. (CMB-11)

MC NEESE, WILBUR D. (CMB-11)

18. HYDRODYNAMICS AND RADIATION TRANSPORT

- 18-1
ABSORPTION BY A HYDROGENIC SERIES OF
OVERLAPPING LORENTZIAN LINES.
J. QUANT. SPECTRY, RADIATIVE TRANSFER,
V.14, P.1351-4, 1974. (LA-UR-74-597)*
BROWN, ROBERT T. (J-15)
- 18-2
ARBITRARY LAGRANGIAN-EULERIAN COMPUTING
METHOD FOR ALL FLOW SPEEDS.
J. COMPUTAT. PHYS., V.14, P.227-53,
1974. (LA-DC-72-1287)*
HIRT, CYRIL W., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)
COOK, JAMES L. (T-3)
- 18-3
CALCULATION OF IONIZATION IN
HYDRODYNAMICS CODES. I. THEORY.
LASL, 1974, 6P. (LA-5481-MS)
NACHAMKIN, JACK (T-6)
- 18-4
CALCULATION OF STEAM FLOW AND HYDRAULIC
FRACTURING IN A POROUS MEDIUM WITH THE
KRAK CODE.
LASL, 1974, 23P. (LA-5602-MS)
KELLER, CARL E. (J-9)
DAVIS, ALVIN H. (J-9)
STEWART, JOHN N., JR. (J-9)
- 18-5
CALCULATIONS OF COMPRESSIBLE WIND FLOW
OVER SIMPLE MARTIAN OBSTACLES.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.371,
1974.
JONES, ERIC M. (J-10)
KIRBY, THOMAS B.
- 18-6
COMMENTS ON: LAMINAR INTERACTIONS IN HIGH
MACH NUMBER FLOWS.
PHYS. FLUIDS, V.17, P.1051, 1974.
(LA-UR-73-1239)*
MASON, RODNEY J. (TD-8)
- 18-7
COMPUTATION OF STEADY NOZZLE FLOW BY A
TIME DEPENDENT METHOD.
AIAA J., V.12, P.419-20, 1974.
(LA-UR-73-1651)*
CLINE, MICHAEL C. (T-3)
- 18-8
DETONATION INDUCED TWO DIMENSIONAL FLOWS.
TIC, 1973, 19P. MN (LA-UR-73-91)
ALSO PUBLISHED IN:
ACTA ASTRONAUT., V.1, P.373-84, 1974.
(LA-UR-73-91)*
MADER, CHARLES L. (T-4)
- 18-9
EXPERIMENTAL OBSERVATIONS OF UNDERWATER
DETONATIONS NEAR THE WATER SURFACE.
LASL, 1974, 18P. (LA-5548-MS)
CRAIG, BOBBY G. (M-3)
- 18-10
INITIAL VALUE PROBLEMS OF THE
RAYLEIGH-TAYLOR INSTABILITY TYPE.
LASL, 1974, 43P. (LA-5378)
ANFORD, ROY A. (TD-4)
- 18-11
INVARIANT DECOMPOSITION OF THE EQUATIONS
GOVERNING HYDRODYNAMIC FLOW AND THERMAL
CONDUCTIVITY.
LASL, 1974, 3P. (LA-5547-MS)
NACHAMKIN, JACK (T-DOT)
- 18-12
KACHINA: AN EULERIAN COMPUTER PROGRAM FOR
MULTIFIELD FLUID FLOWS.
LASL, 1974, 134P. (LA-5680)
AMSDEN, ANTHONY A. (T-3)
HARLOW, FRANCIS H., JR. (T-3)
- 18-13
MOTION OF A COMPRESSIBLE PLATE DRIVEN BY
SHOCK OR DETONATION.
Q. APPL. MATH., V.32, P.29-43, 1974.
(LA-DC-72-908)*
RIVARD, WILLIAM C. (T-3)
ENGELKE, RAY (GMX-8)
- 18-14
MOTION OF AN EXPLOSIVE INDUCED PLANE
SHOCK WAVE.
Q. APPL. MATH., V.32, P.71-84, 1974.
(LA-DC-72-1150)*
FICKETT, WILDON (T-4)
- 18-15
MULTIFLUID FLOW CALCULATIONS AT ALL MACH
NUMBERS.
J. COMPUTAT. PHYS., V.16, P.1-19,
1974. (LA-UR-74-274)*
HARLOW, FRANCIS H., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)

- 18-16
NEW METHOD FOR IMPROVING THE ACCURACY OF
NUMERICAL HYDRODYNAMICS CALCULATIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. ASTRON. SOC., V.6, P.217,
1974.
CLOUTMAN, LAWRENCE D. (T-3)
- 18-17
NEW TRANSPORT METHODS AND CODES.
TIC, 1974, 9P. MN (LA-UR-74-1262)
LATHROP, KAYE D. (T-1)
- 18-18
NUMERICAL ANALYSIS OF TORNADO WIND LOADS
ON BUILDINGS.
ABSTRACT PUBLISHED IN:
WIND ENGINEERING RESEARCH DIGEST, A.
N. L. CHIU, ED., V.1, P.57, NSF, 1974.
(551.5:W763E)
HARLOW, FRANCIS H., JR. (T-3)
THOMPSON, BYRON E. (T-3)
STEIN, LELAND R. (T-3)
- 18-19
NUMERICAL SIMULATION OF TSUNAMIS.
J. PHYS. OCEANOGR., V.4, P.74-82,
1974. (LA-UR-73-1438)*
MADER, CHARLES L. (T-4)
- 18-20
NUMERICAL SOLUTION OF THE FLOW STRUCTURE
IN TORNADO-LIKE VORTICES.
LASL, 1974, 5P. (LA-5713-MS)
STEIN, LELAND R. (T-2)
HARLOW, FRANCIS H., JR. (T-3)
- 18-21
NUMERICAL STUDY OF TURBULENCE TRANSITIONS
IN CONVECTIVE FLOW.
J. FLUID MECH., V.64, P.129-65, 1974.
(LA-DC-72-81)*
DALY, BART J. (T-3)
- 18-22
RAY TRACE ACOUSTICS IN UNSTEADY FLOW.
J. ACOUST. SOC. AMER., V.56, P.1291-2,
1974. (LA-UR-73-1121)*
ENGELKE, RAY (M-3)
- 18-23
RECENT ADVANCES IN COMPUTATIONAL FLUID
DYNAMICS.
TIC, 1974, 21P. MN (LA-UR-73-1473)
BUTLER, THOMAS D. (T-3)
- 18-24
ROTATION GROUP AND HYDRODYNAMICS OF
NEARLY SPHERICAL FLUID FLOW.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.1166, 1974.
NACHAMKIN, JACK (T-DOT)
- 18-25
STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS,
INCOMPRESSIBLE FLUID FLOW.
LASL, 1974, 10P. (LA-5584)
SHIPLEY, JAMES P., JR. (E-4)
- 18-26
STRUCTURAL ANALYSIS OF TORNADO-LIKE
VORTICES.
J. ATMOS. SCI., V.31, P.2081-98, 1974.
(LA-UR-74-267)*
HARLOW, FRANCIS H., JR. (T-3)
STEIN, LELAND R. (T-3)
- 18-27
TAYLOR INSTABILITY IN SOLIDS.
J. APPL. PHYS., V.45, P.727-32, 1974.
(LA-UR-73-1257)*
BARNES, JOHN F. (T-4)
BLEWETT, PATRICK J. (TD-5)
MC QUEEN, ROBERT G. (M-6)
MEYER, KENNETH A. (TD-5)
VENABLE, DOUGLAS (M-DO)
- 18-28
TEST PROBLEMS FOR HYDROCODES.
LASL, 1974, 31P. (LA-5479)
FICKETT, WILDON (T-4)
RIVARD, WILLIAM C. (T-3)
- 18-29
TRANSPORT EQUATION IN AN ACCELERATED
MATERIAL. LEGENDRE MOMENTS AND A
DIFFUSION APPROXIMATION.
NUCL. SCI. ENG., V.53, P.329-32, 1974.
(LA-UR-73-952)*
WIENKE, BRUCE R. (T-1)
- 18-30
TRANSPORT EQUATION IN MODIFIED EULERIAN
COORDINATES.
PHYS. FLUIDS, V.17, P.1135-8, 1974.
(LA-UR-73-356)*
WIENKE, BRUCE R. (T-1)
- 18-31
TWO FREQUENCY NONLINEAR TAYLOR
INSTABILITY.
LASL, 1974, 8P. (LA-5575-MS)
WHITE, GEORGE N. (TD-DO)

19. INSTRUMENTS

- 19-1
CALIBRATED DERIVATIVE THERMAL ANALYSIS
APPARATUS FOR DETECTING PHASE TRANSITIONS
IN HIGH TEMPERATURE MATERIALS.
REV. SCI. INSTR., V.45, P.1127-33.
1974. (LA-UR-74-481)*
RUPERT, GEORGE N. (CMB-3)
- 19-2
CONCENTRIC AEROSOL SPECTROMETER.
J. AM. IND. HYG. ASSOC., V.35, P.62-
74, 1974.
TILLERY, MARVIN I. (H-5)
- 19-3
COPYING LENS FOR MICROFILM PHOTOGRAPHY.
APPL. OPT., V.13, P.2067-71, 1974.
(LA-UR-73-1781)*
BRIXNER, BERLYN (M-5)
- 19-4
DELAY LINE READOUT OF ANODE PLANES IN
PROPORTIONAL CHAMBERS.
LASL, 1974, 4P. (LA-5617-MS)
LEE, DAVID M. (MP-7)
SOBOTKA, STANLEY (MP-10)
THIESSEN, HENRY A. (MP-7)
- 19-5
DELAY LINE READOUT OF ANODE PLANES IN
PROPORTIONAL CHAMBERS.
NUCL. INSTR. METHODS, V.120, P.153-6,
1974. (LA-UR-74-633)*
ALSO PUBLISHED AS:
TIC, 1975, 15P. MN (LA-UR-74-633)
LEE, DAVID M. (MP-10)
THIESSEN, HENRY A. (MP-10)
SOBOTKA, STANLEY (MP-10)
- 19-6
DESIGN AND DEVELOPMENT OF A COMBINATION
PULSE TRANSDUCER.
LASL, 1974, 8P. (LA-5572-MS)
STARKOVICH, VICTOR S. (WX-6)
STEPHAN, EVON L. (WX-6)
HAWKINS, EUGENE V. (WX-6)
- 19-7
DESIGN OF ALBEDO NEUTRON DOSIMETERS.
DTIC, 1972, 10P. MN (LA-DC-72-1144)
ALSO PUBLISHED IN:
NEUTRON MONITORING FOR RADIATION
PROTECTION PURPOSES, 1972, SYMPOSIUM,
VIENNA, PROC., V.2, P.15-29, IAEA,
1973. (IAEA-SM-167/62; 542N497M V.2)
HANKINS, DALE E. (H-1)
- 19-8
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER
FOR WB-57F AIRCRAFT.
LASL, 1974, 8P. (LA-5491-MS)
GLENN, RUSSELL D. (CNC-11)
- 19-9
EFFECTS OF NUCLEAR RADIATION ON CERAMIC
CEMENTED STRAIN GAGES AND POLYIMIDE
ENCAPSULATED EPOXY BONDED GAGES.
ADV. INSTRUM., V.26, PAPER NO.622,
1971.
TALLMAN, CHARLES R. (N-4)
- 19-10
ELECTRONIC MODULES DEVELOPED FOR A GAMMA
RAY BARREL SCANNING SYSTEM.
LASL, 1974, 4P. (LA-5773-MS)
EAST, LARRY V. (A-1)
STEPHENS, MELVIN M. (A-1)
SWANSEN, JAMES E. (A-1)
- 19-11
HIGH EFFICIENCY NEUTRON DETECTION SYSTEM
FOR PHOTOREACTION STUDIES.
NUCL. INSTR. METHODS, V.115, P.573-9,
1974. (LA-UR-73-893)*
DOWDY, EDWARD J. (A-2)
CALDWELL, JOHN T. (A-2)
WORTH, GARY M. (A-2)
- 19-12
HIGH PRESSURE APPARATUS FOR SIMULTANEOUS
ADIABATIC AND ISOTHERMAL COMPRESSIBILITY
MEASUREMENTS: DATA ON ARGON TO 13 KBAR.
J. APPL. PHYS., V.45, P.741-7, 1974.
(LA-UR-73-516)*
LIEBENBERG, DONALD H. (L-DOT)
MILLS, ROBERT L. (Q-26)
BRONSON, JOHN C. (Q-26)
- 19-13
INTEGRATING ECLIPSE OPTICS INTO THE AEC
AIR FORCE FLYING LABORATORY.
TIC, 1974, 16P. MN (LA-UR-74-1167)
BRIXNER, BERLYN (M-5)
- 19-14
LOW DEADTIME DELAY LINE READOUT FOR
POSITION SENSITIVE PROPORTIONAL COUNTERS.
LASL, 1974, 2P. (LA-5523-MS)
ANDERSON, ALAN N. (MP-7)
BARRETT, RICHARD J. (MP-7)
WADLINGER, E. ALAN (MP-DO)

- 19-15
MEASUREMENTS ON HALF WAVELENGTH HELIX
RESONATORS.
NUCL. INSTR. METHODS, V.116, P.555-9.
1974. (LA-UR-73-1231)*
BENDT, PHILIP J. (P-12)
ERKKILA, BRUCE H. (P-12)
STOKES, RICHARD H. (P-12)
- 19-16
MULTIFRINGER ELECTRO-OPTIC PHASE
MODULATOR.
REV. SCI. INSTR., V.45, P.520-2. 1974.
(LA-UR-73-1681)*
GRIBBLE, ROBERT F. (Q-7)
KRISTAL, RICHARD (Q-3)
- 19-17
NEUTRON MULTIPLICITY SORTER FOR THE
EXPERIMENTAL DETERMINATION OF NU BAR.
NUCL. INSTR. METHODS, V.114, P.71-4.
1974. (LA-UR-73-727)*
WORTH, GARY M. (A-2)
CALDWELL, JOHN T. (A-2)
DOWDY, EDWARD J. (A-2)
- 19-18
OPTICAL DATA PROCESSING OF A HOLOGRAM
OBTAINED WITH CODED APERTURE IMAGING.
TIC, 1974, 6P. MN (LA-UR-74-1110)
HAN, KI S. (J-12)
BERZINS, GEORGE J. (J-12)
- 19-19
PHOTON SOURCES FOR INSTRUMENT
CALIBRATION.
HEALTH PHYS., V.26, P.179-89. 1974.
(LA-UR-73-468)*
STORM, ELLERY (H-1)
LIER, DOUGLAS W. (J-14)
ISRAEL, HARVEY I. (H-1)
- 19-20
POLYCHROMETER WITH EXTREME REJECTION OF
STRAY LIGHT.
APPL. OPT., V.13, P.697-9. 1974.
(LA-UR-74-51)*
SIEMON, RICHARD E. (Q-3)
- 19-21
POLYCHROMETER WITH EXTREME REJECTION OF
STRAY LIGHT. ERRATUM.
APPL. OPT., V.13, P.1555. 1974.
(LA-UR-74-51A)*
SIEMON, RICHARD E. (Q-3)
- 19-22
TIME RESPONSE OF PLASTIC SCINTILLATORS.
NUCL. INSTR. METHODS, V.114, P.313-20.
1974. (LA-UR-73-771)*
LYONS, PETER B. (J-14)
STEVENS, J.
- 19-23
URANIUM -235 ENRICHMENT DETERMINATION
USING HELIUM -4 PROPORTIONAL COUNTERS.
TIC, 1974, 18P. MN (LA-UR-73-1657)
CALDWELL, JOHN T. (A-2)
EVANS, JERRY L. (A-2)
FEHLAU, PAUL E. (A-2)
WHITTLESEY, THOMAS H. (A-2)

20. LASERS

- 20-1
0.2 GW PULSED HYDROGEN - FLUORINE
CHEMICAL LASER INITIATED BY AN ELECTRON
BEAM.
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.646-7, 1974. (LA-UR-74-311)*
GREINER, NORMAN R. (L-3)
BLAIR, LARRY S. (L-3)
BIRD, PAUL F. (L-3)
- 20-2
100 GW HYDROGEN - FLUORINE LASER
INITIATED BY AN ELECTRON BEAM.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.780, 1974.
GREINER, NORMAN R. (L-3)
BLAIR, LARRY S. (L-3)
PATTERSON, E. L.
GERBER, R. A.
- 20-3
126.1 NANOMETRE MOLECULAR ARGON LASER.
APPL. PHYS. LETTERS, V.24, P.488-90,
1974. (LA-UR-74-156)*
HUGHES, WILLIAM M. (L-3)
SHANNON, JOHN
HUNTER, ROBERT
- 20-4
126.1 NANOMETRE MOLECULAR ARGON LASER.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.557, 1974.
HUGHES, WILLIAM M. (L-3)
SHANNON, JOHN
HUNTER, ROBERT
KOLB, ALAN
- 20-5
ABLATION STABILITY OF LASER DRIVEN
IMPLOSIONS.
LASL, 1974. 5P. (LA-5604-MS)
HENDERSON, DALE B. (T-6)
MC CRORY, ROBERT L. (T-6)
MORSE, RICHARD L. (T-6)
- 20-6
ABLATION STABILITY OF LASER DRIVEN
IMPLOSIONS.
PHYS. REV. LETTERS, V.33, P.205-8,
1974. (LA-UR-74-579)*
HENDERSON, DALE B. (T-6)
MC CRORY, ROBERT L. (T-6)
MORSE, RICHARD L. (T-6)
- 20-7
ABLATION SYMMETRY OF LASER INDUCED
IMPLOSIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.642, 1974.
MC CRORY, ROBERT L. (T-6)
HENDERSON, DALE B. (T-6)
MORSE, RICHARD L. (T-6)
- 20-8
AMPLIFICATION CHARACTERISTICS OF A HIGH
GAIN, RAPIDLY PUMPED LASER OSCILLATOR
AMPLIFIER. IMPLICATIONS FOR E-BEAM
EXCITED HYDROGEN - FLUORINE CHEMICAL
LASERS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.922-3, 1974.
FELDMAN, BARRY J. (T-6)
- 20-9
ANOMALOUS GAIN COEFFICIENTS IN
ATMOSPHERIC PRESSURE CARBON DIOXIDE
LASERS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.752-3, 1974.
SINGER, SIDNEY (L-1)
- 20-10
ANOMALOUS THERMAL CONDUCTIVITY PRODUCED
BY ELECTRON SCATTERING OFF OF ION DENSITY
FLUCTUATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.868, 1974.
MORSE, RICHARD L. (T-6)
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)
ROSENBLUTH, MARSHALL N. (T-6)
- 20-11
APPARATUS AND METHOD FOR
MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.
FILED 1973, PATENTED OCT. 29, 1974.
(U. S. PATENT 3,845,300)
ROEHLING, DUANE J. (L-1)
FRADKIN, DAVID B. (L-3)
- 20-12
APPROXIMATE SPHERICAL BLAST THEORY AND
LASER INITIATED PELLET MICROEXPLOSIONS.
LASL, 1974. 5P. (LA-5641-MS)
FREIHALD, DAVID A. (L-5)

- 20-13
APPROXIMATE SPHERICAL BLAST THEORY WITH
SOURCE MASS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.953, 1974.
FREIWALD, DAVID A. (L-5)
AXFORD, ROY A. (L-5)
- 20-14
ASYMPTOTIC TIME BEHAVIOR OF RESONANT
ABSORPTION WITH PROFILE MODIFICATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.899, 1974.
LEE, KENNETH (T-6)
FORSUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)
- 20-15
BORON ISOTOPE SEPARATION BY LASER INDUCED
PHOTOCHEMISTRY.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.789-90, 1974.
ROCKWOOD, STEPHEN D. (T-6)
RABIDEAU, SHERMAN W. (CNC-2)
- 20-16
BREMSSTRAHLUNG EMISSION FROM LASER
PRODUCED PLASMAS.
APPL. PHYS. LETTERS, V.25, P.108-9,
1974. (LA-UR-74-565)*
KEPHART, JOHN F. (L-4)
GODWIN, ROBERT P. (L-4)
MC CALL, GENE H. (L-4)
- 20-17
BURN CHARACTERISTICS OF MARGINAL
DEUTERIUM - TRITIUM MICROSPHERES.
LASL, 1974, 4P. (LA-5603-MS)
HENDERSON, DALE B. (T-6)
- 20-18
BURN CHARACTERISTICS OF MARGINAL
DEUTERIUM - TRITIUM MICROSPHERES.
PHYS. REV. LETTERS, V.33, P.1142-4,
1974. (LA-UR-74-751)*
HENDERSON, DALE B. (T-6)
- 20-19
CALCULATIONS OF LASER INDUCED SPALL IN
ALUMINUM TARGETS.
LASL, 1974, 36P. (LA-5619-MS, REV.)
LARSON, ALVIN R. (L-5)
- 20-20
CALORIMETER FOR USE AT 10.6 MICROMETRES.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.535-6, 1974.
REICHEL, WALTER H. (L-1)
STRATTON, THOMAS F. (L-1)
STARK, EUGENE E. (L-1)
- 20-21
CARBON DIOXIDE GAS LASER EXCITATION AND
GAIN.
J. APPL. PHYS., V.45, P.1336-41, 1974.
(LA-UR-73-774)*
MILLS, CARROLL B. (T-6)
- 20-22
COLLECTIVE ION ACCELERATION VIA THE TWO
STREAM INSTABILITY.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.967, 1974.
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)
- 20-23
COMPARISON OF LASER INDUCED GAS BREAKDOWN
IN VARIOUS GASES.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.732, 1974.
ROCKWOOD, STEPHEN D. (T-6)
- 20-24
COMPUTATIONAL LASER SYSTEM STUDIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.922, 1974.
DICKMAN, DONALD O. (C-3)
FELDMAN, BARRY J. (T-6)
GITOMER, STEVEN J. (T-6)
GOLDSTEIN, JOHN C. (T-6)
SUNDAM, BERGEN R. (T-7)
- 20-25
CORPUSCLE - IN - MEDIA SIMULATION OF
NONLINEAR OPTICAL PROBLEMS.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.691, 1974.
ELLIOTT, C. JAMES (T-6)
HENDERSON, DALE B. (T-6)
- 20-26
DAMAGE RESISTANCE OF DIELECTRIC
REFLECTORS FOR PICOSECOND LASER PULSES.
TIC, 1974, 11P. MN (LA-UR-74-1053)
NEWNAM, BRIAN E. (L-2)
- 20-27
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR
SODIUM CHLORIDE AND POTASSIUM CHLORIDE.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.734, 1974.
REICHEL, WALTER H. (L-1)
STARK, EUGENE E. (L-1)
- 20-28
DEGRADATION OF A LASER MEDIUM DUE TO
IONIZATION BY A LASER PULSE.
J. APPL. PHYS., V.45, P.345-9, 1974.
(LA-UR-73-1023)*
ELLIOTT, C. JAMES (T-6)
- 20-29
DIRECT CONVERTER BASED ON SPACE CHARGE
EFFECTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.878, 1974.
GITOMER, STEVEN J. (T-6)
BARR, W. L.
MOIR, R. W.

- 20-30
EFFECT OF ELECTRON - ELECTRON AND
ELECTRON - ION COLLISIONS IN MERCURY,
CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON
MONOXIDE/NITROGEN DISCHARGES.
J. APPL. PHYS., V.45, P.5229-34, 1974.
(LA-UR-74-793)*
ROCKWOOD, STEPHEN D. (T-6)
- 20-31
EFFECT OF GAS MIXTURE ON THE ELECTRON
KINETICS IN THE ELECTRICAL CARBON DIOXIDE
GAS LASER.
J. APPL. PHYS., V.45, P.4572-5, 1974.
(LA-UR-74-735)*
JUDD, O'DEAN P. (T-6)
- 20-32
EFFECT OF GAS MIXTURE ON THE ELECTRON
PHYSICS IN THE ELECTRICAL CARBON DIOXIDE
GAS LASER.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.752, 1974.
JUDD, O'DEAN P. (T-6)
- 20-33
EFFECT OF PRE-IONIZATION ON FAST IONS
FROM A CARBON DIOXIDE LASER PRODUCED
PLASMA.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.714, 1974.
EHLER, A. WAYNE (L-4)
- 20-34
EFFICIENT HIGH ENERGY DENSITY MOLECULAR
XENON LASER.
APPL. PHYS. LETTERS, V.25, P.85-7,
1974. (LA-UR-74-525)*
HUGHES, WILLIAM M. (L-3)
SHANNON, JOHN
HUNTER, ROBERT
- 20-35
EFFICIENT HIGH POWER XENON AND XENON -
RARE GAS MIXTURE LASERS.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.557, 1974.
HUGHES, WILLIAM M. (L-3)
SHANNON, JOHN
HUNTER, ROBERT
KOLB, ALAN
- 20-36
ELECTRON BEAM CONTROLLED CARBON DIOXIDE
LASERS AT LOS ALAMOS.
LASER INTERACTION AND RELATED PLASMA
PHENOMENA, 1973, 3RD WORKSHOP, TROY,
NY, PROC., P.11-37, PLENUM, 1974.
(535:1243IN 3RD V.3A)
BOYER, KEITH (L-DO)
COOPER, RALPH S. (L-DO)
- 20-37
ELECTRON BEAM CONTROLLED GAS LASERS:
DISCUSSION FROM THE ENGINEERING
VIEWPOINT, PART 2. PROBLEMS IN THE
ELECTRICAL DESIGN OF VERY HIGH ENERGY
SYSTEMS.
TIC, 1974, 17P. MN (LA-UR-73-1630)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.626-32, IEEE,
1974. (537:S989EN 1973)
RIEPE, KENNETH B. (L-1)
STAPLETON, ROBERT E. (L-1)
RINK, JOHN P. (L-1)
- 20-38
ELECTRON BEAM CONTROLLED LASERS:
DISCUSSION FROM THE ENGINEERING
VIEWPOINT, PART 1. DESIGN OF THE LASER
KJ AND 10 KJ CARBON DIOXIDE LASERS.
TIC, 1974, 23P. MN (LA-UR-73-1629)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.619-25, IEEE,
1974. (537:S989EN 1973)
STAPLETON, ROBERT E. (L-1)
RIEPE, KENNETH B. (L-1)
JOLLY, EDWARD L., JR. (L-1)
WEINBRECHT, JOHN F. (L-1)
HAYDEN, JAMES J. (L-1)
FERDINAND, EDWARD O. (L-1)
CARROLL, THOMAS A. (L-1)
- 20-39
ELECTRON TRANSPORT COEFFICIENTS AND
VIBRATIONAL EXCITATION RATES FOR
ELECTRICALLY EXCITED CARBON DIOXIDE GAS
LASERS.
LASL, 1974, 35P. (LA-5562-MS)
ELLIOTT, C. JAMES (T-6)
JUDD, O'DEAN P. (T-6)
LOCKETT, ANDREW M., III (T-6)
ROCKWOOD, STEPHEN D. (T-6)
- 20-40
ENGINEERING DESIGN CONSIDERATIONS FOR
LASER CONTROLLED THERMONUCLEAR REACTORS.
TIC, 1974, 17P. MN (LA-UR-73-1603)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH, 1973, 5TH SYMPOSIUM,
PRINCETON, NJ, PROC., P.102-6, IEEE,
1974. (537:S989EN 1973)
WILLIAMS, JAMES M. (L-5)
FINCH, FRANCIS T. (L-5)
FRANK, THURMAN G. (L-5)
GILBERT, JOEL S. (L-5)
- 20-41
EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON
THERMAL CONDUCTION IN LASER PRODUCED
PLASMAS.
LASL, 1974, 5P. (LA-5611-MS)
EHLER, A. WAYNE (L-4)
GIOVANIELLI, DAMON V. (L-4)
GODWIN, ROBERT P. (L-4)
MC CALL, GENE H. (L-4)
MORSE, RICHARD L. (T-6)
ROCKWOOD, STEPHEN D. (T-6)

- 20-42
EXPERIMENTS WITH LASER PRODUCED PLASMAS:
ELECTRONS, IONS, AND NEUTRONS.
TIC, 1973. 22P. MN (LA-UR-73-1394)
ALSO PUBLISHED IN:
LASER INTERACTION AND RELATED PLASMA
PHENOMENA. 1973. 3RD WORKSHOP, TROY,
NY. PROC., P.691-711. PLENUM, 1974.
(535:L43IN 3RD V.3B)
GODWIN, ROBERT P. (L-4)
- 20-43
EXTINCTION RATIOS OF GALLIUM ARSENIDE AND
CADMIUM TELLURIDE ELECTRO-OPTICAL
MODULATORS.
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.572-3. 1974. (LA-UR-74-124)*
FIGUEIRA, JOSEPH F. (L-1)
- 20-44
FINAL PROGRESS REPORT. SHORT PULSE
PROPAGATION AND IMAGING, NOVEMBER 1972
THROUGH OCTOBER 1973.
LASL, 1974. 23P. (LA-5583-PR)
LOREE, THOMAS R. (L-4)
KOHLER, DAVID R. (L-4)
MUELLER, MARVIN M. (L-4)
MC CALL, GENE H. (L-4)
- 20-45
FLUORESCENCE RISE TIME OF NE 102
SCINTILLATOR.
NUCL. INSTR. METHODS, V.120, P.533-4,
1974. (LA-UR-74-1116)*
CAMPILLO, ANTHONY J. (L-2)
HYER, RONALD C. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-46
GAIN SATURATION AND SELF FOCUSING
CONSIDERATIONS IN THE DESIGN OF OPTICAL
AMPLIFIERS.
APPL. PHYS. LETTERS, V.24, P.91-3,
1974. (LA-UR-73-1451)*
ELLIOTT, C. JAMES (T-6)
- 20-47
GAS CALORIMETER FOR USE AT 10.6 MICRONS.
OPTICS COMMUN., V.11, P.305-8. 1974.
(LA-UR-74-789)*
REICHEL, WALTER H. (L-1)
STARK, EUGENE E. (L-1)
STRATTON, THOMAS F. (L-1)
- 20-48
GENERATION OF MULTIBAND, SINGLE
NANOSECOND PULSES IN CARBON DIOXIDE
LASERS.
APPL. PHYS. LETTERS, V.25, P.661-3,
1974. (LA-UR-74-1307)*
FIGUEIRA, JOSEPH F. (L-1)
SUTPHIN, HOWARD D. (L-4)
- 20-49
GENERATION OF SUBNANOSECOND CARBON
DIOXIDE LASER PULSES AT 10.6 MICRONS BY
PULSE COMPRESSION TECHNIQUES.
APPL. PHYS. LETTERS, V.25, P.301-3,
1974. (LA-UR-74-689)*
FELDMAN, BARRY J. (T-6)
FIGUEIRA, JOSEPH F. (L-1)
- 20-50
HARMONIC GENERATION AND FREQUENCY MIXING
IN LASER PRODUCED PLASMAS.
APPL. PHYS. LETTERS, V.24, P.406-8,
1974. (LA-UR-73-1847)*
LEE, PING (L-4)
GIOVANELLI, DAMON V. (L-4)
GODWIN, ROBERT P. (L-4)
MC CALL, GENE H. (L-4)
- 20-51
HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS
LASER SYSTEM.
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.267-72. 1974. (LA-UR-73-812)*
MACE, PHILLIP N. (L-2)
TANNER, ROBERT L. (L-2)
- 20-52
HIGH ENERGY, SHORT PULSE CARBON DIOXIDE
LASER SYSTEM.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.763. 1974.
STRATTON, THOMAS F. (L-1)
FENSTERMACHER, CHARLES A. (L-1)
JOLLY, EDWARD L. JR. (L-1)
STAPLETON, ROBERT E. (L-1)
SWICKARD, EARL O. JR. (L-1)
- 20-53
HIGH POWER NEODYMIUM : GLASS LASER SYSTEM
FOR FUSION RESEARCH.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.688-9. 1974.
GILL, DENNIS H. (L-2)
HYER, RONALD C. (L-2)
MACE, PHILLIP N. (L-2)
MC LEOD, JOHN J. (L-2)
PERRY, JOSEPH E., JR. (L-2)
REED, CLYDE H. (L-2)
ROBERTSON, RICHARD H. (L-2)
TERRELL, JAMES (L-2)
WATT, BOB E. (L-2)
- 20-54
HYDRODYNAMICS AND BURN OF OPTIMALLY
IMPOLODED DEUTERIUM - TRITIUM SPHERES.
LASL, 1974. 19P. (LA-5743-MS)
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)
- 20-55
IMPLOSION CHARACTERISTICS OF DEUTERIUM -
TRITIUM SPHERES FOR LASER FUSION
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.949. 1974.
FRALEY, GARY S. (T-6)
- 20-56
INDICATIONS OF STRONGLY FLUX LIMITED
ELECTRON THERMAL CONDUCTION IN LASER
TARGET EXPERIMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.868. 1974.
MALONE, ROBERT C. (T-6)
MC CRORY, ROBERT L. (T-6)
MORSE, RICHARD L. (T-6)

- 20-57
INTENSITY FILTRATION OF LASER LIGHT.
J. APPL. PHYS., V.45, P.3072-8, 1974.
(LA-UR-73-1617)*
THORNE, JAMES M. (L-4)
LOREE, THOMAS R. (L-4)
MC CALL, GENE H. (L-4)
- 20-58
INTERFEROMETRIC MEASUREMENTS OF LASER
PRODUCED PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.854-5, 1974.
KOHLER, DAVID R. (L-4)
GIOVANIELLI, DAMON V. (L-4)
GODWIN, ROBERT P. (L-4)
MC CALL, GENE H. (L-4)
MUELLER, MARVIN M. (L-4)
- 20-59
INVESTIGATIONS OF A UV PREIONIZED
ELECTRICAL DISCHARGE AND CARBON DIOXIDE
LASER.
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.12-20, 1974.
JUDD, O'DEAN P. (***)
WADA, J.
- 20-60
KINETIC MODELING OF ELECTRICALLY EXCITED
CARBON DIOXIDE LASERS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.155, 1974.
LOCKETT, ANDREW M., III (T-6)
- 20-61
KINETIC THEORY OF THE ARGON ION LASER
DISCHARGE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.148, 1974.
ELLIOTT, C. JAMES (T-6)
- 20-62
LASER - FUSION - REACTOR INDUCED
RADIOACTIVITY AND AFTERHEAT.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.464,
1974.
FRANK, THURMAN G. (L-5)
DUDZIAK, DONALD J. (T-1)
HECK, EVELYN L. (L-5)
- 20-63
LASER - TARGET INTERACTIONS.
J. APPL. PHYS., V.45, P.2125-8, 1974.
(LA-UR-73-1462)*
HOFFMAN, C. GORDON (L-4)
- 20-64
LASER AMPLIFIER DESIGN.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.683, 1974.
GOLDSTEIN, JOHN C. (T-6)
HOPF, FREDERIC A. (T-6)
- 20-65
LASER AMPLIFIER DESIGN.
OPTICS COMMUN., V.11, P.118-22, 1974.
(LA-UR-74-264)*
GOLDSTEIN, JOHN C. (T-6)
HOPF, FREDERIC A. (T-6)
- 20-66
LASER CONTROLLED THERMONUCLEAR REACTOR
DESIGN PROBLEMS.
NUCL. FUSION, V.14, SUPPL., P.219-31,
1974.
WILLIAMS, JAMES M. (L-5)
- 20-67
LASER CONTROLLED THERMONUCLEAR REACTOR
MATERIALS REQUIREMENTS.
TIC, 1974, 26P. MN (LA-UR-73-1625)
ALSO PUBLISHED IN:
NUCL. TECH., V.22, P.360-72, 1974.
(LA-UR-73-1052)*
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.17, P.141,
1973.
WILLIAMS, JAMES M. (L-5)
FRANK, THURMAN G. (L-5)
- 20-68
LASER CONTROLLED THERMONUCLEAR REACTOR
SYSTEM STUDIES.
LASL, 1974, 27P. (LA-5718-MS)
WILLIAMS, JAMES M. (L-5) COMP.
FRANK, THURMAN G. (L-5) COMP.
- 20-69
LASER CTR SYSTEM STUDIES.
TIC, 1973, 27P. MN (LA-DC-72-1378)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972.
SYMPOSIUM, AUSTIN, TX. PROC., P.783-
94, TIC, 1974. (CONF-721111)
(537:T255C)
WILLIAMS, JAMES M. (L-5)
- 20-70
LASER DRIVEN SUPERCOMPRESSION OF SHELLS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.949, 1974.
MASON, RODNEY J. (T-6)
GULA, WILLIAM P. (T-6)
FRALEY, GARY S. (T-6)
MALONE, ROBERT C. (T-6)
MORSE, RICHARD L. (T-6)
- 20-71
LASER ENHANCED CHEMICAL REACTIONS AND THE
LIQUID STATE: AN INTRODUCTION.
LASL, 1974, 16P. (LA-5630-MS)
ROFER-DE POORTER, CHERYL K. (L-5)
DE POORTER, GERALD L. (L-3)
- 20-72
LASER FUSION FOR LAYMEN.
LASL, 1974, 111P. (LA-5706-MS)
FREIWALD, DAVID A. (L-5)

- 20-73
LASER FUSION REACTOR CONCEPT UTILIZING
MAGNETIC FIELDS FOR CAVITY WALL
PROTECTION.
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION. 1974. 1ST TOPICAL MEETING. SAN
DIEGO. PROC., V.1, P.83-95. TIC,
1974. (CONF-740402-P1)
FRANK, THURMAN G. (L-5)
FREIWALD, DAVID A. (L-5)
MERSON, THOMAS J. (ENG-6)
- 20-74
LASER INDUCED INSTABILITIES AND ANOMALOUS
ABSORPTION IN DENSE PLASMAS.
TIC, 1973. 25P. MN (LA-UR-73-1123)
ALSO PUBLISHED IN:
LASER INTERACTION AND RELATED PLASMA
PHENOMENA. 1973. 3RD WORKSHOP. TROY,
NY. PROC., P.267-89. PLENUM, 1974.
(535:L343IN 3RD V.3A)
ALSO PUBLISHED IN:
LASER PLASMAS AND NUCLEAR ENERGY. BY
H. HORA. P.249-71. PLENUM, 1975.
(537:H81IL)
DUBOIS, DONALD F. (T-6)
- 20-75
LASER INDUCED PLASMAS IN ELECTRIC FIELDS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.163, 1974.
ARNOLD, GEORGE P. (L-3)
ELLIOTT, C. JAMES (T-6)
WENZEL, ROBERT G. (L-3)
- 20-76
LASER INDUCED RECOVERY OF DEUTERIUM OR
TRITIUM FROM WATER.
TIC, 1974. 9P. MN (LA-UR-74-429)
JENSEN, REED J. (L-3)
LYMAN, JOHN L. (L-3)
- 20-77
LASER PULSE PROPAGATION CODE.
LASL, 1974. 14P. (LA-5607-MS)
SUYDAM, BERGEN R. (T-7)
- 20-78
LINEAR THEORY OF A COLD RELATIVISTIC BEAM
PROPAGATING ALONG A MAGNETIC FIELD.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.533, 1974.
THODE, LESTER E. (T-6)
GODFREY, BRENDAN B. (T-6)
- 20-79
LINEAR THEORY OF THE RELATIVISTIC WEIBEL
AND TWO STREAM INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.533, 1974.
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)
- 20-80
MAGNESIUM FLUORIDE METAL ATOM OXIDATION
LASER FROM EXPLOSIVELY GENERATED METAL
VAPOR.
J. APPL. PHYS., V.45, P.2770-2, 1974.
(LA-UR-74-120)*
DE KOKER, JON G. (L-3)
RICE, WALTER W. (L-3)
- 20-81
MAGNETICALLY PROTECTED FIRST WALL FOR A
LASER INDUCED THERMONUCLEAR REACTION.
LASL, 1974. 6P. (LA-5699-MS)
DEVANEY, JOSEPH J. (L-5)
- 20-82
METAL ATOM OXIDATION LASERS.
LASL, 1974. 96P. (LA-5452)
RICE, WALTER W. (L-3)
BEATTIE, WILLARD H. (L-3)
DE KOKER, JON G. (L-3)
FRADKIN, DAVID B. (L-3)
BIRD, PAUL F. (L-3)
JENSEN, REED J. (L-3)
- 20-83
METHOD OF FOCUSING A HIGH POWERED LASER
BEAM.
FILED 1973, PATENTED JUN. 18, 1974.
(U. S. PATENT 3,817,604)
WATT, BOB E. (L-2)
- 20-84
MODEL FOR THE CW POWER OUTPUT OF THE
HYDROGEN FLUORIDE CHEMICAL LASER.
LASL, 1974. 10P. (LA-5683-MS)
MJOLNESS, RAYMOND C. (T-3)
- 20-85
MODULAR DISC LASER.
FILED 1972, PATENTED NOV.26, 1974.
(U. S. PATENT 3,851,267)
TANNER, ROBERT L. (L-2)
- 20-86
MULTI-KILOJOULE HYDROGEN FLUORIDE
LASER USING INTENSE ELECTRON BEAM
INITIATION OF HYDROGEN - FLUORINE
MIXTURES.
APPL. PHYS. LETTERS, V.25, P.281-3,
1974.
GERBER, R. A.
PATTERSON, E. L.
BLAIR, LARRY S. (L-3)
GREINER, NORMAN R. (L-3)
- 20-87
MULTIBEAM INSTABILITY IN A ONE
DIMENSIONAL MAXWELLIAN QUIET START
PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.967, 1974.
ADAM, J. C.
GITOMER, STEVEN J. (T-6)
- 20-88
MULTISIDED ELECTRON BEAM EXCITED
ELECTRICALLY PUMPED GAS LASER SYSTEMS.
FILED 1973, PATENTED JUN. 18, 1974.
(U. S. PATENT 3,818,375)
STAPLETON, ROBERT E. (L-1)
HUNTER, ROBERT
- 20-89
NANOSECOND GATING OF GENERATION II IMAGE
INTENSIFIERS.
LASL, 1970. DECLASSIFIED 1971. 5P.
(LA-4471-MS)
LIEBER, ALBERT (J-12)

- 20-90
NEW TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS.
LASL, 1974. 10P. (LA-5639-MS)
ELLIOTT, C. JAMES (T-6)
HENDERSON, DALE B. (T-6)
- 20-91
NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.899, 1974.
FORSLUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)
- 20-92
NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.
J. COMPUTAT. PHYS., V.15, P.504-21, 1974.
GODFREY, BRENDAN B. (T-6)
- 20-93
NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION.
IEEE TRANS. PLASMA SCI., V.PS-2, P.277-82, 1974. (LA-UR-74-1007)*
GITOMER, STEVEN J. (T-6)
KRISHNAN, CHIDAMBARAM K.
- 20-94
NUMERICAL SIMULATION OF RF CONFINEMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.968, 1974.
HATCH, A. J.
SHOHET, JUDA LEON
GITOMER, STEVEN J. (T-6)
- 20-95
NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.
AFWL, 1974. 136P. (AFWL-TR-74-146)
LETTERIO, JAMES D.
GODFREY, BRENDAN B. (T-6)
- 20-96
NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.953, 1974.
LARSON, ALVIN R. (L-5)
- 20-97
OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.
IEEE J. QUANTUM ELECTRON., V.QE-10, P.829-31, 1974. (LA-UR-73-1775)*
SINGER, SIDNEY (L-1)
- 20-98
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10, P.716, 1974.
MC CALL, GENE H. (L-4)
BENJAMIN, ROBERT F. (L-4)
GIOVANIELLI, DAMON V. (L-4)
GODWIN, ROBERT P. (L-4)
KEPHART, JOHN F. (L-4)
KOHLE, DAVID R. (L-4)
LIEBER, ALBERT (L-4)
- 20-99
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.565, 1974.
MC CALL, GENE H. (L-4)
GODWIN, ROBERT P. (L-4)
KEPHART, JOHN F. (L-4)
KOHLE, DAVID R. (L-4)
GIOVANIELLI, DAMON V. (L-4)
- 20-100
OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10, P.763-4, 1974.
STARK, EUGENE E. (L-1)
REICHELT, WALTER H. (L-1)
STRATTON, THOMAS F. (L-1)
SCHAPPERT, GOTTFRIED T. (L-1)
LANDAHL, CHARLES E. (L-1)
- 20-101
OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE - NITROGEN MIXTURES.
LASL, 1974. 4P. (LA-5676-MS)
ROCKWOOD, STEPHEN D. (T-6)
- 20-102
PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA.
PHYS. REV. LETTERS, V.33, P.1013-6, 1974. (LA-UR-74-806)*
DUBOIS, DONALD F. (T-6)
FORSLUND, DAVID W. (T-6)
WILLIAMS, E. A.
- 20-103
PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER.
OPTICS COMMUN., V.11, P.220-4, 1974. (LA-UR-74-713)*
FIGUEIRA, JOSEPH F. (L-1)

- 20-104
PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-
BURN CODES FOR LASER - PLASMA INTERACTION
STUDIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.949, 1974.
REMUND, ROBERT N. (T-6)
FRALEY, GARY S. (T-6)
GULA, WILLIAM P. (T-6)
MALONE, ROBERT C. (T-6)
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)
PETSCHKE, ALBERT G. (T-6)
- 20-105
PLASMA CHEMISTRY AND THE DYNAMICS OF
CARBON FOILS IRRADIATED BY HIGH INTENSITY
LASER PULSES.
LASL, 1974, 8P. (LA-5532-MS)
ROCKWOOD, STEPHEN D. (T-6)
- 20-106
PLASMA HEATING BY A RELATIVISTIC ELECTRON
BEAM PROPAGATING ALONG A GUIDE MAGNETIC
FIELD.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.901, 1974.
THODE, LESTER E. (T-6)
GODFREY, BRENDAN B. (T-6)
- 20-107
PLASMA INSTABILITIES IN THE PRESENCE OF A
LARGE THERMAL FLUX.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.900, 1974.
SHANAHAN, WILLIAM R. (T-6)
FORSUND, DAVID W. (T-6)
KINDEL, JOSEPH M. (T-6)
LINDMAN, ERICK L. (T-6)
- 20-108
PLASMA SIMULATION TECHNIQUES APPLIED TO
NONLINEAR OPTICAL PROBLEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.922, 1974.
ELLIOTT, C. JAMES (T-6)
HENDERSON, DALE B. (T-6)
- 20-109
POLYATOMIC MOLECULAR RELAXATION IN THE
ABSENCE OF COLLISIONS.
PHYS. REV. LETTERS, V.33, P.513-5,
1974. (LA-UR-74-830)*
SHAPIRO, STANLEY L. (L-2)
HYER, RONALD C. (L-2)
CAMPILLO, ANTHONY J. (L-2)
- 20-110
POTENTIAL LASERS FOR LCTR APPLICATIONS.
TIC, 1974, 21P. MN (LA-UR-74-594)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.3-12, TIC,
1974. (CONF-740402-P2)
GILBERT, JOEL S. (L-5)
STRATTON, THOMAS F. (L-1)
JENSEN, REED J. (L-3)
- 20-111
PROGRESS REPORT, LASER PROGRAM AT LASL,
JANUARY 1 THROUGH JUNE 30, 1974.
LASL, 1974, 103P. (LA-5739-PR)
SKOBERNE, FREDERICK (L-DO) COMP.
- 20-112
PROGRESS REPORT, LASER PROGRAM AT LASL,
JULY 1 THROUGH DECEMBER 31, 1973.
LASL, 1974, 110P. (LA-5542-PR)
SKOBERNE, FREDERICK (L-DO) COMP.
- 20-113
PROGRESS REPORT, SHORT PULSE PROPAGATION
AND IMAGING, NOVEMBER 1972 - JULY 1973.
LASL, 1974, 12P. (LA-5382-PR)
LOREE, THOMAS R. (L-4)
KOHLE, DAVID R. (L-4)
MC CALL, GENE H. (L-4)
- 20-114
PROPAGATION OF LASER RADIATION THROUGH A
LONG PLASMA COLUMN.
PLASMA PHYS., V.16, P.623-34, 1974.
HUMPHRIES, STANLEY, JR. (P-14)
- 20-115
PULSE UNFOCUSING WITHIN LASER FUSION
REACTORS.
NUCL. ENG. DESIGN, V.30, P.111-6,
1974. (LA-UR-73-1383)*
HENDERSON, DALE B. (TD-8)
- 20-116
REDUCTION OF FRESNEL DIFFRACTION EFFECTS
BY SOFT APERTURES.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.767-8, 1974.
CAMPILLO, ANTHONY J. (L-2)
GILL, DENNIS H. (L-2)
NEWMAN, BRIAN E. (L-2)
SHAPIRO, STANLEY L. (L-2)
TERRELL, JAMES (L-2)
- 20-117
RELATIONSHIP OF SELF FOCUSING TO SPATIAL
INSTABILITY MODES.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.705, 1974.
CAMPILLO, ANTHONY J. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-118
RELATIONSHIP OF SELF FOCUSING TO SPATIAL
INSTABILITY MODES.
APPL. PHYS. LETTERS, V.24, P.178-80,
1974. (LA-UR-73-1552)*
CAMPILLO, ANTHONY J. (L-2)
SHAPIRO, STANLEY L. (L-2)
SUYDAM, BERGEN R. (T-6)
- 20-119
SELF FOCUSING OF VERY POWERFUL LASER
BEAMS, 2.
IEEE J. QUANT. ELECTRON., V.QE-10,
P.837-43, 1974. (LA-UR-74-445)*
SUYDAM, BERGEN R. (T-7)

- 20-120
SOFT APERTURES FOR REDUCING DAMAGE IN
HIGH POWER LASER AMPLIFIER SYSTEMS.
LASL, 1974. 2P. (LA-5486-MS)
CAMPILLO, ANTHONY J. (L-2)
CARPENTER, BERNARD (L-4)
NEWNAM, BRIAN E. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-121
SOFT APERTURES FOR REDUCING DAMAGE IN
HIGH POWER LASER AMPLIFIER SYSTEMS.
OPTICS COMMUN., V.10, P.313-5.
1974. (LA-UR-73-1842)*
CAMPILLO, ANTHONY J. (L-2)
CARPENTER, BERNARD (L-4)
NEWNAM, BRIAN E. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-122
SOME NEUTRONICS ASPECTS OF LASER FUSION
REACTORS.
TIC, 1974. 16P. MN (LA-UR-74-592)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974. 1ST TOPICAL MEETING, SAN
DIEGO. PROC., V.2, P.101-13. TIC,
1974. (CONF-740402-P2)
FRANK, THURMAN G. (L-5)
DUDZIAK, DONALD J. (T-1)
HECK, EVELYN L. (L-5)
- 20-123
SPATIALLY RESOLVED OBSERVATION OF THE
ENERGETIC ELECTRONS FROM A LASER
PRODUCED PLASMA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.886, 1974.
KEPHART, JOHN F. (L-4)
GIOVANIELLI, DAMON V. (L-4)
- 20-124
SPECKLE REDUCTION IN PULSED LASER
PHOTOGRAPHS.
OPTICS COMMUN., V.12, P.24-8. 1974.
(LA-UR-74-998)*
KOHLER, DAVID R. (L-4)
SEITZ, WENDELL LEE (WX-7)
LOREE, THOMAS R. (L-7)
GARDNER, SAMUEL D. (WX-7)
- 20-125
SPECTRUM OF BACKSCATTERED 10 MICROMETRE
LIGHT FROM LASER INDUCED PLASMAS.
ABSTRACT PUBLISHED IN:
J. OPT. SOC. AM., V.64, P.535, 1974.
MITCHELL, KENNETH B. (L-1)
WEISS, PAUL B. (L-1)
- 20-126
SPIN - FLIP RAMAN LASER AS A TUNABLE
INFRARED SOURCE.
J. APPL. PHYS., V.45, P.4980-1. 1974.
(LA-UR-74-702)*
GANLEY, JAMES T. (L-1)
HARRISON, FRANCIS B. (L-1)
LELAND, WALLACE T. (L-1)
- 20-127
STABILITY OF PLASMA AND SURFACE WAVES
WHICH OCCUR IN THE LINEAR MODE CONVERSION
PROCESS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.899, 1974.
KINDEL, JOSEPH M. (T-6)
FORSLUND, DAVID W. (T-6)
LEE, KENNETH (T-6)
LINDMAN, ERICK L. (T-6)
- 20-128
STANDING WAVE PUMPED PARAMETRIC
INSTABILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.881, 1974.
BARDWELL, S.
GOLDMAN, M. V.
DUBOIS, DONALD F. (T-6)
- 20-129
STATUS OF LASER SEPARATION OF BORON
ISOTOPES - JUNE 1974.
LASL, 1974. 10P. (LA-5761-SR)
ROCKWOOD, STEPHEN D. (T-6)
RABIDEAU, SHERMAN W. (CNC-3)
- 20-130
STREAK CAMERA INVESTIGATION OF SELF
FOCUSING ONSET IN GLASS.
APPL. PHYS. LETTERS, V.25, P.408-11.
1974. (LA-UR-74-876)*
CAMPILLO, ANTHONY J. (L-2)
FISHER, ROBERT A. (L-2)
HYER, RONALD C. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-131
SURFACE WAVE ABSORPTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.898-9, 1974.
LINDMAN, ERICK L. (T-6)
KINDEL, JOSEPH M. (T-6)
LEE, KENNETH (T-6)
- 20-132
SURVEY OF LASER INITIATED FUSION
RESEARCH.
HIGH ENERGY LASERS AND THEIR
APPLICATIONS, 1973. SUMMER SCHOOL.
CRYSTAL MOUNTAIN, WA. PROC., P.293-
322. ADDISON-WESLEY, 1974. (535:H638E)
BOYER, KEITH (L-DO)
- 20-133
SYMMETRY AND STABILITY OF LASER INDUCED
IMPLOSIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.868, 1974.
MC CRORY, ROBERT L. (T-6)
HENDERSON, DALE B. (T-6)
MORSE, RICHARD L. (T-6)

- 20-134
SYMMETRY OF LASER DRIVEN IMPLOSIONS.
PHYS. REV. LETTERS, V.32, P.355-8.
1974. (LA-UR-73-1586)*
ALSO PUBLISHED IN:
LASER INTERACTION AND RELATED PLASMA
PHENOMENA. 1973. 3RD WORKSHOP. TROY,
NY. PROC., P.381-91. PLENUM, 1974.
(535:L343IN 3RD V.3A) (LA-UR-73-1586)*
HENDERSON, DALE B. (T-6)
MORSE, RICHARD L. (T-6)
- 20-135
TAMPED THERMONUCLEAR BURN OF DEUTERIUM -
TRITIUM MICROSPHERES.
LASL, 1974. 7P. (LA-5789-MS)
MASON, RODNEY J. (T-6)
MORSE, RICHARD L. (T-6)
- 20-136
TARGET COMPRESSION WITH ONE BEAM.
LASER FOCUS, V.10, NO.12, P.40-3. 1974.
(LA-UR-74-1551)*
MC CALL, GENE H. (L-4)
MORSE, RICHARD L. (T-6)
- 20-137
THEORY OF DRIFT CONE MODES OF
COLLISIONLESS PLASMA IN CYLINDRICAL
GEOMETRY.
LASL, 1974. 13P. (LA-5693-MS)
MC CRORY, ROBERT L. (T-6)
MC CUNE, JAMES E.
- 20-138
THERMONUCLEAR BURN CHARACTERISTICS OF
COMPRESSED DEUTERIUM - TRITIUM
MICROSPHERES.
PHYS. FLUIDS, V.17, P.474-89. 1974.
(LA-UR-73-719)*
FRALEY, GARY S. (TD-8)
LINNEBUR, ELTON J. (TD-8)
MASON, RODNEY J. (TD-8)
MORSE, RICHARD L. (TD-8)
- 20-139
THERMONUCLEAR BURN CHARACTERISTICS OF
VERY SMALL UNIFORM DEUTERIUM - TRITIUM
SPHERES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.949. 1974.
HENDERSON, DALE B. (T-6)
- 20-140
TIME BEHAVIOR OF ARC FORMATION IN
DISCHARGES TRIGGERED BY LASER INDUCED
PLASMAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.163. 1974.
WENZEL, ROBERT G. (L-3)
ELLIOTT, C. JAMES (T-6)
ARNOLD, GEORGE P. (L-3)
- 20-141
TOWARD A LASER POWER AMPLIFIER WITH ZERO
SMALL SIGNAL GAIN.
ABSTRACT PUBLISHED IN:
IEEE J. QUANTUM ELECTRON., V.QE-10,
P.690-1. 1974.
SCHAPPERT, GOTTFRIED T. (L-1)
HARRISON, FRANCIS B. (L-1)
REICHEL, WALTER H. (L-1)
STARK, EUGENE E. (L-1)
- 20-142
TOWARD A ZERO SMALL SIGNAL LASER POWER
AMPLIFIER.
APPL. PHYS. LETTERS, V.25, P.602-5.
1974. (LA-UR-74-1105)*
SCHAPPERT, GOTTFRIED T. (L-1)
STARK, EUGENE E. (L-1)
- 20-143
TOWARD CONTROL OF SELF FOCUSING.
LASER FOCUS, V.10, NO.6, P.62-5. 1974.
CAMPILLO, ANTHONY J. (L-2)
SHAPIRO, STANLEY L. (L-2)
- 20-144
TWO DIMENSIONAL COMPUTER SIMULATION OF A
HIGH POWER LASER BEAM IMPINGING ON A FLAT
TARGET.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.949. 1974.
TAGGART, KEITH A. (T-6)
REMUND, ROBERT N. (T-6)
MORSE, RICHARD L. (T-6)
HENDERSON, DALE B. (T-6)
- 20-145
URANIUM ENRICHMENT.
SCIENCE, V.185, P.1109. 1974.
CANTRELL, CYRUS D., III (L-DOT)
- 20-146
USE OF CANONICAL MOMENTA AS A SOLUTION OF
THE NUMERICAL CHERENKOV EFFECT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.916. 1974.
GODFREY, BRENDAN B. (T-6)
THODE, LESTER E. (T-6)
- 20-147
WINDOW LIMITATIONS FOR CARBON DIOXIDE
LASER FUSION SYSTEMS.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.363.
1974.
REICHEL, WALTER H. (L-1)
STARK, EUGENE E. (L-1)

21. MATHEMATICS AND COMPUTERS

- 21-1
APPLICATIONS OF COMPUTER GENERATED
PERSPECTIVE PLOTS.
TIC. 1974. 27P. MN (LA-UR-74-509)
PRUEITT, MELVIN L. (TD-4)
- 21-2
AYER HEAT CONDUCTION COMPUTER PROGRAM.
LASL. 1974. 24P. (LA-5613-MS)
LAWTON, ROBERT G. (Q-23)
- 21-3
BELL TRANSFORM.
TIC. 1974. 10P. MN (LA-UR-74-831)
EVERETT, CORNELIUS J. (TD-6)
CASHWELL, EDMOND D. (TD-6)
- 21-4
BOOK REVIEW: BIOMETRIKA TABLES FOR
STATISTICIANS. VOL.2, BY E. S. PEARSON
AND H. O. HARTLEY.
J. AM. STATIST. ASSOC., V.69, P.577.
1974.
BECKMAN, RICHARD J. (C-5)
- 21-5
BOOK REVIEW: PROBABILITY AND STATISTICAL
INFERENCE FOR SCIENTISTS AND ENGINEERS.
BY I. N. GIBRA.
J. AM. STATIST. ASSOC., V.69, P.281.
1974.
MOORE, ROGER H. (C-5)
- 21-6
C-DIVISION SOFTWARE BRANCH PROJECT
HANDBOOK.
LASL. 1974. PAGED IN SECTIONS.
(LA-5735-MS)
OLMSTEAD, OLIN K. (C-2)
MITCHELL, ROBERT W. (C-9)
ROSBACH, FRANK J. (C-2)
WILEY, RICHARD A. (C-4)
- 21-7
CAMAC SERIAL SYSTEMS DESCRIPTION FOR
LONG LINE, MULTICRATE APPLICATIONS.
IEEE TRANS. NUCL. SCI., V.NS-21, NO.1,
P.876-80. 1974.
MACHEN, DONALD R. (MP-1)
- 21-8
COMPARATIVE EFFICIENCY OF CERTAIN FINITE
ELEMENT AND FINITE DIFFERENCE METHODS FOR
A HYPERBOLIC PROBLEM.
TIC. 1973. 13P. MN (LA-UR-73-918)
ALSO PUBLISHED IN:
NUMERICAL SOLUTION OF DIFFERENTIAL
EQUATIONS. 1973. 5TH CONFERENCE,
DUNDEE. PROC., LECTURE NOTES IN
MATHEMATICS, P.153-63. SPRINGER
VERLAG, 1974. (517:N971S 1973)
SWARTZ, BLAIR K. (C-6)
WENDROFF, BURTON (C-6)
- 21-9
COMPUTER GENERATED MOVIES: ANOTHER
DIMENSION IN MAN - MACHINE
COMMUNICATIONS.
TIC. 1974. 3P. MN (LA-UR-74-500)
ELLIOTT, RAYMOND L. (C-DO)
ORR, S. ROBERT (TD-2)
PEQUETTE, ELTON C. (J-9)
- 21-10
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR
GRAPHITE MOLDS.
TIC. 1974. 13P. MN (LA-UR-74-1523)
ERICKSON, WILLIAM C. (CMB-6)
NEWFIELD, STEPHEN E. (CMB-6)
- 21-11
CREATION AND COMPARISON OF FINITE
DIFFERENCE ANALOGS OF SOME FINITE ELEMENT
SCHEMES.
TIC. 1974. 40P. MN (LA-UR-74-771)
SWARTZ, BLAIR K. (T-7)
- 21-12
DATA ACQUISITION SOFTWARE FOR A MWPC
SPECTROMETER.
LASL. 1974. 25P. (LA-5609-MS)
HIEBERT, J. C.
NIETHAMMER, ANNE C. (P-12)
- 21-13
DIGITAL IMAGE PROCESSING AT LOS ALAMOS
SCIENTIFIC LABORATORY.
COMPUTER, V.7, P.57-61. 1974.
(LA-UR-73-1638)*
HUNT, BOB R. (C-5)
JANNEY, DONALD H. (M-2)
- 21-14
DIRECT SOLUTION OF THE BIHARMONIC
EQUATION ON RECTANGULAR REGIONS AND THE
POISSON EQUATION ON IRREGULAR REGIONS.
SIAM J. NUMERICAL ANALYSIS, V.11,
P.753-63. 1974. (LA-UR-73-636)*
BUZBEE, BILLY L. (C-4)
DORR, FRED W. (C-4)

- 21-15
DIRECT SOLUTION OF THE DISCRETE
BIHARMONIC EQUATION.
ABSTRACT PUBLISHED IN:
SIAM REV., V.16, P.118, 1974.
BUZBEE, BILLY L. (C-4)
DORR, FRED W. (C-4)
- 21-16
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO
GENERATE THE CLEBSCH-GORDAN COEFFICIENTS
OF $SU(2)$.
LASL, 1974. 8P. (LA-5531)
NACHAMKIN, JACK (T-DOT)
- 21-17
DISTANCE IN GRAPHS AND DIGRAPHS.
ABSTRACT PUBLISHED IN:
NOTICES AM. MATH. SOC., V.21, P.A40,
1974.
ENTRINGER, ROGER C.
JACKSON, DOUGLAS E. (***)
SNYDER, D. A.
- 21-18
DISTRIBUTION OF AN ARBITRARY STUDENTIZED
RESIDUAL AND THE EFFECTS OF UPDATING IN
MULTIPLE REGRESSION.
J. AM. STATIST. ASSOC., V.69, P.199-
201, 1974. (LA-DC-72-1413)*
BECKMAN, RICHARD J. (C-5)
TRUSSELL, HENRY J. (C-5)
- 21-19
ERROR ANALYSIS OF A COMPUTATION OF
EULER'S CONSTANT.
MATH. COMPUTAT., V.28, P.599-604,
1974. (LA-UR-73-920)*
BEYER, WILLIAM A. (T-DOT)
WATERMAN, MICHAEL S.
- 21-20
EXACT AND APPROXIMATE TESTS FOR
UNBALANCED RANDOM EFFECTS DESIGNS.
BIOMETRICS, V.30, P.573-81, 1974.
(LA-UR-73-944)*
TIETJEN, GARY L. (C-5)
- 21-21
EXACT SOLUTION TO PURE BINARY REACTION
PROBLEMS.
LASL, 1974. 5P. (LA-5560)
LEE, CLARENCE E. (TD-1)
- 21-22
FCFTR: A COMPUTER CODE TO CONVERT
STANDARD CCCC INTERFACE FILES TO FTR
FILES.
LASL, 1974. 15P. (LA-5745-MS)
SORAN, PATRICK D. (T-1)
- 21-23
FERMAT FUNCTIONS AND THE GENERAL WALLIS
PRODUCT.
LASL, 1974. 4P. (LA-5774-MS)
EVERETT, CORNELIUS J. (TD-6)
STEIN, PAUL R. (T-7)
- 21-24
FUNCTIONALS ADDITIVE ON A SYMMETRIC SET.
LASL, 1974. 4P. (LA-5519-MS)
CASHWELL, EDMOND D. (TD-6)
EVERETT, CORNELIUS J. (TD-6)
- 21-25
GENERAL PURPOSE COMPUTER PROGRAM FOR
MANIPULATING AND ANALYZING TABULAR DATA.
TIC, 1974. 9P. MN (LA-UR-74-1582)
FULTYN, ROBERT V. (H-1)
- 21-26
GENERALIZED PYTHAGOREAN THEOREM.
AM. MATH. MONTHLY, V.81, P.262-5,
1974. (LA-DC-13324)*
CONANT, DONALD R., JR. (CNC-2)
BEYER, WILLIAM A. (T-DOT)
- 21-27
HIT: A MONTE CARLO TARGET COVERAGE
ROUTINE.
LASL, 1974. 5P. (LA-5408-MS)
BECKMAN, RICHARD J. (C-5)
DOWLER, THOMAS W. (ADWP-2)
- 21-28
INTERACTIVE GRAPHICS SYSTEM FOR
MECHANICAL DRAFTING AND DESIGN.
TIC, 1974. 7P. MN (LA-UR-74-1578)
BEATTY, JERRY N. (J-7)
- 21-29
LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA
HAMILTONIAN.
J. MATH. PHYS., V.15, P.273-4, 1974.
(LA-UR-73-1393)*
NIETO, MICHAEL MARTIN (T-5)
- 21-30
MBD PRIMER.
LASL, 1974. 27P. (LA-5511-MS)
SHLAER, SALLY (MP-1)
- 21-31
MONTE CARLO CODE DEVELOPMENT IN LOS
ALAMOS.
TIC, 1974. 11P. MN (LA-UR-74-897)
CARTER, LELAND L. (TD-6)
CASHWELL, EDMOND D. (TD-6)
EVERETT, CORNELIUS J. (TD-6)
FOREST, CHARLES A. (TD-6)
SCHRANDT, ROBERT G. (TD-6)
TAYLOR, WILLIAM M. (TD-6)
THOMPSON, WILLIAM L. (TD-6)
TURNER, G. DAVID (TD-6)
- 21-32
MULTI. A FORTRAN CODE FOR LEAST SQUARES
SHAPE FITTING OF NEUTRON CROSS SECTION
DATA USING THE REICH-MOORE MULTILEVEL
FORMALISM.
LASL, 1974. 198P. (LA-5473-MS)
AUCHAMPAUGH, GEORGE F. (P-3)
- 21-33
MULTIPLICITY REDUCTION THEOREM: $SU(3)$
CONTAINS $R(3)$.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.442, 1974.
GALBRAITH, HAROLD W. (T-7)
LOUCK, JAMES D. (T-7)

- 21-34
NUMERICAL COMPARISON OF INTEGRAL
EQUATIONS OF THE FIRST AND SECOND KIND
FOR CONFORMAL MAPPING.
ABSTRACT PUBLISHED IN:
NOTICES AM. MATH. SOC., V.21, P.A242.
1974.
HAYES, JOHN K. (ADWP-2)
KAHANER, DAVID K. (C-6)
KELLNER, RICHARD G. (C-6)
- 21-35
NUMERICAL METHODS FOR NONLINEAR VOLTERRA
INTEGRO-DIFFERENTIAL EQUATIONS.
SIAM J. NUMER. ANAL., V.11, P.826-46.
1974. (LA-UR-73-85)*
FELDSTEIN, ALAN
SOPKA, JOHN R. (C-4)
- 21-36
ON DUPLICATE MEASUREMENTS IN THE CHEMICAL
LABORATORY.
TECHNOMETRICS, V.16, P.53-6. 1974.
(LA-UR-74-127)*
TIETJEN, GARY L. (C-5)
BECKMAN, RICHARD J. (C-5)
- 21-37
ON THE USE OF FAST POISSON SOLVERS TO
IMPLEMENT TWO A-STABLE MARCHING
PROCEDURES FOR PARABOLIC PROBLEMS.
ABSTRACT PUBLISHED IN:
SIAM REV., V.16, P.118. 1974.
BUZBEE, BILLY L. (C-4)
- 21-38
PLAID: A GENERAL FINITE ELEMENT COMPUTER
PROGRAM FOR STRESS ANALYSIS OF PLANE AND
ANISYMMETRIC SOLIDS.
LASL, 1974. 31P. (LA-5623-MS)
LAWTON, ROBERT G. (Q-23)
- 21-39
QUARTERLY REPORT. TRANSPORT CODE
DEVELOPMENT AND CODE COORDINATION
PROGRAM. APRIL 1 - JUNE 30, 1974.
LASL, 1974. 9P. (LA-5714-PR)
VIGIL, JOHN C. (T-1) COMP.
- 21-40
QUARTERLY REPORT. TRANSPORT CODE
DEVELOPMENT AND CODE COORDINATION
PROGRAM. JANUARY 1 - MARCH 31, 1974.
LASL, 1974. 9P. (LA-5623-PR)
VIGIL, JOHN C. (T-1) COMP.
- 21-41
QUARTERLY REPORT. TRANSPORT CODE
DEVELOPMENT AND CODE COORDINATION
PROGRAM. OCTOBER 1 THROUGH DECEMBER 31,
1973.
LASL, 1974. 15P. (LA-5577-PR)
VIGIL, JOHN C. (T-1) COMP.
- 21-42
REGION OF NO SECONDARY BIFURCATION FOR
NONLINEAR HAMMERSTEIN OPERATORS.
Z. ANGEW. MATH. PHYS., V.25, P.743-51.
1974. (LA-UR-74-52)*
BAZLEY, NORMAN W.
PIMBLEY, GEORGE H. (T-DOT)
- 21-43
RELATION BETWEEN THE GALERKIN AND
COLLOCATION METHODS USING SMOOTH SPLINES.
SIAM J. NUMERICAL ANALYSIS, V.11,
P.994-6. 1974. (LA-UR-73-1851)*
SWARTZ, BLAIR K. (C-6)
WENDROFF, BURTON (C-6)
- 21-44
RELATIVE EFFICIENCY OF FINITE DIFFERENCE
AND FINITE ELEMENT METHODS. 1. HYPERBOLIC
PROBLEMS AND SPLINES.
SIAM J. NUMERICAL ANALYSIS, V.11,
P.979-93. 1974. (LA-UR-73-837)*
SWARTZ, BLAIR K. (C-6)
WENDROFF, BURTON (C-6)
- 21-45
RELATIVISTIC SCHRODINGER EQUATION.
LASL, 1974. 8P. (LA-5594-MS)
HELLER, LEON (T-5)
- 21-46
REMOTE JOB ENTRY SIMULTANEOUS WITH STAND
ALONE USAGE OF A PDP-11/20.
DECUSCOPE, V.13, NO.3, P.10-1. 1974.
WHITFILL, JIM A. (J-15)
- 21-47
SCRATCH PAD MEMORY FOR BUFFERING
MULTIWIRE PROPORTIONAL CHAMBER DATA.
NUCL. INSTR. METHODS, V.117, P.561-7.
1974. (LA-UR-73-1834)*
BROWN, DAVID (E-4)
- 21-48
SECOND MONTE CARLO SAMPLER.
LASL, 1974. 56P. (LA-5723-MS)
EVERETT, CORNELIUS J. (TD-6)
CASHWELL, EDMOND D. (TD-6)
- 21-49
SETS, NUMBERS, AND UNIVERSES. SELECTED
WORKS.
MIT PRESS, 1974. 709P. (510:U363SN)
ULAM, STANISLAW M. (RASU)
BEYER, WILLIAM A. (T-7) ED.
MYCIELSKI, JAN, ED.
ROTA, GIAN-CARLO (C-DO) ED.
- 21-50
SIGNIFICANCE ARITHMETIC. ON THE ALGEBRA
OF BINARY STRINGS.
STUDIES IN NUMERICAL ANALYSIS: PAPERS
IN HONOUR OF CORNELIUS LANCZOS, B. K.
P. SCAIFE, ED. P.241-51. ACADEMIC,
1974. (517:S278S)
ROTA, GIAN-CARLO (C-DO)
METROPOLIS, NICHOLAS C. (C-DO)
- 21-51
SITUATION IN WHICH THE ESTIMATION OF THE
'INTERACTION VARIANCE' IS THE PURPOSE OF
AN EXPERIMENT.
TIC, 1974. 9P. MN (LA-UR-73-1297)
MOORE, ROGER H. (C-5)
TIETJEN, GARY L. (C-5)
RAMSAY, JOHN B. (M-3)

21-52
 SOLUTIONS OF A DIFFERENTIAL EQUATION
 ARISING IN CHEMICAL REACTOR PROCESSES.
 SIAM J. APPL. MATH., V.26, P.687-716.
 1974. (LA-DC-72-1522)*
 PARTER, SEYMOUR V. (C-6)

21-53
 SOME APPROXIMATION RESULTS FOR HERMITE
 CUBIC SUBSPACES.
 ABSTRACT PUBLISHED IN:
 NOTICES AM. MATH. SOC., V.21, P.A242.
 1974.
 DENDY, JOEL E., JR. (C-6)

21-54
 SOME COMPUTATIONS OF EXPECTED NUMBER OF
 REAL ZEROS OF RANDOM POLYNOMIALS.
 J. MATH. ANAL. APPL., V.48, P.780-4.
 1974. (LA-UR-73-1429)*
 KAHANER, DAVID K. (C-6)

21-55
 SOME FUNNY THINGS HAPPENED ON THE WAY TO
 THE LIMIT OF ERROR STANDARD.
 TIC, 1974. 10P. MN (LA-UR-74-794)
 ALSO PUBLISHED IN:
 NUCL. MATER. MANAGEMENT, V.3, NO.3,
 P.361-9, 1974.
 MOORE, ROGER H. (C-5)

21-56
 SUBROUTINES CALLABLE FROM PDP-11 BASIC
 FOR CONTROL OF A MULTICHANNEL PULSE
 HEIGHT ANALYZER.
 LASL, 1974. 4P. (LA-5772-MS)
 FAST, LARRY V. (A-1)

21-57
 SURFACES OF REVOLUTION WITH VARIOUS
 NORMAL INTERSECTION PROPERTIES.
 LASL, 1974. 6P. (LA-5742-MS)
 EVERETT, CORNELIUS J. (TD-6)
 ORR, S. ROBERT (TD-2)

21-58
 TRIPLET.
 NUCL. SCI. ENG., V.53, P.348-9, 1974.
 (LA-UR-73-1869)*
 REED, WILLIAM H. (T-1)
 HILL, THOMAS R. (T-1)
 BRINKLEY, FOREST W., JR. (T-1)
 LATHROP, KAYE D. (T-1)

21-59
 TWOTRAN-II.
 NUCL. SCI. ENG., V.53, P.348, 1974.
 (LA-UR-73-1445)*
 LATHROP, KAYE D. (T-1)
 BRINKLEY, FOREST W., JR. (T-1)

21-60
 XSMOD: A CODE FOR THE MODIFICATION OF THE
 LOS ALAMOS MASTER DATA FILE.
 LASL, 1974. 116P. (LA-5610-MS)
 HOYT, MARTHA S. (C-7)
 MC GIRT, A. FRANK (C-DO)

22. MEDIUM ENERGY PHYSICS

- 22-1
ACTIVATION CONTROL AT LAMPF.
ABSTRACT PUBLISHED IN:
RADIATION RES., V.59, P.300, 1974.
PARKER, JOSEPH R. (MP-1)
- 22-2
ATOMIC CAPTURE OF NEGATIVE MESONS.
PHYS. REV. LETTERS, V.32, P.132-5.
1974. (LA-UR-73-1375)*
LEON, MELVIN (MP-3)
SEKI, RYOICHI (MP-3)
- 22-3
BHABHA FIRST ORDER WAVE EQUATIONS - I:
C. P. AND T.
PHYS. REV., V.D10, P.4049-63, 1974.
(LA-UR-74-1026)*
KRAJCIK, RICHARD A. (T-5)
NIETO, MICHAEL MARTIN (T-5)
- 22-4
CAPTURE μ^- + LITHIUM -6 + HYDROGEN -3 +
HYDROGEN -3 + ν WITH FINAL STATE
INTERACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.44, 1974.
WIENKE, BRUCE R. (T-1)
MEYER, STUART L.
- 22-5
CAPTURE PROCESSES FOR NEGATIVE MESONS.
PRACTICAL APPLICATIONS OF
ACCELERATORS, 1973, SYMPOSIUM, LOS
ALAMOS, NM. PROC., P.184-200. LASL,
1974. (CONF-730849) (LA-5535-C)
LEON, MELVIN (MP-3)
- 22-6
CHEMICAL EFFECTS IN THE CAPTURE OF
NEGATIVE MESONS IN MATTER.
PRACTICAL APPLICATIONS OF
ACCELERATORS, 1973, SYMPOSIUM, LOS
ALAMOS, NM. PROC., P.247-52. LASL,
1974. (CONF-730849) (LA-5535-C)
KNIGHT, JERE D. (CNC-11)
- 22-7
COMMENT ON PION CONDENSATION.
PHYS. LETTERS, V.B48, P.397-8, 1974.
BERTSCH, G. F.
JOHNSON, MIKKEL (MP-DO)
- 22-8
COMPARISON OF METHODS OF SCATTERING FROM
TWO POTENTIALS.
PHYS. REV., V.C10, P.2166-73, 1974.
(LA-UR-74-909)*
GIBBS, WILLIAM R. (T-5)
- 22-9
COMPARISON OF MUONIC - ATOM AND
ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.
PHYS. REV., V.C9, P.2444-7, 1974.
(LA-UR-73-1446)*
RINKER, GEORGE A., JR. (P-DOR)
FORD, KENNETH W. (T-9)
- 22-10
CROSS SECTIONS FOR ($P1+$, PROTON) REACTIONS
ON LITHIUM -6, BERYLLIUM -9, CARBON -12,
AND OXYGEN -16.
PHYS. REV., V.C9, P.501-7, 1974.
(LA-UR-73-1174)*
AMATO, JAMES J. (MP-7)
BURMAN, ROBERT L. (MP-7)
MACEK, ROBERT J. (MP-6)
OOSTENS, JEAN M. (MP-4)
SHLAER, WILLIAM J. (MP-3)
ARTHUR, EDWARD D. (P-3)
SOBOTTKA, STANLEY (MP-DO)
LAM, W.
- 22-11
E2 NUCLEAR RESONANCE EFFECT IN PIONIC
ATOMS.
PHYS. LETTERS, V.B53, P.141-2, 1974.
(LA-UR-74-1441)*
LEON, MELVIN (MP-3)
- 22-12
EARLY EXPERIMENTS WITH NEUTRON BEAMS AT
LAMPF.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.671, 1974.
SIMMONS, JAMES E. (P-DOR)
- 22-13
EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN
MUONIC X RAYS.
PHYS. REV. LETTERS, V.32, P.337-9,
1974. (LA-UR-73-1641)*
DAVIDSON, J. P.
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
- 22-14
EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK
RADIATIVE MESONIC TRANSITIONS IN PARITY
VIOLATING NUCLEAR PROCESSES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.441, 1974.
HERCZEG, PETER (T-5)
SINGER, PAUL

22-15
FAST VERSATILE PREAMPLIFIER FOR USE IN
PARTICLE PHYSICS.

LASL, 1974, 7P. (LA-5749-MS)
STUDEBAKER, JAN K. (MP-3)

22-16
FIXED POLES AND COMPOSITENESS.

PHYS. REV., V.D9, P.1074-84, 1974.
(LA-UR-73-1232)*
HITE, G. E. (MP-4)
MULLER-KIRSTEN, HARALD J. W.

22-17
GALILEAN INVARIANCE AMBIGUITY IN THE
NONRELATIVISTIC PION - NUCLEON ABSORPTION
OPERATOR.

PHYS. REV., V.C10, P.1225-6, 1974.
(LA-UR-74-378)*
BOLSTERLI, MARK (T-9)
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR.

22-18
HIGH INTENSITY MESON FACILITIES.
NUCLEAR SPECTROSCOPY AND REACTIONS.
J. CERNY, ED. PART A, P.113-27.
ACADEMIC, 1974. (539:C415N)
LIVINGSTON, M. STANLEY (MP-DO)

22-19
HYPERTRITON AS A TEST OF THEORETICAL
HYPERON - NUCLEON POTENTIALS.

PHYS. REV., V.C10, P.888-92, 1974.
(LA-UR-74-668)
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

22-20
IDENTIFYING, MOMENTUM SENSITIVE DETECTOR
SYSTEM FOR NEGATIVE PIONS.

LASL, 1974, 4P. (LA-5648-MS)
MEYER, HANS O. (MP-DO)
SPRINGER, KLAUS (MP-DO)

22-21
IMPULSE CALCULATION FOR (POSITIVE PION,
2 PROTON) REACTIONS.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.667, 1974.
WIENKE, BRUCE R. (T-1)

22-22
IRRADIATION TEST OF SOME MAGNET
COMPONENTS OF THE LAMPF LINEAR
ACCELERATOR.

LASL, 1974, 60P. (LA-5566-MS)
GAGE, AVERY M. (ENG-7)

22-23
K(+) TO PI(+) GAMMA - GAMMA DECAY IN A
CURRENT CURRENT QUARK MODEL AND A UNIFIED
APPROACH TO WEAK RADIATIVE KAON DECAYS.

PHYS. REV., V.D9, P.752-4, 1974.
KAMAL, A. N.
ROCKMORE, RONALD M. (T-9)

22-24
LIQUID HELIUM -II TARGET FOR PRECISION
MEASUREMENTS OF PION CROSS SECTIONS.
NUCL. INSTR. METHODS, V.120, P.143-6,
1974.

MEYER, HANS O. (MP-3)

22-25
LOS ALAMOS Q3D PROJECT.
TIC, 1974, 18P. MN (LA-UR-74-980)
FLYNN, EDWARD R. (P-9)
ORBESEN, STUART D. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)
WOODS, RICHARD (P-9)

22-26
MANAGEMENT INFORMATION FOR LAMPF.

LASL, 1974, 62P. (LA-5707-MS)
JAMESON, ROBERT A. (MP-9)
MILLS, RENE S. (MP-2)
JOHNSTON, MARJORIE D. (MP-9)

22-27
MESON - NUCLEUS SCATTERING AT MEDIUM
ENERGIES.

ANN. REV. NUCL. SCI., V.24, P.249-77,
1974. (LA-UR-74-1870)*
STERNHEIM, MORTON M.
SILBAR, RICHARD R. (T-5)

22-28
MESON COUPLINGS FROM CONSERVED VECTOR
CURRENT AND PARTIALLY CONSERVED AXIAL
VECTOR CURRENT.

PHYS. REV., V.D10, P.1970-80, 1974.
(LA-UR-74-858)*
WEIHOFEN, WILLIAM H. (T-9)

22-29
MUONIUM FORMATION IN NOBLE GASES AND
NOBLE GAS MIXTURES.

PHYS. REV. LETTERS, V.33, P.568-71,
1974.
STAMBAUGH, R. D.
CASPERSON, D. E.
CRANE, T. W.
HUGHES, V. W.
SOUDER, P.
KASPAR, H. F.
THOMPSON, PATRICK A. (MP-10)
ORTH, H.
ZUPUTLITZ, G.

22-30
NAIVE VIEW OF HIGH ENERGY HADRON -
NUCLEUS COLLISIONS.

TIC, 1973, 7P. MN (LA-UR-73-889)
ALSO PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR
STRUCTURE, 1973, 5TH INTERNATIONAL
CONFERENCE, UPPSALA, PROC., P.133-5,
NORTH HOLLAND, 1974. (539:H638E 5TH)
GOLDHABER, ALFRED S. (MP-DO)

22-31
NEUTRON FLUX DISTRIBUTION CALCULATIONS
FOR THE LAMPF RADIATION EFFECTS FACILITY.

ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.465-7,
1974.
DUDZIAK, DONALD J. (T-1)
SIMMONS, MARGARET L. (CMB-8)
RUSSELL, GARY J. (P-11)

- 22-32
NEUTRON FLUX SPECTRA AT LAMPF FOR CTR
RADIATION DAMAGE STUDIES.
TIC, 1973, 23P. MN (LA-DC-72-1364)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS, 1972.
SYMPOSIUM, AUSTIN, TX, PROC., P.898-
909, TIC, 1974, (CONF-721111)
(537:T255C)
DUDZIAK, DONALD J. (T-1)
SHERMAN, MAX A. (CMB-13)
- 22-33
NEUTRONS FROM A HIGH ENERGY PROTON BEAM
STOP.
TIC, 1974, 8P. MN (LA-UR-74-622)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.333-8, TIC,
1974, (CONF-740402-P1)
PERRY, DENNIS G. (CNC-11)
BARR, DONALD W. (CNC-11)
GILMORE, JAMES S. (CNC-11)
DUDZIAK, DONALD J. (T-1)
SIMMONS, MARGARET L. (T-1)
RUSSELL, GARY J. (P-11)
SEGER, PHILIP A. (P-11)
FLUSS, M. J.
RYAN, V. A.
- 22-34
NEUTRONS PRODUCED BY 740 MEV PROTONS ON
URANIUM.
NUCL. INSTR. METHODS, V.117, P.509-12,
1974, (LA-UR-73-768)*
VEESER, LYNN R. (P-3)
FULLWOOD, RALPH R.
ROBBA, ARNOLD A. (A-2)
SHUNK, EDWARD R. (P-3)
- 22-35
NUCLEAR POLARIZATION DEDUCED FROM MUONIC
LEAD -208 MEASUREMENTS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.1007-8, 1974.
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
DAVIDSON, J. P.
- 22-36
OFF SHELL EFFECTS IN PION - DEUTERON
ABSORPTION.
PHYS. REV. LETTERS, V.32, P.1012-5,
1974, (LA-UR-74-374)*
GOPLEN, BRUCE C. (MP-9)
GIBBS, WILLIAM R. (T-5)
LOMON, EARLE L.
- 22-37
OFF SHELL EFFECTS IN PION - NUCLEUS
INTERACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.666-7, 1974.
GIBBS, WILLIAM R. (T-5)
KAUFMANN, WILLIAM B.
- 22-38
PERFORMANCE OF PULSED 805 MHZ, 1.25 MW
KLYSTRONS INTO MISMATCHED LOADS.
LASL, 1974, 184P. (LA-5649)
JAMESON, ROBERT A. (MP-9)
MILLS, RENE S. (MP-2)
CADDY, ROBERT L. (MP-8)
- 22-39
PION CHARGE EXCHANGE REACTIONS WITH
NUCLEI.
PHYS. LETTERS, V.B53, P.329-32, 1974,
(LA-UR-74-1688)*
MILLER, GERALD A. (T-5)
SPENCER, JAMES E. (MP-10)
- 22-40
PION CONDENSATION IN AN INTERACTING
NEUTRON GAS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.576, 1974.
JOHNSON, MIKKEL (MP-DO)
- 22-41
PION EXCHANGE MECHANISM FOR (PION-PLUS,
2PROTON) REACTIONS.
PROGR. THEOR. PHYS., V.52, P.567-77,
1974, (LA-DC-72-779)*
WIENKE, BRUCE R. (T-5)
- 22-42
PION PRODUCTION FROM NUCLEI.
TIC, 1973, 11P. MN (LA-UR-73-1117)
ALSO PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR
STRUCTURE, 1973, 5TH INTERNATIONAL
CONFERENCE, UPPSALA, PROC., P.282-4,
NORTH HOLLAND, 1974, (539:H638E 5TH)
STERNHEIM, MORTON M. (MP-DO)
SILBAR, RICHARD R. (T-5)
- 22-43
PRACTICAL APPLICATIONS OF
ACCELERATORS, 1973, SYMPOSIUM, LOS
ALAMOS, NM, PROCEEDINGS.
LASL, 1974, 412P. (CONF-730849)
(LA-5535-C)
SCHILLACI, MARIO E. (MP-3) ED.
HARPER, KATHERINE H. (MP-DO) ED.
- 22-44
PROCESS $\mu^- + \text{LITHIUM } -6 \text{ YIELDS HYDROGEN } -3 + \text{HYDROGEN } -3 + \text{NU}$ WITH FINAL STATE
INTERACTIONS.
PHYS. REV., V.C9, P.943-7, 1974,
(LA-UR-73-1504)*
WIENKE, BRUCE R. (T-1)
MEYER, STUART L.
- 22-45
PRODUCTION OF CHARGED PIONS BY 730 MEV
PROTONS FROM HYDROGEN AND SELECTED
NUCLEI. ERRATUM.
PHYS. REV., V.D9, P.835, 1974.
COCHRAN, DONALD R. F. (MP-6)
DEAN, PHILLIP N. (H-4)
ET AL

- 22-46
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN
ADDITIONAL PROBE OF THE HADRON - NUCLEUS
INTERACTION.
PHYS. LETTERS, V.B50, P.425-8, 1974.
(LA-UR-74-570)*
LEON, MELVIN (MP-3)
- 22-47
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN
ADDITIONAL PROBE OF THE HADRON - NUCLEUS
POTENTIAL.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.667, 1974.
LEON, MELVIN (MP-3)
- 22-48
QUARTERLY REPORT ON THE MEDIUM ENERGY
PHYSICS PROGRAM FOR THE PERIOD ENDING
APRIL 30, 1974.
LASL, 1974, 75P. (LA-5708-PR)
DUNN, ELEANOR D. (MP-DO) COMP.
- 22-49
QUARTERLY REPORT ON THE MEDIUM ENERGY
PHYSICS PROGRAM FOR THE PERIOD ENDING
JANUARY 31, 1974.
LASL, 1974, 48P. (LA-5580-PR)
DUNN, ELEANOR D. (MP-DO) COMP.
- 22-50
QUARTERLY REPORT ON THE MEDIUM ENERGY
PHYSICS PROGRAM FOR THE PERIOD ENDING
JULY 31, 1974.
LASL, 1974, 52P. (LA-5770-PR)
DUNN, ELEANOR D. (MP-DO) COMP.
- 22-51
QUARTERLY REPORT ON THE MEDIUM ENERGY
PHYSICS PROGRAM FOR THE PERIOD ENDING
OCTOBER 31, 1973.
LASL, 1974, 51P. (LA-5518-PR)
DUNN, ELEANOR D. (MP-DO) COMP.
- 22-52
RELEVANCE OF SOME RECENT NEUTRON - PROTON
POLARIZATION DATA TO T VIOLATION AT
INTERMEDIATE ENERGIES.
PHYS. REV., V.D10, P.3854-6, 1974.
(LA-UR-74-255)*
BRYAN, RONALD A. (T-5)
- 22-53
SIMULTANEOUS STEERING OF H+ AND H- BEAMS
AT LAMPF.
TIC, 1974, 2P. MN (LA-UR-74-847)
JULE, WILLARD E. (MP-9)
CRANDALL, KENNETH R. (MP-9)
- 22-54
SLIT SCATTERING IN THE EPICS BEAM LINE.
LASL, 1974, 9P. (LA-5618-MS)
ENSSLIN, NORBERT (MP-10)
THIESSEN, HENRY A. (MP-10)
- 22-55
SPIN AND ISOSPIN EFFECTS IN PI - HELIUM
-4 SCATTERING.
PHYS. REV., V.C9, P.1690-3, 1974.
FRANCO, VICTOR (P-DOR)
- 22-56
STATUS OF LAMPF EXPERIMENTAL FACILITIES.
TIC, 1973, 10P. MN (LA-UR-73-882)
ALSO PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR
STRUCTURE, 1973, 5TH INTERNATIONAL
CONFERENCE, UPPSALA, PROC., P.416-8,
NORTH HOLLAND, 1974. (539:H636E 5TH)
THIESSEN, HENRY A. (MP-7)
- 22-57
THEORY OF PION SCATTERING BY NUCLEI II.
LASL, 1974, 4P. (LA-5503)
BETHE, HANS A. (T-DO)
JOHNSON, MIKKEL (MP-DO)
- 22-58
TIME OF FLIGHT MEASUREMENTS AT THE LAMPF
LOW ENERGY PION CHANNEL.
LASL, 1974, 5P. (LA-5529-MS)
COOPER, M. D. (LAMPF USER)
- 22-59
TUNEUP OF THE LAMPF LOW ENERGY PION
CHANNEL.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.30, 1974.
REDWINE, ROBERT P. (MP-4)
ALSTER, JONAS (MP-DO)
HURLESON, GEORGE (MP-4)
ET AL.

23. METALLURGY AND CERAMICS TECHNOLOGY

- 23-1
ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL - 1.5 PERCENT IRON COMPOSITE.
LASL, 1974, 14P. (LA-5730-MS)
ZUKAS, EUGENE G. (CMB-8)
SHEINBERG, HASKELL (CMB-6)
- 23-2
BUILDING D PLUTONIUM RECOVERY PROCESS.
LASL, 1945, DECLASSIFIED 1972, 40P.
(LA-443)
DUFFY, D.
ET AL
- 23-3
COMPATIBILITY OF HAFNIALLOYS 105 AND 150 WITH PLUTONIUM -238 DIOXIDE.
LASL, 1974, 8P. (LA-5593)
LAND, CLETIS C. (CMB-5)
PETERSON, DEAN E. (CMB-5)
- 23-4
DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.
J. AM. CERAM. SOC., V.57, P.279-80, 1974. (LA-UR-73-793)*
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.52, P.720, 1973.
BUNCH, JAMES M. (CMB-5)
CLINARD, FRANK W., JR. (CMB-5)
- 23-5
ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL.
TIC, 1974, 14P. MN (LA-UR-74-978)
CASEY, HUGH (CMB-6)
- 23-6
EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.
J. PHYS. CHEM. SOLIDS, V.35, P.795-805, 1974. (LA-UR-73-172)*
SANDENAW, THOMAS A. (CMB-13)
HARBUR, DELBERT R. (CMB-11)
- 23-7
EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE
J. LESS-COMMON METALS, V.34, P.348-51, 1974. (LA-UR-73-951)*
GIORGI, ANGELO L. (CMB-3)
SZKLARZ, EUGENE G. (CMB-3)
WHITE, RALPH W. (CMB-8)
HILL, H. HUNTER (CMB-5)
- 23-8
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.123, 1974.
KEENAN, THOMAS K. (CMB-11)
KENT, RICHARD A. (CMB-11)
ZOCHEK, ROY W. (CMB-11)
- 23-9
FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.
J. LESS-COMMON METALS, V.38, P.239-44, 1974. (LA-UR-74-586)*
HILL, H. HUNTER (CMB-5)
GIORGI, ANGELO L. (CMB-3)
SZKLARZ, EUGENE G. (CMB-3)
SMITH, JAMES L. (CMB-5)
- 23-10
FORTRAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION.
METALLOGRAPHY, V.6, P.91, 1973. (LA-DC-72-1249)*
WALTERS, KENNETH L. (CMB-11)
LEWIS, HOMER D. (CMB-11)
JOHNSON, KAYE ALLAN (CMB-11)
- 23-11
HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM -238 DIOXIDE.
LASL, 1974, 17P. (LA-5524)
MUELLER, BARBARA A. (CMB-5)
ROHR, DANA D. (CMB-5)
MULFORD, ROBERT N. R. (CMB-5)
- 23-12
HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS.
TIC, 1974, 39P. MN (LA-UR-74-937(REV.))
SHERMAN, MAX A. (CMB-8)
BUNSHAH, R. F.
BEALE, HARRY A.
- 23-13
IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.
LASL, 1974, 17P. (LA-5721-MS)
SANDENAW, THOMAS A. (CMB-8)

- 23-14
INCREASED EFFICIENCY OF A DISLOCATION
LINE AS A SINK FOR VACANCIES WHEN IT
OSCILLATES.
RADIATION EFFECTS, V.22, P.9-13, 1974.
(LA-UR-73-203)*
GREEN, WALTER V. (CMB-13)
WEERTMAN, JOHANNES (CMB-8)
- 23-15
LIQUID PHASE SINTERING OF TUNGSTEN -
NICKEL - IRON IN A TEMPERATURE GRADIENT.
LASL, 1974, 11P. (LA-5665-MS)
ZUKAS, EUGENE G. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
- 23-16
MEASUREMENT OF THE THERMAL EXPANSION AND
DYNAMIC ENERGY RESPONSE IN HAFNIA -
TITANIA COMPOSITION.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.322,
1974.
ANDERSON, JAMES L. (CMB-3)
BRIESMEISTER, RICHARD A. (CMB-3)
CARLSON, GARY A.
RUH, ROBERT
- 23-17
MECHANICAL FABRICATION, HEAT TREATMENT,
AND MACHINING OF URANIUM ALLOYS.
TIC, 1974, 59P. MN (LA-UR-71-113)
SANDSTROM, DONALD J. (CMB-6)
BOLAND, J. F.
- 23-18
METASTABLE FCC SOLID SOLUTIONS IN CERIUM
- PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM
THE MELT.
TIC, 1974, 10P. MN (LA-UR-74-973)
GIESSEN, BILL C.
STRUEBING, VERNON O. (CMB-5)
ELLIOTT, REED O. (CMB-5)
- 23-19
METHOD OF FORMING MICRON SIZE, METAL -
CARBIDE PARTICLE DISPERSIONS IN CARBON.
FILED 1973, PATENTED MAY 7, 1974.
(U. S. PATENT 3,809,565)
WEWERKA, EUGENE M. (WX-2)
IMPRESCIA, RICHARD J. (CMB-13)
REISWIG, ROBERT D. (CMB-13)
- 23-20
METHOD OF MAKING A CARBIDE - GRAPHITE
COMPOSITE NUCLEAR FUEL.
FILED 1972, PATENTED MAY 14, 1974.
(U. S. PATENT 3,810,962)
MARTIN, WILLIAM W. (CMB-6)
SCHELL, DONALD H. (CMB-6)
TAUB, JAMES M. (CMB-6)
- 23-21
NEW ETCH FOR LIQUID METAL FAST BREEDER
REACTOR MATERIALS.
TIC, 1974, 12P. MN (LA-UR-73-1812)
BENDER, JOHN H., JR. (CMB-11)
BAKER, CURTIS (CMB-11)
JOHNSON, KAYE ALLAN (CMB-11)
- 23-22
NEW THEORY FOR IMPURITY DIFFUSION IN
METALS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.672, 1974.
DU CHARME, A. R.
STRAUB, GALEN K. (TD-4)
- 23-23
ON THE THEORY OF SOLUTE CLUSTERING IN
BINARY ALLOYS.
SOLID STATE COMMUN., V.15, P.1901-4,
1974. (LA-UR-74-369)*
STRAUB, GALEN K. (TD-4)
DU CHARME, A. R.
HOLLAND, J. R.
- 23-24
PERFORMANCE CHARACTERISTICS OF PLUTONIUM
-238 DIOXIDE HEAT SOURCE MODULES UNDER
SIMULATED OPERATING CONDITIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. CERAM. SOC., V.53, P.620,
1974.
MUELLER, BARBARA A. (CMB-5)
PAVONE, DANIEL (CMB-5)
- 23-25
PRESSURE DEPENDENCE OF T(C) IN THE
(VTTRIUM,THORIUM) CARBIDE SYSTEM.
SOLID STATE COMMUN., V.14, P.93-4,
1974.
HILL, H. HUNTER (CMB-5)
WHITE, RALPH W. (CMB-8)
SZKLARZ, EUGENE G. (CMB-3)
GIORGI, ANGELO L. (CMB-3)
- 23-26
PROGRESS REPORT, RESEARCH ON CARBON -
ALUMINUM COMPOSITES, FEBRUARY 1 - JULY
31, 1974.
LASL, 1974, 24P. (LA-5741-PR)
IMPRESCIA, RICHARD J. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WALLACE, TERRY C. (CMB-3)
WILLIAMS, JOEL M. (CMB-8)
- 23-27
PROGRESS REPORT, RESEARCH ON CARBON -
ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-
JANUARY 31, 1974.
LASL, 1974, 33P. (LA-5567-PR)
IMPRESCIA, RICHARD J. (CMB-8)
LEVINSON, LEONARD S. (CMB-8)
REISWIG, ROBERT D. (CMB-8)
WALLACE, TERRY C. (CMB-3)
WILLIAMS, JOEL M. (CMB-8)
- 23-28
REDETERMINATION OF THE RELATIVE
COMPRESSIONS OF THE CELL EDGES OF
OLIVINE.
J. GEOPHYS. RES., V.79, P.5535-6,
1974. (LA-UR-74-1050)*
OLINGER, BARTON W. (M-6)
HALLECK, PHILLIP M. (WX-7)

- 23-29
RELATIONSHIP OF FABRICATION PARAMETERS TO
SELECTED PROPERTIES OF PLUTONIUM-238
DIOXIDE RADIOISOTOPIC FUELS. I.
DIMENSIONAL CHANGES, STOICHIOMETRIES, AND
MICROSTRUCTURAL FEATURES.
LASL, 1974, 17P. (LA-5622-MS)
KEENAN, THOMAS K. (CMB-11)
KENT, RICHARD A. (CMB-11)
ZOCHER, ROY W. (CMB-11)
- 23-30
SMALL SCALE PREPARATION OF HIGH DENSITY
URANIUM DIOXIDE CYLINDERS.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.168, PAPER NO. NUCL-35, 1974.
TINKLE, MARVIN C. (CMB-8)
STODDARD, STEPHEN D. (CMB-6)
- 23-31
SOME MECHANICAL PROPERTIES OF URANIUM -
MOLYBDENUM ALLOYS.
LASL, 1955, DECLASSIFIED 1970, 51P.
(LA-1899)
HOFFMAN, C. GORDON (CMR-6)
ET AL
- 23-32
SPHEROIDIZATION AND COATING OF LITHIUM
DEUTERIDE.
LASL, 1972, DECLASSIFIED 1974, 16P.
(LA-4905-MS)
SHEINBERG, HASKELL (CMB-6)
RILEY, ROBERT E. (CMB-6)
TAUB, JAMES M. (CMB-6)
- 23-33
STEADY STATE IRRADIATION BEHAVIOR OF
SODIUM BONDED URANIUM - PLUTONIUM
CARBIDE.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.91,
1974.
LATIMER, TRENT W. (CMB-11)
BARNER, JOHN O. (CMB-11)
KERRISK, JERRY F. (CMB-11)
GREEN, JERE L. (CMB-11)
- 23-34
TENSILE FATIGUE BEHAVIOR OF MOLYBDENUM AT
1153 DEGREES KELVIN.
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.2, P.456-61, TIC,
1974, (CONF-740402-P2)
ALSO PUBLISHED AS:
TIC, 1974, 7P. MN (LA-UR-74-657)
YESKE, RONALD A. (CMB-8)
GREEN, WALTER V. (CMB-8)
ZUKAS, EUGENE G. (CMB-8)
- 23-35
THEORY FOR SOLUTE VACANCY BINDING
ENERGIES IN BINARY ALLOYS.
J. APPL. PHYS., V.45, P.946-8, 1974.
DU CHARME, A. R.
STRAUB, GALEN K. (TD-4)
- 23-36
THEORY OF HIGH TEMPERATURE
INTERCRYSTALLINE FRACTURE UNDER STATIC OR
FATIGUE LOADS, WITH OR WITHOUT
IRRADIATION DAMAGE.
MET. TRANS., V.5, P.1743-51, 1974.
(LA-UR-73-1715)*
WEERTMAN, JOHANNES (CMB-8)
- 23-37
THEORY OF SOLUTE CLUSTERING IN BINARY
ALLOYS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.372, 1974.
STRAUB, GALEN K. (TD-4)
DU CHARME, A. R.
HOLLAND, J. R.
- 23-38
URANIUM - MOLYBDENUM ALLOY FUELS FOR
PULSED REACTORS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.131,
1974.
TAUB, JAMES M. (CMB-6)
- 23-39
URANIUM (0.83 WEIGHT PERCENT) TITANIUM
ALLOY: COOLING RATES OF GAMMA QUENCHED
ALLOY, RESULTING MICROSTRUCTURE AND
RESPONSE TO AGING.
LASL, 1974, 12P. (LA-5442-MS)
JAVORSKY, CHARLES A. (CMB-6)

24. NEUTRONICS AND CRITICALITY STUDIES

- 24-1
BARE URANIUM (93) CARBON (170) ASSEMBLY.
LASL, 1974. 6P. (LA-4798-MS)
HOOGTERP, J. CARLTON (P-5)
HANSEN, GORDON E. (P-5)
PAXTON, HUGH C. (P-5)
- 24-2
CRITICALITY EXPERIMENTS AND DATA.
NUCLEAR CRITICALITY SAFETY. 1973.
SHORT COURSE, TAOS, NM. PROC., P.34-
55. TIC, 1974. (TID-26286)
PAXTON, HUGH C. (P-5)
- 24-3
DISCRETE ORDINATES NEUTRONIC ANALYSIS OF
A REFERENCE THETA PINCH REACTOR (RTPR).
TIC, 1973. 22P. MN (LA-DC-72-1427)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS. 1972.
SYMPOSIUM. AUSTIN, TX. PROC., P.884-
98. TIC, 1974. (CONF-721111) (537:T255C)
(537:T255C)
DUDZIAK, DONALD J. (T-1)
- 24-4
LS SUB-N OPERATOR METHOD IN TRANSPORT
THEORY.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.149-50.
1974.
LEE, CLARENCE E. (TD-1)
- 24-5
METHOD FOR MEASURING FAST DECAY OF A NEAR
CRITICAL ASSEMBLY.
LASL, 1946. DECLASSIFIED 1967. 33P.
(LA-486)
ANDERSON, ERNEST C.
ET AL
- 24-6
METHODS OF TREATMENT OF DISPLACEMENT
INTEGRAL EQUATIONS.
LASL, 1944. DECLASSIFIED 1972. 111P.
(LA-53)
FRANKEL, STANLEY P.
NELSON, ELDRED
- 24-7
MODIFIED DIFFERENCE SCHEMES FOR THE
TRANSPORT EQUATION SOLUTION.
LASL, 1974. 21P. (LA-5760)
CARLSON, BENGT G. (T-1)
- 24-8
NEUTRON MULTIPLICATION IN SPHERES OF 25.
LASL, 1945. DECLASSIFIED 1967. 24P.
(LA-402)
ANDERSON, HERBERT L.
- 24-9
NEUTRONIC ANALYSIS OF A TRITIUM
PRODUCTION INTEGRAL EXPERIMENT.
TIC, 1973. 14P. MN (LA-DC-72-1382)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED THERMONUCLEAR
FUSION EXPERIMENTS AND THE ENGINEERING
ASPECTS OF FUSION REACTORS. 1972.
SYMPOSIUM. AUSTIN, TX. PROC., P.910-7.
TIC, 1974. (CONF-721111) (537:T255C)
MUIR, DOUGLAS W. (T-2)
WYMAN, MARVIN E.
- 24-10
NEW PROCEDURE FOR THE DETERMINATION OF
NEUTRON MULTIGROUP TRANSFER MATRICES.
NUCL. SCI. ENG., V.55, P.329-41. 1974.
WEISBIN, CHARLES R. (T-2)
SORAN, PATRICK D. (T-2)
HENDRICKS, JOHN S. (T-2)
- 24-11
TRANSPORT EQUATION DIFFERENCE SCHEMES ON
MESH CELLS CONTAINING MATERIAL
INTERFACES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.142-4.
1974.
HILL, THOMAS R. (T-1)

25. NUCLEAR PHYSICS

25-1
(TRITON, PROTON) REACTION TO THE LOW LYING
LEVELS OF THE ZIRCONIUM ISOTOPES.
NUCL. PHYS., V.A218, P.285-306, 1974.
(LA-UR-73-1112)*
FLYNN, EDWARD R. (P-12)
BEERY, JEROME G.
BLAIR, ALLEN G. (DIR OFF)

25-2
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR
NEUTRON PRODUCTION BY THE HYDROGEN -2
(DEUTERON, NEUTRON) HELIUM -3 REACTION
WITH E(D) FROM 6 TO 17 MEV AND BY THE
HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3
REACTION WITH E(P) FROM 6 TO 16 MEV.
LASL, 1974, 6P. (LA-5732-MS)
DROSG, MANFRED (P-3)
DRAKE, DARRELL M. (P-3)

25-3
ANALYSIS OF RESULTS OF CALCULATIONS OF
FEYNMAN GRAPHS FOR NUCLEON - NUCLEON
SCATTERING.
TIC, 1974, 15P. MN (LA-UR-74-765)
GAMMEL, JOHN L. (T-9)
MENZEL, MARY T. (T-9)

25-4
ANALYSIS OF ZPPR/FTR-2 TLD MEASUREMENTS
USING ENDF/B-III DATA.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.395-6,
1974.
MUIR, DOUGLAS W. (T-2)
LA BAUVE, RAPHAEL J. (T-2)

25-5
ANALYTIC REPRESENTATION FOR NEUTRON
ELECTROPRODUCTION STRUCTURE FUNCTIONS.
PHYS. REV., V.D10, P.326-9, 1974.
(LA-UR-74-300)*
SHEPARD, H. K.
SIMMONS, LEONARD M. (T-DO)

25-6
ANALYZING POWER MEASUREMENTS IN THE
TRITON (PROTON, NEUTRON) HELIUM -3
REACTION.
PHYS. REV., V.C9, P.1292-9, 1974.
(LA-UR-73-1862)*
JARMER, JOHN J. (MP-2)
HAIGHT, ROBERT C.
SIMMONS, JAMES E. (P-DOR)
MARTIN, JOHN C. (H-10)

25-7
ANGULAR DISTRIBUTIONS IN THE RADIATIVE
CAPTURE OF 14 MEV NEUTRONS.
TIC, 1974, 6P. MN (LA-UR-74-1143)
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (P-3)
HALPERN, ISAAC

25-8
ANNUAL PROGRESS REPORT OF THE DEFENSE
NUCLEAR AGENCY SPONSORED CROSS SECTION
EVALUATION GROUP, LOS ALAMOS SCIENTIFIC
LABORATORY, JULY 1, 1973 THROUGH JUNE 30,
1974.
LASL, 1974, 19P. (LA-5759-PR)
YOUNG, PHILLIP G., JR. (T-2)
HALE, GERALD M. (T-2)
HARRIS, DONALD R., JR. (T-2)

25-9
APPARENT ABSENCE OF ELECTROMAGNETIC OR
STRONG INTERACTION TIME REVERSAL
VIOLATION IN THE DECAY OF METASTABLE
HAFNIUM -180.
PHYS. REV., V.C10, P.840-52, 1974.
(LA-UR-74-107)*
KRANE, KENNETH S.
MURDOCH, BRUCE T. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)

25-10
APPLICATION OF SHIELDING BENCHMARK
EXPERIMENTS TO THE TESTING OF NUCLEAR
DATA, CALCULATIONAL METHODS, AND
PROCEDURES.
TIC, 1974, 26P. MN (LA-UR-74-600)
LA BAUVE, RAPHAEL J. (T-2)
HARRIS, DONALD R., JR. (T-2)
MUIR, DOUGLAS W. (T-2)
HEMMIG, P. B.

25-11
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT QUARTERLY PROGRESS REPORT,
APRIL 1 THROUGH JUNE 30, 1974.
LASL, 1974, 15P. (LA-5727-PR)
HALE, GERALD M. (T-2) ED.
HARRIS, DONALD R., JR. (T-2) ED.
MAC FARLANE, ROBERT E. (T-2) ED.

25-12
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT QUARTERLY PROGRESS REPORT,
JANUARY 1 THROUGH MARCH 31, 1974.
LASL, 1974, 24P. (LA-5655-PR)
HALE, GERALD M. (T-2) ED.
HARRIS, DONALD R., JR. (T-2) ED.
MAC FARLANE, ROBERT E. (T-2) ED.

- 25-13
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT. QUARTERLY PROGRESS REPORT.
JULY 1 THROUGH SEPTEMBER 30, 1974.
LASL, 1974. 25P. (LA-5804-PR)
HALE, GERALD M. (T-2) ED.
HARRIS, DONALD R., JR. (T-2) ED.
MAC FARLANE, ROBERT E. (T-2) ED.
- 25-14
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT. QUARTERLY PROGRESS REPORT
FOR THE PERIOD JULY 1 THROUGH SEPTEMBER
30, 1973.
LASL, 1974. 8P. (LA-5546-PR)
HARRIS, DONALD R., JR. (T-2) ED.
- 25-15
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT. QUARTERLY PROGRESS REPORT.
OCTOBER 1 THROUGH DECEMBER 31, 1973.
LASL, 1974. 15P. (LA-5570-PR)
HALE, GERALD M. (T-2) ED.
HARRIS, DONALD R., JR. (T-2) ED.
MAC FARLANE, ROBERT E. (T-2) ED.
- 25-16
ATTEMPTED INTENSE D-D NEUTRON SOURCE.
LASL, 1946. DECLASSIFIED 1967. 7P.
(LAMS-417)
WILSON, ROBERT R.
- 25-17
BINX - BCD INTERPRETATION OF NEUTRON X
SECTIONS.
LASL, 1974. 14P. (LA-5644-MS)
SORAN, PATRICK D. (T-1)
- 25-18
BRANCHING RATIO FOR THE DECAY OF IODINE -
135 TO THE ISOMERS OF XENON -135.
J. INORG. NUCL. CHEM., V.36, P.201-3.
1974. (LA-UR-73-324)*
DANIELS, WILLIAM R. (CNC-11)
FORD, GEORGE P. (CNC-11)
HOFFMAN, DARLEANE C. (CNC-11)
WOLFSBERG, KURT (CNC-11)
- 25-19
CALCULATED GROUND STATE PROPERTIES OF
HEAVY NUCLEI.
NUCL. PHYS., V.A229, P.292-319, 1974.
MOLLER, PETER (T-9)
NILSSON, SVEN GOSTA
NIX, JAMES R. (T-9)
- 25-20
CALCULATION OF NUCLEAR LEVEL AND STATE
DENSITIES FOR IRON -56, COBALT -59,
NICKEL -60, NICKEL -62, COPPER -63, AND
COPPER -65.
ABSTRACT PUBLISHED IN:
AM. CHEM. SOC. ABSTRACTS OF PAPERS,
V.167, PAPER NO. NUCL-29, 1974.
FORD, GEORGE P. (CNC-11)
- 25-21
CALCULATION OF THE POSITIVE PION +
DEUTERON TO PROTON + PROTON CROSS SECTION
FROM 0 - 140 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.44, 1974.
GOPLEN, BRUCE C. (MP-9)
GIBBS, WILLIAM R. (T-5)
LOMON, EARLE L.
- 25-22
CALCULATIONS OF NEUTRON - PROTON
BREMSSTRAHLUNG CROSS SECTIONS INCLUDING
THE ONE PION EXCHANGE CURRENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.576, 1974.
THOMPSON, RICHARD H. (T-5)
HELLER, LEON (T-5)
- 25-23
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS
IN THE REACTION HELIUM -3 PLUS GAMMA GOES
TO DEUTERON PLUS PROTON AND TRITON PLUS
GAMMA GOES TO DEUTERON PLUS NEUTRON.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.451, 1974.
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.
- 25-24
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI
IN A MULTIPLE SCATTERING FORMALISM.
PHYS. REV., V.C9, P.1340-51, 1974.
(LA-UR-73-1532)*
GIBBS, WILLIAM R. (T-5)
JACKSON, JANE C.
KAUFMANN, WILLIAM B.
- 25-25
COMMENTS ON E1:M2 COMPETITION IN
GADOLINIUM -154.
PHYS. REV., V.C9, P.1196-7, 1974.
(LA-UR-73-1490)*
LOBNER, KURT E. (P-2)
BUNKER, MERLE E. (P-2)
- 25-26
COMPARISON OF METHODS OF SCATTERING
FROM TWO POTENTIALS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.60, 1974.
GIBBS, WILLIAM R. (T-5)
- 25-27
COMPARISON OF THE EXPERIMENTAL CROSS
SECTION FOR KRYPTON(++) + NEON TO KRYPTON
(+) + NEON(+) WITH SOME SIMPLE THEORIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.157, 1974.
MAIER, WILLIAM B., II (L-3)
- 25-28
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR
DATA AND INTEGRAL OBSERVATIONS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.340-1,
1974.
HARRIS, DONALD R., JR. (T-2)

- 25-29
COORDINATE SPACE STUDY OF KOWALSKI'S
THREE TERM SEPARABLE APPROXIMATION FOR
THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.
UNIV. OF MARYLAND, 1974. 22P
(ORO-4317-43)
PICKER, H. S.
STEPHENSON, GERARD J., JR. (***)
- 25-30
COUPLED NEUTRON - GAMMA MULTIGROUP -
MULTITABLE CROSS SECTIONS FOR 29
MATERIALS PERTINENT TO NUCLEAR WEAPONS
EFFECT CALCULATIONS GENERATED BY LASL/TD
DIVISION.
LASL, 1971. 150P. (LA-5137)
SANDMEIER, HENRY A. (TD-6)
HANSEN, GORDON E. (P-5)
SEAMON, ROBERT E. (TD-6)
HIRONS, THOMAS J. (TD-6)
MARSHALL, ALAN H. (C-4)
- 25-31
CROSS SECTION FOR THE DELAYED NEUTRON
YIELD FROM THE BERYLLIUM -9 (NEUTRON,
PROTON) LITHIUM -9 REACTION AT NEUTRON
ENERGIES OF 14.5 AND 14.9 MEV.
NUCL. SCI. ENG., V.54, P.190-1. 1974.
(LA-UR-73-1870)*
AUGUSTSON, RONALD H. (A-1)
MENLOVE, HOWARD O. (A-1)
- 25-32
CROSS SECTIONS OF URANIUM -235 AND
PLUTONIUM -239 FOR NEUTRONS PRODUCING
GAMMA RAYS.
NUCL. SCI. ENG., V.55, P.427-39. 1974.
(LA-UR-74-507)*
DRAKE, DARRELL M. (P-3)
- 25-33
DECAY OF 75 SEC METASTABLE DYSPROSIUM
-165.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.645. 1974.
STARNER, JOHN W. (P-2)
NIELSEN, BENT S. (P-2)
BUNKER, MERLE E. (P-2)
- 25-34
DENSE BARYON MATTER CALCULATIONS WITH
REALISTIC POTENTIALS.
NUCL. PHYS., V.A230, P.1-58. 1974.
(LA-UR-74-266)*
BETHE, HANS A. (T-DO)
JOHNSON, MIKKEL (MP-DO)
- 25-35
DETERMINATION OF THE NEUTRON HALO FROM
ANTI-PROTON ABSORPTION.
PHYS. LETTERS, V.B48, P.173-5. 1974.
(LA-UR-73-1467)*
LEON, MELVIN (MP-3)
SEKI, RYOICHI (MP-3)
- 25-36
DIRECTIONAL CORRELATION TESTS FOR
VIOLATION OF TIME REVERSAL INVARIANCE IN
GAMMA RAYS OF METASTABLE HAFNIUM -180,
THULIUM -169, LUTETIUM -175, AND TUNGSTEN
-184.
THESIS, UTAH STATE UNIV., 1974.
LASL, 1974. 186P. (LA-5775-T)
MURDOCH, BRUCE T. (P-8)
- 25-37
DYNAMIC POLARIZATION OF PROTONS AND
DEUTERONS IN SOLID DEUTERIUM HYDRIDE.
NUCL. INSTR. METHODS, V.117, P.477-85.
1974. (LA-UR-73-1125)*
SOLEM, JOHNDALE C. (TD-1)
- 25-38
DYNAMICS OF FISSION AND FUSION WITH
APPLICATIONS TO THE FORMATION OF
SUPERHEAVY NUCLEI.
TIC, 1973. 23P. MN (LA-UR-73-981)
ALSO PUBLISHED IN:
PHYSICS AND CHEMISTRY OF FISSION,
1973. 3RD IAEA SYMPOSIUM, ROCHESTER,
NY. PROC., V.2, P.273-86. IAEA, 1974.
(IAEA-SM-174/74) (539:163SF 3RD V.2)
(LA-UR-73-981)*
SIEK, ARNOLD J. (T-9)
NIX, JAMES R. (T-9)
- 25-39
EFFECTS OF THE PASSAGE OF IONIZING
PARTICLES THROUGH A LIQUID CRYSTAL.
MOL. CRYSTALS, V.26, P.71-4. 1974.
NAGLE, DARRAGH E. (MP-DO)
DOANE, J. WILLIAM
MADEY, RICHARD
SAUPE, ALFRED
- 25-40
ELASTIC AND INELASTIC CROSS SECTION FOR
E - MERCURY SCATTERING FROM MERCURY
TRANSPORT DATA.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.151. 1974.
ROCKWOOD, STEPHEN D. (T-6)
- 25-41
ELASTIC SCATTERING OF LIGHT PARTICLES BY
CARBON, OXYGEN, AND NITROGEN.
PHYS. REV., V.C10, P.1748-52. 1974.
(LA-UR-74-982)*
JARMIE, NELSON (P-9)
JETT, JAMES H. (H-10)
SEMPER, R. J.
- 25-42
ELASTIC SCATTERING OF NEUTRONS FROM
HELIUM -3 BETWEEN 7.9 AND 23.7 MEV.
PHYS. REV., V.C9, P.179-87. 1974.
(LA-UR-73-1421)*
DROSG, MANFRED (P-3)
MC DANIELS, DAVID K. (P-DOR)
HOPKINS, JOHN C. (J-DO)
SEAGRAVE, JOHN D. (P-DOR)
SHERMAN, ROBERT H. (Q-26)
KERR, EUGENE C. (Q-26)

- 25-43
ELECTROMAGNETIC TRANSITION RATES IN
POLONIUM -215.
NUCL. PHYS., V.A220, P.367-80, 1974.
(LA-UR-73-1511)*
BOWMAN, J. DAVID (MP-4)
LEY, LOTHAR
RICHTER, BERNT
- 25-44
ELEMENTARY MODES OF EXCITATION IN THE
LEAD -204 (TRITON,PROTON) LEAD -206
REACTION.
NUCL. PHYS., V.A221, P.509-27, 1974.
(LA-UR-73-1120)*
FLYNN, EDWARD R. (P-12)
BROGLIA, RICARDO A. (P-DOR)
LIOTTA, R.
NILSSON, B.
- 25-45
EVIDENCE FOR CHARGE EXCHANGE COUPLING IN
LEAD -206 (TRITON,PROTON) LEAD -208.
PHYS. REV., V.C10, P.1239-41, 1974.
BERNSTEIN, EUGENE M.
SOLOMON, A.
SOGA, M.
ARMSTRONG, DALE D. (P-12)
- 25-46
EVXS: A CODE TO GENERATE MULTIGROUP CROSS
SECTIONS FROM THE LOS ALAMOS MASTER DATA
FILE.
LASL, 1974, 47P. (LA-4855)
ASPREY, MARGARET E. (C-3)
LAZARUS, ROGER B. (C-DO)
SEAMON, ROBERT E. (TD-6)
- 25-47
FORMALISM FOR THE TRITON (DEUTERON,
NEUTRON) HELIUM -4 AND HELIUM -3
(DEUTERON,PROTON) HELIUM -4 REACTIONS.
ANN. PHYS., V.85, P.152-213, 1974.
(LA-DC-72-1319)*
KEATON, POSEY W., JR. (P-DOR)
GAMMEL, JOHN L. (T-9)
OHLSEN, GERALD G. (P-DOR)
- 25-48
FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY
PRODUCTION CROSS SECTIONS.
LASL, 1974, 12P. (LA-5662-MS)
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (P-3)
SILBERT, MYRON G. (P-3)
- 25-49
GAMMA RAY ANGULAR DISTRIBUTIONS FROM
RADIATIVE CAPTURE OF 14 MEV NEUTRONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.497, 1974.
ARTHUR, EDWARD D. (P-3)
DRAKE, DARRELL M. (P-3)
HALPERN, ISAAC
- 25-50
GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA
THE ALUMINUM -27 (PROTON,GAMMA) SILICON -
28 REACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.498, 1974.
MOSS, CALVIN E. (P-9)
- 25-51
HALF LIFE OF EUROPIUM -155.
J. INORG. NUCL. CHEM., V.36, P.3874-5,
1974. (LA-UR-73-1696)*
DANIELS, WILLIAM R. (CNC-11)
BARR, DONALD W. (CNC-11)
GRISHAM, GENEVIEVE F. (CNC-11)
LAWRENCE, FRANCINE O. (CNC-11)
- 25-52
HOW MUCH OF A BUBBLE IS THERE IN MERCURY
-184?
NUCL. PHYS., V.A222, P.221-34, 1974.
NILSSON, S. G. (P-DOR)
NIX, JAMES R. (T-9)
MOLLER, PETER (T-9)
- 25-53
INTENSE NEUTRON SOURCE FACILITY USING A
SUPERSONIC JET TARGET.
TIC, 1974, 11P. MN (LA-UR-74-599)
ALSO PUBLISHED IN:
TECHNOLOGY OF CONTROLLED NUCLEAR
FUSION, 1974, 1ST TOPICAL MEETING, SAN
DIEGO, PROC., V.1, P.313-23, TIC,
1974. (CONF-740402-P1)
CLINE, MICHAEL C. (T-3)
EMIGH, C. ROBERT (P-DOR)
- 25-54
K- ABSORPTION AND THE NEUTRON HALO OF
LEAD.
NUCL. PHYS., V.B74, P.68-76, 1974.
(LA-UR-74-55)*
LEON, MELVIN (MP-3)
SEKI, RYOICHI (MP-3)
- 25-55
KRYPTON -84 (TRITON,PROTON) KRYPTON -86
AND KRYPTON -86 (TRITON,PROTON) KRYPTON
-88 REACTIONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.450, 1974.
RILEY, P. J.
OLSEN, D. K.
FLYNN, EDWARD R. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)
- 25-56
LASL STATUS REPORT TO THE U. S. NUCLEAR
DATA COMMITTEE.
TIC, 1974, 26P. MN (LA-UR-73-1700)
MOORE, MICHAEL S. (P-11)

- 25-57
LEVELS OF SELENIUM -84 FROM THE SELENIUM
-82 (TRITON, PROTON) SELENIUM -84
REACTION.
PHYS. REV., V.C9, P.1467-73. 1974.
(LA-UR-73-1741)*
KNIGHT, JERE D. (CNC-11)
ORTH, CHARLES J. (CNC-11)
LELAND, WALLACE T. (L-1)
TUCKER, ALLEN B. (CNC-11)
- 25-58
LIMITS OF VALIDITY OF THE VAVILOV ENERGY
STRAGGLING CALCULATION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.429. 1974.
JARMIE, NELSON (P-9)
PINDZOLA, M. S.
BICHSEL, HANS
- 25-59
LINX: LIBRARY INTERPRETATION OF NEUTRON X
SECTIONS.
LASL, 1974. 15P. (LA-5629-MS)
SORAN, PATRICK D. (T-1)
- 25-60
LONGITUDINAL POLARIZATION TRANSFER IN THE
TRITON (PROTON,NEUTRON) HELIUM -3
REACTION.
PHYS. LETTERS, V.B48, P.215-7. 1974.
(LA-UR-73-1799)*
JARMER, JOHN J. (MP-2)
MARTIN, JOHN C. (H-10)
OHLSEN, GERALD G. (P-DOR)
SALZMAN, GARY C. (H-10)
SIMMONS, JAMES E. (P-DOR)
- 25-61
MAGNESIUM -26 (TRITON,HELIUM -3) REACTION
AND A SPHERICAL SHELL MODEL DESCRIPTION
OF SODIUM -26.
PHYS. REV., V.C9, P.210-5. 1974.
(LA-UR-73-1363)*
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.17. 1974.
FLYNN, EDWARD R. (P-12)
GARRETT, J. D. (P-DOR)
- 25-62
MAGNETIC FORM FACTOR OF HELIUM -3.
PHYS. REV. LETTERS, V.32, P.1325-7.
1974. (LA-UR-74-615)*
BRANDENBURG, RICHARD A. (T-5)
KIM, YEONG E. (T-5)
TUBIS, ARNOLD
- 25-63
MASS YIELD DISTRIBUTIONS IN THE REACTION
OF KRYPTON -87 IONS WITH URANIUM -238.
PHYS. REV. LETTERS, V.33, P.502-5.
1974.
KRATZ, J. V.
NORRIS, ANDREW E. (CNC-11)
SEABORG, GLENN T.
- 25-64
MEASUREMENT OF PARITY VIOLATION IN
PROTON - PROTON SCATTERING AT 15 MEV.
TIC, 1974. 7P. MN (LA-UR-74-1333)
POTTER, JAMES M. (MP-4)
BOWMAN, J. DAVID (MP-4)
HWANG, CHESTER F. (MP-7)
MC KIBBEN, JOSEPH L. (P-9)
MISCHKE, RICHARD E. (MP-4)
NAGLE, DARRAGH E. (MP-4)
DEBRUNNER, PETER
FRAUENFELDER, HANS
SORENSEN, L.
- 25-65
MEASUREMENT OF THE DEPOLARIZATION
PARAMETER D(THETA) FOR PROTON(+) NITROGEN
-14 SCATTERING NEAR 16 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.1021. 1974.
CLEGG, T. B.
HARDEKOPF, ROBERT A. (P-9)
OHLSEN, GERALD G. (P-9)
- 25-66
MEASUREMENTS AND CALCULATIONS OF THE
NEUTRON SPECTRA EMITTED FROM CONCRETE
SPHERES BOMBARDED WITH 14 MEV NEUTRONS.
NUCL. SCI. ENG., V. 55, P.345-8. 1974.
HANSEN, L. F.
ANDERSON, J. D.
DOYAS, R. J.
KAMMERDIENER, JOHN L. (***)
ET AL
- 25-67
MEASUREMENTS OF NEUTRON AND GAMMA RAY
SPECTRA FROM IRON AND TUNGSTEN SPHERES
BOMBARDED WITH NEUTRONS FROM THE
HYDROGEN-2 (TRITON,NEUTRON) HELIUM-4
REACTION
LASL, 1974. 20P. (LA-5563)
ARTHUR, EDWARD D. (P-3)
AUCHAMPAUGH, GEORGE F. (P-3)
DRAKE, DARRELL M. (P-3)
- 25-68
MEASUREMENTS OF SPIN CORRELATION AND
ANALYZING POWER IN DEUTERON - HELIUM -3
ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.
NUCL. PHYS., V.A233, P.1-8. 1974.
OHLSEN, GERALD G. (P-9)
HARDEKOPF, ROBERT A. (P-9)
MAY, D. P.
BAKER, STEPHEN D.
ARMSTRONG, W. T.
- 25-69
MESON DECAYS AND THE DKP
(DUFFIN-KEMMER-PETIAU) EQUATION.
PHYS. REV., V.D9, P.2183-6. 1974.
(LA-UR-73-942)*
FISCHBACH, EPHRAIM
NIETO, MICHAEL MARTIN (T-5)
PRIMAKOFF, HENRY
SCOTT, C. KEITH

25-70
MODELS BASED ON MULTICHANNEL R-MATRIX
THEORY FOR EVALUATING LIGHT ELEMENT
REACTIONS.

TIC, 1974, 41P. MN (LA-UR-74-738)
DODDER, DONALD C. (T-9)
HALE, GERALD M. (T-2)
NISLEY, RICHARD A. (T-2)
WITTE, KATHLEEN H. (C-3)
YOUNG, PHILLIP G., JR. (T-2)

25-71
MULTIPLE SCATTERING ENHANCEMENT OF X
RAYS.

LASL, 1974, 14P. (LA-5504-MS)
BENNETT, ELBERT W. (J-14)

25-72
NEODYMIUM -143 (NEUTRON,GAMMA) REACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.500, 1974.

MC CLURE, D. A.
RAMAN, S.
SLAUGHTER, G. G.
HARVEY, J. A.
WELLS, J. C., JR.
LIN, JUNG
JURNEY, EDWARD T. (P-DO)

25-73
NEUTRON INDUCED FISSION CROSS SECTION OF
URANIUM -237.

PHYS. REV., V.C9, P.717-22, 1974.
(LA-UR-73-293)*

MC NALLY, JAMES H. (DIR OFF)
BARNES, JOHN W. (CNC-11)
DROPSKY, BRUCE J. (CNC-11)
SEEGER, PHILIP A. (P-11)
WOLFSBERG, KURT (CNC-11)

25-74
NEUTRON SCATTERING CROSS SECTION OF GOLD
-197.

LASL, 1974, 157P. (LA-5552)
HOFFMAN, MARVIN M. (J-12)
SANDERS, WILLIAM MORT (J-12)
BERZINS, GEORGE J. (J-12)
BROWN, LEON J. (J-12)
PHILLIPS, DONALD D. (J-12)

25-75
NEUTRON SPECTRA EMITTED FROM CONCRETE
SPHERES BOMBARDED WITH 14 MEV NEUTRONS.
ABSTRACT PUBLISHED IN:

TRANS. AM. NUCL. SOC., V.18, P.380-1,
1974.

HANSEN, L. F.
ANDERSON, J. D.
KAMMERDIENER, JOHN L. (***)
ET AL

25-76
NEUTRON SPECTRA FROM 500 MEV PROTONS ON
BERYLLIUM -9.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.594, 1974.

BONNER, BILLY E. (P-DOR)
SIMMONS, JAMES E. (P-DOR)
ET AL

25-77
NEUTRON YIELDS FROM URANIUM ISOTOPES IN
URANIUM HEXAFLUORIDE.

NUCL. SCI. ENG., V.54, P.470-4, 1974.
(LA-UR-74-170)*
SAMPSON, THOMAS E. (A-2)

25-78
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV.
3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL
CROSS SECTION DATA.

PHYS. REV., V.D10, P.72-7, 1974.

(LA-UR-73-1811)*
BRYAN, RONALD A. (T-5)
BINSTOCK, JUDITH

25-79
OBSERVATION OF THE CHARGE EXCHANGE MODE
OF THE GIANT M1 RESONANCE OF SILICON -28.
PHYS. REV. LETTERS, V.32, P.846-8,

1974. (LA-UR-74-166)*

FLYNN, EDWARD R. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)

25-80
OBSERVATION OF THE CHARGE EXCHANGE MODE
OF THE GIANT MAGNETIC DIPOLE RESONANCE OF
SILICON -28.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.475-6, 1974.

FLYNN, EDWARD R. (P-9)
SHERMAN, JOSEPH (P-9)
STEIN, NELSON (P-9)

25-81
OBSERVATION OF THE E3 ISOMER OF YTTRIUM
-93.

ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.473, 1974.

CASELLA, VITO R. (CNC-11)
KNIGHT, JERE D. (CNC-11)
NAUMANN, ROBERT A. (CNC-11)

25-82
ON THE OBSERVATION OF NIOBIUM -92 AND
NIOBIUM -94 IN NATURE.

GEOCHIM. COSMOCHIM. ACTA, V.38,
P.1485-8, 1974. (LA-UR-74-418)*

APT, KENNETH E. (H-8)
KNIGHT, JERE D. (CNC-11)
PERKINS, RICHARD W.
CAMP, DAVID C.

25-83
OXYGEN -16 (TRITON,HELIUM -3) NITROGEN
-16 REACTION AND THE LOW LYING T=1 LEVELS
OF MASS 16.

PHYS. REV., V.C10, P.409-11, 1974.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.433, 1974.

GARRETT, J. D. (P-DOR)
FLYNN, EDWARD R. (P-9)

- 25-84
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.
IASL, 1974. 174P. (LA-5687)
LA BAUVE, RAPHAEL J. (T-2)
WEISBIN, CHARLES R. (T-2)
SEAMON, ROBERT E. (TD-6)
BATTAT, MORRIS E. (T-1)
HARRIS, DONALD R., JR. (T-2)
YOUNG, PHILLIP G., JR. (T-2)
KLEIN, MORRIS M. (T-7)
- 25-85
POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM -3 REACTION AT 10 MEV.
NUCL. PHYS., V.A222, P.512-24, 1974.
(LA-UR-73-1254)*
SALZMAN, GARY C. (H-10)
OHLSEN, GERALD G. (P-DOR)
MARTIN, JOHN C. (P-DOR)
JARMER, JOHN J. (P-DOR)
- 25-86
POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 AT 5.97 AND 9.9 MEV.
PHYS. REV., V.C10, P.494-7, 1974.
(LA-UR-74-696)*
JARMER, JOHN J. (MP-2)
HAIGHT, ROBERT C.
MARTIN, JOHN C. (H-10)
SIMMONS, JAMES E. (P-DOR)
- 25-87
POLARIZATION TRANSFER IN HELIUM -3 (DEUTERON, DEUTERON) HELIUM -3 ELASTIC SCATTERING.
PHYS. REV., V.C9, P.1336-9, 1974.
(LA-UR-73-892)*
LOYOL, PAUL A. (P-DOR)
SALZMAN, GARY C. (P-DOR)
OHLSEN, GERALD G. (P-DOR)
MITCHELL, C. KENNETH
GRUEBLER, WILLI (P-DOR)
- 25-88
POLARIZATION TRANSFER IN PROTON - HELIUM -3 ELASTIC SCATTERING AT 16 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.476-7, 1974.
HARDEKOPF, ROBERT A. (P-9)
ARMSTRONG, DALE D. (P-12)
- 25-89
POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM -3 REACTION.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.476, 1974.
SUNIER, JULES W. (P-9)
POORE, RAY V. (P-9)
HARDEKOPF, ROBERT A. (P-9)
MORRISON, LOUIS J. (P-9)
SALZMAN, GARY C. (H-10)
OHLSEN, GERALD G. (P-9)
- 25-90
POLARIZED PROTONS ON HELIUM -3 AT 13.6 MEV.
PHYS. REV., V.C10, P.57-9, 1974.
(LA-UR-74-257)*
JARMIE, NELSON (P-9)
JETT, JAMES H. (H-10)
- 25-91
POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS.
TIC, 1974. 31P. MN (LA-UR-74-880)
NIX, JAMES R. (T-9)
SIERK, ARNOLD J. (T-9)
- 25-92
PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.
NATURE, V.247, P.17-20, 1974.
(LA-UR-73-1486)*
HOWARD, W. MICHAEL (P-11)
NIX, JAMES R. (T-9)
- 25-93
PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT.
PHYS. REV., V.C10, P.479-93, 1974.
(LA-UR-73-1298)*
HELLER, LEON (T-5)
RICH, MARVIN (T-9)
- 25-94
PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.
NUCL. INSTR. METHODS, V.114, P.17-20, 1974. (LA-UR-73-722)*
HARDEKOPF, ROBERT A. (P-9)
ARMSTRONG, DALE D. (P-12)
KEATON, POSEY W., JR. (P-DOR)
- 25-95
R-MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.477, 1974.
DODDER, DONALD C. (T-9)
CROSTHWAITE, KEVIN R.
OHLSEN, GERALD G. (P-9)
- 25-96
R-MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.506, 1974.
HALE, GERALD M. (T-2)
DEVANEY, JOSEPH J. (T-9)
DODDER, DONALD C. (T-9)
WITTE, KATHLEEN H. (C-3)
- 25-97
R-MATRIX ANALYSIS OF THE N + BORON -10 SYSTEM AT LOW ENERGIES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.327-9, 1974.
HALE, GERALD M. (T-2)
YOUNG, PHILLIP G., JR. (T-2)
NISLEY, RICHARD A. (T-2)

- 25-98
R-MATRIX ANALYSIS OF THE OXYGEN -17
SYSTEM: VERSION IV OF ENDF/B.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.366-7.
1974.
HALE, GERALD M. (T-2)
YOUNG, PHILLIP G., JR. (T-2)
FOSTER, DUNCAN G. (T-2)
- 25-99
RADIATIVE CAPTURE OF FAST NEUTRONS BY
CALCIUM -40.
NUCL. PHYS., V.A231, P.29-44. 1974.
(LA-UR-74-595)*
BERGQVIST, INGVAR L.
DRAKE, DARRELL M. (P-3)
MC DANIELS, DAVID K. (P-DOR)
- 25-100
RELATIVISTIC CENTER OF MASS VARIABLES FOR
COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL
INTERACTIONS.
PHYS. REV., V.D10, P.1777-95. 1974.
(LA-UR-73-1563)*
KRAJCIK, RICHARD A. (T-5)
FOLDY, L. L.
- 25-101
RENORMALIZED BRUECKNER-HARTREE-FOCK AND
DENSITY DEPENDENT HARTREE-FOCK THEORIES
OF FINITE NUCLEI.
PHYS. REV., V.C10, P.2607-12. 1974.
(LA-UR-74-1384)*
DAVIES, K. T. R. (T-9)
MC CARTHY, R. J.
NEGELE, JOHN W. (T-5)
SAUER, PETER U. (T-5)
- 25-102
REVIEW OF EVALUATED CROSS SECTION DATA
FOR AIR AND GROUND CONSTITUENTS.
TIC. 1974. 14P. MN (LA-UR-73-1578)
YOUNG, PHILLIP G., JR. (T-2)
- 25-103
SCATTERING PHASE SHIFTS FOR THE COMB
PLUS SEPARABLE POTENTIAL PROBLEM.
LASL. 1974. 5P. (LA-5729-MS)
GRIFFY, T. A.
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
- 25-104
SEARCH FOR A PARITY VIOLATING
CONTRIBUTION TO NUCLEON - NUCLEON
SCATTERING.
TIC. 1973. 11P. MN (LA-UR-73-894)
ALSO PUBLISHED IN:
HIGH-ENERGY PHYSICS AND NUCLEAR
STRUCTURE. 1973. 5TH INTERNATIONAL
CONFERENCE, UPPSALA. PROC., P.70-2.
NORTH HOLLAND. 1974. (539:H638E 5TH)
(LA-UR-73-894)*
NAGLE, DARRAGH E. (MP-DO)
HWANG, CHESTER F. (MP-7)
JARMIE, NELSON (P-DOR)
LOVOI, PAUL A. (P-DOR)
MC KIBBEN, JOSEPH L. (P-9)
MISCHKE, RICHARD E. (MP-4)
OHLSEN, GERALD G. (P-DOR)
POTTER, JAMES M. (MP-4)
STEVENS, RALPH R., JR. (MP-9)
DEBRUNNER, PETER
FRITTS, D.
FRAUENFELDER, HANS
SORENSEN, L.
- 25-105
SEARCH FOR VIOLATION OF TIME REVERSAL
INVARIANCE IN THULIUM -169 AND LUTETIUM
-175 GAMMA RAYS.
PHYS. REV., V.C10, P.1475-83. 1974.
(LA-UR-74-734)*
MURDOCH, BRUCE T. (Q-26)
OLSEN, CLAYTON E. (CMB-8)
STEYERT, WILLIAM A., JR. (Q-26)
- 25-106
SEPARABILITY IN DIRECTLY INTERACTING
RELATIVISTIC PARTICLE SYSTEMS.
PHYS. REV. LETTERS, V.32, P.1025-8.
1974. (LA-UR-74-515)*
FOLDY, L. L.
KRAJCIK, RICHARD A. (T-5)
- 25-107
SPONTANEOUS DECAY OF THE $3(\text{SIGMA})\text{U}(+)$
STATE OF XENON -2.
J. CHEM. PHYS., V.60, P.445-51. 1974.
(LA-UR-73-1405)*
WEIHOFEN, WILLIAM H. (T-9)
- 25-108
STRONTIUM -87 (TRITON,PROTON) REACTION
AND THE TWO PARTICLE ONE HOLE STATES OF
STRONTIUM -89.
PHYS. REV., V.C10, P.671-9. 1974.
(LA-UR-74-478)*
COSMAN, ERIC R. (P-DOR)
SLATER, D.
CASTEN, RICHARD F.
FLYNN, EDWARD R. (P-9)
HANSEN, OLE (P-DOR)
- 25-109
STRUCTURE OF KRYPTON -88 DERIVED FROM THE
KRYPTON -86(TRITON,PROTON) KRYPTON -88
REACTION.
PHYS. LETTERS, V.B53, P.241-3. 1974.
(LA-UR-74-1432)*
SHERMAN, JOSEPH (P-9)
FLYNN, EDWARD R. (P-9)
STEIN, NELSON (P-9)
OLSEN, D. K.
RILEY, P. J.

- 25-110
STUDY OF NEON -22 WITH THE NEON -20
(TRITON, PROTON) REACTION.
NUCL. PHYS., V.A228, P.189-204, 1974.
(LA-UR-74-127)*
FLYNN, EDWARD R. (P-9)
HANSEN, OLE (P-DOR)
NATHAN, OVE
- 25-111
STUDY OF THE MAGNESIUM -24 (HELIUM -3,
TRITON) ALUMINUM -24 REACTION AT E
(HELIUM -3) = 38.2 MEV.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.643, 1974.
STEIN, NELSON (P-9)
FLYNN, EDWARD R. (P-9)
SHERMAN, JOSEPH (P-9)
PETERSON, R. J.
RISTINEN, R. A.
- 25-112
STUDY OF THE NEON -20 (TRITON, ALPHA)
FLUORINE -19 REACTION AT 20 MEV.
NUCL. PHYS., V.A229, P.204-18, 1974.
(LA-UR-74-706)*
GARRETT, J. D. (P-DOR)
HANSEN, OLE (P-DOR)
- 25-113
TABLE OF CALCULATED NUCLEAR PROPERTIES.
LASL, 1974, 178P. (LA-5750)
SEEGER, PHILIP A. (P-11)
HOWARD, W. MICHAEL (P-11)
- 25-114
TEST FOR T-VIOLATION IN NUCLEON - NUCLEON
SCATTERING.
PHYS. LETTERS, V.B48, P.77-80, 1974.
(LA-UR-73-1051)*
BINSTOCK, JUDITH
BRYAN, RONALD A. (T-5)
GERSTEN, A.
- 25-115
TEST OF PARITY CONSERVATION IN PROTON -
PROTON SCATTERING.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.1023, 1974.
MISCHKE, RICHARD E. (MP-4)
- 25-116
TEST OF PARITY CONSERVATION IN PROTON -
PROTON SCATTERING.
PHYS. REV. LETTERS, V.33, P.1307-10,
1974. (LA-UR-74-1234)*
POTTER, JAMES M. (MP-4)
BOWMAN, J. DAVID (MP-4)
HWANG, CHESTER F. (MP-7)
MC KIBBEN, JOSEPH L. (P-9)
MISCHKE, RICHARD E. (MP-4)
NAGLE, DARRAGH E. (MP-4)
DEBRUNNER, PETER
FRAUENFELDER, HANS
SORENSEN, L.
- 25-117
TEST OF SIMULTANEOUS PARITY AND TIME
REVERSAL VIOLATION IN GAMMA DECAY.
PHYS. LETTERS, V.B52, P.325-8, 1974.
(LA-UR-74-1347)*
MURDOCH, BRUCE T. (Q-26)
OLSEN, CLAYTON E. (CMB-8)
ROSENBLUM, STEPHEN S. (Q-26)
STEYERT, WILLIAM A., JR. (Q-26)
- 25-118
TOTAL CROSS SECTIONS OF TRITIUM,
HYDROGEN, AND HELIUM FOR FAST NEUTRONS.
LASL, 1952, DECLASSIFIED 1972, 13P.
(LA-1483)
COON, JAMES H. (P-4)
ET AL.
- 25-119
TRINUCLEON BOUND STATE PROPERTIES FROM A
COMPLETE SOLUTION OF THE FADDEEV
EQUATIONS WITH THE REID SOFT CORE
POTENTIAL.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.506, 1974.
BRANDENBURG, RICHARD A. (T-5)
KIM, YEONG E. (T-5)
TUBIS, ARNOLD
- 25-120
TRINUCLEON PROPERTIES FROM A COMPLETE
SOLUTION OF THE FADDEEV EQUATIONS WITH
THE REID SOFT CORE POTENTIAL.
PHYS. LETTERS, V.B49, P.205-8, 1974.
(LA-UR-74-136)*
BRANDENBURG, RICHARD A. (T-5)
KIM, YEONG E. (T-5)
TUBIS, ARNOLD
- 25-121
VACUUM POLARIZATION IN HIGH Z, FINITE
SIZE NUCLEI.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19,
P.60, 1974.
RINKER, GEORGE A., JR. (P-DOR)
WILETS, LAWRENCE
- 25-122
VARIOUS CROSS SECTIONS FOR A LESS THAN OR
EQUAL TO 3 NUCLEI.
PHYS. REV., V.C10, P.54-6, 1974.
(LA-UR-74-596)*
JARMIE, NELSON (P-9)
JETT, JAMES H. (H-10)
- 25-123
VECTOR AND TENSOR ANALYZING POWER
MEASUREMENTS FOR HYDROGEN -3 (DEUTERON,
DEUTERON) HYDROGEN -3 ELASTIC SCATTERING
AT 11.4 AND 14.4 MEV.
PHYS. REV., V.C10, P.571-4, 1974.
(LA-UR-74-308)*
DONOGHUE, TIMOTHY R.
OHLSEN, GERALD G. (P-9)
JARMIE, NELSON (P-9)
KEATON, POSEY W., JR. (E-DO)

26. NUCLEAR SAFEGUARDS

- 26-1
ANALYSIS OF PELLET - TO - PELLET DATA
FROM NUCLEAR REACTOR FUEL ROD SCANNING
SYSTEMS.
LASL, 1974, 18P. (LA-5498-MS)
FORSTER, ROBERT A. (A-1)
- 26-2
ASSAY OF THE URANIUM CONTENT OF ROVER
SCRAP WITH THE RANDOM SOURCE
INTERROGATION SYSTEM.
LASL, 1974, 10P. (LA-5692-MS)
FOLEY, JOHN E. (ENG-6)
COWDER, LEO ROSS (A-1)
- 26-3
BOOK REVIEW: THE CURVE OF BINDING ENERGY.
BY J. MCPHEE, AND NUCLEAR THEFT: RISKS
AND SAFEGUARDS. BY M. WILLRICH AND T. B.
TAYLOR.
NUCL. NEWS, V.17, P.76-7, 1974.
(LA-UR-74-5016)*
KEEPIN, G. ROBERT (A-1)
- 26-4
BOOK REVIEW: THE CURVE OF BINDING ENERGY.
BY J. MCPHEE, AND NUCLEAR THEFT: RISKS
AND SAFEGUARDS. BY M. WILLRICH AND T. B.
TAYLOR.
LASER FOCUS, V.10, NO.10, P.62-4, 1974.
KEEPIN, G. ROBERT (A-1)
- 26-5
CHEMICAL ASSAY OF PLUTONIUM FOR
SAFEGUARDS.
TIC, 1974, 19P. MN (LA-UR-73-1585)
ALSO PUBLISHED IN:
NUCL. TECH., V.23, P.132-41, 1974.
(LA-UR-73-1585)*
JACKSON, DARRYL D. (CMB-1)
REIN, JAMES E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
- 26-6
CONTINUOUS IN-LINE MONITOR FOR URANIUM
HEXAFLUORIDE ENRICHMENT.
NUCL. TECH., V.23, P.318-27, 1974.
(LA-UR-74-112)*
REILLY, T. DOUGLAS (A-1)
MARTIN, E. RAY (A-1)
PARKER, JACK L. (A-1)
SPEIR, LESLIE G. (A-1)
WALTON, RODDY B. (A-1)
- 26-7
ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL
ROD ASSAY SYSTEM.
LASL, 1974, 32P. (LA-5317)
FORSTER, ROBERT A. (A-1)
SMITH, DARRYL B. (A-1)
MENLOVE, HOWARD O. (A-1)
- 26-8
FIELD ASSAY OF PLUTONIUM WITH A NEW
COMPUTERIZED SEGMENTED GAMMA SCAN
INSTRUMENT.
TIC, 1974, 21P. MN (LA-UR-74-924)
ALSO PUBLISHED IN:
NUCL. MATER. MANAGEMENT, V.3, NO.3,
P.151-70, 1974.
MARTIN, E. RAY (A-1)
JONES, DAVID F. (A-1)
SPEIR, LESLIE G. (A-1)
WALKER, ALAN C.
- 26-9
FISSIONABLE MATERIAL ASSAY USING MU MESIC
X RAYS.
PRACTICAL APPLICATIONS OF
ACCELERATORS, 1973. SYMPOSIUM, LOS
ALAMOS, NM. PROC., P.142-59. LASL,
1974. (CONF-730849) (LA-5535-C)
MALANIFY, JOHN J. (A-1)
- 26-10
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE
ASSAY OF FISSIONABLE MATERIAL.
LASL, 1974, 106P. (LA-5651-M)
AUGUSTSON, RONALD H. (A-1)
REILLY, T. DOUGLAS (A-1)
- 26-11
GAMMA RAY ASSAY OF LOW ENRICHED URANIUM
WASTE.
NUCL. TECH., V.24, P.81-92, 1974.
(LA-UR-74-318)*
WALTON, RODDY B. (A-1)
WHITTED, EDWARD I. (A-1)
FORSTER, ROBERT A. (A-1)
- 26-12
IN-LINE AND OFF-LINE MONITORS OF URANIUM
CONCENTRATION IN PROCESS SOLUTIONS.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.18, P.52,
1974.
REILLY, T. DOUGLAS (A-1)
COWDER, LEO ROSS (A-1)
UMBARGER, C. JOHN (A-1)

- 26-13
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.30, 1974.
CLOSE, DONALD A. (A-1)
MALANIFY, JOHN J. (A-1)
- 26-14
MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS.
TIC, 1973, 39P. MN (LA-UR-73-880)
ALSO PUBLISHED IN:
NUCL. TECH., V.21, P.133-48, 1974.
(LA-UR-73-880)*
WALTON, RODDY B. (A-1)
REILLY, T. DOUGLAS (A-1)
PARKER, JACK L. (A-1)
MENZEL, JOERG H. (A-1)
MARSHALL, E. D.
FIELDS, L. W.
- 26-15
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION.
TIC, 1974, 10P. MN (LA-UR-74-893)
ALSO PUBLISHED IN:
NUCL. MATER. MANAGEMENT, V.3, NO.3, P.131-9, 1974.
SMITH, DARRYL B. (A-1)
FORSTER, ROBERT A. (A-1)
- 26-16
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.
TIC, 1974, 12P. MN (LA-UR-74-913)
ALSO PUBLISHED IN:
NUCL. MATER. MANAGEMENT, V.3, NO.3, P.140-50, 1974.
UMBARGER, C. JOHN (A-1)
WALTON, RODDY B. (A-1)
FOLEY, JOHN E. (ENG-6)
COWDER, LEO ROSS (A-1)
- 26-17
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.
TIC, 1974, 18P. MN (LA-UR-74-977)
ALSO PUBLISHED IN:
NUCL. MATER. MANAGEMENT, V.3, NO.3, P.171-88, 1974.
ATWELL, THOMAS L. (A-1)
FOLEY, JOHN E. (ENG-6)
EAST, LARRY V. (A-1)
- 26-18
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.
NUCL. INSTR. METHODS, V.118, P.293-7, 1974.
MALANIFY, JOHN J. (A-1)
CLOSE, DONALD A. (A-1)
- 26-19
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.
TIC, 1974, 10P. MN (LA-UR-73-1595)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI., V.NS-21, NO.1, P.628-32, 1974. (LA-UR-73-1595)*
EVANS, ALBERT E. (A-1)
- 26-20
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1974.
LASL, 1974, 28P. (LA-5675-PR)
KEEPIN, G. ROBERT (A-1)
- 26-21
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, MAY - AUGUST 1974.
LASL, 1974, 11P. (LA-5771-PR)
KEEPIN, G. ROBERT (A-1)
- 26-22
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1973.
LASL, 1974, 23P. (LA-5557-PR)
KEEPIN, G. ROBERT (A-1)
- 26-23
PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.
LASL, 1974, 51P. (LA-5652-M)
MARTIN, E. RAY (A-1)
JONES, DAVID F. (A-1)
SPEIR, LESLIE G. (A-1)
- 26-24
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.
NUCL. INSTR. METHODS, V.117, P.597-8, 1974. (LA-UR-73-1678)*
FORSTER, ROBERT A. (A-1)
UMBARGER, C. JOHN (A-1)
- 26-25
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.
NUCL. INSTR. METHODS, V.121, P.491-8, 1974. (LA-UR-74-1077)*
UMBARGER, C. JOHN (A-1)
COWDER, LEO ROSS (A-1)
- 26-26
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.
TIC, 1974, 20P. MN (LA-UR-73-1564)
ALSO PUBLISHED IN:
NUCL. TECH., V.23, P.124-31, 1974.
(LA-UR-73-1564)*
SAMPSON, THOMAS E. (A-2)
FEHLAU, PAUL E. (A-2)
WORTH, GARY M. (A-2)
HENRY, CARL N. (A-2)
- 26-27
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.
LASL, 1974, 32P. (LA-5681)
CHAMBERS, WILLIAM H. (A-2)
ATWATER, HENRY F. (A-2)
FEHLAU, PAUL E. (A-2)
HASTINGS, RAY D. (A-2)
HENRY, CARL N. (A-2)
KUNZ, WALTER E. (A-2)
SAMPSON, THOMAS E. (A-2)
WHITTLESEY, THOMAS H. (A-2)
WORTH, GARY M. (A-2)

26-28

**URANIUM HEXAFLUORIDE ENRICHMENT MONITOR:
OPERATING PROCEDURES MANUAL.**

LASL, 1974. 17P. (LA-5485-M)

REILLY, T. DOUGLAS (A-1)

MARTIN, E. RAY (A-1)

PARKER, JACK L. (A-1)

27. PHYSICS

- 27-1
CONTINUATION OF FUNCTIONS BEYOND NATURAL BOUNDARIES.
DTIE, 1972. 9P. MN (LA-DC-72-598)
ALSO PUBLISHED IN:
ROCKY MT. J. MATH., V.4, P.203-6.
1974. (LA-DC-72-598)*
GAMMEL, JOHN L. (T-9)
- 27-2
EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.
DTIE, 1972. 4P. MN (LA-DC-72-880)
ALSO PUBLISHED IN:
PADE APPROXIMANTS, 1972. SUMMER SCHOOL, KENT. LECTURES, P.132-3.
INSTITUTE OF PHYSICS, 1973.
(530:P123A) (LA-DC-72-880)*
GAMMEL, JOHN L. (T-9)
- 27-3
ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.50, 1974.
VISSCHER, WILLIAM M. (T-9)
- 27-4
FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.645, 1974.
FLUHARTY, REX G. (P-11)
RUSSELL, GARY J. (P-11)
SEEGER, PHILIP A. (P-11)
- 27-5
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.645, 1974.
MURDOCH, BRUCE T. (Q-26)
OLSEN, CLAYTON E. (CMB-8)
STEYERT, WILLIAM A., JR. (Q-26)
- 27-6
GENERALIZATIONS OF PADE APPROXIMANTS.
DTIE, 1972. 11P. MN (LA-DC-72-872)
ALSO PUBLISHED IN:
PADE APPROXIMANTS, 1972. SUMMER SCHOOL, KENT. LECTURES, P.126-31.
INSTITUTE OF PHYSICS, 1973.
(530:P123A) (LA-DC-72-872)*
FLEISCHER, JOCHEM B. (T-9)
- 27-7
LIE ALGEBRA $SO(N)$ AND THE DUFFIN-KEMMER-PETIAU RING.
J. MATH. PHYS., V.15, P.60-4, 1974.
(LA-UR-73-438)*
FISCHBACH, EPHRAIM
LOUCK, JAMES D. (T-9)
NIETO, MICHAEL MARTIN (T-5)
SCOTT, C. KEITH
- 27-8
LOS ALAMOS THREE STAGE VAN DE GRAAFF FACILITY.
NUCL. INSTR. METHODS, V.122, P.81-97, 1974. (LA-UR-74-385)*
WOODS, RICHARD (P-9)
MC KIBBEN, JOSEPH L. (P-9)
HENKEL, RICHARD L. (P-9)
- 27-9
MASS OF THE GRAVITON.
PHYS. REV., V.C9, P.1119-21, 1974.
(LA-UR-73-770)*
GOLDHABER, ALFRED S. (MP-DO)
NIETO, MICHAEL MARTIN (T-5)
- 27-10
METAL VAPOR CONFINEMENT IN VACUUM.
REV. SCI. INSTR., V.45, P.769-72, 1974. (LA-UR-74-576)*
BACAL, MARTHA
REICHEL, WALTER H. (L-1)
- 27-11
RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.
TECHNOMETRICS, V.16, P.301-9, 1974.
(LA-DC-72-1537)*
GOLDMAN, AARON S.
LEWIS, HOMER D. (CMB-11)
VISSCHER, WILLIAM M. (T-9)
- 27-12
RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.19, P.550-1, 1974.
OHLSEN, GERALD G. (P-9)
CROTHWAITE, KEVIN R.
LOVOI, PAUL A. (P-DOR)

27-13

RATIONAL APPROXIMANTS FOR INVERSE
FUNCTIONS OF TWO VARIABLES.

DTIC, 1972. 20P. MN (LA-DC-72-658)

ALSO PUBLISHED IN:

ROCKY MT. J. MATH., V.4, P.339-49.

1974. (LA-DC-72-658)*

CRITCHFIELD, CHARLES L. (T-9)

GAMMEL, JOHN L. (T-9)

27-14

SENSOR AND SIMULATION NOTES.

LASL, 1974. 100P. (LA-5720-MS)

PARTRIDGE, RALPH E., JR. (J-8) COMP.

27-15

SPREADING FUNCTIONS IN SECONDARY ELECTRON
ANALYSIS.

J. APPL. PHYS., V.45, P.3332-6. 1974.

(LA-UR-74-343)*

SLOCOMB, CHARLES A. (C-DO)

ELLIS, WALTON P. (CMB-8)

27-16

STILL ANOTHER METHOD FOR PHASE-SHIFT
COMPUTATION.

PHYS. REV. LETTERS, V.32, P.436-7.

1974. (LA-UR-73-1618)*

BOLSTERLI, MARK (T-9)

27-17

STRUCTURE OF THE DUFFIN-KEMMER-PETIAU
MATRIX ELEMENT FOR K-13 DECAY.

PROGR. THEOR. PHYS., V.51, P.1585-97.

1974. (LA-UR-73-665)*

FISCHBACH, EPHRAIM

NIETO, MICHAEL MARTIN (T-5)

SCOTT, C. KEITH

27-18

TRANSPORT PROCESSES IN SOLIDS AND LINEAR
RESPONSE THEORY.

PHYS. REV., V.A10, P.2461-72. 1974.

(LA-UR-74-658)*

VISSCHER, WILLIAM M. (T-9)

27-19

TSAAS: FINITE ELEMENT THERMAL AND STRESS
ANALYSIS OF AXISYMMETRIC SOLIDS WITH
ORTHOTROPIC TEMPERATURE DEPENDENT
MATERIAL PROPERTIES.

LASL, 1974. 49P. (LA-5599-MS)

BROWNING, RICHARD V. (WX-3)

MILLER, DAN G. (WX-3)

ANDERSON, CHARLES A. (WX-3)

28. REACTOR TECHNOLOGY

- 28-1
ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.
LASL, 1953. DECLASSIFIED 1968. 22P.
(LA-1515)
BENDT, PHILIP J. (P-1)
ET AL.
- 28-2
ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.
LASL, 1974. 18P. (LA-5571-MS)
GAGE, AVERY M. (ENG-7)
- 28-3
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.
J. INORG. NUCL. CHEM., V.36, P.17-23, 1974. (LA-DC-72-1190)*
PHILLIPS, JOHN R. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
VANDERBORGH, NICHOLAS E.
- 28-4
HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC., V.19, P.128, 1974.
DAVIDSON, KEITH V. (CMB-6)
- 28-5
HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.
TIC, 1974. 7P. MN (LA-UR-74-213)
BALCOMB, J. DOUGLAS (Q-DOT)
BOOTH, LAWRENCE A. (Q-DOT)
- 28-6
INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.
LASL, 1974. 14P. (LA-5768-MS)
ADLER, FELIX T. (T-DO)
VIGIL, JOHN C. (T-1)
- 28-7
NUCLEAR PROCESS HEAT APPLICATIONS, 1974. 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.
LASL, 1974. 276P. (CONF-741032)
(LA-5795-C)
LOS ALAMOS SCIENTIFIC LABORATORY
- 28-8
OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES. NUCLEAR PROCESS HEAT APPLICATIONS. 1974. 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROC., P.33-8. LASL, 1974. (CONF-741032) (LA-5795-C)
BALCOMB, J. DOUGLAS (Q-DOT)
- 28-9
PRELIMINARY STUDY OF PLASMA NUCLEAR REACTOR FEASIBILITY.
LASL, 1974. 13P. (LA-5679)
HELMICK, HERBERT H. (P-5)
JARVIS, GEORGE A. (P-5)
KENDALL, J. S.
LATHAM, T. S.
- 28-10
QUARTERLY REPORT, ADVANCED PLUTONIUM FUELS PROGRAM, APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT, FY 1974.
LASL, 1974. 58P. (LA-5781-PR)
BAKER, RICHARD D. (CMB-DO) COMP.
- 28-11
QUARTERLY REPORT, ADVANCED PLUTONIUM FUELS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.
LASL, 1974. 30P. (LA-5582-PR)
BAKER, RICHARD D. (CMB-DO) COMP.
- 28-12
QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FB ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1973.
LASL, 1974. 10P. (LA-5798-PR)
BAKER, RICHARD D. (CMB-DO) COMP.
- 28-13
QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974.
LASL, 1974. 36P. (LA-5778-PR)
LATHROP, KAYE D. (T-1)
- 28-14
QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967, PART 2.
LASL, 1967. DECLASSIFIED 1974. 7P. (LA-3709-MS)
GLASSTONE, SAMUEL (DIR OFF) COMP.

28-15
QUARTERLY STATUS REPORT ON ADVANCED
REACTOR TECHNOLOGY (ART) FOR PERIOD
ENDING JANUARY 31, 1967. PART 2.
LASL, 1967. DECLASSIFIED 1974. 7P.
(LA-3666-MS)
GLASSTONE, SAMUEL (DIR OFF) COMP.

28-16
REACTOR POWER PLANT FOR UNDERSEA
APPLICATIONS.
NUCL. TECH., V.22, P.224-8. 1974.
(LA-UR-73-608)*
BRASIER, ROBERT I. (ENG-DO)
MILLS, CARROLL B. (T-6)

28-17
RECRITICALITY CONSIDERATIONS IN LMFB
(LIQUID METAL FUELED BREEDER REACTOR)
ACCIDENTS.
TIC, 1974. 25P. MN (LA-UR-74-520)
BOUDREAU, JAY E. (T-1)
JACKSON, J. F.

28-18
SECOND STATUS REPORT ON HIGH TEMPERATURE
IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE
FUEL.
LASL, 1966. DECLASSIFIED 1972. 54P.
(LA-3462-MS)
RANKEN, WILLIAM A. (N-5)

28-19
STANDARD INTERFACE FILES AND PROCEDURES
FOR REACTOR PHYSICS CODES, VERSION III.
LASL, 1974. 63P. (LA-5486-MS)
CARMICHAEL, BYRON M. (T-1) COMP.

28-20
STATUS REPORT ON IRRADIATION STUDIES OF
MOLYBDENUM -40 V/O URANIUM DIOXIDE CERMET
FUEL.
LASL, 1965. DECLASSIFIED 1972. 54P.
(LA-3237-MS)
RANKEN, WILLIAM A. (N-5)
ET AL.

28-21
URANIUM DIOXIDE EQUATION OF STATE FOR
LMFB (LIQUID METAL FUELED BREEDER
REACTOR) EXCURSION ANALYSIS.
LASL, 1970. DECLASSIFIED 1974. 17P.
(LA-4319)
GOPLEN, BRUCE C. (K-DO)

29. SOLID STATE SCIENCE

29-1

MAGNETIC PROPERTIES OF LN₃IN
INTERMETALLIC COMPOUNDS.
J. SOLID STATE CHEM., V.9, P.152-4,
1974.

HUTCHENS, R. D.
WALLACE, W. E.
NERESON, NORRIS G. (P-2)

29-2

RETENTION OF A METASTABLE B.C.C. GAMMA -
NEPTUNIUM SOLID SOLUTION: GAMMA -
NEPTUNIUM (GALLIUM).
SCRIPTA MET., V.8, P.1335-40, 1974.
(LA-UR-74-1408)*

ELLIOTT, REED O. (CMB-5)
RUSSELL, ALAN M. (CMB-5)
GIESSEN, BILL C.

29-3

TEMPERATURE DEPENDENCE OF THE ELECTRIC
QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM
TRIOXIDE.

PHYS. STATUS SOLIDI, V.B5, P.K5-7,
1974.

CON EINSIEDEL, H.
ROSENBLUM, STEPHEN S. (**)

29-4

TIME REVERSAL INVARIANT PROJECTION
OPERATORS FOR LATTICE DYNAMICS.

PHYS. REV., V.B9, P.3603-8, 1974.
(LA-UR-73-1269)*

WARREN, JOHN L. (P-2)

30. MISCELLANEOUS (INCLUDING PROJECT ROVER)

- 30-1
AMERICAN NATIONAL STANDARD TECHNICAL
REPORT NUMBER (STRN).
ANSI, 1974. 8P. (620:AM3A)
HAMMER, DONALD P.
REDMAN, HELEN F. (***)
ET AL
- 30-2
APPLICATION OF TECHNOLOGY FROM THE ROVER
PROGRAM AND RELATED DEVELOPMENTS.
LASL, 1974. 9P. (LA-5558)
SCHREIBER, RAEMER E. (DIR OFF)
- 30-3
APPLICATIONS OF LOW POWER NUCLEAR ROCKET
ENGINES.
LASL, 1961. DECLASSIFIED 1972. 55P.
(LAMS-2547)
COOPER, RALPH S. (T-DO)
- 30-4
APPLYING THE METRIC SYSTEM TO WELDING.
WELDING J., V.53, P.759-62, 1974.
(LA-UR-74-1365)*
BRANDON, ELTON D. (CMB-11)
- 30-5
APPROACH TO ENERGY SYSTEMS ANALYSIS AND
CONSERVATION.
LASL, 1974. 6P. (LA-5632-MS)
FREIHALD, DAVID A. (L-5)
WILLIAMS, JAMES M. (L-5)
- 30-6
ASPEN: AN AEROSPACE PLANE WITH NUCLEAR
ENGINES.
LASL, 1961. DECLASSIFIED 1974. 98P.
(LA-2590)
BUSSARD, ROBERT W. (N-DO)
- 30-7
COMPUTER SIMULATION OF TACTICAL NUCLEAR
WARFARE.
LASL, 1974. 14P. (LA-5806-MS)
HAYES, JOHN K. (ADWP-2)
- 30-8
CONCEPTUAL DESIGN OF A HEAT PIPE
METHANATOR.
LASL, 1974. 10P. (LA-5596)
RANKEN, WILLIAM A. (Q-25)
- 30-9
DESCRIPTION OF THE KIWI - TNT EXCURSION
AND RELATED EXPERIMENTS.
LASL, 1966. DECLASSIFIED 1972. 141P.
(LA-3350-MS)
KING, L. D. PERCIVAL (DIR OFF)
ET AL
- 30-10
DEVELOPMENT OF IMPROVED REENTRY VEHICLE
NOSETIP GRAPHITES FROM COMMERCIAL RAW
MATERIALS. FINAL REPORT FOR PERIOD 1
OCTOBER 1972 TO 30 SEPTEMBER 1973.
LASL, 1974. 85P. (LA-5628-PR)
IMPRESCIA, RICHARD J. (CMB-6)
WILLIAMS, JOEL M. (CMB-8)
- 30-11
ENERGY STORAGE FOR THE ELECTRIC POWER
INDUSTRY.
TIC, 1974. 10P. MN (LA-UR-74-918)
KELLER, WILLIAM E. (Q-26)
- 30-12
EXIT GAS THERMOCOUPLE RESPONSE IN KIWI
REACTORS.
LASL, 1961. DECLASSIFIED 1969. 20P.
(LA-2685)
SPRINGER, THOMAS E. (N-4)
- 30-13
FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER
FOR SATELLITE CONTROL.
J. SPACECRAFT ROCKETS, V.11, P.613-7,
1974.
VONDRA, R. J.
THOMASSEN, KEITH I. (***)
- 30-14
IMPACT OF AECM-0511 ON OPERATIONS OF THE
LOS ALAMOS SCIENTIFIC LABORATORY (LASL)
LIQUID WASTE MANAGEMENT GROUP.
TIC, 1974. 26P. MN (LA-UR-74-530)
ALSO PUBLISHED IN:
AEC ENVIRONMENTAL PROTECTION, 1974.
2ND CONFERENCE, ALBUQUERQUE, NM.
PROC., V.2, P.1115-40. USAEC, 1974.
(WASH-1332(74) V.2)
EMELITY, LUDGARD A. (H-7)
CHRISTENSON, CONARD W. (H-7)
- 30-15
IMPROVED PERFORMANCE OF TUNGSTEN BASED
URANIUM DIOXIDE FUEL MATERIALS.
LASL, 1965. DECLASSIFIED 1974. 18P.
(LA-3329-MS)
LENZ, WILLIAM H. (CMB-6)
- 30-16
INVESTIGATIONS OF UNDERGROUND EXPLOSIONS
IN NEVADA SANDY SOILS.
LASL, 1962. DECLASSIFIED 1972. 30P.
(LAMS-2919)
OLSEN, KENNETH H. (J-15)

- 30-17
KIWI - TNT EXPLOSION.
LASL, 1965. DECLASSIFIED 1974. 12P.
(LA-3351)
REIDER, ROY (H-3)
- 30-18
KIWI B-1B CONTROL SYSTEMS. TEST CELL A.
LASL, 1963. DECLASSIFIED 1974. 24P.
(LAMS-2966, SUPPLEMENT)
RAPPAPOET, ELLIOT
- 30-19
KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.
LASL, 1960. DECLASSIFIED 1967. 20P.
(LA-2466)
WILLIAMS, D. LLOYD (H-4)
- 30-20
KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENT.
LASL, 1961. DECLASSIFIED 1967. 20P.
(LA-2497)
WILLIAMS, D. LLOYD (H-4)
- 30-21
LASL TECHNICAL INFORMATION MANUAL.
LASL, 1974. 57P. (808:L879L 1974)
INFORMATION SERVICES DEPARTMENT
- 30-22
NATIONAL TRANSLATIONS CENTER.
TIC, 1973. 5P. MN (LA-UR-73-1252)
ALSO PUBLISHED IN:
FEDERAL INTERAGENCY FIELD LIBRARIANS WORKSHOP, 1973. 2ND ANNUAL, DENVER, CO.
PROC., P.237-41. THE WORKSHOP, 1974.
(026:F2931 2ND)
GODFREY, LOIS E. (ISD-4)
- 30-23
NEW ATTACK ON THE ENERGY SHORTAGE.
NEW MEXICAN, VIVA SECTION, P.12-3.
OCT. 13, 1974.
AGNEW, HAROLD M. (DIR)
- 30-24
NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.
LASL, 1956. DECLASSIFIED 1967. 47P.
(LA-2051)
GLASSTONE, SAMUEL (D-DO)
- 30-25
NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.
LASL, 1961. DECLASSIFIED 1969. 47P.
(LA-2548)
DEMUTH, HOWARD B. (N-4)
ET AL
- 30-26
NUCLEAR PULSED PROPULSION SYSTEMS.
LASL, 1970. DECLASSIFIED 1974. 28P.
(LA-4541-MS)
BALCOMB, J. DOUGLAS (N-DO)
BOOTH, LAWRENCE A. (N-DOT)
ET AL
- 30-27
P-DIVISION PROGRESS REPORT, FEB. 20 - MAR. 20, 1949.
LASL, 1949. DECLASSIFIED 1970. 23P.
(LAMS-909)
KELLOGG, JEROME M. B.
- 30-28
PACER PROGRAM, FY-1974 LASL ACTIVITY.
LASL, 1971. 13P. (LA-5754-MS)
SHREFFLER, ROBERT G. (DOS-1)
ROUSH, ROBERT E. (DIR OFF)
- 30-29
PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.
LASL, 1974. 26P. (LA-5595-MS)
PURTYMUN, WILLIAM D. (H-8)
WEST, FRANCIS G. (Q-22)
ADAMS, WARREN H. (H-7)
- 30-30
PUBLICATIONS OF LASL RESEARCH 1972.
LASL, 1974. 261P. (LA-5600-MS)
KERR, ALISON K. (ISD-4) COMP.
- 30-31
PUBLICATIONS OF LASL RESEARCH, 1973.
LASL, 1974. 362P. (LA-5777-MS)
KERR, ALISON K. (ISD-4) COMP.
- 30-32
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, APRIL - JUNE 1974.
LASL, 1974. 18P. (LA-5762-PR)
H-DIVISION STAFF
- 30-33
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JULY - SEPTEMBER 1973.
LASL, 1974. 22P. (LA-5512-PR)
H-DIVISION STAFF
- 30-34
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, OCTOBER - DECEMBER 1973.
LASL, 1974. 55P. (LA-5614-PR)
H-DIVISION STAFF
- 30-35
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JANUARY - MARCH 1974.
LASL, 1974. 24P. (LA-5666-PR)
H-DIVISION STAFF
- 30-36
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL, 20, 1963.
LASL, 1963. DECLASSIFIED 1974. 12P.
(LAMS-2905)
DIRECTOR'S OFFICE

30-47
QUARTERLY STATUS REPORT OF THE LASL
PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM
FOR PERIOD ENDING JANUARY 20, 1963.
LASL, 1963. DECLASSIFIED 1974. 10P.
(LA-2852)
DIRECTOR'S OFFICE

30-48
QUARTERLY STATUS REPORT ON PLUTONIUM-238
SPACE ELECTRIC POWER FUEL DEVELOPMENT
PROGRAM, JULY 1 - SEPTEMBER 30, 1969.
LASL, 1969. DECLASSIFIED 1970. 15P.
(LA-4328)
LEARY, JOSEPH A. (CMB-11) COMP.
KEENAN, THOMAS K. (CMB-11) COMP.

30-49
QUARTERLY STATUS REPORT ON PLUTONIUM-238
SPACE ELECTRIC POWER FUEL DEVELOPMENT
PROGRAM, OCTOBER 1 - DECEMBER 31, 1968.
LASL, 1969. DECLASSIFIED 1972. 14P.
(LA-4089-MS)
LEARY, JOSEPH A. (CMB-11) COMP.

30-50
QUARTERLY STATUS REPORT ON PLUTONIUM-238
SPACE ELECTRIC POWER FUEL DEVELOPMENT
PROGRAM, JULY 1 - SEPTEMBER 30, 1968.
LASL, 1968. DECLASSIFIED 1972. 24P.
(LA-4068-MS)
KEENAN, THOMAS K. (CMB-11)

30-51
QUARTERLY STATUS REPORT ON THE SPACE
ELECTRIC POWER R AND D PROGRAM FOR THE
PERIOD ENDING APRIL 30, 1970. PART 2.
LASL, 1970. DECLASSIFIED 1974. 17P.
(LA-4447-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-52
QUARTERLY STATUS REPORT ON THE SPACE
ELECTRIC POWER R AND D PROGRAM FOR THE
PERIOD ENDING JULY 31, 1969.
LASL, 1969. DECLASSIFIED 1974. 19P.
(LA-4232-MS)
GLASSTONE, SAMUEL (DIR OFF) COMP.

30-53
QUARTERLY STATUS REPORT ON THE SPACE
ELECTRIC POWER R AND D PROGRAM FOR THE
PERIOD ENDING OCTOBER 31, 1968. PART 2.
LASL, 1968. DECLASSIFIED 1974. 15P.
(LA-4040-MS)
GLASSTONE, SAMUEL (DIR OFF) COMP.

30-54
QUARTERLY STATUS REPORT ON THE SPACE
ELECTRIC POWER R AND D PROGRAM FOR THE
PERIOD ENDING OCTOBER 31, 1970.
LASL, 1970. DECLASSIFIED 1974. 40P.
(LA-4552-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-55
QUARTERLY STATUS REPORT ON THE SPACE
ELECTRIC POWER R AND D PROGRAM FOR THE
PERIOD ENDING OCTOBER 31, 1971.
LASL, 1971. DECLASSIFIED 1974. 10P.
(LA-4844-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-56
RADIOCHEMICAL MEASUREMENTS ON KIWI-B1B.
LASL, 1963. DECLASSIFIED 1974. 94P.
(LA-2922)
WAGNER, GENEVIEVE F. (J-11)
SATTIZAHN, JAMES E., JR. (J-11)

30-57
RADIOCHEMICAL MEASUREMENTS ON KIWI-B4A.
LASL, 1963. DECLASSIFIED 1974. 98P.
(LA-2897)
SATTIZAHN, JAMES E., JR. (J-11)
WAGNER, GENEVIEVE F. (J-11)

30-58
SHORT ACCOUNT OF LOS ALAMOS THEORETICAL
WORK ON THERMONUCLEAR WEAPONS, 1946-1950.
LASL, 1974. 12P. (LA-5647-MS)
MARK, J. CARSON (T-DO)

30-59
SINGLE STAGE NUCLEAR ROCKET STUDY.
LASL, 1960. DECLASSIFIED 1970. 77P.
(LA-2459)
HADDAD, EUGENE (N-5)
ANDERSON, WILLIAM (T-1)

30-50
SOME SCHEMES FOR NUCLEAR PROPULSION.
LASL, 1958. DECLASSIFIED 1973. 21P.
(LA-MS-2186)
LONGMIRE, CONRAD L. (T-4)
REINES, FREDERICK (T-2)
ULAM, STANISLAW M. (DIR OFF)

30-51
SPACE ELECTRIC POWER R AND D PROGRAM.
QUARTERLY STATUS REPORT FOR THE PERIOD
ENDING APRIL 30, 1971.
LASL, 1971. DECLASSIFIED 1974. 10P.
(LA-4690-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-52
SPACE ELECTRIC POWER R AND D PROGRAM.
QUARTERLY STATUS REPORT FOR THE PERIOD
ENDING JANUARY 31, 1970. PART 2.
LASL, 1970. DECLASSIFIED 1974. 13P.
(LA-E375-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-53
SPACE ELECTRIC POWER R AND D PROGRAM.
QUARTERLY STATUS REPORT FOR THE PERIOD
ENDING JANUARY 31, 1971.
LASL, 1971. DECLASSIFIED 1974. 7P.
(LA-4625-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-54
SPACE ELECTRIC POWER R AND D PROGRAM.
QUARTERLY STATUS REPORT FOR THE PERIOD
PERIOD ENDING JANUARY 31, 1972.
LASL, 1972. DECLASSIFIED 1974. 11P.
(LA-4898-MS)
SKOBERNE, FREDERICK (N-DO) COMP.

30-55

STUDIES ON SORTING AND CHARACTERIZATION
OF PLUTONIUM PROCESS AND ROOM GENERATED
WASTES.

TIC, 1974. 20P. MN (LA-UR-74-631)

ALSO PUBLISHED IN:

AEC ENVIRONMENTAL PROTECTION, 1974.

2ND CONFERENCE, ALBUQUERQUE, NM.

PROC., V.2, P.985-1005. USAEC, 1974.

(WASH-1332(74) V.2)

MC CURDY, DAVID E. (H-8)

MULKIN, RAY (CMB-11)

UMBARGER, C. JOHN (A-1)

WHEELER, MERLIN L. (H-8)

ZERWEKH, AL (CMB-1)

30-56

TACTICAL NUCLEAR WEAPONS: OBJECTIVES AND
CONSTRAINTS.

LASL, 1974. 7P. (LA-5712-MS)

BENNETT, WILLIAM S. (ADWP-2)

GARD, R. P.

REINHARDT, G. C.

30-57

THEORETICAL SPECIFIC IMPULSES OF HYDROGEN
AND HYDROGEN - METHANE NUCLEAR PROPELLANT
SYSTEMS.

LASL, 1958. DECLASSIFIED 1969. 36P.

(LA-2267)

CLIFTON, DAVID G. (N-1)

SITNEY, LAWRENCE R. (N-1)

30-58

TREATMENT OF NIOBIUM PENTACHLORIDE ROVER
PROJECT WASTE.

LASL, 1964. DECLASSIFIED 1968. 11P.

(LA-3142-MS)

PATTERSON, CALVIN C. (H-7)

FOWLER, ERIC B. (H-7)

30-59

TREATMENT OF TOXIC CHEMICAL WASTES AT THE
LOS ALAMOS SCIENTIFIC LABORATORY.

TIC, 1974. 11P. MN (LA-UR-74-588)

ALSO PUBLISHED IN:

AEC ENVIRONMENTAL PROTECTION, 1974.

2ND CONFERENCE, ALBUQUERQUE, NM.

PROC., V.2, P.1089-99. USAEC, 1974.

(WASH-1332(74) V.2)

BUCHHOLZ, JERRY R. (H-7)

CHRISTENSON, CONARD W. (H-7)

30-60

U.S. ENERGY AND PRIORITIES.

LASL, 1974. 8P. (LA-5667-MS)

FREIWALD, DAVID A. (L-5)

FINCH, FRANCIS T. (L-5)

30-61

UNITED STATES NATIONAL SECURITY POLICY
AND NUCLEAR WEAPONS.

LASL, 1974. 6P. (LA-5785-MS)

BENNETT, WILLIAM S. (ADWP-2)

SANDOVAL, ROBERT R. (ADWP-2)

SHREFFLER, ROBERT G. (DOS-1)

AUTHOR INDEX

- AAMODT, R. LEE (Q-22)
11-3
11-8
11-19
- ABATE, JOSEPH
5-51
- ABERNATHEY, ROBERT M. (CMB-1)
2-10
- ADAM, J. C.
20-87
- ADAMS, WARREN H. (H-7)
17-40
17-73
30-29
- ADLER, FELIX T. (T-DO)
28-6
- AGNEW, HAROLD M. (DIR)
30-23
- ALBRIGHT, JAMES N. (Q-22)
11-7
- ALSTER, JONAS (MP-DO)
22-59
- ALTSEIMER, JOHN H. (Q-23)
11-13
- AMATO, JAMES J. (MP-7)
22-10
- AMSDEN, ANTHONY A. (T-3)
18-2
18-12
18-15
- ANDERSON, ALAN N. (MP-7)
19-14
- ANDERSON, CHARLES A. (WX-3)
13-5
15-11
27-19
- ANDERSON, ERNEST C.
24-5
- ANDERSON, ERNEST C. (H-DO)
5-64
17-65
- ANDERSON, HERBERT L.
24-8
- ANDERSON, J. D.
25-66
25-75
- ANDERSON, JAMES C. (GMX-7)
15-1
- ANDERSON, JAMES L. (CMB-3)
23-16
- ANDERSON, K. A.
1-26
- ANDERSON, ROBERT G. (H-5)
17-51
17-56
- ANDERSON, WILLIAM (T-1)
30-49
- ANDRAE, RICHARD W. (ENG-7)
13-7
13-8
- APT, KENNETH E. (H-8)
17-35
25-82
- APT, KENNETH E. (H-8) COMP.
17-19
- ARCHULETA, RUBEN F. (H-4)
5-35
5-62
- ARMSTRONG, DALE D. (P-12)
25-45
25-88
25-94
- ARMSTRONG, PHILIP E. (CMB-8)
11-30
- ARMSTRONG, T. W.
5-20
- ARMSTRONG, W. T.
25-68
- ARNOLD, GEORGE P. (L-3)
20-75
20-140
- ARNOLD, JAMES R.
1-16
3-6

ARTHUR, EDWARD D. (P-3)
 22-10
 25-7
 25-48
 25-49
 25-67

ASBRIDGE, JOHN R. (P-4)
 1-1
 1-5
 1-10
 1-11
 1-12
 1-13
 1-14
 1-18
 1-29
 1-30
 1-31
 1-32
 1-33
 1-35
 3-17
 3-18
 3-26

ASHLEY, WILLIAM H. (CMB-1)
 2-5
 2-6
 2-15

ASPREY, LARNED B. (CNC-4)
 4-14
 4-58
 7-13
 8-34

ASPREY, MARGARET E. (C-3)
 25-46

ATWATER, HENRY T. (A-2)
 26-27

ATWELL, THOMAS L. (A-1)
 26-17

AUCHAMPAUGH, GEORGE F. (P-3)
 21-32
 25-67

AUGUSTSON, RONALD H. (A-1)
 25-31
 26-10

AXFORD, ROY A. (L-5)
 20-13

AXFORD, ROY A. (TD-4)
 18-10

BACAL, MARTHA
 27-10

BACK, BIRGER BO (P-DOR)
 16-8
 16-10
 16-11
 16-12
 16-13

BAILEY, ARTHUR G. (Q-4)
 10-1
 10-115

BAIR, WILLIAM J.
 5-97

BAKER, BRUCE L. (Q-26)
 10-66

BAKER, CURTIS (CMB-11)
 23-21

BAKER, DON A. (CTR-2)
 10-18
 10-45
 10-56
 10-97

BAKER, DON A. (Q-2)
 10-23

BAKER, DON A. (Q-6)
 10-78

BAKER, RICHARD D. (CMB-DO) COMP.
 28-10
 28-11
 28-12

BAKER, STEPHEN D.
 25-68

BALAGNA, JOHN P., JR. (CNC-11)
 16-29

BALCOMB, J. DOUGLAS (N-DO)
 30-26

BALCOMB, J. DOUGLAS (Q-DOT)
 12-1
 12-2
 12-3
 12-6
 28-5
 28-8

BALDWIN, HOWARD A. (H-6)
 5-9
 5-41

BALESTRINI, SILVIO J. (CNC-11)
 16-17
 16-22

BAME, SAMUEL J., JR. (P-4)
 1-1
 1-5
 1-10
 1-12
 1-13
 1-14
 1-18
 1-28
 1-29
 1-30
 1-31
 1-32
 1-33
 1-35
 3-17
 3-18
 3-26

BANKSTON, CHARLES A., JR. (Q-23)
11-16
11-27

BANTA, JAMES J. (ENG-7)
13-12

BANTON, MARTIN E. (Q-26)
8-13
8-14

BARDWELL, S.
20-128

BARNER, JOHN O. (CMB-11)
23-33

BARNES, JAMES E. (MP-3)
5-111

BARNES, JOHN F. (T-4)
4-16
18-27

BARNES, JOHN W. (CNC-11)
25-73

BARNHART, BENJAMIN J. (H-9)
5-2

BARR, DONALD W. (CNC-11)
22-33
25-51

BARR, SUMNER (H-8)
11-1
17-29

BARR, W. L.
20-29

BARRETT, RICHARD J. (MP-7)
19-14

BARTLET1, MARY L. (H-6)
5-104

BARTLETT, ROGER J. (Q-26)
8-4
8-31

BATTAT, MORRIS E. (T-1)
25-84

BATTAT, MORRIS E. (T-1) COMP.
17-57
17-58
17-59
17-60

BAZLEY, NORMAN W.
21-42

BEALE, HARRY A.
23-12

BEARSE, ROBERT C. (A-1)
5-42

BEATTIE, WILLARD H. (L-3)
20-82

BEATTY, JERRY N. (J-7)
21-28

BECKMAN, RICHARD J. (C-5)
21-4
21-18
21-27
21-36

BEERY, JEROME G.
25-1

BEHRING, W. E.
3-13

BELL, GEORGE I. (T-DOT)
5-5
5-61
5-72
5-80

BENDER, JOHN H., JR. (CMB-11)
23-21

BENDT, PHILIP J. (P-1)
28-1

BENDT, PHILIP J. (P-12)
19-15

BENJAMIN, ROBERT F. (L-4)
20-98

BENNETT, ELBERT W. (J-14)
4-33
25-71

BENNETT, WILLIAM S. (ADWP-2)
30-56
30-61

BENZIGER, THEODORE M. (WX-2)
7-18
15-6

BERGE, GERHARD (CTR-6)
10-24

BERGQVIST, INGVAR L.
25-99

BERNSTEIN, EUGENE M.
25-45

BERTSCH, G. F.
22-7

BERZINS, GEORGE J. (J-12)
19-18
25-74

BETHE, HANS A. (T-DO)
22-57
25-34

BEVIS, DARELL A. (H-5)
17-52
17-63
17-64

BEYER, WILLIAM A. (T-7) ED.
21-49

BEYER, WILLIAM A. (T-DOT)
5-73
21-19
21-26

BICHSEL, HANS
 25-58

BIELEFELD, M. J.
 1-16

BINSTOCK, JUDITH
 25-78
 25-114

BIRD, PAUL F. (L-3)
 20-1
 20-82

BLAIR, ALLEN G. (DIR OFF)
 25-1

BLAIR, LARRY S. (L-3)
 20-1
 20-2
 20-86

BLAIS, NORMAND C. (CNC-4)
 6-12

BLANN, M.
 16-9

BLATTNER, WOLFRAM G.
 1-19

BLEWETT, PATRICK J. (TD-5)
 18-27

BOICOURT, GRENFELL P. (CTR-4)
 10-89
 10-92

BOICOURT, GRENFELL P. (Q-4)
 10-1
 10-33
 10-75

BOLAND, J. F.
 23-17

BOLSTERLI, MARK (T-9)
 22-17
 27-16

BONNER, BILLY E. (P-DOR)
 25-76

BOONE, MAX L. M.
 5-94

BOOTH, LAWRENCE A. (N-DOT)
 30-26

BOOTH, LAWRENCE A. (Q-DOT)
 28-5

BORING, A. MICHAEL (CMB-5)
 4-37

BORING, A. MICHAEL (J-10)
 4-7
 4-15
 4-26

BOSLER, GERALD E. (T-1)
 10-81

BOTTOMS, PAUL J. (J-10)
 1-8
 1-15
 1-24

BOUDREAU, JAY E. (T-1)
 28-17

BOWERSOX, DAVID F. (CMB-11)
 6-13

BOWMAN, ALLEN L. (CMB-3)
 9-12

BOWMAN, J. DAVID (MP-4)
 25-43
 25-64
 25-116

BOWMAN, MELVIN G. (CMB-3) COMP.
 7-9
 7-10

BOWMAN, MELVIN G. (CMB-DO)
 7-6

BOYER, KEITH (L-DO)
 20-36
 20-132

BRACKBILL, JEREMIAH U. (T-3)
 10-62

BRANDENBURG, RICHARD A. (T-5)
 25-62
 25-119
 25-120

BRANDON, ELDON D. (CMB-11)
 30-4

BRASIER, ROBERT I. (ENG-DO)
 28-16

BRECKENRIDGE, CHARLES E., JR. (H-5)
 17-61

BRIDGE, H. S.
 1-18
 3-17
 3-18

BRIDWELL, RICHARD J. (J-9)
 11-6

BRIESMEISTER, RICHARD A. (CMB-3)
 23-16

BRINKLEY, FOREST W., JR. (T-1)
 21-58
 21-59

BRITT, HAROLD C. (P-9)
 16-13
 16-21
 16-24

BRITT, HAROLD C. (P-DOR)
 16-5
 16-8
 16-9
 16-10
 16-11
 16-12

BRIXNER, BERLYN (M-5) 19-3 19-13	BURKHALTER, P. G. 4-53
BROGLIA, RICARDO A. (P-DOR) 25-44	BURKHARDT, LOUIS C. (CTR-2) 10-18 10-45 10-56 10-97
BRONSON, JOHN C. (Q-26) 19-12	BURLESON, GEORGE (MP-4) 22-59
BROSTE, WILLIAM B. 1-25	BURMAN, ROBERT L. (MP-7) 22-10
BROWN, D. I. 10-113	BURNETT, LOWELL J. (CNC-2) 14-4 14-5
BROWN, DAVID (E-4) 21-47	BURNETT, SIBLEY C. (P-15) 10-65
BROWN, DONALD W. (Q-22) 11-11 11-22 11-25	BURNS, JAMES J. (CMB-5) 13-15
BROWN, LEON J. (J-12) 25-74	BUSH, EDGAR D., JR. (MP-8) 5-92
BROWN, ROBERT T. (J-15) 4-6 18-1	BUSSARD, ROBERT W. (N-DO) 30-6
BROWN, WILBUR K. (TD-7) 3-37	BUTLER, THOMAS D. (T-3) 18-23
BROWNELL, JOHN H. (CTR-1) 10-48	BUZBEE, BILLY L. (C-4) 21-14 21-15 21-37
BROWNING, RICHARD V. (WX-3) 27-19	
BRUNTING, ALBERT (H-10) 5-30	CADY, ROBERT L. (MP-8) 22-38
BRYAN, RONALD A. (T-5) 22-52 25-78 25-114	CALDWELL, JOHN T. (A-2) 16-27 19-11 19-17 19-23
BRYANT, LAWRENCE E., JR. (M-1) 2-13	CAMP, DAVID C. 25-82
BUBERNAK, JOSEPH (CMB-1) 2-4 7-12	CAMPBELL, ARTHUR W. (M-3) 15-7
BUCHHOLZ, JERRY R. (H-7) 30-59	CAMPBELL, EVAN E. (H-5) 17-45 17-51 17-55 17-56
BUHL, D. 3-5 3-12	CAMPBELL, EVELYN W. (H-9) 5-38 5-109 5-110
BUNCH, JAMES M. (CMB-5) 10-13 10-17 10-27 23-4	CAMPBELL, GEORGE M. (CMB-11) 7-14
BUNKER, MERLE E. (P-2) 25-25 25-33	CAMPBELL, LAURENCE J. (P-8) 8-1 8-10
BUNSHAH, R. F. 23-12	

CAMPBELL, LAURENCE J. (Q-26)
8-2

CAMPILLO, ANTHONY J. (L-2)
20-45
20-109
20-116
20-117
20-118
20-120
20-121
20-130
20-143

CANTRELL, CYRUS D., III (L-DOT)
20-145

CANTRELL, EMMETT L. (CTR-3)
10-44
10-71

CARLSON, BENGT G. (T-1)
24-7

CARLSON, GARY A.
23-16

CARMICHAEL, BYRON M. (T-1) COMP.
28-19

CARPENTER, BERNARD (L-4)
20-120
20-121

CARROLL, THOMAS A. (L-1)
20-38

CARSTENS, DEAN H. W. (CMB-3)
7-2
7-4

CARTER, LELAND L. (TD-6)
21-31

CARTWRIGHT, DAVID C.
4-35

CASELLA, VITO R. (CNC-11)
25-81

CASEY, HUGH (CMB-6)
23-5

CASHWELL, EDMOND D. (TD-6)
21-3
21-24
21-31
21-48

CASPERSON, D. E.
22-29

CASTEN, RICHARD F.
25-108

CHAMBERS, WILLIAM H. (A-2)
26-27

CHANDLER, GEORGE I. (CTR-8)
10-107

CHASE, L. M.
1-26

CHRISTENSEN, ELDON L. (CMB-11)
17-12

CHRISTENSON, CONARD W. (H-7)
30-14
30-59

CLARK, R. G.
16-14

CLAYTON, RICHARD D. (P-11)
13-1

CLEGG, T. B.
25-65

CLEMENTS, WILLIAM E. (H-8)
11-1

CLIFTON, DAVID G. (CMB-11)
7-1

CLIFTON, DAVID G. (N-1)
30-57

CLINARD, ELVA H. (H-6)
5-104

CLINARD, FRANK W., JR. (CMB-5)
10-13
10-17
10-27
10-32
10-101
10-114
23-4

CLINE, MICHAEL C. (T-3)
18-7
25-53

CLOSE, DONALD A. (A-1)
5-29
5-42
22-13
22-35
26-13
26-18

CLOUTMAN, LAWRENCE D. (T-3)
18-16

COBURN, LEAH A.
5-85

COBURN, MICHAEL D. (WX-2)
5-85
15-6
15-12

COCHRAN, DONALD R. F. (MP-6)
22-45

COHEN, JAMES S. (T-6)
4-22
4-23
4-26
4-34
4-41
4-44

COHEN, JAMES S. (TD-8)
4-2
4-17

COLLINS, DAVID G.
1-19

CONANT, DONALD R., JR. (CNC-2)
21-26

COOK, JAMES L. (T-3)
18-2

COON, JAMES H. (P-4)
25-118

COOPER, M. D. (LAMPF USER)
22-58

COOPER, RALPH S. (L-DO)
20-36

COOPER, RALPH S. (T-DO)
30-3

CORTEZ, JOSEPH R. (H-1)
17-14

COSMAN, ERIC R. (P-DCR)
25-108

COULTAS, THOMAS A.
10-19
10-20
10-22
10-101
10-103

COWAN, ROBERT D. (T-4)
3-13
3-33
4-1
4-10
4-47
4-49
4-53

COWDER, LEO ROSS (A-1)
26-2
26-12
26-16
26-25

COX, ARTHUR N. (J-15)
3-27

COX, LAWRENCE E. (CMB-1)
2-9

CRAIG, BOBBY G. (M-3)
15-7
18-9

CRAM, L. SCOTT (H-10)
5-6
5-7
5-96
5-100

CRANDALL, KENNETH R. (MP-9)
22-53

CRANE, T. W.
22-29

CRISMAN, HARRY A. (H-10)
5-8
5-14
5-17
5-74
5-93

CRITCHFIELD, CHARLES L. (T-9)
27-13

CROMER, DON T. (CMB-5)
9-4
9-5

CROSS, JON B. (CNC-4)
6-14
6-18

CROSTHWAITE, KEVIN R.
25-95
27-12

DABBS, J. W. T.
16-4

DALY, BART J. (T-3)
5-78
18-21

DANIELS, WILLIAM R. (CNC-11)
25-18
25-51

DAVID, WALTER R. (CMB-3)
11-2

DAVIDSON, J. P.
22-13
23-35

DAVIDSON, KEITH V. (CMB-6)
28-4

DAVIES, K. T. R. (T-9)
25-101

DAVIS, ALVIN H. (J-9)
18-4

DAVIS, CECIL G. (J-15)
3-28

DAVIS, T. NEIL
1-8
1-15
1-22
1-24

DAVIS, THOMAS O., JR. (H-5)
17-52
17-62
17-63
17-64

DE FIELD, JAMES D. (H-5)
17-13
17-74

DE KOKER, JON G. (L-3)
20-80
20-82

DE LISI, CHARLES P. (T-DO)
5-25

DE LISI, CHARLES P. (T-DOT)
5-1
5-5
5-51
5-61
5-81
5-107
5-112

DE POORTER, GERALD L. (L-3)
20-71

DEAN, PHILLIP N. (H-10)
5-27
5-53
5-66

DEAN, PHILLIP N. (H-4)
22-45

DEAVEN, LARRY L. (H-9)
5-21
5-22
5-68
5-75

DEBRUNNER, PETER
25-64
25-104
25-116

DECKER, WAYNE R.
8-8

DEMAREST, HAROLD H., JR. (M-6)
4-30

DEMUTH, HOWARD B. (N-4)
30-25

DENDY, JOEL E., JR. (C-6)
21-53

DENNIS, BERT R. (Q-22)
11-17
11-18
11-28

DEPP, STEVEN W. (E-DO)
5-4
5-9
5-41
5-102

DEVANEY, JOSEPH J. (L-5)
20-81

DEVANEY, JOSEPH J. (T-9)
25-96

DEVER, DAVID F. (CMB-11)
4-38

DEVERALL, JOHN E. (Q-25)
13-14

DI MARCO, JOSEPH N. (CTR-2)
10-18
10-45
10-56
10-97
10-104

DI MARCO, JOSEPH N. (Q-2) COMP.
10-77

DICKMAN, DONALD O. (C-3)
20-24

DIKE, ROBERT S. (Q-4)
10-12
10-29

DIRECTOR'S OFFICE
30-36
30-37

DOANE, J. WILLIAM
25-39

DODDER, DONALD C. (T-9)
25-70
25-95
25-96

DONOGHUE, TIMOTHY R.
25-123

DORR, FRED W. (C-4)
21-14
21-15

DOSCHEK, G. A.
3-13

DOWDY, EDWARD J. (A-2)
16-27
19-11
19-17

DOWLER, THOMAS W. (ADWP-2)
21-27

DOWNING, JAMES N., JR. (CTR-7)
10-28
10-102

DOYAS, R. J.
25-66

DRAKE, DARRELL M. (P-3)
25-2
25-7
25-32
25-48
25-49
25-67
25-99

DRAKE, GLESSIE A. (H-4)
5-10

DRALEY, J. E.
10-22

DREICER, HARRY (CTR-1)
10-48

DROPESKY, BRUCE J. (CNC-11)
 7-15
 25-73

DROSG, MANFRED (P-3)
 25-2
 25-42

DU CHARME, A. R.
 23-22
 23-23
 23-35
 23-37

DUBOIS, DONALD F. (T-6)
 20-74
 20-102
 20-128

DUDZIAK, DONALD J. (T-1)
 10-4
 10-6
 10-14
 10-27
 10-36
 10-81
 10-91
 10-111
 20-62
 20-122
 22-31
 22-32
 22-33
 24-3

DUFFY, D.
 23-2

DUNN, ELEANOR D. (MP-DO) COMP.
 22-48
 22-49
 22-50
 22-51

DUNNING, THOMAS H., JR. (T-6)
 4-35

EAST, LARRY V. (A-1)
 16-6
 19-10
 21-56
 26-17

EASTMAN, TIMOTHY E.
 1-25

EBERHARDT, WILLIAM (ENG-2)
 17-13

EDESKUTY, FREDERICK J. (CMF-9)
 8-17

EDESKUTY, FREDERICK J. (Q-26)
 8-23
 8-30
 12-4
 17-11

EHLER, A. WAYNE (L-4)
 20-33
 20-41

ELDER, JOHN C. (H-5)
 17-3
 17-6
 17-34
 17-36
 17-37
 17-38
 17-42
 17-74

ELLINGER, FINLEY H. (CMB-5)
 9-16

ELLIOTT, C. JAMES (T-6)
 10-16
 20-25
 20-28
 20-39
 20-46
 20-61
 20-75
 20-90
 20-108
 20-140

ELLIOTT, RAYMOND L. (C-DO)
 21-9

ELLIOTT, REED O. (CMB-5)
 23-18
 29-2

ELLIS, RICHARD F. (CTR-1)
 10-48

ELLIS, WALTON P. (CMB-8)
 9-1
 9-11
 9-14
 27-15

ELLIS, WILLIAM R., JR. (CTR-4)
 10-3
 10-44
 10-72
 10-76
 10-100

ELLIS, WILLIAM R., JR. (P-15)
 10-65

ELLIS, WILLIAM R., JR. (Q-3)
 10-35
 10-49
 10-85

EMELITY, LUDGARD A. (H-7)
 30-14

EMIGH, C. ROBERT (P-DOR)
 13-21
 25-53

ENGELKE, MORRIS J. (H-1)
 17-27

ENGELKE, RAY (GMX-8)
 18-13

ENGELKE, RAY (M-3)
 18-22

ENGELKE, SANDRA Z. (P-4)
4-18

ENGER, M. DUANE (H-4)
5-59

ENGER, M. DUANE (H-9)
5-38
5-40
5-109
5-110

ENGINEERING DEPARTMENT PERSONNEL
13-11

ENGLAND, TALMADGE R. (T-2)
16-19

ENGLE, LEON B. (N-2)
17-44

ENGLEMAN, ROLF, JR. (CMB-1)
4-8
4-36
10-115
10-116

ENGLEMAN, ROLF, JR. (GMX-2)
6-20

ENLANDER, DEREK
5-79

ENSSLIN, NORBERT (MP-10)
22-54

ENTRINGER, ROGER C.
21-17

ERDAL, BRUCE R. (CNC-11)
16-18

ERICKSON, DENNIS J. (M-6)
8-5

ERICKSON, DENNIS J. (P-8)
8-8

ERICKSON, DENNIS J. (Q-26)
9-10

ERICKSON, WILLIAM C. (CMB-6)
21-10

ERKKILA, BRUCE H. (P-12)
16-9
19-15

ETTINGER, HARRY J. (H-5)
17-1
17-2
17-3
17-6
17-34
17-36
17-37
17-38
17-42
17-61
17-74

EVANS, ALBERT E. (A-1)
16-6
26-1

EVANS, JERRY L. (A-2)
19-23

EVANS, W. DOYLE (P-4)
3-11

EVEN-ZOHAF, M.
4-1

EVERETT, CORNELIUS J. (TD-6)
7-5
21-3
21-23
21-24
21-31
21-48
21-57

FAIRCHILD, CHARLES I. (H-5)
17-1
17-2

FARR, JOHN D. (CMB-3)
7-4

FARRELL, JOHN A. (P-11)
16-29

FAUST, JOHN
5-94

FAWCETT, BRIAN C.
3-33

FEBER, ROY C., JR. (CMB-8)
6-7

FEHLAU, PAUL E. (A-2)
19-23
26-26
26-27

FELDMAN, BARRY J. (T-6)
20-8
20-24
20-49

FELDMAN, U.
3-13
4-53

FELDMAN, WILLIAM C. (P-4)
1-1
1-5
1-10
1-12
1-13
1-14
1-27
1-29
1-30
1-31
1-32
1-33
1-35
3-18
3-26

FELDSTEIN, ALAN
21-35

FENSTERMACHER, CHARLES A. (L-1)
20-52

FERDINAND, EDWARD O. (L-1)
20-38

FICHT, HARRY (Q-26)
8-30

FICKETT, WILDON (GMX-DO)
15-2

FICKETT, WILDON (T-4)
18-14
18-28

FIEL, ROBERT
5-46

FIELDS, L. W.
26-14

FIGUEIRA, JOSEPH F. (L-1)
20-43
20-48
20-49
20-103

FINCH, FRANCIS T. (L-5)
10-7
10-53
20-40
30-60

FISCHBACH, EPHRAIM
25-69
27-7
27-17

FISHER, ROBERT A. (L-2)
20-130

FLEISCHER, JOCHEM B. (T-9)
27-6

FLUHARTY, REX G. (P-11)
27-4

FLUSS, M. J.
22-33

FLYNN, EDWARD R. (P-12)
25-1
25-44
25-61

FLYNN, EDWARD R. (P-9)
22-25
25-55
25-79
25-80
25-83
25-108
25-109
25-110
25-111

FLYNN, PAUL L. (H-2)
17-4

FOLDY, L. L.
25-100
25-106

FOLEY, JOHN E. (ENG-6)
26-2
26-16
26-17

FORD, GEORGE P. (CNC-11)
16-18
16-20
16-29
25-18
25-20

FORD, KENNETH W. (T-9)
22-9

FOREST, CHARLES A. (TD-6)
21-31

FORMAN, LEON (J-16)
16-17

FORMAN, PETER R. (CTR-2)
10-45

FORMAN, PETER R. (CTR-8)
10-104

FORREST, ROBERT P., JR. (ENG-8)
13-13

FORSLUND, DAVID W. (P-18)
10-68

FORSLUND, DAVID W. (T-6)
1-27
10-105
20-10
20-14
20-91
20-102
20-107
20-127

FORSLUND, JEAN C. (H-10)
5-96
5-104

FORSTER, ROBERT A. (A-1)
26-1
26-7
26-11
26-15
26-24

FOSTER, DUNCAN G. (T-2)
25-98

FOWLER, ERIC B. (H-7)
17-40
17-73
30-58

FOWLER, ROBERT D.
8-34

FRAIDKIN, DAVID B. (L-3)
20-11
20-82

FRAENKEL, B. S.	FREYMAN, ROBERT W. (E-4)
4-1	5-9
	5-102
FRALEY, GARY S. (T-6)	FREYMAN, ROBERT W. (E-DOR)
20-55	5-4
20-70	5-4!
20-104	
FRALEY, GARY S. (TD-8)	FRICKE, BURKHARD
20-138	4-12
FRANCO, VICTOR (P-DOR)	FRITTS, D.
22-55	25-104
FRANK, THURMAN G. (L-5)	FUKA, LOUIS R. (ENG-7)
10-7	13-3
20-40	
20-62	FULLERTON, L. WAYNE (C-4)
20-67	4-48
20-73	FULLWOOD, RALPH R.
20-122	22-34
FRANK, THURMAN G. (L-5) COMP.	FULTYN, ROBERT V. (H-1)
20-68	17-47
FRANKEL, STANLEY P.	21-25
24-6	
FRASER, JAMES C. (P-8)	FULWYLER, MACK J. (H-4)
8-10	5-71
FRAUENFELDER, HANS	
25-64	
25-104	
25-116	
FREESE, KENNETH B. (CTR-8)	GAGE, AVERY M. (ENG-7)
10-3	22-22
	28-2
FREIDBERG, JEFFREY P. (CTR-6)	GALBRAITH, HAROLD W. (T-7)
10-24	21-33
10-96	
10-100	GALLIMORE, JOHN C., JR. (H-1)
10-108	17-78
FREIDBERG, JEFFREY P. (P-18)	GAMMEL, JOHN L. (T-9)
10-2	4-5
10-59	25-3
10-95	25-47
10-98	27-1
	27-2
FREIDBERG, JEFFREY P. (Q-6)	27-13
10-40	
10-50	GANLEY, JAMES T. (L-1)
	20-126
FREIESLEBENT, H.	GARD, R. P.
16-5	30-56
FREIWALD, DAVID A. (L-5)	GARDE, RAYMOND (H-8)
10-64	17-12
10-102	
20-12	GARDNER, ROSS D. (CMB-1)
20-13	2-5
20-72	2-16
20-73	
30-5	GARDNER, SAMUEL D. (WX-7)
30-60	20-124
FRETWELL, JAMES H. (Q-26)	
8-30	

GARRETT, J. D. (P-DOR)
16-8
16-10
16-11
16-12
16-13
25-61
25-83
25-112

GARWIN, RICHARD L. (T-DO)
8-12

GARY, S. PETER (P-4)
1-27
1-31

GAVRON, AVIGDOR I. (P-9)
16-21
16-24

GEOFFRION, LOUIS A. (H-5)
17-62
17-63
17-64

GERBER, R. A.
20-2
20-86

GERSTEN, A.
25-114

GERWIN, RICHARD A. (CTR-6)
10-64

GETZINGER, RICHARD W. (L-3)
6-15
6-17

GIBBS, WILLIAM R. (T-5)
22-8
22-17
22-36
22-37
25-21
25-24
25-26
25-103

GIBBY, R. L.
7-1

GIBSON, BENJAMIN F. (T-5)
22-17
22-19
25-23
25-103

GIessen, BILL C.
23-18
29-2

GILBERT, JOEL S. (L-5)
20-40
20-110

GILL, DENNIS H. (L-2)
20-53
20-116

GILMORE, JAMES S. (CNC-11)
22-33

GIORG, ANGELO L. (CMB-3)
8-8
23-7
23-9
23-25

GIOVANELLI, DAMON V. (L-4)
10-110
20-41
20-50
20-58
20-98
20-99
20-123

GITOMER, STEVEN J. (Q-6)
10-105
10-113

GITOMER, STEVEN J. (T-6)
20-24
20-29
20-87
20-93
20-94

GLADD, N. THOMAS (CTR-6)
10-15

GLASSTONE, SAMUEL (D-DO)
30-24

GLASSTONE, SAMUEL (DIR OFF) COMP.
28-14
28-15
30-42
30-43

GLENN, RUSSELL D. (CNC-11)
19-8

GOAD, WALTER B., JR. (T-DOT)
5-26
5-27
5-67

GODFREY, BRENDAN B. (T-6)
20-22
20-78
20-79
20-92
20-95
20-106
20-146

GODFREY, LOIS E. (ISD-4)
30-22

GODWIN, ROBERT P. (L-4)
10-110
20-16
20-41
20-42
20-50
20-58
20-98
20-99

GOLDHABER, ALFRED S. (MP-DO)
22-30
27-9

GOLDMAN, AARON S.
27-11

GOLDMAN, ARNOLD I.
17-32

GOLDMAN, M. V.
20-128

GOLDSTEIN, BYRON
5-51
5-81

GOLDSTEIN, JOHN C. (T-6)
20-24
20-64
20-65

GOLDSTEIN, LOUIS (T-DOT)
8-18
8-19
9-18

GONZALES, MANUEL (H-5)
17-3
17-36
17-37
17-38
17-42
17-61
17-74

GOODMAN, CLARK (LAMPF USER)
5-77

GOODRICH, EDWARD O., JR.
5-58

GOPLIN, BRUCE C. (K-DO)
28-21

GOPLIN, BRUCE C. (MP-9)
22-36
25-21

GRAVES, GLEN A. (DIR OFF)
17-31

GRAY, CARLA W.
5-12

GRAY, DONALD M.
5-12

GRAY, DOUGLAS C. (***)
17-71

GREEN, JERE L. (CMB-11)
23-33

GREEN, WALTER V. (CMB-13)
23-14

GREEN, WALTER V. (CMB-8)
10-27
10-57
23-34

GREINER, NORMAN R. (L-3)
20-1
20-2
20-86

GRIBBLE, ROBERT F. (CTR-3)
10-76

GRIBBLE, ROBERT F. (CTR-7)
10-28
10-86
10-92

GRIBBLE, ROBERT F. (P-15)
10-87

GRIBBLE, ROBERT F. (Q-7)
19-16

GRIFFIN, DONALD C.
4-49

GRIFFY, T. A.
25-103

GRIGGS, JAMES E. (Q-23)
11-5

GRILLY, JULIAMARIE L. (H-DO)
5-22

GRISHAM, GENEVIEVE F. (CNC-11)
25-51

GROSSMANN, WILLIAM, JR. (CTR-6)
10-108

GRUBER, JOHN B. (CNC-2)
4-28
4-32

GRUEBLER, WILLI (P-DOR)
25-87

GULA, WILLIAM P. (T-6)
20-70
20-104

GURLEY, LAWRENCE R. (H-9)
5-16
5-37
5-40
5-70
5-105

GUTBROD, H. H.
16-9

H-DIVISION STAFF
17-20
30-32
30-33
30-34
30-35

HAARMAN, ROY A. (Q-4)
10-29

HAAS, FREDERICK A. (Q-6)
10-50

HABERSTICH, ALBERT (CTR-2)
10-18
10-97

HACK, ALAN L. (H-5)
17-62
17-63
17-64
17-68

HADDAD, EUGENE (N-5) 30-49	HANKS, KENNETH W. (CTR-4) 10-106
HAFFER, JOHN F. (E-4) 12-2	HANKS, KENNETH W. (Q-4) 10-1
HAIGHT, ROBERT C. 25-6 25-86	HANNERS, JOHN L. (H-9) 5-109
HAKKILA, E. ARNOLD (CMB-1) 2-18	HANOLD, ROBERT J. (Q-23) 11-16 11-27 11-32 11-33
HALE, GERALD M. (T-2) 25-8 25-70 25-96 25-97 25-98	HANSEL, JAMES M. (CMB-1) 2-18
HALE, GERALD M. (T-2) ED. 25-11 25-12 25-13 25-15	HANSEN, GORDON E. (P-5) 24-1 25-30
HALLECK, PHILLIP M. (WX-7) 9-13 9-17 23-28	HANSEN, L. F. 25-66 25-75
HALPERN, ISAAC 25-7 25-49	HANSEN, OLE (P-DOR) 16-8 16-10 16-11 16-12 16-13 25-108 25-110 25-112
HAM, WILLIAM T., JR. 17-32	HANSON, WAYNE C. (H-8) 17-5 17-17 17-34
HAMBURG, S. I. 9-2	HANTEL, LAWRENCE W. (WX-2) 15-7 17-34
HAMMEL, EDWARD F., JR. (ENERGY OFFICE) 8-4 8-11	HARBUR, DELBERT R. (CMB-11) 23-6
HAMMEL, EDWARD F., JR. (P-8) 8-9 8-10	HARDEKOPF, ROBERT A. (P-9) 25-65 25-68 25-88 25-89 25-94
HAMMEL, JAY E. (CTR-5) 10-54	HARDER, CARROLL R. (CTR-3) 10-76
HAMMEL, JAY E. (Q-5) 10-10 10-41	HARDIN, JULIA MARIE (H-9) 5-39
HAMMER, CHARLES F. (Q-4) 13-12	HARLOW, FRANCIS H., JR. (T-3) 18-12 18-15 18-18 18-20 18-26
HAMMER, DONALD P. 30-1	HARPER, KATHERINE H. (MP-DO) ED. 22-43
HAMPEL, ARNOLD E. 5-109	
HAN, KI S. (J-12) 19-18	
HANDY, LARRY E. (E-4) 8-3	
HANKINS, DALE E. (H-1) 17-14 17-77 19-7	

HARRIS, DONALD R., JR. (T-2)
 16-19
 25-8
 25-10
 25-28
 25-84

HARRIS, DONALD R., JR. (T-2) ED.
 25-11
 25-12
 25-13
 25-14
 25-15

HARRIS, HARLAN W. (CTR-4)
 10-11

HARRIS, HARLAN W. (Q-4)
 10-13
 10-80

HARRISON, FRANCIS B. (L-1)
 20-126
 20-141

HARTLE, R. E.
 3-17
 3-18

HARVEY, J. A.
 25-72

HASSENZAHN, WILLIAM V. (Q-26)
 8-28
 8-29

HASTINGS, RAY D. (A-2)
 26-27

HATCH, A. J.
 10-19
 10-20
 20-94

HAWKINS, EUGENE V. (WX-6)
 19-6

HAYDEN, JAMES J. (L-1)
 20-38

HAYES, F. NEWTON (H-9)
 5-26
 5-27
 5-67
 5-89

HAYES, JOHN K. (ADWP-2)
 21-34
 30-7

HAYES, R. W.
 3-33

HEALY, JOHN W. (H-DO)
 17-8
 17-9
 17-49
 17-50
 17-54
 17-65

HECHT, HARRY G. (CNC-2)
 4-28
 4-32

HECK, EVELYN L. (L-5)
 20-62
 20-122

HEDSTROM, JAMES C. (Q-DOT)
 12-1
 12-2
 12-3
 12-6

HELD, BRUCE J. (H-5)
 17-52
 17-53
 17-62
 17-63
 17-64
 17-68

HELLER, LEON (T-5)
 21-45
 25-22
 25-93

HELMICK, HERBERT H. (P-5)
 28-9

HEMMENDINGER, ARTHUR (P-3)
 16-29

HEMMIG, P. B.
 25-10

HENDERSON, DALE B. (T-6)
 20-5
 20-6
 20-7
 20-17
 20-18
 20-25
 20-90
 20-108
 20-133
 20-134
 20-139
 20-144

HENDERSON, DALE B. (TD-8)
 20-115

HENDRICKS, JOHN S. (T-2)
 24-10

HENICKSMAN, ARTHUR L. (CMB-1)
 2-5
 2-6

HENINS, IVARS (CTR-5)
 10-54

HENINS, IVARS (Q-5)
 10-10
 10-41

HENKEL, RICHARD L. (P-9)
 27-8

HENRY, CARL N. (A-2)
 26-26
 26-27

HENSLEY, JOHN C.
 5-100
 5-102

HERCEG, JOSEPH E. (H-8)

11-34

HERCZEG, PETER (T-5)

22-14

HERRICK, CLAUDE C. (CMB-13)

9-8

HERRICK, CLAUDE C. (CMB-8)

9-14

HEWETT, DENNIS W. (CTR-6)

10-112

HIEBERT, J. C.

21-12

HIGBIE, PAUL R. (P-4)

1-34

HILDEBRAND, CARL E. (H-9)

5-15

5-90

5-105

HILL, H. HUNTER (CMB-5)

8-24

23-7

23-9

23-25

HILL, N. W.

16-4

HILL, THOMAS R. (T-1)

21-58

24-11

HIRONS, THOMAS J. (TD-6)

25-30

HIRSHBERG, JOAN

1-11

HIRT, CYRIL W., JR. (T-3)

18-2

HITE, G. E. (MP-4)

22-16

HOARD, DONALD E. (H-9)

5-26

5-27

5-67

5-89

HOFFER, JAMES K. (P-8)

8-10

HOFFER, JAMES K. (Q-26)

8-4

8-13

8-31

HOFFMAN, C. GORDON (CMR-6)

23-31

HOFFMAN, C. GORDON (L-4)

20-63

HOFFMAN, DARLEANE C. (CNC-11)

16-25

16-28

16-29

25-18

HOFFMAN, JOSEPH G.

17-30

HOFFMAN, MARVIN M. (J-12)

3-3

3-32

16-25

25-74

HOGENKAMP, H. P. C.

14-1

14-2

HOLLAND, J. R.

23-23

23-37

HOLLAND, LAURENCE M. (H-4)

5-10

5-23

5-64

5-101

17-4

17-32

HOLLAND, REDUS F. (L-3)

4-31

HOLLEN, MILTON J. (Q-4)

10-29

HOLLEY, CHARLES E., JR. (CNC-2)

7-20

HOLM, DALE M. (H-6)

5-4

5-91

5-100

5-102

5-104

HOLT, SMITH L.

4-14

HONES, EDWARD W., JR. (P-4)

1-3

1-6

1-7

1-17

1-20

1-21

1-23

1-26

1-28

1-34

1-36

HOOGTERP, J. CARLTON (P-5)

24-1

HOPF, FREDERIC A. (T-6)

20-64

20-65

HOPKINS, JOHN C. (J-DO)

25-42

HORAK, HENRY G. (J-10)
1-19

HORAN, MARY (H-6)
5-95

HORAN, PAUL K. (H-10)
5-28
5-48
5-74
5-87
5-93
5-95

HOWARD, W. MICHAEL (P-11)
16-1
25-92
25-113

HOWELL, ROBERT B. (CTR-2)
10-45
10-104

HOYT, MARTHA S. (C-7)
21-60

HUEBNER, WALTER F. (T-4)
3-5
3-12
4-48

HUES, ALVIN D. (CMB-1)
2-6

HUGHES, V. W.
22-29

HUGHES, WILLIAM M. (L-3)
20-3
20-4
20-34
20-35

HUIZENGA, J. R.
16-5

HUMPHRIES, STANLEY, JR. (P-14)
20-114

HUNT, BOB R. (C-5)
21-13

HUNTER, ROBERT
20-3
20-4
20-34
20-35
20-88

HUTCHENS, R. D.
29-1

HUTSON, RICHARD L. (MP-3)
5-20
5-54
5-92
5-94
5-106
5-111
5-115

HWANG, CHESTER F. (MP-7)
25-64
25-104
25-116

HWANG, LI-SAN
11-20

HYATT, EDWIN C. (H-5)
17-52
17-62
17-63
17-64
17-68

HYER, RONALD C. (L-2)
20-45
20-53
20-100
20-130

IMHOF, W. L.
3-30
3-31

IMPRESCIA, RICHARD J. (CMB-13)
23-19

IMPRESCIA, RICHARD J. (CMB-8)
23-26
23-27
30-10

INFORMATION SERVICES DEPARTMENT
30-21

INGRAHAM, JOHN C. (CTR-1)
10-48

ISOM, BONNIE LEE (H-5)
17-76

ISRAEL, HARVEY I. (H-1)
17-27
1-19

JACKSON, DARRYL D. (CMB-1)
26-5

JACKSON, DOUGLAS E. (***)
21-17

JACKSON, J. F.
28-17

JACKSON, JANE C.
25-24

JAHODA, FRANZ C. (CTR-8)
10-9
10-72

JAHODA, FRANZ C. (Q-3)
10-73

JAHODA, FRANZ C. (Q-3) COMP.
10-77

JAMESON, ROBERT A. (MP-9)
22-26
22-38

JANNEY, DONALD H. (M-2)
21-13

JARROE, THOMAS R. (CTR-5)
10-54

JARMER, JOHN J. (MP-2)
25-6
25-60
25-86

JARMER, JOHN J. (P-DOR)
25-85

JARME, NELSON (P-9)
25-41
25-58
25-90
25-122
25-125

JARME, NELSON (P-DOR)
25-20
25-104

JARVIS, GEORGE A. (P-5)
28-9

JASINSKI, JERRY P. (CNC-4)
4-13
4-14

JAYORSKY, CHARLES A. (CMB-6)
23-39

JEFFRIES, ROBERT A. (J-10)
1-22

JENSEN, REED J. (J-3)
20-76
20-82
20-110

JETT, JAMES H. (H-10)
5-48
5-66
5-90
5-106
25-41
25-90
25-122

JOHNSON, KAYE ALLAN (CMB-11)
23-10
23-21

JOHNSON, LAMAR J. (H-8)
17-43

JOHNSON, MIKKEL (MP-DO)
22-7
22-40
22-57
25-34

JOHNSON, OGDEN S. (H-4)
5-23
5-35
5-62
5-101

JOHNSON, R. G.
3-30
3-31

JOHNSTON, MARJORIE D. (MP-9)
22-26

JOLLY, EDWARD L. JR. (L-1)
20-36
20-52

JONES, DAVID F. (A-1)
26-8
26-21

JONES, ERIC M. (J-10)
3-20
3-34
18-5

JONES, LLEWELLYN H. (CMP-4)
4-27

JONES, LLEWELLYN H. (CNC-4)
4-19
4-40
4-45
4-56
4-57

JONES, WESLEY M. (CMB-11)
4-36

JOPTA, RICHARD M. (M-6)
15-3

JUD, O'DEAN P. (**)
20-39

JUD, O'DEAN P. (T-6)
4-29
20-31
20-32
20-39

JULE, WILLARD E. (MP-9)
22-51

JURNEY, EDWARD T. (P-DO)
25-72

KAHANER, DAVID K. (C-6)
21-34
21-54

KAMAL, A. N.
22-23

KAMMERDIENER, JOHN L. (**)
25-66
25-75

KAN, J. R.
1-9

KARR, HUGH J. (CTR-2)
10-18
10-45
10-56
10-97
10-104

KASPAR, H. F.
22-29

KATZ, MAURICE J. (CTR-DO) COMP.
10-79

KAUFMAN, VICTOR
4-10
4-59

KAUFMANN, WILLIAM B.
22-37
25-24

KEADY, CHARLES J.
1-2

KEARNEY, PHILIP D. (P-4)
1-32
1-25
3-15

KEARNS, JAMES P. (M-2)
2-17

KEATON, POSEY W., JR. (E-DO)
25-123

KEATON, POSEY W., JR. (P-DOR)
25-47
25-94

KEDDY, EDWARD S. (Q-25)
13-14
13-16

KEENAN, THOMAS F. (CMB-11)
23-8
23-29

KEENAN, THOMAS K. (CMB-11) COMP.
30-38

KEENAN, THOMAS K. (CMF-4)
30-40

KEEPIN, G. ROBERT (A-1)
26-3
26-4
26-20
26-21
26-12

KELLER, CARL E. (J-9)
18-4

KELLER, CHARLES F. (J-15)
3-1
3-21

KELLER, WILLIAM E. (P-8)
8-9
8-10

KELLER, WILLIAM E. (Q-26)
8-4
8-13
30-11

KELLER, WILLIAM E. (Q-26) COMP.
8-25
8-26
8-27

KELLNER, RICHARD G. (C-6)
21-34

KELLOGG, JEROME M. B.
30-27

KEMME, JOSEPH E. (Q-25)
13-14

KEMP, EDWIN L., JR. (CTR-4)
10-11

KEMP, EDWIN L., JR. (P-16)
10-34

KEMP, EDWIN L., JR. (Q-4)
10-21
10-80
10-99

KENDALL, J. S.
28-9

KENT, RICHARD A. (CMB-11)
23-8
23-29

KEPHART, JOHN F. (L-4)
20-16
20-98
20-99
20-123

KERLEY, GERALD I. (T-4)
4-50
4-51

KERN, EDWARD A. (L-5)
10-53

KERR, ALISON K. (ISD-4) COMP.
30-30
30-31

KERR, DONALD M., JR. (J-10)
1-22

KERR, EUGENE C. (Q-26)
8-4
13-10
25-42

KERR, VERNON N. (H-11)
7-18

KERRISK, JERRY F. (CMB-11)
7-1
23-33

KEWISH, RALPH W., JR. (Q-4)
10-12

KEYWORTH, GEORGE A. (P-3)
16-4

KILNER, J. R.
3-30
3-31

KIM, YEONG E. (T-5)
25-62
25-119
25-120

KINDEL, JOSEPH M. (P-18)

10-30
10-67
10-68

KINDEL, JOSEPH M. (T-6)

20-10
20-14
20-91
20-107
20-127
20-131

KING, L. D. PERCIVAL (DIR OFF)

30-9

KIRBY, THOMAS B.

18-5

KITCHENS, THOMAS A.

8-32
9-10

KLEBESADEL, RAY W. (P-4)

3-7
3-9
3-19
3-23
3-30
3-31

KLEIN, MORRIS M. (T-7)

25-84

KLIGERMAN, MORTON M. (DIR OFF)

5-11
5-21

KNAPP, EDWARD A. (MP-3)

5-69

KNIGHT, JERE D. (CNC-11)

22-6
25-57
25-81
25-82

KOELLE, ALFRED R. (E-3)

5-4
5-9
5-102
13-5

KOELLE, ALFRED R. (E-4)

5-41

KOHLER, DAVID R. (L-4)

20-44
20-58
20-98
20-99
20-113
20-124

KOLB, ALAN

20-4
20-35

KONECNY, E. (P-9)

16-21
16-24

KOOPMAN, F. C.

11-1

KOSKI, NANCY L. (CMB-1)

2-16

KRAEMER, PAUL M. (H-9)

5-18
5-19
5-22
5-47
5-49
5-60
5-65
17-4

KRAJCIK, RICHARD A. (T-5)

22-3
25-100
25-106

KRAKOWSKI, ROBERT A. (CTR-7)

10-81
10-84
10-103
10-114

KRAKOWSKI, ROBERT A. (Q-DOT)

10-6
10-19
10-20
10-22
10-25
10-27
10-101

KRANE, KENNETH S.

8-21
25-9

KRAPPE, HANS J.

16-23

KRATZ, J. V.

25-63

KRISHNAN, CHIDAMBARAM K.

20-93

KRISTAL, RICHARD (CTR-8)

10-9
10-42
10-71
10-72
10-82
10-86

KRISTAL, RICHARD (Q-3)

10-58
19-16

KRUPKA, MILTON C. (CMB-3)

11-2
11-29

KUBAS, GREGORY J. (CNC-4)

4-40
4-56

KUNZ, WALTER E. (A-2)

26-27

KUTAC, KENNETH J. (CTR-4)

10-86

KUWABARA, T.

17-32

LA BAUYE, PATRICIA M. (H-4)
5-101

LA BAUYE, RAPHAEL J. (T-2)
25-4
25-10
25-81

LAM, W.
22-10

LAMAR, LAWRENCE E. (CMB-10)
7-11

LAND, CLETIS C. (CMB-5)
21-3

LANDAHL, CHARLES E. (L-1)
20-100

LANGHAM, WRIGHT H.
5-32

LANGHAM, WRIGHT H. (H-4)
17-48

LAQUER, HENRY L. (Q-26)
8-6
8-33

LARSON, ALLEN C. (CMB-5)
9-4
9-5

LARSON, ALVIN R. (L-5)
20-19
20-96

LATHAM, T. S.
28-9

LATHROP, KAYE D. (T-1)
18-17
21-58
21-59
28-13

LATIMER, TRENT W. (CMB-11)
23-33

LAUSHKIN, NIKOLAI
17-13

LAVALLEE, DAVID K. (CNC-2)
14-3

LAWRENCE, FRANCINE O. (CNC-11)
25-51

LAWRENCE, JAMES N. P. (H-1)
17-43

LAWTON, ROBERT G. (Q-23)
21-2
21-38

LAZARUS, A.
1-18
3-17
3-18

LAZARUS, MICHAEL E. (CMB-14)
13-2
13-6
13-22

LAZARUS, ROGER B. (C-100)
25-46

LEARY, JOSEPH A. (CMB-11)
7-8

LEARY, JOSEPH A. (CMB-11) COMP.
30-38
30-39

LEARY, JOSEPH A. (CMB-00)
7-7

LEE, CLARENCE E. (TD-1)
4-52
21-21
24-4

LEE, DAVID M. (MP-10)
13-5

LEE, DAVID M. (MP-7)
19-4

LEE, KENNETH (T-6)
20-14
20-91
20-127
20-131

LEE, PING (L-4)
20-50

LEHMAN, DONALD R.
22-19
25-23

LEHMAN, JOHN (H-10)
5-48

LEIBOWITZ, I.
7-1

LELAND, WALLACE T. (L-1)
20-126
25-57

LEMLEY, JAMES R. (P-3)
16-4

LENZ, WILLIAM H. (CMB-6)
30-15

LEON, MELVIN (MP-3)
22-2
22-5
22-11
22-46
22-47
25-35
25-54

LEROUX, BERNARD (P-DOR)
16-8
16-11
16-13

LETTERIO, JAMES D.
20-95

LEVINSON, LEONARD S. (CMB-8)
 23-15
 23-26
 23-27

LEWIS, H. RALPH, JR. (CTR-6)
 1-14
 10-47
 10-93
 10-94

LEWIS, H. RALPH, JR. (P-18)
 10-2

LEWIS, H. RALPH, JR. (Q-6)
 10-113

LEWIS, HAROLD R. (WX-3)
 15-7

LEWIS, HOMER D. (CMB-11)
 23-10
 27-11

LEY, LOTHAR
 25-43

LIEBENBERG, DONALD H. (L-DOT)
 3-3
 3-32
 19-12

LIEBENBERG, DONALD H. (P-8)
 8-15

LIEBER, ALBERT (J-12)
 20-89

LIEBER, ALBERT (L-4)
 20-98

LIER, DOUGLAS W. (J-14)
 19-19

LILLBERG, JOHN W. (CTR-8)
 10-9
 10-107

LILLIEQUIST, CARL
 3-15

LIN, JUNG
 25-72

LIN, R. P.
 1-26

LINDMAN, ERICK L. (J-10)
 10-68

LINDMAN, ERICK L. (T-6)
 20-10
 20-14
 20-91
 20-107
 20-127
 20-131

LINDSAY, JAMES D. G. (P-8)
 8-34

LINDSAY, JAMES D. G. (Q-26)
 8-6
 8-20
 8-24

LINFORD, RULON K. (CTR-7)
 10-28
 10-92
 10-106

LINNEBUR, ELDON J. (TD-8)
 20-138

LIOTTA, R.
 25-44

LITTLE, EDWARD M. (Q-3)
 8-6

LIVINGSTON, M. STANLEY (MP-DO)
 22-18

LOBNER, KURT E. (P-2)
 25-25

LOCKETT, ANDREW M., III (T-6)
 20-39
 20-60

LOMON, EARLE L.
 22-36
 25-21

LONDON, JERRY E. (H-4)
 5-101

LONG, W. W.
 11-16

LONGMIRE, CONRAD L.
 4-52

LONGMIRE, CONRAD L. (T-4)
 30-50

LOREE, THOMAS R. (L-4)
 20-44
 20-57
 20-113

LOREE, THOMAS R. (L-7)
 20-124

LOS ALAMOS SCIENTIFIC LABORATORY
 28-7

LOUCK, JAMES D. (T-7)
 21-33

LOUCK, JAMES D. (T-9)
 4-3
 4-39
 27-7

LOVOI, PAUL A. (P-DOR)
 25-87
 25-104
 27-12

LOWRY, PHILIP L. (H-5)
 17-62
 17-63
 17-64

LUI, ANTHONY T. Y.
 1-28

LUNDY, ARVID S. (MP-3)
 5-13
 5-24
 5-94

LYMAN, JOHN L. (L-3)
 20-76

LYONS, PETER B. (J-14)
 19-22

MAC DOUGALL, CAROLYN SUE (CMB-1)
 2-3

MAC FARLANE, ROBERT E. (T-2) ED.
 25-11
 25-12
 25-13
 25-15

MACE, PHILLIP N. (L-2)
 20-51
 20-53

MACEK, ROBERT J. (MP-6)
 22-10

MACHALEK, MILTON D. (CTR-3)
 10-44
 10-71

MACHEN, DONALD R. (MP-1)
 21-7

MADER, CHARLES L. (T-4)
 18-8
 18-19

MADEY, RICHARD
 25-39

MAIER, WILLIAM B., II (L-3)
 4-11
 4-31
 4-43
 25-27

MALANIFY, JOHN J. (A-1)
 5-29
 5-42
 22-13
 22-35
 26-9
 26-13
 26-18

MALONE, ROBERT C. (T-6)
 3-22
 20-56
 20-70
 20-104

MANN, JOSEPH B., JR. (T-4)
 4-12
 4-47

MANN, LAWRY W. (Q-6)
 10-23

MARAMAN, WILLIAM J. (CMB-11)
 17-78

MARDER, BARRY M. (CTR-6)
 10-46

MARDER, BARRY M. (P-18)
 10-59

MARDER, BARRY M. (Q-6)
 10-51
 10-52

MARK, J. CARSON (T-DO)
 30-48

MARONI, V. A.
 19-22

MARSH, SINCLAIR F. (CMB-1)
 2-2
 2-10
 2-14

MARSH, STANLEY P. (GMX-6)
 4-25

MARSH, STANLEY P. (M-6)
 4-24

MARSHALL, ALAN H. (C-4)
 25-30

MARSHALL, E. D.
 26-14

MARSHALL, JOHN, JR. (CTR-5)
 10-54

MARSHALL, JOHN, JR. (Q-5)
 10-10
 10-40
 10-41

MARSHALL, THOMAS K. (CMB-1)
 2-3

MARTELL, CALVIN J. (CMB-1)
 2-7
 2-8

MARTIN, E. RAY (A-1)
 26-6
 26-8
 26-23
 26-28

MARTIN, JAMES T. (MP-7)
 8-30

MARTIN, JOHN C. (H-10)
 5-87
 5-93
 25-6
 25-60
 25-86

MARTIN, JOHN C. (H-4)
 13-20

MARTIN, JOHN C. (P-DOR)
 25-85

MARTIN, WILLIAM W. (CMB-6)
23-20

MARTINEZ, AARON M. (H-9)
5-56
5-57

MASON, PIPER A., JR. (CMB-14)
13-2

MASON, RODNEY J. (T-6)
20-54
20-70
20-104
20-135

MASON, RODNEY J. (TD-8)
18-6
20-138

MATLACK, GEORGE M. (CMB-1)
2-3
2-4
7-12
17-16
17-26
17-41

MATTHIAS, BERND T. (T-DO)
8-8

MATWIYOFF, NICHOLAS A. (CNC-4)
14-1
14-2

MAY, D. P.
25-68

MC BROOM, ROBERT C. (P-3)
10-63

MC CALL, GENE H. (L-4)
10-110
20-16
20-41
20-44
20-50
20-57
20-58
20-98
20-99
20-113
20-136

MC CARTHY, R. J.
25-101

MC CLURE, D. A.
25-72

MC CONNELL, JOHN R. (CTR-3)
10-71

MC CONVILE, JOHN T. (H-5)
17-68

MC COY, J. E.
1-26

MC CRORY, ROBERT L. (T-6)
20-5
20-6
20-7
20-56
20-133
20-137

MC CUNE, JAMES E.
20-137

MC CURDY, DAVID E. (H-8)
30-55

MC DANIELS, DAVID K. (P-DOR)
25-42
25-99

MC DONALD, THOMAS E. (E-5)
8-7
13-10

MC DONALD, THOMAS E. (Q-26)
8-4

MC DOWELL, ROBIN S. (CNC-4)
3-10
4-4
4-21
4-42
4-58

MC FARLAND, ROBERT D. (Q-22)
11-21
11-33

MC GIRT, A. FRANK (C-DO)
21-60

MC GUIRE, R. E.
1-26

MC INROY, JAMES F. (H-5)
5-108

MC INTEER, BERTHUS B. (CNC-4)
5-44
5-45

MC KENNA, KENNETH F. (CTR-3)
10-26
10-82

MC KENNA, KENNETH F. (Q-3)
10-58

MC KIBBEN, JOSEPH L. (P-9)
25-64
25-104
25-116
27-8

MC LAUGHLIN, THOMAS P. (P-5)
17-18

MC LEOD, JOHN J. (E-2)
20-53

MC NALLY, JAMES H. (DIR OFF)
25-73

MC NEESE, WILBUR D. (CMB-11)
17-13
17-78

MC QUEEN, ROBERT G. (M-6)
 18-27

MECKLER, GERSHON (ENG-DO)
 12-1

MENLOVE, HOWARD O. (A-1)
 25-31
 26-7

MENZEL, JOERG H. (A-1)
 26-14

MENZEL, MARY T. (T-9)
 4-5
 25-3

MERSON, THOMAS J. (ENG-6)
 10-7
 20-73

METROPOLIS, NICHOLAS C. (C-DO)
 21-50

METZGER, ALBERT E.
 1-16
 3-8

MEYER, HANS O. (MP-3)
 22-24

MEYER, HANS O. (MP-DO)
 5-113
 22-20

MEYER, KENNETH A. (TD-5)
 18-27

MEYER, STUART L.
 22-4
 22-44

MIDKIFF, WILLIAM S. (ENG-7)
 13-4

MILLER, DAN G. (WX-3)
 27-19

MILLER, GERALD A. (T-5)
 22-39

MILLER, GUTHRIE (CTR-3)
 10-5
 10-86

MILLS, CARROLL B. (T-6)
 20-21
 28-16

MILLS, CARROLL B. (T-DOT)
 10-8

MILLS, RENE S. (MP-2)
 22-26
 22-38

MILLS, ROBERT L. (P-8)
 9-6

MILLS, ROBERT L. (Q-26)
 9-20
 19-12

MINOR, MICHAEL. (***)
 16-14

MINOR, MICHAEL (MP-3)
 5-24

MISCHKE, RICHARD E. (MP-4)
 25-64
 25-104
 25-115
 25-116

MITCHELL, C. KENNETH
 25-87

MITCHELL, KENNETH B. (L-1)
 20-125

MITCHELL, ROBERT N. (H-5)
 17-13
 17-74
 17-78

MITCHELL, ROBERT W. (C-9)
 21-6

MJOLSNES, RAYMOND C. (T-3)
 20-84

MOIR, R. W.
 20-29

MOLLER, PETER (T-9)
 16-2
 16-3
 25-19
 25-52

MONAGHAN, DENNIS A. (ENG-7)
 10-116

MONTGOMERY, MICHAEL D. (P-4)
 1-10
 1-12
 1-13
 1-14
 1-27
 1-29
 1-30
 1-31
 1-32

MOORE, MICHAEL S. (P-11)
 25-56

MOORE, ROGER H. (C-5)
 21-5
 21-51
 21-55

MOORE, STANLEY W. (Q-DOT)
 12-3
 12-6

MOORE, TOM O. (H-5)
 17-52
 17-63
 17-64
 17-68

MORIARTY, JOHN A. (CMB-5)
 4-60

MORRISON, LOUIS J. (P-9)
13-20
25-89

MORSE, RICHARD L. (T-6)
10-98
20-5
20-6
20-7
20-10
20-41
20-54
20-56
20-70
20-104
20-133
20-134
20-135
20-136
20-144

MORSE, RICHARD L. (TD-8)
20-138

MOSKOWITZ, J. W.
4-15

MOSS, CALVIN E. (P-9)
25-50

MOSS, WILLIAM D. (H-5)
5-108

MUELLER, BARBARA A. (CMB-5)
23-11
23-24

MUELLER, HAROLD A.
17-32

MUELLER, MARVIN M. (L-4)
20-44
20-58

MUIR, DOUGLAS W. (T-2)
10-14
10-90
10-91
24-9
25-4
25-10

MULFORD, ROBERT N. R. (CMB-5)
23-11

MULKIN, RAY (CMB-11)
30-55

MULLANEY, PAUL F. (H-10)
5-30
5-36
5-43
5-46
5-63

MULLANEY, PAUL F. (H-4)
5-33

MULLER-KIRSTEN, HARALD J. W.
22-16

MULLINS, LAWRENCE J., JR. (CMB-11)
5-86
7-7
7-8

MULLINS, LAWRENCE J., JR. (CMB-11) COMP.
5-88

MURCRAY, WALLACE B.
1-24

MURDOCH, BRUCE T. (P-8)
25-36

MURDOCH, BRUCE T. (Q-26)
25-9
25-105
25-117
27-5

MURRAY, HUGH S. (E-4)
12-2
12-5

MYCIELSKI, JAN, ED.
21-49

NACHAMKIN, JACK (T-6)
18-3

NACHAMKIN, JACK (T-DOT)
18-11
18-24
21-16

NAGEL, D. J.
3-13

NAGLE, DARRAGH E. (MP-4)
25-64
25-116

NAGLE, DARRAGH E. (MP-DO)
25-39
25-104

NAKANO, G. H.
3-30
3-31

NANCE, ROBERT L. (CMB-11)
7-8

NATHAN, CVE
25-110

NAUMANN, ROBERT A. (CNC-11)
25-81

NEEDHAM, TERENCE E. (CNC-4)
14-1
14-2

NEELY, GLENN W. (H-1)
17-75

NEGELE, JOHN W. (T-5)
25-101

NELSON, ELDRED
24-6

NELSON, GILBERT B. (CMB-1)
17-16
17-26
17-41

NELSON, ROBERT Y.
17-6

NFRESON, NORRIS G. (P-2)
9-12
29-1

NEUDECKER, JOSEPH W. (Q-23)
11-4
11-27
11-31

NEWFIELD, STEPHEN E. (CMB-6)
21-10

NEWMAM, BRIAN E. (L-2)
17-42
20-26
20-116
20-120
20-121

NEWTON, THOMAS W. (CNC-2)
6-8
6-9

NIELSEN, BENT S. (P-2)
25-33

NIELSEN, HANS C. S
1-8
1-9
1-15
1-24

NIELSON, CLAIR W. (CTR-6)
10-43
10-47
10-112

NIETHAMMER, ANNE C. (P-12)
21-12

NIETO, MICHAEL MARTIN (T-5)
3-34
21-29
22-3
25-69
27-7
27-9
27-17

NILSSON, B.
25-44

NILSSON, S. G. (P-DOR)
25-52

NILSSON, SVEN GOSTA
25-19

NISHIDA, A.
1-3

NISLEY, RICHARD A. (T-2)
25-70
25-97

NIX, JAMES R. (T-9)
16-1
16-2
16-3
16-23
16-26
25-19
25-38
25-52
25-91
25-92

NOLAND, BILLIE JEAN (H-9)
5-39

NORRIS, ANDREW E. (CNC-11)
25-63

NOYES, HORACE E. (SP-DO)
13-17
13-18
17-69

NUGENT, L. J.
4-12

O'BRIEN, HAROLD A., JR. (CNC-11)
5-98

OGILVIE, KEITH W.
1-18
3-17
3-18

OHLSSEN, GERALD G. (P-9)
25-65
25-68
25-89
25-95
25-123
27-12

OHLSSEN, GERALD G. (P-DOR)
25-47
25-60
25-85
25-87
25-104

OKINAKA, RICHARD (H-9)
5-2
5-90

OKUDA, H.
10-67

OLINGER, BARTON W. (M-6)
9-13
9-17
23-28

OLIPHANT, THOMAS A., JR. (CTR-7)
10-43
10-81

OLIPHANT, THOMAS A., JR. (Q-7)	OVERTON, WILLIAM C., JR. (Q-26)
10-25	8-22
10-31	9-19
10-39	
10-60	OWENS, JAMES W. (H-5)
10-61	17-34
OLMSTEAD, OLIN K. (C-2)	
21-6	
	PACK, RUSSELL T. (T-6)
OLSEN, CLAYTON E. (CMB-13)	4-34
8-8	4-46
	4-55
OLSEN, CLAYTON E. (CMB-8)	
8-5	PAINÉ, ROBERT T., JR. (CNC-4)
16-4	4-21
25-105	4-58
25-117	7-13
27-5	
	PALMER, IAN D. (P-4)
OLSEN, D. K.	1-4
25-55	1-7
25-109	1-34
	3-36
OLSEN, KENNETH H. (J-15)	
30-16	PARKER, JACK L. (A-1)
	26-6
OLSEN, KENNETH H. (J-9)	26-14
11-20	26-28
OLSON, ROY A. (P-4)	PARKER, JOSEPH R. (MP-1)
3-23	22-1
OOSTENS, JEAN M. (MP-4)	PARTER, SEYMOUR V. (C-6)
22-10	21-52
ORBESEN, STUART D. (P-9)	PARTRIDGE, RALPH E., JR. (J-8) COMP.
22-25	27-14
ORR, HUGH D. (ENG-8)	PATTERSON, CALVIN C. (H-7)
13-13	30-58
ORR, S. ROBERT (TD-2)	PATTERSON, E. L.
21-9	20-2
21-57	20-86
ORTH, CHARLES J. (CNC-11)	PATTERSON, JAMES H. (CMB-1)
25-57	17-16
	17-26
ORTH, H.	17-41
22-29	
	PAVONE, DANIEL (CMB-5)
ORTIZ, LAWRENCE W. (H-5)	23-24
17-1	
17-2	PAXTON, HUGH C. (P-5)
17-76	24-1
	24-2
ORTIZ, M. ROMAYNE (CMB-1)	
2-2	PAYNE, ROBERT J. (H-6)
2-10	5-91
OSTER, GEORGE F.	PEEK, H. MILTON (J-10)
6-1	1-8
6-2	1-9
	1-15
OTT, DONALD G. (H-11)	1-22
5-44	1-24
5-45	1-25
7-16	
7-17	PENNEMAN, ROBERT A. (CNC-4)
7-18	9-15
	PEQUETTE, ELDON C. (J-9)
	21-9

PERELSON, ALAN S. (T-10)
 6-1
 6-2
 PERKINS, F. W.
 10-30
 PERKINS, RICHARD W.
 25-82
 PERRIN, RICHARD E. (CMB-1)
 2-15
 PERRY, DENNIS G. (CNC-11)
 22-33
 PERRY, JOSEPH E., JR. (L-2)
 20-53
 PETERSEN, DONALD F. (H-9)
 5-1
 5-11
 5-21
 5-22
 5-28
 5-68
 5-75
 PETERSON, DEAN E. (CMB-5)
 23-3
 PETERSON, DONALD M. (N-2)
 17-44
 PETERSON, DONALD M. (P-5)
 17-18
 PETERSON, R. J.
 25-111
 PETERSON, ROBERT W. (J-16)
 1-6
 PETSCHKE, ALBERT G. (T-6)
 20-104
 PETTITT, ROLAND A. (Q-22)
 11-9
 PHILLIPS, DONALD D. (J-12)
 25-74
 PHILLIPS, JAMES A. (CTR-2)
 10-45
 PHILLIPS, JAMES A. (CTR-6)
 10-18
 PHILLIPS, JAMES A. (Q-2)
 10-78
 PHILLIPS, JAMES A. (Q-6) COMP.
 10-77
 PHILLIPS, JOHN R. (CMB-1)
 28-3
 PHILLIPS, JOHN R. (Q-25)
 13-14
 PICKER, H. S.
 25-29
 PIMBLEY, GEORGE H. (T-DOT)
 5-82
 5-83
 5-84
 21-42
 PINDZOLA, M. S.
 25-58
 PLASIL, F.
 16-9
 PONGRATZ, MORRIS B.
 1-2
 1-6
 POORE, RAY V. (P-9)
 25-89
 POPHAM, RICHARD A.
 17-21
 17-22
 17-23
 17-24
 POPOLATO, ALPHONSE (WX-3)
 15-7
 POPOLATO, ALPHONSE (WX-3) COMP.
 15-8
 15-9
 15-10
 POST, RICHARD F.
 10-37
 10-38
 POTTER, JAMES M. (MP-4)
 25-64
 25-104
 25-116
 POTTER, ROBERT M. (Q-22)
 11-17
 11-18
 11-28
 PRIMAKOFF, HENRY
 25-69
 PRINE, JAMES R. (H-4)
 5-23
 5-58
 5-64
 5-101
 PRITCHARD, JOHN A. (H-5)
 17-62
 17-63
 17-64
 PRUEITT, MELVIN L. (TD-4)
 21-1
 PURTYMUN, WILLIAM D. (H-8)
 11-1
 11-9
 11-34
 17-15
 17-72
 30-29

QUINN, WARREN E. (CTR-3)
 10-11
 10-71
 10-72
 10-100

QUINN, WARREN E. (Q-3)
 10-80

RABIDEAU, SHERMAN W. (CNC-2)
 20-15

RABIDEAU, SHERMAN W. (CNC-3)
 20-129

RADOSEVICH, CHARLES L. (CMB-3)
 11-2

RADZIEMSKI, LEON J., JR. (CMB-1)
 3-14
 3-15
 4-10
 4-59

RAFF, LIONEL M. (CNC-4)
 6-4
 6-6
 6-16
 6-19

RAGAN, CHARLES E. (P-3)
 4-9

RAJU, MUDUNDI R. (H-10)
 5-76
 5-87
 5-99

RAJU, MUDUNDI R. (H-4)
 5-33

RAMAN, S.
 25-72

RAMSAY, JOHN B. (M-3)
 21-51

RANKEN, WILLIAM A. (N-5)
 28-18
 28-20

RANKEN, WILLIAM A. (Q-25)
 13-14
 30-8

RAPAPORT, ELLIOT
 30-18

RATLIFF, ROBERT L. (H-9)
 5-12
 5-40
 5-89

REAGAN, J. B.
 3-30
 3-31

REARWIN, STEPHEN
 1-21

REDMAN, HELEN F. (***)
 30-1

REDWINE, ROBERT P. (MP-4)
 22-59

REED, CLYDE H. (L-2)
 20-53

REED, WILLIAM H. (T-1)
 21-58

REEDY, ROBERT C. (CNC-11)
 1-16
 3-8
 3-16

RECHTELT, WALTER H. (L-1)
 20-20
 20-27
 20-47
 20-100
 20-141
 20-147
 27-10

REID, R. C.
 9-8

REIDER, ROY (H-3)
 17-10
 17-11
 17-33
 17-46
 30-17

REILLY, T. DOUGLAS (A-1)
 26-6
 26-10
 26-12
 26-14
 26-28

REIN, JAMES E. (CMB-1)
 2-2
 2-10
 2-14
 26-5

REINES, FREDERICK (T-2)
 30-50

REINHARDT, G. C.
 30-56

REINSCHREIBER, JAMES E., JR. (CMR-1)
 2-12

REISWIG, ROBERT D. (CMB-13)
 23-19

REISWIG, ROBERT D. (CMB-8)
 23-26
 23-27

REMUND, ROBERT N. (T-6)
 20-104
 20-144

REVOIR, WILLIAM H. (H-5)
 17-52
 17-62

RIBE, FRED L. (CTR-DO)

10-11
10-37
10-72

RIBE, FRED L. (P-CTR)

10-65

RIBE, FRED L. (P-DO)

10-98

RIBE, FRED L. (Q-DO)

10-19
10-20
10-25
10-38
10-69
10-70
10-80
10-101

RICE, WALTER W. (L-3)

20-80
20-82

RICH, MARVIN (T-9)

25-93

RICHARDS, CHARLES P. (H-5)

17-52
17-62
17-63
17-64
17-68

RICHMOND, CHESTER R. (***)

5-97

RICHMOND, CHESTER R. (H-DO)

5-10
5-52
5-64
17-25
17-65

RICHMOND, CHESTER R. (H-DO) COMP.

5-3

RICHTER, BERNT

25-43

RIEGER, E. R.

1-15

RIEPE, KENNETH B. (L-1)

20-37
20-38

RILEY, P. J.

25-55
25-109

RILEY, ROBERT E. (CMB-6)

23-32

RINK, JOHN P. (L-1)

20-37

RINKER, GEORGE A., JR. (P-DOR)

22-9
25-121

RISTINEN, R. A.

25-111

RIVARD, WILLIAM C. (T-3)

18-13
18-28

ROBBA, ARNOLD A. (A-2)

22-34

ROBBINS, DONALD E.

1-11

ROBERTSON, RICHARD H. (L-2)

20-53

ROCHE, CHARLES T.

16-14

ROCKMORE, RONALD M. (T-9)

22-23

ROCKWOOD, STEPHEN D. (T-6)

4-29
20-15
20-23
20-36
20-39
20-41
20-101
20-105
20-129
25-40

ROEDERER, JUAN G. (P-4)

1-20

ROEGIERS, JEAN-CLAUDE (Q-26)

11-11
11-15

ROEHLING, DUANE J. (L-1)

20-11

ROFER-DE POORTER, CHERYL K. (L-5)

20-71

ROGERS, BENJAMIN T. (GMX-11)

15-4

ROGERS, JOHN D., JR. (CTR-9)

10-55

ROGERS, JOHN D., JR. (Q-26)

8-6
10-66

ROGERS, RAYMOND N. (WX-2)

6-5

ROHR, DANA D. (CMB-5)

23-11

ROHWER, ROBERT K. (WX-2)

7-18

ROMERO, ANGELA (H-10)

5-28
5-33
5-48
5-50
5-74
5-87

ROMICK, GERALD J.

1-22

ROOF, RAYMOND BRADLEY, JR. (CMB-5) 9-7	SAMPSON, THOMAS E. (A-2) 25-77 26-26 26-27
ROSBACH, FRANK J. (C-2) 21-6	SANDENAW, THOMAS A. (CMB-13) 23-6
ROSENBLUM, STEPHEN S. (***) 29-3	SANDENAW, THOMAS A. (CMB-8) 23-13
ROSENBLUM, STEPHEN S. (Q-26) 25-117	SANDERS, PHYLLIS C. (H-9) 5-21 5-22 5-75
ROSENBLUTH, MARSHALL N. 4-52	SANDERS, WILLIAM MORT (J-12) 25-74
ROSENBLUTH, MARSHALL N. (T-6) 20-10	SANDMEIER, HENRY A. (TD-6) 25-30
ROSENZWEIG, ABRAHAM (CNC-4) 9-15	SANDOVAL, EUGENE M. (M-2) 2-17
ROTA, GIAN-CARLO (C-DO) 21-50	SANDOVAL, ROBERT R. (ADWP-2) 30-61
ROTA, GIAN-CARLO (C-DO) ED. 21-49	SANDSTEOM, DONALD J. (CMB-6) 23-17
ROUSH, ROBERT E. (DIR OFF) 30-28	SAPONARA, ARTHUR G. (H-4) 5-59
ROWLEY, JOHN C. (Q-23) 11-26	SATTIZAHN, JAMES E., JR. (J-11) 30-46 30-47
ROWLEY, JOHN C. (Q-DO) 11-16 11-27	SAUER, PETER U. (T-5) 25-101
RUH, ROBERT 23-16	SAUNDERS, GEORGE C. (H-6) 5-31 5-100 5-104
RUPERT, GEORGE N. (CMB-3) 19-1	SAUPE, ALFRED 25-39
RUSSELL, ALAN M. (CMB-5) 29-2	SAWYER, GEORGE A. (CTR-DO) 10-11 10-72
RUSSELL, GARY J. (P-11) 22-31 22-33 27-4	SAWYER, GEORGE A. (Q-3) 10-73
RYAN, ROBERT R. (CNC-4) 9-2 9-3 9-15	SCHAPPERT, GOTTFRIED T. (L-1) 20-100 20-141 20-142
RYAN, V. A. 22-33	SHELL, DONALD H. (CMB-6) 23-20
SALGADO, PETER G. (WX-3) 15-7	SCHIAGER, KEITH J. (H-8) 17-35
SALZMAN, GARY C. (H-10) 5-43 5-63 5-93 25-60 25-85 25-89	SCHIAGER, KEITH J. (H-8) COMP. 17-19
SALZMAN, GARY C. (P-DOR) 25-87	SCHILLACI, MARIO E. (MP-3) 5-34

SCHILLACI, MARIO E. (MP-3) ED.
22-43

SCHILLING, FREDERICK P. (ENG-6)
10-7

SCHNEIDER, BARRY (T-6)
4-2
4-17
4-22
4-23
4-26
4-41
4-54

SCHOFIELD, ALDRED E. (CTR-2)
10-45

SCHOTT, GARRY L. (L-3)
6-17

SCHRANDT, ROBERT G. (TD-6)
21-31

SCHREIBER, RAEMER E. (DIR OFI)
30-2

SCHUCH, ADAM F. (P-8)
9-6

SCHUCH, ADAM F. (Q-26)
8-22
9-19
9-20

SCHULTE, HARRY F. (H-5)
17-39

SCOTT, C. KEITH
25-69
27-7
27-17

SCOTT, THEA
5-79

SCUDDER, J. D.
1-18
3-17
3-18

SEABORG, GLENN T.
25-63

SEAGRAVE, JOHN D. (P-DOR)
5-103
25-42

SEAMON, ROBERT E. (TD-6)
25-30
25-46
25-84

SEEGER, PHILIP A. (P-11)
22-33
25-73
25-113
27-4

SEIBEL, FREDERICK T. (CTR-8)
10-9
10-107

SEIBEL, FREDERICK T. (P-3)
16-4

SEITZ, WENDELL LEE (WX-7)
20-124

SEITZ, WILLIAM A. (GMX-7)
6-17

SEKI, RYOICHI (MP-3)
22-2
25-35
25-54

SEMPER, R. J.
25-41

SGRO, ANTHONY G. (CTR-6)
10-43

SGRO, ANTHONY G. (TD-1)
3-2

SHANAHAN, WILLIAM R. (T-6)
20-107

SHANNON, JOHN
20-3
20-4
20-34
20-35

SHAPIRO, STANLEY L. (L-2)
20-45
20-109
20-116
20-117
20-118
20-120
20-121
20-130
20-143

SHEINBERG, HASKELL (CMB-6)
23-1
23-32

SHEPARD, H. K.
25-5

SHEPHERD, GEORGE R. (H-9)
5-39

SHERMAN, JOSEPH (P-9)
22-25
25-55
25-79
25-80
25-109
25-111

SHERMAN, MAX A. (CMB-13)
22-32

SHERMAN, MAX A. (CMB-8)
23-12

SHERMAN, ROBERT H. (P-8)
8-10

SHERMAN, ROBERT H. (Q-26)
25-42

SHERREN, D. C.
13-16

SHERWOOD, ARTHUR R. (CTR-5)
10-54

SHERWOOD, ARTHUR R. (Q-5)
10-10
10-40
10-41

SHIPLEY, JAMES N., JR. (E-4)
18-25

SHIPLEY, JAMES P., JR. (E-DOR)
12-2

SHLAER, SALLY (MP-1)
5-13
5-24
21-30

SHLAER, WILLIAM J. (MP-3)
22-10

SHOHET, JUDA LEON
20-94

SHOOP, JON D.
5-44
5-45

SHREEVE, WALTON W.
5-44
5-45

SHREFFLER, ROBERT G. (DOS-1)
30-28
30-61

SHUNK, EDWARD R. (P-3)
22-34

SIEMON, RICHARD E. (CTR-8)
10-3
10-72
10-107
10-109

SIEMON, RICHARD E. (Q-3)
10-73
19-20
19-21

SIERK, ARNOLD J. (T-9)
25-38
25-91

SILBAR, RICHARD R. (T-5)
22-27
22-42

SILBERT, MYRON G. (P-3)
25-48

SIMMONS, JAMES E. (P-DOR)
8-30
22-12
25-6
25-60
25-76
25-86

SIMMONS, LEONARD M. (T-DO)
25-5

SIMMONS, MARGARET L. (CMB-8)
22-31

SIMMONS, MARGARET L. (T-1)
22-33

SIMONS, DAVID J.
1-2

SINGER, PAUL
22-14

SINGER, SIDNEY (L-1)
1-28
20-9
20-97

SINGER, SIDNEY (P-4)
1-4

SISCOE, G. L.
3-17
3-18

SITNEY, LAWRENCE R. (N-1)
30-57

SKOBERNE, FREDERICK (L-DO) COMP.
20-111
20-112

SKOBERNE, FREDERICK (N-DO) COMP.
30-41
30-44
30-45
30-51
30-52
30-53
30-54

SLATER, D.
25-108

SLAUGHTER, G. G.
25-72

SLOCOMB, CHARLES A. (C-DO)
27-15

SMITH, DARRYL B. (A-1)
26-7
26-15

SMITH, DAVID A. (H-9)
5-12
5-49
5-55
5-56
5-57
5-89

SMITH, JAMES L. (CMB-5)
23-9

SMITH, MAYNARD E. (CMB-1)
2-11

SMITH, MORTON C. (Q-22)
11-10
11-12
11-23

SMITH, TEMPLE F. 5-73	SPENCER, JAMES E. (MP-10) 22-39
SMITH, W. JOHN (H-8) 17-49	SPRINGER, KLAUS (MP-DO) 22-20
SMITH, W. JOHN (H-DO) 17-8 17-50	SPRINGER, THOMAS E. (E-4) 12-2
SNOW, EDWARD C. (CMB-5) 4-20 17-67 17-70	SPRINGER, THOMAS E. (N-4) 30-12
SNYDER, D. A. 21-17	STAFFORD, RONALD G. (H-1) 17-13 17-78
SNYDER, LEWIS E. 3-5 3-12	STAFFORD, RONALD G. (H-5) 17-61
SOBOTKA, STANLEY (MP-10) 19-4 19-5	STAMBAUGH, R. D. 22-29
SOBOTKA, STANLEY (MP-DO) 22-10	STANTON, ALAN C. (Q-23) 11-14
SOGA, M. 25-45	STAPLETON, ROBERT E. (L-1) 20-37 20-38 20-52 20-88
SOLEM, JOHNDALE C. (TD-1) 25-37	STARK, EUGENE E. (L-1) 20-20 20-27 20-47 20-100 20-141 20-142 20-147
SOLOMON, A. 25-45	STARK, WALTER A., JR. (CMB-3) 11-2
SOLOMONS, CLIVE C. 5-85	STARKOVICH, VICTOR S. (WX-6) 19-6
SOPKA, JOHN R. (C-4) 21-35	STARNER, JOHN W. (P-2) 25-33
SORAN, PATRICK D. (T-1) 10-4 21-22 25-17 25-59	STEIN, LELAND R. (T-2) 18-20
SORAN, PATRICK D. (T-2) 10-14 24-10	STEIN, LELAND R. (T-3) 18-18 18-26
SORENSEN, L. 25-64 25-104 25-116	STEIN, MYRON L. (C-7) 5-73
SOUDER, P. 22-29	STEIN, NELSON (P-9) 22-25 25-55 25-79 25-80 25-109 25-111
SPALDING, JOHN F. (H-4) 5-23 5-35 5-62 5-101	STEIN, PATRICIA C. (H-5) 17-45
SPEIR, LESLIE G. (A-1) 26-6 26-8 26-23	STEIN, PAUL R. (T-7) 21-23

STEIN, WILLIAM E. (P-DOR)
13-19

STEINKAMP, JOHN A. (H-10)
5-8
5-28
5-47
5-50
5-74
5-93

STEINKAMP, JOHN A. (H-4)
5-33

STEPHANI, EVON L. (WX-6)
19-6

STEPHENS, MELVIN M. (A-1)
19-10

STEPHENSON, GERARD J., JR.
22-17

STEPHENSON, GERARD J., JR. (***)
25-29

STERNHAGEN, C. J.
3-87

STERNHEIM, MORTON M.
22-27

STERNHEIM, MORTON M. (MP-DO)
22-42

STEVENS, J.
19-22

STEVENS, RALPH R., JR. (MP-9)
25-104

STEWART, JOHN N., JR. (J-15)
3-27

STEWART, JOHN N., JR. (J-9)
11-20
18-4

STEWART, MICHAEL W.
5-108

STEYERT, WILLIAM A., JR. (Q-26)
8-3
8-21
25-9
25-105
25-117
27-5

STODDARD, STEPHEN D. (CMB-6)
5-86
23-30

STOKES, RICHARD H. (P-12)
16-9
19-15

STORM, ELLERY (H-1)
19-19

STRATTON, THOMAS F. (L-1)
20-20
20-47
20-52
20-100
20-110

STRATTON, WILLIAM R. (N-2)
17-44

STRATTON, WILLIAM R. (P-5)
17-18

STRAUB, GALEN K. (TD-4)
23-22
23-23
23-35
23-37

STRIMBECK, D. C.
13-16

STRNISTE, GARY F. (H-9)
5-55

STRONG, IAN B. (P-4)
3-4
3-7
3-9
3-20
3-23
3-29
3-30
3-31

STRONG, IAN B. (P-4), COMP.
3-35

STRUEBING, VERNON O. (CMB-5)
8-24
23-18

STUDEBAKER, JAN K. (MP-3)
22-15

STUTZ, ROGER A. (ENG-8)
13-13

SULLIVAN, ELIZABETH M. (H-DO) COMP.
5-3

SULLIVAN, JOHN H. (CNC-4)
6-7

SUNIER, JULES W. (P-9)
25-89

SUTPHIN, HOWARD D. (L-4)
20-48

SUYDAM, BERGEN R. (T-6)
20-118

SUYDAM, BERGEN R. (T-7)
20-24
20-77
20-119

SUZUKAWA, HENRY H., JR. (CNC-4)
6-19

SWANNACK, CLARKE E. (CTR-9)
10-55

SWANSEN, JAMES E. (A-1)
19-10

SWANSON, BASIL I. (CNC-4)
4-45
4-56
9-2
9-3

SWANSON, GERALD C. (CMB-1)
2-14

SWARTZ, BLAIR K. (C-6)
21-8
21-43
21-44

SWARTZ, BLAIR K. (T-7)
21-11

SWICKARD, EARL O., JR. (L-1)
20-52

SYDORIAK, STEPHEN G. (P-8)
8-16

SYMON, KEITH R.
10-93
10-94

SZKLARZ, EUGENE G. (CMB-3)
8-8
23-7
23-9
23-25

TABOR, JAMES E. (J-15)
3-1
3-21

TAGGART, KEITH A. (T-6)
20-144

TALLEY, GEORGE M. (H-5)
17-4

TALLMAN, CHARLES R. (N-4)
19-9

TANNER, ROBERT L. (L-2)
20-51
20-85

TAUB, JAMES M. (CMB-6)
23-20
23-32
23-38

TAYLOR, JAMES F. (Q-26)
8-23

TAYLOR, R. DEAN (P-8)
8-8

TAYLOR, R. DEAN (Q-26)
8-4
8-5
8-31
8-32
9-10

TAYLOR, R. DEAN (Q-26) COMP.
8-25
8-26
8-27

TAYLOR, ROGER W. (GMX-11)
15-4

TAYLOR, WILLIAM M. (TD-6)
21-31

TERRELL, JAMES (L-2)
16-15
20-53
20-116

TERRELL, JAMES (P-DOR)
3-25

TESTER, JEFFERSON W. (CMB-13)
9-8

TESTER, JEFFERSON W. (CMB-8)
9-14

TESTER, JEFFERSON W. (Q-22)
11-24

THIESSEN, HENRY A. (MP-10)
19-5
22-54

THIESSEN, HENRY A. (MP-7)
19-4
22-56

THODE, LESTER E. (T-6)
20-22
20-78
20-79
20-106
20-146

THOMAS, KEITH S. (CTR-7)
10-28

THOMAS, KEITH S. (Q-7)
10-58
10-73
10-88

THOMAS, ROBERT G. (H-4)
5-114

THOMASSEN, KEITH I. (***)
30-13

THOMASSEN, KEITH I. (CTR-7)
10-55
10-81
10-84
10-103

THOMASSEN, KEITH I. (CTR-DO)
10-106

THOMASSEN, KEITH I. (P-15)
10-83

THOMASSEN, KEITH I. (Q-7)
10-25
10-31
10-46

THOMPSON, BYRON E. (T-3) 18-18	TRUJILLO, THEODORE T. (H-10) 5-87
THOMPSON, DONALD L. (CNC-4) 6-3 6-10 6-11 6-19	TRUJILLO, THEODORE T. (H-4) 5-33
THOMPSON, PATRICK A. (MP-10) 22-29	TRUSSELL, HENRY J. (C-5) 21-18
THOMPSON, RICHARD H. (T-5) 25-22	TUBIS, ARNOLD 25-62 25-119 25-120
THOMPSON, WILLIAM L. (TD-6) 21-31	TUCKER, ALLEN B. (CNC-11) 25-57
THOMSON, DAVID B. (P-3) 10-63 10-115 10-116	TURNER, G. DAVID (TD-6) 21-31
THORNE, JAMES M. (L-4) 20-57	TURNER, ROBERT D. (Q-26) 8-29
TIETJEN, GARY L. (C-5) 5-35 21-20 21-36 21-51	ULAM, STANISLAW M. 5-73
TILLERY, MARVIN I. (H-5) 17-1 17-3 17-7 17-37 19-2	ULAM, STANISLAW M. (DIR OFF) 30-50
TINKLE, MARVIN C. (CMB-8) 23-30	ULAM, STANISLAW M. (RASU) 21-49
TOBEY, ROBERT A. (H-9) 5-14 5-15 5-16 5-37 5-39 5-40 5-70 5-79 5-105 17-4	UMBARGER, C. JOHN (A-1) 5-29 5-42 26-12 26-16 26-24 26-25 30-55
TODD, PAUL (H-10) 5-65	VALENTINE, ALLEN M. (H-1) 17-12
TRAVIS, JOHN R. (CMB-5) 17-28	VALLARIO, EDWARD J. 17-77
TRELA, WALTER J. (Q-26) 8-4 13-10	VAN DER LAAN, PIETER C. T. 10-44
TROMBKA, JACOB I. 1-16 3-8	VANDER SLUIS, K. L. 4-12
TRUHLAR, DONALD G. (CNC-4) 6-12	VANDERBORGH, NICHOLAS E. 28-3
TRUJILLO, PATRICIO E., JR. (H-5) 17-45	VEESER, LYNN R. (P-3) 16-29 22-34
	VENABLE, DOUGLAS (GMX-11) 15-4
	VENABLE, DOUGLAS (M-DO) 18-27
	VERGAMINI, PHILLIP J. (CNC-4) 7-19

VIGIL, JOHN C. (T-1)
28-6

VIGIL, JOHN C. (T-1) COMP.
21-39
21-40
21-41

VIOLA, VICTOR E., JR.
16-14

VISSCHER, WILLIAM M. (T-9)
27-3
27-11
27-18

VON EINSIEDEL, H.
29-3

VONDRA, R. J.
30-13

VORREITER, J. W.
13-15

WACHHOLZ, BRUCE W.
5-97

WADA, J.
20-59

WADLINGER, E. ALAN (MP-DO)
19-14

WAGNER, GENEVIEVE F. (J-11)
30-46
30-47

WAGONER, ROBERT V.
3-22

WALKER, ALAN C.
26-8

WALKER, T. E.
14-1
14-2

WALLACE, TERRY C. (CMB-3)
11-2
23-26
23-27

WALLACE, W. E.
29-1

WALTERS, EDWARD A.
7-3

WALTERS, KENNETH L. (CMB-11)
23-10

WALTERS, RONALD A. (H-4)
5-33

WALTERS, RONALD A. (H-9)
5-16
5-37
5-38
5-39
5-40
5-70
5-105
5-109

WALTON, RODDY B. (A-1)
26-6
26-11
26-14
26-16

WARREN, JOHN L. (DIR OFF)
9-9

WARREN, JOHN L. (P-2)
29-4

WATERBURY, GLENN R. (CMB-1)
2-3
2-11
2-14
2-16
26-5
28-3

WATERBURY, GLENN R. (CMB-1) COMP.
2-1

WATERMAN, MICHAEL S.
21-19

WATSON, CLAYTON W. (ADWP-2)
17-29

WATT, BOB E. (L-2)
20-53
20-83

WEBER, JOSEF (CNC-11)
16-21
16-24

WEERTMAN, JOHANNES (CMB-8)
10-74
23-14
23-36

WEIHOFEN, WILLIAM H. (T-9)
22-28
25-107

WEINBRECHT, JOHN F. (L-1)
20-38

WEINSTOCK, H.
8-22

WEISBIN, CHARLES R. (T-2)
24-10
25-84

WEISS, PAUL B. (L-1)
20-125

WEITZNER, HAROLD (CTR-6)
10-96

WELDON, DAVID M. (CTR-7)
8-20

WELDON, DAVID M. (CTR-9)
10-55

WELDON, DAVID M. (Q-3)
8-6

WELDON, DAVID M. (Q-7)
10-66

WELLS, J. C., JR.
25-72

WELLS, MICHAEL B.
1-19

WENDROFF, BURTON (C-6)
21-8
21-43
21-44

WENZEL, ROBERT G. (L-3)
20-75
20-140

WESCOTT, EUGENE M.
1-8
1-9
1-15
1-22
1-24

WEST, FRANCIS G. (Q-22)
11-9
30-29

WEST, WILLIAM T. (H-10)
5-36

WEWERKA, EUGENE M. (***)
7-3

WEWERKA, EUGENE M. (WX-2)
23-19

WHALEY, THOMAS W. (H-11)
7-16
7-17
7-18

WHEAT, LLOYD D. (H-5)
17-62
17-64

WHEELER, MERLIN L. (H-8)
30-55

WHITE, GEORGE N. (TD-DO)
18-31

WHITE, JOHN MICHAEL (CNC-4)
6-11

WHITE, RALPH W. (CMB-3)
8-34

WHITE, RALPH W. (CMB-8)
8-24
23-7
23-25

WHITFILL, JIM A. (J-15)
21-46

WHITTED, EDWARD I. (A-1)
26-11

WHITTLESEY, THOMAS H. (A-2)
19-23
26-27

WIENKE, BRUCE R. (T-1)
9-12
18-29
18-30
22-4
22-21
22-44

WIENKE, BRUCE R. (T-5)
22-41

WILDER, MARK E.
5-31

WILETS, LAWRENCE
25-121

WILEY, RICHARD A. (C-4)
21-6

WILHELMY, JERRY B. (CNC-11)
16-21
16-24
16-29

WILLIAMS, CURTIS A.
5-95

WILLIAMS, D. LLOYD (H-4)
30-19
30-20

WILLIAMS, E. A.
20-102

WILLIAMS, JAMES M. (L-5)
10-7
10-53
20-40
20-66
20-67
20-69
30-5

WILLIAMS, JAMES M. (L-5) COMP.
20-68

WILLIAMS, JOEL M. (CMB-8)
23-26
23-27
30-10

WILLIAMS, ROBERT A. (CNC-11)
7-15

WILLIAMSON, KENNETH D., JR. (Q-26)
8-23
8-30
17-11

WILSON, JULIE S. (H-4)
5-10
5-58

WILSON, MAHLON T. (MP-7)
13-9

WILSON, ROBERT R. 25-16	YOUNG, PHILLIP G., JR. (T-2) 25-8 25-70 25-84 25-97 25-98 25-102
WINBURN, DUANE C. (E-2) 17-66	
WITTE, KATHLEEN H. (C-3) 25-70 25-96	
WITTEMAN, WILLARD G. (CMB-3) 11-2	ZACHARIASEN, WILLIAM H. (CMB-5) 9-16
WOLCOTT, JOHN H. (J-16) 1-2 1-6	ZELTMANN, ALFRED H. (CNC-2) 14-3 14-4 14-5
WOLFSEBERG, KURT (CNC-11) 16-7 16-16 16-18 16-20 25-18 25-73	ZERWEKH, AL (CMB-1) 2-15 30-55
WOOD, GERRY O. (H-5) 17-51 17-56	ZIENKIEWICZ, O. C. 15-5 15 11
WOOD, JOHN H. (CMB-5) 4-14 4-15 4-20 4-37	ZIMMERMANN, EUGENE L. (CTR-3) 10-82
WOODS, RICHARD (P-9) 22-25 27-8	ZOCHER, ROY W. (CMB-11) 23-8 23-29
WORLTON, THOMAS G. 9-9	ZU PUTLITZ, G. 22-29
WORTH, GARY M. (A-2) 16-27 19-11 19-17 26-26 26-27	ZUKAS, EUGENE G. (CMB-8) 23-1 23-15 23-34
WRIGHT, DONALD 1-25	
WYMAN, MARVIN E. 24-9	
YARNELL, JOHN L. (P-2) 9-6	
YEATES, C. M. 3-17	
YESKE, RONALD A. (CMB-8) 10-57 23-34	
YORK, THOMAS M. 10-26	
YOUNG, FREDERICK (L-4) 3-6	

NUMERICAL INDEX

AFWL-TR-74-146	20-95	LAMS-108	17-22	LA-4898-MS	30-54
ANL-8019	10-20	LAMS-119	17-21	LA-4905-MS	23-32
CONF-721006	17-44	LA-402	24-8	LA-4942	4-25
CONF-721111	8-6	LAMS-417	25-16	LA-5137	25-36
CONF-721111	10-34	LA-443	23-2	LA-5211-MS	11-30
CONF-721111	10-65	LA-456	24-5	LA-5220-M	13-11
CONF-721111	10-83	LA-626	17-30	LA-5267-M	17-4
CONF-721111	10-87	LAMS-909	30-27	LA-5305-MS, SUPPL. 1	17-66
CONF-721111	10-98	LA-1151	5-32	LA-5317	26-7
CONF-721111	20-69	LA-1354	2-12	LA-5336	10-20
CONF-721111	22-32	LA-1474	7-11	LA-5364	3-37
CONF-721111	24-3	LA-1483	25-118	LA-5378	18-10
CONF-721111	24-9	LA-1515	28-1	LA-5482-PR	20-113
CONF-730849	5-98	LA-1568	15-2	LA-5408-MS	21-27
CONF-730849	5-115	LA-1899	23-31	LA-5409	6-7
CONF-730849	22-5	LAMS-1915	15-1	LA-5429	2-6
CONF-730849	22-6	LA-2051	30-24	LA-5442-MS	23-39
CONF-730849	22-43	LAMS-2186	30-50	LA-5452	20-82
CONF-730849	26-9	LA-2267	30-57	LA-5454	2-8
CONF-740402-P1	10-6	LAMS-2399	8-17	LA-5466-MS	10-115
CONF-740402-P1	10-7	LA-2459	30-49	LA-5473-MS	21-32
CONF-740402-P1	10-22	LA-2466	30-19	LA-5474-P, SUPPL.	10-100
CONF-740402-P1	10-25	LA-2437	30-20	LA-5476	10-40
CONF-740402-P1	10-35	LAMS-2547	30-3	LA-5479	18-28
CONF-740402-P1	10-39	LA-2548	30-25	LA-5481-MS	18-3
CONF-740402-P1	10-53	LA-2590	30-6	LA-5482-PR	17-9
CONF-740402-P1	20-73	LA-2685	30-12	LA-5483-MS	17-54
CONF-740402-P1	22-33	LAMS-2852	30-37	LA-5484-PR	17-56
CONF-740402-P1	25-53	LA-2897	30-47	LA-5485-M	26-28
CONF-740402-P2	10-13	LAMS-2905	30-36	LA-5486-MS	28-19
CONF-740402-P2	10-14	LAMS-2919	30-16	LA-5487-T	3-6
CONF-740402-P2	10-90	LA-2922	30-46	LA-5488	17-68
CONF-740402-P2	10-111	LAMS-2966,		LA-5489	2-11
CONF-740402-P2	20-110	SUPPLEMENT	30-18	LA-5490	2-16
CONF-740402-P2	20-122	LA-3142-MS	30-58	LA-5491-MS	19-8
CONF-740402-P2	23-34	LA-3237-MS	28-20	LA-5496-MS	20-120
CONF-740901-P1	13-3	LA-3329-MS	30-15	LA-5497	2-3
CONF-740901-P1	13-7	LA-3350-MS	30-9	LA-5498-MS	26-1
CONF-741032	7-6	LA-3351	30-17	LA-5499-MS	10-85
CONF-741032	28-7	LA-3462-MS	28-18	LA-5502-MS	11-14
CONF-741032	28-8	LA-3666-MS	28-15	LA-5503	22-57
IAEA-SM-167/52	17-77	LA-3709-MS	28-14	LA-5504-MS	25-71
IAEA-SM-167/62	19-7	LA-4040-MS	30-43	LA-5505-C	3-35
IAEA-SM-174/100	16-27	LA-4068-MS	30-40	LA-5506-PR	5-88
IAEA-SM-174/12	16-23	LA-4089-MS	30-39	LA-5508-MS	13-4
IAEA-SM-174/201	16-8	LA-4232-MS	30-42	LA-5511-MS	21-30
IAEA-SM-174/202	16-3	LA-4319	28-21	LA-5512-PR	30-33
IAEA-SM-174/27	16-10	LA-4328	30-38	LA-5514-PR	17-59
IAEA-SM-174/46	16-11	LA-4375-MS	30-52	LA-5515-MS	6-13
IAEA-SM-174/56	16-5	LA-4447-MS	30-41	LA-5516-MS	15-7
IAEA-SM-174/59	16-9	LA-4471-MS	20-89	LA-5517-MS	11-4
IAEA-SM-174/60	16-1	LA-4541-MS	30-26	LA-5518-PR	22-51
IAEA-SM-174/65	16-4	LA-4552-MS	30-44	LA-5519-MS	21-24
IAEA-SM-174/74	25-38	LA-4625-MS	30-53	LA-5520-MS	17-61
IAEA-SM-174/77	16-29	LA-4686-MS, SUPPL.	17-69	LA-5521-PR	15-8
IAEA-SM-174/85	16-14	LA-4690-MS	30-51	LA-5523-MS	19-14
LA-53	24-6	LA-4798-MS	24-1	LA-5524	23-11
LAMS-79	17-23	LA-4844-MS	30-45	LA-5526-MS	13-17
LAMS-99	17-24	LA-4855	25-46	LA-5527-MS	13-15

LA-5529-MS	22-58	LA-5616-PR	15-9	LA-5720-MS	27-14
LA-5530-SR	10-77	LA-5617-MS	19-4	LA-5721-MS	23-13
LA-5531	21-16	LA-5618-MS	22-54	LA-5722-MS	5-35
LA-5532-MS	20-105	LA-5619-MS, REV.	20-19	LA-5723-MS	21-48
LA-5535-C	5-98	LA-5620-PR	17-64	LA-5724-MS	5-101
LA-5535-C	5-115	LA-5621-MS	21-38	LA-5725-MS	11-1
LA-5535-C	22-5	LA-5622-MS	23-29	LA-5726-PR	17-49
LA-5535-C	22-6	LA-5623-PR	21-40	LA-5727-PR	25-11
LA-5535-C	22-43	LA-5624	17-16	LA-5728	2-2
LA-5535-C	26-9	LA-5625-PR	17-58	LA-5729-MS	25-103
LA-5538	10-33	LA-5626-MS	11-17	LA-5730-MS	23-1
LA-5539	2-5	LA-5627	2-14	LA-5731-PR	7-9
LA-5540-MS	11-29	LA-5628-PR	30-10	LA-5732-MS	25-2
LA-5542-PR	20-112	LA-5629-MS	25-59	LA-5734-SR	5-103
LA-5544-PR	17-38	LA-5630-MS	20-71	LA-5735-MS	21-6
LA-5546-PR	25-14	LA-5631-MS	8-20	LA-5739-PR	20-111
LA-5547-MS	18-11	LA-5632-MS	30-5	LA-5741-PR	23-26
LA-5548-MS	18-9	LA-5633-PR	5-3	LA-5742-MS	21-57
LA-5552	25-74	LA-5634-PR	17-51	LA-5743-MS	20-54
LA-5553-MS	16-7	LA-5635-MS	10-102	LA-5744	17-72
LA-5555-PR	17-2	LA-5636-MS	11-34	LA-5745-MS	21-22
LA-5556-PR	5-104	LA-5637-T	4-13	LA-5746-MS	5-77
LA-5557-PR	26-22	LA-5638-MS	15-6	LA-5747-MS	7-2
LA-5558	30-2	LA-5639-MS	20-90	LA-5748-MS	10-55
LA-5559	17-17	LA-5640-MS	10-64	LA-5749-MS	22-15
LA-5560	21-21	LA-5641-MS	20-12	LA-5750	25-113
LA-5562-MS	20-39	LA-5644-MS	25-17	LA-5751-PR	5-91
LA-5563	25-67	LA-5645	17-20	LA-5754-MS	30-28
LA-5564	2-18	LA-5647-MS	30-48	LA-5756-MS	2-13
LA-5565-MS	5-6	LA-5648-MS	22-20	LA-5758-PR	17-52
LA-5566-MS	22-22	LA-5649	22-38	LA-5759-PR	25-8
LA-5567-PR	23-27	LA-5651-M	26-10	LA-5760	24-7
LA-5568	2-10	LA-5652-M	26-23	LA-5761-SR	20-129
LA-5570-PR	25-15	LA-5653-MS	7-5	LA-5762-PR	30-32
LA-5571-MS	28-2	LA-5654	17-34	LA-5766-MS	13-1
LA-5572-MS	19-6	LA-5655-PR	25-12	LA-5768-MS	28-6
LA-5573-MS	11-5	LA-5656-PR	10-79	LA-5770-PR	22-50
LA-5574-PR	17-53	LA-5659	6-15	LA-5771-PR	26-21
LA-5575-MS	18-31	LA-5662-MS	25-48	LA-5772-MS	21-56
LA-5576-PR	17-60	LA-5664-MS	10-74	LA-5773-MS	19-10
LA-5577-PR	21-41	LA-5665-MS	23-15	LA-5774-MS	21-23
LA-5579-PR	17-50	LA-5666-PR	30-35	LA-5775-T	25-36
LA-5580-PR	22-49	LA-5667-MS	30-60	LA-5777-MS	30-31
LA-5581-PR	8-27	LA-5672	2-15	LA-5778-PR	28-13
LA-5582-PR	28-11	LA-5673-MS	10-109	LA-5779-MS	10-5
LA-5583-PR	20-44	LA-5675-PR	26-20	LA-5780-MS	11-9
LA-5584	18-25	LA-5676-MS	20-101	LA-5781-PR	28-10
LA-5586	17-19	LA-5679	28-9	LA-5782-MS	17-70
LA-5587-MS	16-22	LA-5680	18-12	LA-5784-PR	17-37
LA-5588-PR	8-29	LA-5681	26-27	LA-5785-MS	30-61
LA-5589-MS	13-18	LA-5683-MS	20-84	LA-5786-PR	8-28
LA-5590-MS	3-14	LA-5684-PR	8-26	LA-5787-PR	8-25
LA-5593	23-3	LA-5686-PR	17-57	LA-5788-MS	10-76
LA-5594-MS	21-45	LA-5687	25-84	LA-5789-MS	20-135
LA-5595-MS	30-29	LA-5689-MS	11-13	LA-5790-PR	5-4
LA-5596	30-8	LA-5691	10-89	LA-5791	2-9
LA-5598-MS	5-113	LA-5692-MS	26-2	LA-5795-C	7-6
LA-5599-MS	27-19	LA-5693-MS	20-137	LA-5795-C	28-7
LA-5600-MS	30-30	LA-5694-MS	4-52	LA-5795-C	28-8
LA-5602-MS	18-4	LA-5696-SR	2-1	LA-5796-PR	5-93
LA-5603-MS	20-17	LA-5698-MS	4-33	LA-5797-PR	17-1
LA-5604-MS	20-5	LA-5699-MS	20-81	LA-5798-PR	28-12
LA-5605-MS	11-8	LA-5705-MS	17-67	LA-5799-MS	5-111
LA-5606-PR	7-10	LA-5706-MS	20-72	LA-5804-PR	25-13
LA-5607-MS	20-77	LA-5707-MS	22-26	LA-5805-PR	17-62
LA-5608-MS	11-21	LA-5708-PR	22-48	LA-5806-MS	30-7
LA-5609-MS	21-12	LA-5711-PR	15-10	LA-5808-PR	13-8
LA-5610-MS	21-60	LA-5712-MS	30-56	LA-5810-MS	17-65
LA-5611-MS	20-41	LA-5713-MS	18-20	LA-5818-C	11-24
LA-5612-PR	17-63	LA-5714-PR	21-39	LA-5859-PR	12-6
LA-5613-MS	21-2	LA-5716-MS	17-15	LA-DC-12630	5-59
LA-5614-PR	30-34	LA-5718-MS	20-68	LA-DC-12899	17-40
LA-5615-MS	4-9	LA-5719-PR	5-7	LA-DC-13288	10-8

LA-DC-13324	21-26	LA-UR-73-710	5-112	LA-UR-73-1174	22-10
LA-UR-71-113	23-17	LA-UR-73-719	20-138	LA-UR-73-1178	16-10
LA-DC-72-81	18-21	LA-UR-73-722	25-94	LA-UR-73-1179	16-8
LA-DC-72-593	8-15	LA-UR-73-727	19-17	LA-UR-73-1180	16-9
LA-DC-72-596	5-73	LA-UR-73-749	4-19	LA-UR-73-1231	19-15
LA-DC-72-598	27-1	LA-UR-73-768	22-34	LA-UR-73-1232	22-16
LA-DC-72-658	27-13	LA-UR-73-770	27-9	LA-UR-73-1233	8-24
LA-DC-72-716	9-4	LA-UR-73-771	19-22	LA-UR-73-1239	18-6
LA-DC-72-717	9-5	LA-UR-73-774	20-21	LA-UR-73-1251	1-3
LA-DC-72-778	6-20	LA-UR-73-779	6-8	LA-UR-73-1252	30-22
LA-DC-72-779	22-41	LA-UR-73-784	9-1	LA-UR-73-1254	25-85
LA-DC-72-785	8-16	LA-UR-73-793	23-4	LA-UR-73-1255	5-74
LA-DC-72-838	10-16	LA-UR-73-797	8-19	LA-UR-73-1257	18-27
LA-DC-72-871	9-8	LA-UR-73-806	10-52	LA-UR-73-1260	4-46
LA-DC-72-872	27-6	LA-UR-73-812	20-51	LA-UR-73-1269	29-4
LA-DC-73-880	27-2	LA-UR-73-817	10-50	LA-UR-73-1282	10-1
LA-DC-72-891	8-10	LA-UR-73-818	4-8	LA-UR-73-1288	1-28
LA-DC-72-894	9-6	LA-UR-73-827	4-48	LA-UR-73-1297	21-51
LA-DC-72-908	18-13	LA-UR-73-828	3-24	LA-UR-73-1298	25-93
LA-DC-72-914	8-9	LA-UR-73-837	21-44	LA-UR-73-1304	3-32
LA-DC-72-919	8-34	LA-UR-73-854	9-7	LA-UR-73-1316	11-10
LA-DC-72-922	8-1	LA-UR-73-858	17-23	LA-UR-73-1326	17-42
LA-DC-72-941	8-8	LA-UR-73-880	26-14	LA-UR-73-1328	4-59
LA-DC-72-1144	19-7	LA-UR-73-882	22-56	LA-UR-73-1347	7-20
LA-DC-72-1150	18-14	LA-UR-73-883	2-17	LA-UR-73-1360	6-3
LA-DC-72-1189	8-18	LA-UR-73-889	22-30	LA-UR-73-1361	4-11
LA-DC-72-1190	28-3	LA-UR-73-891	9-19	LA-UR-73-1362	13-10
LA-DC-72-1244	4-30	LA-UR-73-892	25-87	LA-UR-73-1363	25-61
LA-DC-72-1249	23-10	LA-UR-73-893	19-11	LA-UR-73-1375	22-2
LA-DC-72-1287	18-2	LA-UR-73-894	25-104	LA-UR-73-1383	20-115
LA-DC-72-1319	25-47	LA-UR-73-898	5-37	LA-UR-73-1384	6-16
LA-DC-72-1325	10-83	LA-UR-73-900	5-39	LA-UR-73-1388	5-76
LA-DC-72-1364	22-32	LA-UR-73-906	1-11	LA-UR-73-1393	21-29
LA-DC-72-1378	20-69	LA-UR-73-910	8-6	LA-UR-73-1394	20-42
LA-DC-72-1382	24-9	LA-UR-73-918	21-8	LA-UR-73-1405	25-107
LA-DC-72-1389	10-87	LA-UR-73-920	21-19	LA-UR-73-1408	4-28
LA-DC-72-1397	10-65	LA-UR-73-923	1-19	LA-UR-73-1418	14-1
LA-DC-72-1400	10-98	LA-UR-73-926	11-23	LA-UR-73-1421	25-42
LA-DC-72-1413	21-18	LA-UR-73-938	17-6	LA-UR-73-1423	5-109
LA-DC-72-1427	24-3	LA-UR-73-942	25-69	LA-UR-73-1428	17-46
LA-DC-72-1480	17-31	LA-UR-73-944	21-20	LA-UR-73-1429	21-54
LA-DC-72-1522	21-52	LA-UR-73-945	17-27	LA-UR-73-1438	18-19
LA-DC-72-1537	27-11	LA-UR-73-951	23-7	LA-UR-73-1445	21-59
LA-DC-72-1561	4-38	LA-UR-73-952	18-29	LA-UR-73-1446	22-9
LA-UR-73-36	17-43	LA-UR-73-960	16-4	LA-UR-73-1451	20-46
LA-UR-73-82	5-33	LA-UR-73-968	16-27	LA-UR-73-1458	17-45
LA-UR-73-85	21-35	LA-UR-73-970	10-51	LA-UR-73-1469	10-73
LA-UR-73-91	18-8	LA-UR-73-972	16-1	LA-UR-73-1462	20-63
LA-UR-73-114	3-28	LA-UR-73-981	25-38	LA-UR-73-1467	25-35
LA-UR-73-172	23-6	LA-UR-73-982	5-83	LA-UR-73-1470	1-20
LA-UR-73-203	23-14	LA-UR-73-999	16-23	LA-UR-73-1473	18-23
LA-UR-73-212	4-37	LA-UR-73-1004	17-47	LA-UR-73-1486	25-92
LA-UR-73-229	5-61	LA-UR-73-1010	16-29	LA-UR-73-1490	25-25
LA-UR-73-293	25-73	LA-UR-73-1023	20-28	LA-UR-73-1500	8-7
LA-UR-73-324	25-18	LA-UR-73-1036	16-3	LA-UR-73-1504	22-44
LA-UR-73-356	18-30	LA-UR-73-1049	17-7	LA-UR-73-1511	25-43
LA-UR-73-376	5-58	LA-UR-73-1051	25-114	LA-UR-73-1520	1-35
LA-UR-73-411	5-5	LA-UR-73-1052	20-67	LA-UR-73-1532	25-24
LA-UR-73-413	8-30	LA-UR-73-1060	9-14	LA-UR-73-1533	3-26
LA-UR-73-415	7-4	LA-UR-73-1073	5-66	LA-UR-73-1536	5-31
LA-UR-73-430	7-7	LA-UR-73-1075	11-22	LA-UR-73-1552	20-118
LA-UR-73-438	27-7	LA-UR-73-1108	5-30	LA-UR-73-1554	1-5
LA-UR-73-459	11-31	LA-UR-73-1112	25-1	LA-UR-73-1557	3-36
LA-UR-73-461	4-45	LA-UR-73-1113	5-55	LA-UR-73-1561	9-20
LA-UR-73-468	19-19	LA-UR-73-1116	4-6	LA-UR-73-1563	25-100
LA-UR-73-485	4-24	LA-UR-73-1117	22-42	LA-UR-73-1564	26-26
LA-UR-73-511	5-82	LA-UR-73-1118	5-28	LA-UR-73-1574	4-32
LA-UR-73-516	19-12	LA-UR-73-1119	5-42	LA-UR-73-1576	10-46
LA-UR-73-608	28-16	LA-UR-73-1120	25-44	LA-UR-73-1578	25-102
LA-UR-73-636	21-14	LA-UR-73-1121	18-22	LA-UR-73-1580	10-49
LA-UR-73-647	5-16	LA-UR-73-1123	20-74	LA-UR-73-1584	4-20
LA-UR-73-665	27-17	LA-UR-73-1125	25-37	LA-UR-73-1585	26-5
LA-UR-73-703	4-42	LA-UR-73-1141	10-105	LA-UR-73-1586	20-134

LA-UR-73-1593	10-66	LA-UR-74-5	8-14	LA-UR-74-418	25-82
LA-UR-73-1595	26-19	LA-UR-74-8	5-95	LA-UR-74-420	4-57
LA-UR-73-1601	3-10	LA-UR-74-20	11-2	LA-UR-74-427	25-110
LA-UR-73-1603	20-40	LA-UR-74-26	11-26	LA-UR-74-429	20-76
LA-UR-73-1604	13-12	LA-UR-74-27	4-18	LA-UR-74-434	9-13
LA-UR-73-1609	7-13	LA-UR-74-42	10-101	LA-UR-74-439	4-40
LA-UR-73-1610	10-29	LA-UR-74-43	10-61	LA-UR-74-441	14-3
LA-UR-73-1611	10-12	LA-UR-74-50	9-15	LA-UR-74-445	20-119
LA-UR-73-1612	10-75	LA-UR-74-51	19-20	LA-UR-74-446	5-99
LA-UR-73-1613	13-21	LA-UR-74-51A	19-21	LA-UR-74-478	25-108
LA-UR-73-1614	5-17	LA-UR-74-52	21-42	LA-UR-74-481	19-1
LA-UR-73-1615	5-29	LA-UR-74-55	25-54	LA-UR-74-500	21-9
LA-UR-73-1617	20-57	LA-UR-74-56	10-31	LA-UR-74-503	11-18
LA-UR-73-1618	27-16	LA-UR-74-60	9-18	LA-UR-74-507	25-32
LA-UR-73-1625	20-67	LA-UR-74-61	10-80	LA-UR-74-509	21-1
LA-UR-73-1629	20-38	LA-UR-74-71	10-99	LA-UR-74-515	25-106
LA-UR-73-1630	20-37	LA-UR-74-75	6-10	LA-UR-74-520	28-17
LA-UR-73-1634	1-29	LA-UR-74-77	5-11	LA-UR-74-522	4-34
LA-UR-73-1638	21-13	LA-UR-74-80	5-84	LA-UR-74-525	20-34
LA-UR-73-1641	22-13	LA-UR-74-82	5-38	LA-UR-74-526	4-22
LA-UR-73-1649	9-2	LA-UR-74-83	5-40	LA-UR-74-527	4-23
LA-UR-73-1650	5-80	LA-UR-74-102	4-47	LA-UR-74-528	12-4
LA-UR-73-1651	18-7	LA-UR-74-106	5-57	LA-UR-74-530	30-14
LA-UR-73-1653	10-27	LA-UR-74-107	25-9	LA-UR-74-535	1-21
LA-UR-73-1656	8-3	LA-UR-74-112	26-6	LA-UR-74-538	4-26
LA-UR-73-1657	19-23	LA-UR-74-120	20-80	LA-UR-74-542	9-9
LA-UR-73-1660	13-20	LA-UR-74-124	20-43	LA-UR-74-544	6-17
LA-UR-73-1669	21-58	LA-UR-74-127	21-36	LA-UR-74-565	20-16
LA-UR-73-1674	5-49	LA-UR-74-135	4-41	LA-UR-74-576	27-10
LA-UR-73-1678	26-24	LA-UR-74-136	25-120	LA-UR-74-577	1-12
LA-UR-73-1681	19-16	LA-UR-74-146	5-22	LA-UR-74-579	20-6
LA-UR-73-1684	10-38	LA-UR-74-147	5-98	LA-UR-74-580	10-53
LA-UR-73-1688	5-41	LA-UR-74-150	9-16	LA-UR-74-583	10-13
LA-UR-73-1694	5-72	LA-UR-74-156	20-3	LA-UR-74-586	23-9
LA-UR-73-1695	11-3	LA-UR-74-157	10-21	LA-UR-74-587	16-17
LA-UR-73-1696	25-51	LA-UR-74-159	7-18	LA-UR-74-588	17-73
LA-UR-73-1697	1-33	LA-UR-74-166	25-79	LA-UR-74-588	30-59
LA-UR-73-1700	25-56	LA-UR-74-170	25-77	LA-UR-74-590	3-20
LA-UR-73-1705	14-4	LA-UR-74-197	4-21	LA-UR-74-591	17-12
LA-UR-73-1711	6-14	LA-UR-74-212	13-14	LA-UR-74-592	20-122
LA-UR-73-1715	23-36	LA-UR-74-213	28-5	LA-UR-74-593	10-7
LA-UR-73-1716	4-54	LA-UR-74-217	1-1	LA-UR-74-594	20-110
LA-UR-73-1721	5-18	LA-UR-74-240	9-17	LA-UR-74-595	25-99
LA-UR-73-1722	5-19	LA-UR-74-253	5-47	LA-UR-74-596	25-122
LA-UR-73-1724	9-12	LA-UR-74-255	22-52	LA-UR-74-597	18-1
LA-UR-73-1741	25-57	LA-UR-74-257	25-90	LA-UR-74-599	25-53
LA-UR-73-1752	10-10	LA-UR-74-259	5-25	LA-UR-74-600	25-10
LA-UR-73-1753	10-41	LA-UR-74-264	20-65	LA-UR-74-608	10-14
LA-UR-73-1762	16-12	LA-UR-74-266	25-34	LA-UR-74-611	10-111
LA-UR-73-1764	3-23	LA-UR-74-267	18-26	LA-UR-74-613	10-90
LA-UR-73-1769	17-76	LA-UR-74-270	4-50	LA-UR-74-615	25-62
LA-UR-73-1775	20-97	LA-UR-74-274	18-15	LA-UR-74-616	10-39
LA-UR-73-1781	19-3	LA-UR-74-278	5-8	LA-UR-74-617	10-25
LA-UR-73-1782	4-4	LA-UR-74-279	5-96	LA-UR-74-622	22-33
LA-UR-73-1790	5-14	LA-UR-74-280	10-69	LA-UR-74-623	17-8
LA-UR-73-1792	6-11	LA-UR-74-300	25-5	LA-UR-74-627	10-114
LA-UR-73-1799	25-60	LA-UR-74-303	7-16	LA-UR-74-628	10-84
LA-UR-73-1807	6-6	LA-UR-74-308	25-123	LA-UR-74-629	10-6
LA-UR-73-1811	25-78	LA-UR-74-311	20-1	LA-UR-74-630	5-9
LA-UR-73-1812	23-21	LA-UR-74-318	26-11	LA-UR-74-631	30-55
LA-UR-73-1817	10-78	LA-UR-74-328	11-33	LA-UR-74-633	19-5
LA-UR-73-1832	5-69	LA-UR-74-332	5-70	LA-UR-74-640	10-35
LA-UR-73-1834	21-47	LA-UR-74-340	17-11	LA-UR-74-644	5-48
LA-UR-73-1837	5-50	LA-UR-74-343	27-15	LA-UR-74-652	10-57
LA-UR-73-1842	20-121	LA-UR-74-344	9-11	LA-UR-74-653	4-55
LA-UR-73-1844	10-58	LA-UR-74-356	2-7	LA-UR-74-657	23-34
LA-UR-73-1847	20-50	LA-UR-74-364	3-22	LA-UR-74-658	27-18
LA-UR-73-1851	21-43	LA-UR-74-369	23-23	LA-UR-74-668	22-19
LA-UR-73-1856	5-26	LA-UR-74-374	22-36	LA-UR-74-670	22-46
LA-UR-73-1862	25-6	LA-UR-74-378	22-17	LA-UR-74-676	10-37
LA-UR-73-1865	7-17	LA-UR-74-382	5-81	LA-UR-74-680	8-23
LA-UR-73-1870	25-31	LA-UR-74-385	27-8	LA-UR-74-689	20-49
LA-UR-73-1874	4-3	LA-UR-74-402	6-5	LA-UR-74-696	25-86

LA-UR-74-699	9-3	LA-UR-74-1062	12-1	WASH-1332(74) V.2	30-55
LA-UR-74-702	20-126	LA-UR-74-1068	22-39	WASH-1332(74) V.2	30-59
LA-UR-74-706	25-112	LA-UR-74-1076	8-2		
LA-UR-74-713	20-103	LA-UR-74-1077	26-25		
LA-UR-74-717	4-10	LA-UR-74-1085	12-2		
LA-UR-74-723	17-3	LA-UR-74-1087	4-60		
LA-UR-74-724	8-4	LA-UR-74-1093	12-3		
LA-UR-74-728	11-27	LA-UR-74-1105	20-142		
LA-UR-74-734	25-105	LA-UR-74-1110	19-18		
LA-UR-74-735	20-31	LA-UR-74-1116	20-45		
LA-UR-74-737	8-33	LA-UR-74-1123	5-2		
LA-UR-74-738	25-70	LA-UR-74-1127	5-102		
LA-UR-74-741	8-11	LA-UR-74-1132	17-78		
LA-UR-74-743	15-3	LA-UR-74-1143	25-7		
LA-UR-74-751	20-18	LA-UR-74-1167	19-13		
LA-UR-74-761	13-13	LA-UR-74-1173	4-16		
LA-UR-74-764	17-5	LA-UR-74-1174	5-100		
LA-UR-74-765	25-3	LA-UR-74-1183	6-2		
LA-UR-74-766	4-5	LA-UR-74-1186	4-56		
LA-UR-74-771	21-11	LA-UR-74-1206	10-32		
LA-UR-74-789	20-47	LA-UR-74-1232	17-35		
LA-UR-74-793	20-30	LA-UR-74-1234	25-116		
LA-UR-74-794	21-55	LA-UR-74-1262	18-17		
LA-UR-74-797	3-7	LA-UR-74-1296	5-24		
LA-UR-74-798	16-13	LA-UR-74-1300	17-25		
LA-UR-74-801	11-32	LA-UR-74-1305	30-4		
LA-UR-74-806	20-102	LA-UR-74-1307	20-48		
LA-UR-74-809	4-58	LA-UR-74-1327	10-48		
LA-UR-74-821	11-11	LA-UR-74-1328	11-16		
LA-UR-74-830	20-109	LA-UR-74-1333	25-64		
LA-UR-74-831	21-3	LA-UR-74-1340	17-28		
LA-UR-74-833	3-4	LA-UR-74-1341	10-72		
LA-UR-74-842	5-58	LA-UR-74-1347	25-117		
LA-UR-74-845	2-4	LA-UR-74-1384	25-101		
LA-UR-74-847	22-53	LA-UR-74-1408	29-2		
LA-UR-74-858	22-28	LA-UR-74-1432	25-109		
LA-UR-74-862	4-43	LA-UR-74-1441	22-11		
LA-UR-74-865	3-12	LA-UR-74-1454	5-108		
LA-UR-74-868	3-11	LA-UR-74-1459	7-6		
LA-UR-74-870	10-103	LA-UR-74-1476	5-114		
LA-UR-74-876	20-130	LA-UR-74-1477	5-52		
LA-UR-74-880	25-91	LA-UR-74-1523	21-10		
LA-UR-74-883	10-36	LA-UR-74-1551	20-136		
LA-UR-74-893	26-15	LA-UR-74-1578	21-28		
LA-UR-74-897	21-31	LA-UR-74-1582	21-25		
LA-UR-74-909	22-8	LA-UR-74-1590	17-41		
LA-UR-74-913	26-16	LA-UR-74-1604	12-5		
LA-UR-74-918	30-11	LA-UR-74-1870	22-27		
LA-UR-74-919	3-34	LA-UR-74-5016	26-3		
LA-UR-74-924	26-8	LA-UR-75-5002	17-71		
LA-UR-74-932	5-78	ORO-4317-43	25-29		
LA-UR-74-937(REV.)	23-12	PB-189,346	17-48		
LA-UR-74-962	15-12	TID-26286	17-10		
LA-UR-74-968	5-64	TID-26286	17-46		
LA-UR-74-973	23-18	TID-26286	24-2		
LA-UR-74-977	26-17	U. S. PATENT 3,790,492	5-71		
LA-UR-74-978	23-5	U. S. PATENT 3,800,256	8-12		
LA-UR-74-980	22-25	U. S. PATENT 3,801,700	7-8		
LA-UR-74-982	25-41	U. S. PATENT 3,804,017	15-4		
LA-UR-74-984	13-16	U. S. PATENT 3,809,565	23-19		
LA-UR-74-985	10-96	U. S. PATENT 3,810,962	23-20		
LA-UR-74-988	5-27	U. S. PATENT 3,817,604	20-83		
LA-UR-74-992	17-74	U. S. PATENT 3,818,375	20-88		
LA-UR-74-998	20-124	U. S. PATENT 3,824,402	5-36		
LA-UR-74-1002	6-12	U. S. PATENT 3,845,300	20-11		
LA-UR-74-1007	20-93	U. S. PATENT 3,851,267	20-85		
LA-UR-74-1025	4-15	U. S. PATENT 3,854,792	13-5		
LA-UR-74-1026	22-3	WASH-1320	5-97		
LA-UR-74-1035	17-36	WASH-1332(74) V.2	17-8		
LA-UR-74-1050	23-28	WASH-1332(74) V.2	17-12		
LA-UR-74-1051	17-13	WASH-1332(74) V.2	17-73		
LA-UR-74-1053	20-26	WASH-1332(74) V.2	30-14		
LA-UR-74-1054	6-1				

PUBLICATION TABULATION

A. JOURNAL ARTICLES - 702 articles in 146 journals. (List is alphabetical by arrangement of titles in the LASL libraries.)

Acta Astronautica - 1	Computer - 1
Advances in Cryogenic Engineering - 1	Computer Physics Communications - 2
Advances in Instrumentation - 1	Cryogenics - 1
American Astronomical Society, Bulletin - 9	Decuscope - 1
American Ceramic Society, Bulletin - 7	EOS - 25
American Ceramic Society, Journal - 1	European Journal of Biochemistry - 1
American Chemical Society, Abstracts of Papers - 17	European Journal of Cancer - 1
American Chemical Society, Journal - 1	Experimental Cell Research - 2
American Industrial Hygiene Association, Journal - 5	Federation Proceedings - 8
American Institute of Aeronautics and Astronautics Journal - 1	Geochimica et Cosmochimica Acta - 1
American Mathematical Monthly - 1	Health Physics - 7
American Mathematical Society, Notices - 4	High Temperatures - High Pressures - 1
American Nuclear Society, Transactions - 26	Icarus - 1
American Physical Society, Bulletin - 135	IEEE Journal of Quantum Electronics - 21
American Review of Respiratory Diseases - 1	IEEE Transactions on Circuits and Systems - 1
American Statistical Association, Journal - 3	IEEE Transactions on Nuclear Science - 4
Analytical Chemistry - 1	IEEE Transactions on Plasma Science - 1
Annals of Physics - 1	Inorganic Chemistry - 7
Applied Optics - 3	Instrument Society of America, Transactions - 1
Applied Physics Letters - 12	International Journal of Cancer - 1
Archive for Rational Mechanics and Analysis - 2	International Journal of Chemical Kinetics - 1
Archives of Biochemistry and Biophysics - 1	International Journal of Quantum Chemistry - 2
Astronautica Acta - 1	International Journal of Radiation Biology - 2
Astrophysical Journal - 7	Journal of Applied Physics - 14
Atmospheric Environment - 1	Journal of Atmospheric Sciences - 2
Bacteriological Proceedings - 1	Journal of Cell Biology - 7
Biochemical and Biophysical Research Communications - 1	Journal of Cellular Physiology - 1
Biochemistry - 2	Journal of Chemical Education - 1
Biochimica et Biophysica Acta - 3	Journal of Chemical Physics - 23
Biometrics - 1	Journal of Chemical Thermodynamics - 2
Biophysical Journal - 2	Journal of Computational Physics - 6
Biopolymers - 3	Journal of Fluid Mechanics - 1
British Journal of Radiology - 1	Journal of Geophysical Research - 12
Cellular Immunology - 1	Journal of Heat Transfer - 1
Chemical Communications - 1	Journal of Heterocyclic Chemistry - 1
Chemical Physics Letters - 3	Journal of Histochemistry and Cytochemistry - 1
	Journal of Infectious Diseases - 1
	Journal of Inorganic and Nuclear Chemistry - 5

Journal of Labelled Compounds - 3
 Journal of Low Temperature Physics - 5
 Journal of Mathematical Analysis and Applications - 1
 Journal of Mathematical Physics - 2
 Journal of Molecular Spectroscopy - 3
 Journal of Nuclear Materials - 5
 Journal of Nuclear Medicine - 1
 Journal of Photochemistry - 1
 Journal of Physical Oceanography - 1
 Journal of Physics and Chemistry of Solids - 2
 Journal of Physics, B - 1
 Journal of Quantitative Spectroscopy and Radiative Transfer - 1
 Journal of Solid State Chemistry - 1
 Journal of Spacecraft and Rockets - 1
 Journal of the Acoustical Society of America - 1
 Journal of the Less-Common Metals - 2
 Journal of the National Cancer Institute - 1
 Journal of Theoretical Biology - 1
 Journal of Vacuum Science and Technology - 2
 Journal of Virology - 1
 Laser Focus - 3
 Lettere al Nuovo Cimento - 1
 Mathematical Biosciences - 3
 Mathematics of Computation - 1
 Metallography - 1
 Metallurgical Transactions - 1
 Molecular Crystals - 1
 National Academy of Sciences, Proceedings - 1
 Nature - 3
 New Mexican - 1
 Nuclear Engineering and Design - 1
 Nuclear Fusion - 6
 Nuclear Instruments and Methods - 16
 Nuclear Materials Management - 5
 Nuclear News - 1
 Nuclear Physics - 13
 Nuclear Science and Engineering - 8
 Nuclear Technology - 7
 Optical Society of America, Journal - 9
 Optics Communications - 5
 Photographic Science and Engineering - 1
 Physica Status Solidi - 1
 Physical Review - 49
 Physical Review Letters - 19
 Physics in Medicine and Biology - 6
 Physics Letters - 9
 Physics of Fluids - 9
 Planetary and Space Science - 1
 Plasma Physics - 1

Progress in Theoretical Physics (Kyoto) - 2
 Quarterly of Applied Mathematics - 2
 Radiation Effects - 1
 Radiation Research - 9
 Review of Scientific Instruments - 4
 Reviews of Geophysics and Space Physics - 1
 Rocky Mountain Journal of Mathematics - 2
 Science - 7
 Scripta Metallurgica - 1
 Siam Journal on Applied Mathematics - 1
 Siam Journal on Numerical Analysis - 3
 Siam Review - 3
 Society for Experimental Biology and Medicine, Proceedings - 1
 Solar Physics - 3
 Solid State Communications - 3
 Spectrochimica Acta - 1
 Spectroscopy Letters - 1
 Surface Science - 3
 Surgical Forum - 1
 Technometrics - 2
 Thermochimica Acta - 1
 Welding Journal - 1
 Zeitschrift für Angewandte Mathematik und Physik - 1

B. BOOKS - 2

C. CHAPTERS OF BOOKS AND ENCYCLOPEDIA ARTICLES - 8

D. PAPERS IN CONFERENCE PROCEEDINGS PUBLISHED AS BOOKS - 77

E. PAPERS IN CONFERENCE PROCEEDINGS PUBLISHED AS REPORTS - 36

F. U.S. PATENTS - 12

G. LOS ALAMOS SCIENTIFIC LABORATORY REPORTS - 258

H. PAPERS ISSUED AS LASL REPORTS BY TIC AND NTIS - 205

I. PAPERS ISSUED AS REPORTS BY OTHERS - 5

J. THESES - 3

K. LASL REPORTS DECLASSIFIED IN 1974 - 85

WORDS EXCLUDED FROM KWIC INDEX

A	ARISING	CONFIDENTIAL	DURING
ABOUT	ARRANGEMENTS	CONSIDERATION	EACH
ABOVE	AS	CONSIDERED	EARLY
ABSENCE	ASSIGNED	CONSTITUTE	ED
ACCELERATED	ASSOCIATED	CONTAIN	EITHER
ACCELERATING	ASSOCIATION	CONTAINED	ELABORATION
ACCOMPANY	AT	CONTAINING	EMPHASIS
ACCOMPLISH	AUTHORIZED	CONTEMPLATED	ENDED
ACCORDANCE	BASED	CONTEXT	ENDING
ACHIEVED	BASIS	COVERED	EQUAL
ACHIEVEMENT	BE	DAY TO DAY	EQUALS
ACHIEVING	BECAUSE	DAYS	EQUIVALENT
ACROSS	BEEN	DE	ESTABLISHED
ACTUAL	BEING	DECLASSIFICATION	ETC.
ACTUALLY	BELOW	DECLASSIFIED	EVALUATE
AD	BETWEEN	DEDUCIBLE	EVALUATED
ADDITIONAL	BEYOND	DEFINED	EVALUATING
ADVANCE	BORNE	DEGREE	EVALUATION
ADVANCED	BOTH	DEGREES	EVEN
AFFECT	BRIEF	DER	EXAMPLE
AFFECTING	BY	DESCRIBED	EXCEPT
AFTER	CA	DESCRIPTION	EXISTENCE
AGAINST	CALIBRATED	DESCRIPTIVE	EXISTING
AIRES	CAN	DESIGNED	EXPECT
ALAMOS	CANNOT	DESIRED	EXPECTED
ALL	CAPABILITY	DETAILED	EXPLICITLY
ALLIED	CARLO	DETAILS	FACT
ALMOST	CARRIED	DETERMINATION	FACTOR
ALSO	CAUSED	DETERMINATIONS	FACTORS
ALTERNATE	CENT	DETERMINED	FALLS
AMONG	CERTAIN	DETERMINING	FAR
AMOUNT	CHARACTERISTICS	DEVELOP	FEATURE
AN	CIRCUMSTANCES	DEVELOPED	FEATURES
AND	CLASSIFIED	DEVELOPING	FEET
ANOTHER	CLASSIFY	DEVELOPMENTAL	FOLLOWED
ANTICIPATED	CLOSE	DEVELOPMENTAL	FOLLOWING
ANY	CLOSELY	DEVELOPMENTS	FOLLOWS
APPLICABLE	CLOSER	DIFFERENT	FOR
APPLICATION	COMMENT	DIFFICULTIES	FOUR
APPLICATIONS	COMPLETE	DIRECTLY	FOURTH
APPLIES	COMPLETED	DISCERNIBLE	FRD
APPLY	CONCERNED	DISCLOSED	FROM
APPLYING	CONCERNING	DO	FURTHER
APPROPRIATE	CONDITION	DOCUMENTS	FY
APPROVED	CONDITIONS	DOES	GATHER
ARE	CONDUCTING	DUE	GATHERING

GAVE	IS	NOT	PRIOR
GENERAL	ISSUED	NOTE	PROBLEMS
GIVE	IT	NOTICE	PROVIDE
GIVES	ITEM	NOVEL	PROVIDED
GOOD	ITEMS	NOW	PROVIDING
GRAAFF	ITS	NV	PURPOSE
GREATER	IV	OBSERVATION	PURPOSES
HANDLED	IX	OBSERVED	REASON
HARD	JUDGMENT	OBTAINED	RECENT
HAS	KELVIN	OCCURRED	REFER
HAVE	KNOWN	OCCURRENCE	REFERS
HAVING	LARGE	OF	REGARDING
HEATED	LAST	OFFERED	RELATED
HELD	LATE	OFFICERS	RELATING
HIGHLY	LETER	OFFICIAL	RELATIONSHIP
HOC	LESS	OFTEN	REQUIRE
HOT	LIKE	ON	REQUIRED
HOWEVER	LISTED	ONLY	REQUIREMENT
I	LOCAL	OR	REQUIREMENTS
IDENTIFIABLE	LOCALIZED	ORGANIZATION	RESOLVE
IDENTIFICATION	LOOSE	ORGANIZATIONS	RESULTING
IDENTIFIED	LOOSELY	OTHER	RESULTS
IDENTIFY	LOT	OTHERWISE	REVEAL
IF	MADE	OUT	REVEALED
II	MAINTAIN	OUTSIDE	REVEALING
III	MAINTAINED	OVER	REVEALS
IL	MAINTAINING	OVERALL	REVISED
IMPLY	MAKES	OVERRIDE	SAME
IMPLYING	MAKING	PAPERS	SATISFACTORY
IMPORTANCE	MEANS	PARAALEL	SECRET
IMPORTANT	MEASURES	PART	SECTION
IMPROVED	MEET	PARTIALLY	SECTIONS
IMPROVES	MEETING	PARTICIPATING	SEE
IMPROVING	MENTION	PARTICIPATION	SEEN
IN	MENTIONED	PARTICULAR	SELECTED
INCHES	MERE	PARTICULARLY	SHOULD
INCLUDE	MIGHT	PARTS	SIMILAR
INCLUDED	MILES	PAST	SIMILARITY
INCLUDES	MILLION	PER	SIMPLE
INCLUDING	MINUTE	PERCENT	SIMULTANEOUS
INDICATED	MISCELLANEOUS	PLACE	SIX
INDICATES	MODERN	PLANNED	SIXTEEN
INDICATING	MORE	PLANNING	SLOW
INDIRECTLY	MOVING	PLUS	SLOWLY
INDIVIDUAL	MUST	POOR	SO
INTENDED	NAMELY	POSSIBLE	SOME
INTEREST	NATURE	POUNDS	SPECIFIED
INTERESTED	NEAR	PPM	STATEMENT
INTERIM	NEAREST	PRACTICAL	STATEMENTS
INTO	NEARLY	PRECISE	STUDY
INTRODUCED	NECESSARY	PREDICTED	SUBJECT
INVESTIGATION	NEEDED	PRELIMINARY	SUBMITTED
INVESTIGATIONS	NM	PREPARED	SUBSEQUENT
INVOLVED	NO	PRESENCE	SUBTLE
INVOLVING	NORMALLY	PRESENT	SUCH

SUMMARIZING
TAKES
TERA
TERM
TERMS
THAN
THAT
THE
THEIR
THEM
THERE
THEREFORE
THEREOF
THESE
THEY
THIS
THOSE
THREE
THROUGH
TO
TOPIC
TOPICS
TRANS-1
TWELVE
TYPE
TYPES
UNCLASSIFIED
UND
UNDER
UNLESS
UP
USE
USED
USEFUL
USING
V
VARIOUS
VERY
VI
VIA
VII
VIII
VOL
WAALS
WAS
WAYS
WE
WERE
WHEN
WHERE
WHETHER
WHICH
WHOSE
WHY
WILL

WITH
WITHIN
WITHOUT
WORK
WOULD
XII
XIV

KWIC INDEX

A-STABLE ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37	GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17
A-T INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55	OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION.	22-36
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55	DETERMINATION OF THE NEUTRON HALO FROM ANTIPROTON ABSORPTION.	25-35
AB AB INITIO POTENTIAL CURVES FOR THE NEON (3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2	K- ABSORPTION AND THE NEUTRON HALO OF LEAD.	25-54
ABLATION ABLATION STABILITY OF LASER DRIVEN IMPLOSIONS.	20-5	PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24
ABLATION STABILITY OF LASER DRIVEN IMPLOSIONS.	20-6	ABUNDANCE ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1
ABLATION SYMMETRY OF LASER INDUCED IMPLOSIONS.	20-7	ABUNDANCES SOLAR WIND HEAVY ION ABUNDANCES.	1-32
ABOARD CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE.	3-3	DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4
ABORT SAFETY TEST NO.8-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67	AC INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.	10-48
ABSOLUTE ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1	ACCELERATION FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH.	15-2
ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1	COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY.	20-22
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH EID FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH EIP FROM 6 TO 16 MEV.	25-2	ACCELERATOR IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR.	21-22
ABSORPTION DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5	ACCELERATORS PRACTICAL APPLICATIONS OF ACCELERATORS. 1973. SYMPOSIUM. LOS ALAMOS. NM. PROCEEDINGS.	22-43
FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9	ACCIDENTS ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS.	17-18
INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	4-28	RECRITICALITY CONSIDERATIONS IN LMFR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	28-17
NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.	4-36	ACCOUNT SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950.	30-48
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26	ACCREDITATION QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AIHA.	17-55
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	ACCUMULATION ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.	5-2
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION. DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	ACCURACY NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16
ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES.	18-1	ACCURATE METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13
SURFACE WAVE ABSORPTION.	20-131	UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION.	9-19
ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14	ACETIC CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN. AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.	20-74	ACETYLENE SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16

ACETYLIDE SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16	ADENOSYLCOBALAMIN CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON -13.	14-2
ACID CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL -HYDROCHLORIC ACID.	2-2	ADHESION MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-45
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26	ADIABATIC HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS. DATA ON ARGON TO 13 KBAR.	19-12
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	ADMINISTERED DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN.	5-32
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-55	ADULT SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-55	ADVANCES RECENT ADVANCES IN COMPUTATIONAL FLUID DYNAMICS.	18-23
ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59	AEC GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES.	17-20
AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-4	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JANUARY 1 THROUGH JUNE 30, 1974.	17-52
CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JULY 1 THROUGH DECEMBER 31, 1973.	17-53
ACOUSTICS RAY TRACE ACOUSTICS IN UNSTEADY FLOW	18-22	RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS. JANUARY 1 THROUGH DECEMBER 31, 1973.	17-43
ACQUISITION DATA ACQUISITION SOFTWARE FOR A MWPC SPECTROMETER	21-12	INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.	19-13
ACT OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK.	17-33	AECM-0511 IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14
ACTINIDE THERMODYNAMIC PROPERTIES OF ACTINIDE CARBIDES.	7-20	AERODYNAMIC PLUTONIA AERODYNAMIC DISK (PAD). SUMMARY REPORT.	13-15
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10	AEROSOL AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. JANUARY 1 THROUGH JUNE 30, 1974.	17-1
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12	AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. JULY 1 THROUGH DECEMBER 31, 1973.	17-2
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13	AEROSOL RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-3
EXPERIMENTAL FISSION BARRIERS FOR ACTINIDE NUCLEI.	16-8	PLUTONIUM AEROSOL SIZE CHARACTERISTICS.	17-42
ACTINIDES CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL -HYDROCHLORIC ACID.	2-2	CONCENTRIC AEROSOL SPECTROMETER.	17-7
ACTIVATION ACTIVATION CONTROL AT LAMPF.	22-1	CONCENTRIC AEROSOL SPECTROMETER.	19-2
ACTIVE TEMPORAL OBSERVATIONS OF THE LAMBDA 5003 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32	AEROSOLS PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36
ACTIVITIES PROBE ACTIVITIES. ANNUAL REPORT. JULY 1, 1973 - JUNE 30, 1974.	5-91	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JANUARY 1 THROUGH JUNE 30, 1974.	17-37
PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.	5-92	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JULY 1 THROUGH DECEMBER 31, 1973.	17-38
NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24	CHAMBER STUDIES OF VISIBILITY REDUCING AEROSOLS.	17-6
ACTIVITY PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS.	5-45	AEROSPACE ASPEN: AN AEROSPACE PLANE WITH NUCLEAR ENGINES.	30-6
PACER PROGRAM. FY-1974 LASL ACTIVITY.	30-28	AFFINITY ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1
ADDITIVE FUNCTIONALS ADDITIVE ON A SYMMETRIC SET.	21-24	AFTERHEAT COMPARATIVE ANALYSIS OF DEUTERIUM -TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6
ADENOSINE CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5' - PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE.	14-3	SENSITIVITY OF KTRP (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91
		LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-62

AGC PREPARATION AND PROPERTIES OF THE POLYMERS D(AICN-DICTN AND DIAGCN-DIGCTN).	5-89	ALKALI LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30
AGENCY ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8	ALLOY URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-38
AGGLUTINATION THEORY OF PRECIPITATION AND AGGLUTINATION REACTIONS IN IMMUNOLOGICAL SYSTEMS.	5-112	URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39
AGING URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39
AIC PREPARATION AND PROPERTIES OF THE POLYMERS D(AICN-DICTN AND DIAGCN-DIGCTN).	5-89	ALLOYS DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5
AIHA QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AIHA.	17-55	MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	23-17
AID AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18
MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.	13-12	ON THE THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	21-23
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13	SOME MECHANICAL PROPERTIES OF URANIUM - MOLYBDENUM ALLOYS.	23-31
PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47	THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS	23-35
PROGRESS REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974	17-51	THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	23-37
QUARTERLY REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.	23-6
RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61	EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.	23-7
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.	19-13	FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.	23-9
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-57F AIRCRAFT.	19-8	ALONE REMOTE JOB ENTRY SIMULTANEOUS WITH STAND ALONE USAGE OF A PDP-11/20.	21-46
REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102	ALONG PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106
AIRBORNE MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-29	LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78
AIRCRAFT AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6800 ANGSTROMS AND 5577 ANGSTROMS.	1-2	ALPHA FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9
CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.	1-6	ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59
POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-57F AIRCRAFT.	19-8	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
ALBEDO DESIGN OF ALBEDO NEUTRON DOSIMETERS.	19-7	REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-65
ALFVEN POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE.	1-27	STUDY OF THE NEON -20 (TRITON, ALPHA) FLUORINE -19 REACTION AT 20 MEV.	25-112
ALGEBRA ALGEBRA OF LEVEL SPLITTING.	4-3	ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.	28-1
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2).	21-16	ALTERNATIVE COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25
SIGNIFICANCE ARITHMETIC, ON THE ALGEBRA OF BINARY STRINGS.	21-50	ALUMINUM OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM : YTTRIUM - ALUMINUM - GARNET LASER RADIATION.	17-32
LIE ALGEBRA SO(N) AND THE DUFFIN-KEMMER-PETIAU RING.	27-7	ALUMINUM CALCULATIONS OF LASER INDUCED SPALL IN ALUMINUM TARGETS.	20-19
ALIGNED EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AURORAL SPIRAL.	1-8	NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-96

DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	23-4	CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS	5-21
STUDY OF THE MAGNESIUM -24 (HELIUM -3, TRITON) ALUMINUM -24 REACTION AT E (HELIUM -3) = 38.2 MEV.	25-111	DEGRADATION OF NUCLEAR ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION	5-27
GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA THE ALUMINUM -27 (PROTON,GAMMA) SILICON -28 REACTION.	25-50	ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42
AMATEX PROPERTIES OF AMATEX-20.	15-7	FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
AMBIGUITY GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17	FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48
AMERICAN AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN).	30-1	IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50
AMERICIUM ON DIVALENT AMERICIUM IN MOLTEN SALT/ MOLTEN PLUTONIUM SYSTEMS.	7-7	IN VIVO TISSUE ANALYSIS USING MU-MESIC X RAYS.	5-54
AMINO BUTYRATE ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINO BUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6
AMMONIUM PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH4UF6, AMMONIUM PENTAFLUORO URANATE(IV).	9-15	MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66
AMPLIFICATION AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67
AMPLIFIER SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-120	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION. JULY 1, 1973 - JUNE 30, 1974.	5-7
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-121	MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.	5-74
TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN.	20-141	AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS	5-8
TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER.	20-142	PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1 -SEPTEMBER 30, 1974.	5-91
LASER AMPLIFIER DESIGN.	20-64	IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS.	9-9
LASER AMPLIFIER DESIGN.	20-65	FUSION REACTOR NUCLEAR ANALYSIS METHODS AND APPLICATIONS.	10-36
AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	LASER FUSION POWER PLANT SYSTEMS ANALYSIS.	10-53
AMPLIFIERS GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46	COMPARATIVE ANALYSIS OF DEUTERIUM - TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6
HIGH ENERGY AMPLIFIERS FOR THE LASER GLASS LASER SYSTEM.	20-51	STABILITY ANALYSIS OF BGK WAVES.	10-93
ANALOG STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW.	18-25	STABILITY ANALYSIS OF INHOMOGENEOUS PLASMA EQUILIBRIA.	10-94
ANALOGS CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11	COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR - RANKINE COOLING SYSTEM OPTIONS FOR A 60000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
ANALYSES COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL.	14-3	AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. JANUARY 1 THROUGH JUNE 30, 1974.	17-1
FORTAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION	23-10	AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS. JULY 1 THROUGH DECEMBER 31, 1973.	17-2
ANALYSIS LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT. FY 1974.	17-57
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JANUARY 1 THROUGH MARCH 31, 1974.	17-58
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59
VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.	4-56	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60
WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINEIII).	4-59	NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS.	18-18
CELL CYCLE ANALYSIS IN TWENTY MINUTES.	5-14	STRUCTURAL ANALYSIS OF TORNADO-LIKE VORTICES.	18-26
		CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1
		OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100

ERROR ANALYSIS OF A COMPUTATION OF EULER'S CONSTANT.	21-19	ANALYZER SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56
PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-39	ANALYZING FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9
DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3	GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA.	21-25
NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT.	24-9	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.3 AND 14.4 MEV.	25-123
ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON - NUCLEON SCATTERING.	25-3	ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-46
ANALYSIS OF ZPPR/PTR-2 TLD MEASUREMENTS USING ENDF/B-III DATA.	25-4	MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON - HELIUM -3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV	25-68
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-78	ANDERSON STAT'S REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15
R-MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM	25-95	ANEUPLOID CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22
R-MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM	25-95	ANGLE UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH	1-34
R-MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96	ANGSTROMS AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6900 ANGSTROMS AND 5577 ANGSTROMS.	1-2
R-MATRIX ANALYSIS OF THE N + BORON -10 SYSTEM AT LOW ENERGIES.	25-97	AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6900 ANGSTROMS AND 5577 ANGSTROMS.	1-2
R-MATRIX ANALYSIS OF THE OXYGEN -17 SYSTEM: VERSION IV OF ENDF/B.	25-98	ANGULAR GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49
ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS.	26-13	ANIMAL ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.	5-102
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION	26-15	ELECTRONIC ANIMAL IDENTIFICATION AND TEMPERATURE MONITORING.	5-41
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16	ANIMALS AUTOMATIC IDENTIFICATION AND PHYSIOLOGICAL MONITORING IN ANIMALS.	5-9
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17	ANISOTROPY BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.	26-18	EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT: PROGRAM STATUS REPORT. JANUARY - APRIL 1974.	26-20	ANNUAL ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973.	5-3
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT: PROGRAM STATUS REPORT. MAY - AUGUST 1974.	26-21	ANNUAL REPORT, ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING, JULY 1, 1973 THROUGH JUNE 30, 1974.	5-4
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1973.	26-22	PE-86 ACTIVITIES, ANNUAL REPORT, JULY 1, 1973 - JUNE 30, 1974	5-91
ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL ROD ASSAY SYSTEM.	26-7	QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, APRIL 1 THROUGH JUNE 30, 1973 AND ANNUAL REPORT, FY 1974.	17-57
SPREADING FUNCTIONS IN SECONDARY ELECTRON ANALYSIS.	27-15	ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES	27-19	QUARTERLY REPORT, ADVANCED PLUTONIUM FUELS PROGRAM, APRIL 1 THROUGH JUNE 30, 1973 AND EIGHTH ANNUAL REPORT, FY 1974.	28-10
URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR LIQUID METAL FUELED BREEDER REACTOR EXCURSION ANALYSIS.	28-21	ANODE DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4
APPROACH TO ENERGY SYSTEMS ANALYSIS AND CONSERVATION.	30-5	DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS	19-5
ANALYTIC ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS	25-5	ANOMALOUS OBSERVED ANOMALOUS BEHAVIOR OF HIGH ALTITUDE BARIUM PLASMA JET	1-24
ANALYTICAL ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE: PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1		
ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM PLUTONIUM DIOXIDE.	7-1		
QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AHA.	17-53		
QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12		

ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10	APPARATUS AND METHOD FOR MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.	20-11
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS	20-74	APPARENT STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM-238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM-238 DIOXIDE.	17-73
ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9	APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM-180.	25-9
OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97	APPLIED EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18
ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL - 1.5 PERCENT IRON COMPOSITE.	23-1	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25
ANOMALOUSLY EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26
ANTIBODIES DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES.	5-31	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-28
ANTIBODY ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29
ANTIFERROMAGNETS MEAN FIELD THEORY OF SOME MAGNETIZED ANTIFERROMAGNETS.	8-18	BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4
ANTIGEN ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5	ROCK MELTING APPLIED TO EXCAVATION TUNNELING.	11-26
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51	PLASMA SIMULATION TECHNIQUES APPLIED TO NONLINEAR OPTICAL PROBLEMS.	20-108
MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.	5-72	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. APRIL 1 THROUGH JUNE 30, 1974.	25-11
ANTIGENS ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JANUARY 1 THROUGH MARCH 31, 1974.	25-12
ANTIMONY ANTIMONY BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BUBBLER REACTOR.	28-2	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13
ANTIPHASE EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.	23-6	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14
ANTIPROTON DETERMINATION OF THE NEUTRON HALO FROM ANTIPROTON ABSORPTION.	25-35	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT. OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15
ANTISERUM IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51	APPROACH K(+) TO P(+) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23
APERTURE OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	15-18	APPROACH TO ENERGY SYSTEMS ANALYSIS AND CONSERVATION.	30-5
APERTURES REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES.	20-116	APPROXIMANTS RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES.	27-13
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-120	EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-121	GENERALIZATIONS OF PADE APPROXIMANTS.	27-6
APOLLO LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16	APPROXIMATE APPROXIMATE ESTIMATE OF THE FORM OF MOLECULAR VIBRATIONS.	4-4
APPARATUS FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9	APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS	20-12
DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36	APPROXIMATE SPHERICAL BLAST THEORY WITH SOURCE MASS.	20-13
LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE.	13-10	EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20
CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1	APPROXIMATELY PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28
HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS. DATA ON ARGON TO 13 KBAR.	19-12	LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 111) VICINAL SURFACES.	9-11

APPROXIMATION FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20	ARBITRARY TOROIDAL KINK MODE STABILITY OF A FINITE BETA. ARBITRARY CROSS SECTION. TOKAMAK PLASMA.	10-108
TRANSPORT EQUATION IN AN ACCELERATED MATERIAL. LEGENDRE MOMENTS AND A DIFFUSION APPROXIMATION.	18-29	KINK INSTABILITIES IN ARBITRARY CROSS SECTION PLASMAS.	10-51
SOME APPROXIMATION RESULTS FOR HERMITE 'CUBIC' SUBSPACES.	21-53	NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-29	ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS.	18-2
APPROXIMATIONS SPACE FIXED VS BODY FIXED AXES IN ATOM-DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46	DISTRIBUTION OF AN ARBITRARY STUDENTIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18
APRIL PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1-SEPTEMBER 30, 1974.	5-93	RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS.	25-100
QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. APRIL 1 THROUGH JUNE 30, 1974.	7-9	ARC ELECTRICAL CONDUCTANCE OF A CONFINED ARC DISCHARGE.	10-16
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25	TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114	AREA PROBLEM OF LARGE AREA PLUTONIUM CONTAMINATION.	17-48
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.	12-6	PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT. FY 1974.	17-57	AREAS RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.	21-39	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48	ARGININE PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS.	5-85
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. APRIL 1 THROUGH JUNE 30, 1974.	25-11	ARGON VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH.	10-116
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT. JANUARY - APRIL 1974.	26-20	FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON -40 BOMBARDMENTS OF NICKEL -58 AND SILVER -109.	16-9
QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	28-10	HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR.	19-12
QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967. PART 2.	28-14	126.1 NANOMETRE MOLECULAR ARGON LASER.	20-3
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. APRIL - JUNE 1974.	30-32	126.1 NANOMETRE MOLECULAR ARGON LASER.	20-4
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 30, 1963.	30-36	KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	20-61
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41	ARITHMETIC SIGNIFICANCE ARITHMETIC. ON THE ALGEBRA OF BINARY STRINGS.	21-50
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51	ARMOR PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34
AQUATIC STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSOPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73	ARRAYS ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) VICINAL SURFACES.	9-14
AQUEOUS DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26	ARREST METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	ARSENIC ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1
KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(IV) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8	ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) VICINAL SURFACES.	9-14
AQUIFER AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	ARSENIDE EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43
DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15	ART QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENOING APRIL 30, 1967. PART 2.	28-14
		QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967. PART 2.	28-15
		ARTERIES NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.	5-78

ARTIFICIAL ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT VOLCANIC ROCK.	11-3	ATMOSPHERIC STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES	6-15
ASPECTS FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.	7-6	AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1
SOME NEUTRONICS ASPECTS OF LASER FUSION REACTORS.	20-122	ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9
ASPEN ASPEN: AN AEROSPACE PLANE WITH NUCLEAR ENGINES.	30-6	ATOM SPACE FIXED VS BODY FIXED AXES IN ATOM - DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46
ASSAY PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-43	BETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGENLIKE ATOM.	4-5
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10	USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE.	26-11	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19	THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16
ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR O + H(2) YIELDS OH + H.	6-17
CHEMICAL ASSAY OF PLUTONIUM FOR SAFEGUARDS.	26-5	COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-4
ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL ROD ASSAY SYSTEM.	26-7	IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8	TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111
FISSIONABLE MATERIAL ASSAY USING MU-MESIC X RAYS.	26-9	MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80
ASSAYS PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24	METAL ATOM OXIDATION LASERS.	20-82
ASSEMBLIES BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES.	13-1	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-8
ASSEMBLY SAFETY TEST NO.5-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67	ATOMIC AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 ANGSTROMS AND 5577 ANGSTROMS.	1-2
HARE URANIUM (3%) CARBON (17%) ASSEMBLY.	24-1	DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5
METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY.	24-5	FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9
ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.	28-1	ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12
ASSESSMENT RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97	KINETICS FOR POPULATION INVERSION ON THE 557.7 NM 0(1S) TO 0(1D) TRANSITION IN ATOMIC OXYGEN.	4-29
TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-103	NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.	4-36
ASSIGNMENTS SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45	NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37
ASSIST PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14	THEORETICAL CALCULATION OF ATOMIC SPIN -ORBIT PARAMETERS.	4-49
ASSOCIATIVE SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20
ASSURANCE LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION.	13-11	ATOMIC CAPTURE OF NEGATIVE MESONS.	22-2
QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS AND FRF ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12	ATOMS ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11
ASYMMETRIC QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	4-42	INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26
ASYMMETRY CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23	NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38
ASYMPTOTIC ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14	THOMAS-FERMI CALCULATION OF POTENTIAL BETWEEN ATOMS.	4-52
		COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6

KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7	B-III ANALYSIS OF ZPPR/FTR-2 TLD MEASUREMENTS USING ENDF/B-III DATA.	25-4
E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS.	22-11	B-1B KIWI B-1B CONTROL SYSTEMS, TEST CELL A.	30-18
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.	22-46	BACKSCATTERED SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS.	20-125
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47	BACTERIOPHAGE ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HP1C1.	5-2
ATTACHMENT INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56	BALANCE ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES.	10-18
ATTACK NEW ATTACK ON THE ENERGY SHORTAGE.	30-23	PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING.	10-78
ATTEMPTED ATTEMPTED INTENSE D-D NEUTRON SOURCE.	25-16	BAND QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	4-42
AU SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31	BANDING CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS.	5-21
UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35	BANDS DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE.	4-8
AUGER ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1	BAR NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NU BAR.	19-17
AUGUST QUARTERLY REPORT, JOINT SERVICES EXPLOSIVE PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973.	15-8	BARE BARE URANIUM (93) CARBON (170) ASSEMBLY.	24-1
AUORAL EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AUORAL SPIRAL.	1-8	BARIUM L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15
FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AUORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	OBSERVATIONS OF THE DEVELOPMENT OF STRIATIONS IN LARGE BARIUM ION CLOUDS.	1-22
AUTOMATED AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8	OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24
PROGRESS REPORT, AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1974.	5-93	PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES.	1-25
AUTOMATIC AUTOMATIC IDENTIFICATION AND PHYSIOLOGICAL MONITORING IN ANIMALS.	5-9	FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AUORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9
AXES SPACE FIXED VS BODY FIXED AXES IN ATOM -DIATOMIC MOLECULE SCATTERING, SUDDEN APPROXIMATIONS.	4-46	BARREL ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM.	19-10
AXIAL BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-3	BARRIERS CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI.	16-1
MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT.	22-28	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA -FISSION) STUDIES.	16-10
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3	FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.	16-11
AXISYMMETRIC PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	CALCULATION OF FISSION BARRIERS.	16-3
AYER AYER HEAT CONDUCTION COMPUTER PROGRAM.	21-2	EXPERIMENTAL FISSION BARRIERS FOR ACTINIDE NUCLEI.	16-8
AZOBISCARBAMIDE CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS, 1. 1.1' - AZOBISCARBAMIDE.	9-4	BARYON DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS.	25-34
B QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	4-42	BASALTIC SELECTED PHYSICOCHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29
PENDF: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84	BASE MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67
R-MATRIX ANALYSIS OF THE OXYGEN -17 SYSTEM: VERSION IV OF ENDF/B.	25-98	BASIC SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-76
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2		

BCD BINX - BCD INTERPRETATION OF NEUTRON X SECTIONS.	25-17	ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL -1.5 PERCENT IRON COMPOSITE.	23-1
BEADS DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-8	STEADY STATE L-RADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-33
BEAGLES BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	TENSILE FATIGUE BEHAVIOR OF MOLYBDENUM AT 1153 DEGREES KELVIN.	23-34
BEAKER APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1	BELL BELL TRANSFORM.	21-3
BEAM REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14	BELT KINK INSTABILITIES IN THE BELT PINCH.	10-52
TRANSLATION ROTATION ENERGY TRANSFER. MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18	BENCHMARK APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-10
TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE. INS.	13-21	BERYLLIUM HUGONIOT EQUATION OF STATE OF BERYLLIUM OXIDE.	4-24
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1	MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.	4-33
PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106	EFFECT OF BERYLLIUM (N,2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14
TARGET COMPRESSION WITH ONE BEAM.	20-136	CROSS SECTIONS FOR (PI+,PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144	CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-31
100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM.	20-2	NEUTRON SPECTRA FROM 500 MEV PROTONS ON BERYLLIUM -9.	25-76
ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-36	ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2
ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37	BETA EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38	PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH4UF6I. AMMONIUM PENTAFLUORO URANATE/IV.	9-15
LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78	TOROIDAL KINK MODE STABILITY OF A FINITE BETA. ARBITRARY CROSS SECTION. TOKAMAK PLASMA.	10-108
METHOD OF FOCUSING A HIGH POWERED LASER BEAM.	20-83	EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15
MULTI-KILOJOULE HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86	EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK.	10-23
MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-88	EQUILIBRIUM AND STABILITY OF L = 1 HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS.	10-24
NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP.	22-33	BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-3
SPLIT SCATTERING IN THE EPIC'S BEAM LINE.	22-54	HIGH BETA TOKAMAK.	10-40
ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL.	23-5	KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50
BEAMS SOME PROBLEMS OF TREATMENT PLANNING FOR PION BEAMS.	5-106	PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	10-65
UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113	STABILITY OF A FINITE BETA L = 2 STELLARATOR.	10-95
SELF FOCUSING OF VERY POWERFUL LASER BEAMS. 2.	20-119	STABILITY OF DIFFUSE HIGH BETA HELICAL SYSTEMS.	10-96
EARLY EXPERIMENTS WITH NEUTRON BEAMS AT LAMPF.	22-12	CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5'- PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE.	14-3
SIMULTANEOUS STEERING OF H+ AND H- BEAMS AT LAMPF.	22-53	BETATRON ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.	28-1
BEARINGS MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.	13-12	BETHE-SALPETER BETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGENLIKE ATOM.	4-5
BED PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-10	BGK STABILITY ANALYSIS OF BGK WAVES.	10-83
BEHAVIOR OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24	RHABHA RHABHA FIRST ORDER WAVE EQUATIONS - I: C. P. AND T.	22-3
CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL-HYDROCHLORIC ACID.	2-2	BIDIRECTIONAL BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4
ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14		
TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140		

BIEDENHARN-GAMBA PHYSICAL EXAMPLE OF THE BIEDENHARN-GAMBA THEORY OF LEVEL SPLITTINGS.	4-39	BLANKET EFFECT OF BERYLLIUM (N,2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14
BIFURCATION REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS.	21-42	BLANKETS DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS; OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	29-3
BIHARMONIC DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS.	21-14	BLAST METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.	15-4
DIRECT SOLUTION OF THE DISCRETE BIHARMONIC EQUATION.	21-15	APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS.	20-12
BINARY EXACT SOLUTION TO PURE BINARY REACTION PROBLEMS.	21-21	APPROXIMATE SPHERICAL BLAST THEORY WITH SOURCE MASS.	20-13
SIGNIFICANCE ARITHMETIC. ON THE ALGEBRA OF BINARY STRINGS.	21-50	BLOOD ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42
ON THE THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	23-23	EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-46
THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS.	23-35	BODIES NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5
THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	23-37	BODY SPACE FIXED VS BODY FIXED AXES IN ATOM-DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46
BINDING FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47	BOILER ANTIMONY-BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5	BOILING POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23
MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.	5-72	BOMBARDED MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS	25-66
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON, NEUTRON) HELIUM-4 REACTION.	25-97
THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS.	23-35	NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-3	BOMBARDMENTS FISSION AND COMPLETE FISSION MEASUREMENTS IN ARGON-40 BOMBARDMENTS OF NICKEL-58 AND SILVER-109.	16-9
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4	BONDARENKO BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4
BINX BINN-BCD INTERPRETATION OF NEUTRON X SECTIONS.	25-17	BONDED EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9
BIOHAZARDS BIOHAZARDS MANUAL.	17-4	STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM- PLUTONIUM CARBIDE.	23-33
BIOLOGICAL BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM-238 DIOXIDE AND PLUTONIUM-239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	BONDING BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2
DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAEFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-29	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIIDIUM).	9-3
DISSOLUTION OF PLUTONIUM-238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS.	17-16	BOOK BOOK REVIEW: BIOMETRIKA TABLES FOR STATISTICIANS, VOL.2, BY E. S. PEARSON AND H. O. HARTLEY.	21-4
BIOLOGICAL TRANSFER PROCESSES IN ENVIRONMENTAL SURVEILLANCE.	17-5	BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GIBRA.	21-5
BIOLOGY POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.	5-47	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-3
BIOMEDICAL BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS.	5-11	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4
ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973.	5-3	BORON SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF P1 MINUS BIOMEDICAL CHANNEL.	5-77	STATUS OF LASER SEPARATION OF BORON ISOTOPES - JUNE 1974.	20-129
BIOMETRIKA BOOK REVIEW: BIOMETRIKA TABLES FOR STATISTICIANS, VOL.2, BY E. S. PEARSON AND H. O. HARTLEY.	21-4		
BISMUTH FISSION OF URANIUM-238, BISMUTH-209 AND GOLD-197 WITH INTERMEDIATE ENERGY HELIUM-4 IONS.	16-14		

BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY.	20-15	MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11
B-MATRIX ANALYSIS OF THE N + BORON -10 SYSTEM AT LOW ENERGIES.	25-97	MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE.	6-12
BOUNCE MIXED SNOWFLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH	10-60	MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE.	6-12
BOUND COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6	BRUECKNER-HARTREE-FOCK RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101
TRINUCLEON BOUND STATE PROPERTIES FROM A COMBLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119	BUBBLE HOW MUCH OF A BUBBLE IS THERE IN MERCURY -104	25-52
BOUNDARIES CONTINUATION OF FUNCTIONS BEYOND NATURAL BOUNDARIES.	27-1	BUFFERING SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRE PROPORTIONAL CHAMBER DATA.	21-47
BOW HOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5	BUILDING COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
BOX RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61	DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.	17-12
BOXES COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2	BUILDING D PLUTONIUM RECOVERY PROCESS.	23-2
BRANCH C-DIVISION SOFTWARE BRANCH PROJECT HANDBOOK.	21-6	BUILDINGS NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS.	18-18
BRANCHING BRANCHING RATIO FOR THE DECAY OF IODINE -135 TO THE ISOMERS OF XENON -135.	25-18	BULK APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRANE PROGRAM.	11-2
BRAZE BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES.	13-1	PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25
BREAKDOWN DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	BUOYANT BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12
COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES.	20-23	BURN ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	19-25
BREAKEYEN ON CTR BREAKEYEN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES.	10-64	TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES.	20-135
BREEDER NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21	THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM - TRITIUM MICROSPHERES.	20-138
RECRITICALITY CONSIDERATIONS IN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	28-17	THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM - TRITIUM SPHERES.	20-139
URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	28-21	BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-17
BREMSSTRAHLUNG BREMSSTRAHLUNG EMISSION FROM LASER PRODUCED PLASMAS.	20-16	BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-18
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22	HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLoded DEUTERIUM - TRITIUM SPHERES	20-54
PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT.	25-93	BURNUP IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
BROADENING SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90	BURST FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11
BROMIDE MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30
MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE.	6-12	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE.	3-36
BROMINE DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE.	4-8	BURSTS OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 1.	3-19
		REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29

COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4	USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOIM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	3-7	COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. $F + HF(v_i)$ TO $HF(v_i) + F$ AND $F + DF(v_i)$ TO $DF(v_i) + F$.	6-3
EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9	MULTIFLUID FLOW CALCULATIONS AT ALL MACH NUMBERS.	14-15
PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47	NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16
C BHABHA FIRST ORDER WAVE EQUATIONS - J. C. P. AND T.	22-3	CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARTIAN OBSTACLES.	18-5
PRESSURE DEPENDENCE OF T(C) IN THE (YTTRIUM,THORIUM) CARBIDE SYSTEM.	24-25	CALCULATIONS OF LASER INDUCED SPALL IN ALUMINUM TARGETS.	20-19
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2	NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31
C DIVISION C-DIVISION SOFTWARE BRANCH PROJECT HANDBOOK.	21-6	CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22
CABLE SEMIEMPIRICAL CABLE DESIGN.	10-89	ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON - NUCLEON SCATTERING.	26-3
CADMIUM VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	COUPLED NEUTRON - GAMMA MULTIGROUP, MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30
EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43	DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS.	25-34
CAFFEINE EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66
CALCIUM RADIATIVE CAPTURE OF FAST NEUTRONS BY CALCIUM -40.	25-99	PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84
CALCULATED TABLE OF CALCULATED NUCLEAR PROPERTIES.	25-113	CALIBRATION PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14
CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19	PHOTON SOURCES FOR INSTRUMENT CALIBRATION.	19-19
CALCULATION LATTICE MODEL CALCULATION OF HUGONOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30	NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION.	26-15
THEORETICAL CALCULATION OF ATOMIC SPIN -ORBIT PARAMETERS.	4-49	CALIFORNIUM MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM -254.	16-20
THOMAS-FERMI CALCULATION OF POTENTIAL BETWEEN ATOMS.	4-52	ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL ROD ASSAY SYSTEM.	26-7
CALCULATION OF EQUILIBRIUM COMPOSITIONS IN EXCHANGE REACTIONS.	7-2	CALLABLE SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56
CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS.	10-5	CALORIMETER CALORIMETER FOR USE AT 10.6 MICROMETRES.	20-20
CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI.	16-1	GAS CALORIMETER FOR USE AT 10.6 MICRONS.	20-47
CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2	CAMAC CAMAC AND RADIOTHERAPY.	5-13
CALCULATION OF FISSION BARRIERS.	16-3	CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTICRATE APPLICATIONS.	21-7
CALCULATION OF IONIZATION IN HYDRODYNAMICS CODES. 1. THEORY.	18-3	CAMERA STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.	20-130
CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4	CANCER MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-21	PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 -SEPTEMBER 30, 1974.	5-93
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	CANONICAL USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-146
CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21	CANYON DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15
LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION.	25-58	STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72
CALCULATIONAL APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-10		
CALCULATIONS FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20		

CAPACITIVE INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER.	10-46	TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-16
STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PTR COMPRESSION COIL.	10-99	SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16
CAPACITOR METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20	SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16
MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.	13-12	SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-18
CAPACITY ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM - PLUTONIUM DIOXIDE.	7-1	SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-18
CAPSULE MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-18
CAPTURE DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34	CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBONMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
ATOMIC CAPTURE OF NEGATIVE MESONS.	22-2	CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON -13.	14-2
CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
CAPTURE PROCESSES FOR NEGATIVE MESONS.	22-5	OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE -NITROGEN MIXTURES.	20-101
CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6	OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE -NITROGEN MIXTURES.	20-101
GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49	PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER.	20-103
ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7	PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105
PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92	WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS.	20-147
RADIATIVE CAPTURE OF FAST NEUTRONS BY CALCIUM -40.	25-99	CARBON DIOXIDE GAS LASER EXCITATION AND GAIN.	20-21
CARBIDE SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31
METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20	EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32
PRESSURE DEPENDENCE OF T(C) IN THE (YTTRIUM,THORIUM) CARBIDE SYSTEM.	23-25	EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33
STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-33	ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-36
CARBIDES THERMODYNAMIC PROPERTIES OF ACTINIDE CARBIDES.	7-20	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART I. DESIGN OF THE LASER 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38
CARBON DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48
VAN DER WAALS INTERACTIONS OF CARBON DIOXIDE.	4-55	GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-43
DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAEFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-29	HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52
EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44	INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER.	20-59
EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44	KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS.	20-60
EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -13 IN VIVO.	5-45	ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9
		OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-17
		CROSS SECTIONS FOR (PI+,PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10

METHOD OF FORMING MICRON SIZE, METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19	EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37
PROGRESS REPORT. RESEARCH ON CARBON ALUMINUM COMPOSITES. FEBRUARY 1 - JULY 31, 1974.	23-26	ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43
PROGRESS REPORT. RESEARCH ON CARBON ALUMINUM COMPOSITES. SEPTEMBER 1, 1973-JANUARY 31, 1974.	24-27	EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-46
BARE URANIUM (83) CARBON (170) ASSEMBLY.	24-1	HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49
ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-41	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6
CARBOXYMETHYLCOBALAM CARBON-13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1	ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60
CARRIER EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION, JULY 1, 1973 - JUNE 30, 1974.	5-7
CAS-A COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS-A.	3-2	NATURE OF CHROMOSOME INSTABILITY IN HETEROPOID CELL POPULATIONS.	5-75
CASK SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS.	13-17	PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1 - SEPTEMBER 30, 1974.	5-93
CATALOG PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-33	REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE.	23-28
CATALYZED FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4	KIWI B-1B CONTROL SYSTEMS. TEST CELL A.	30-18
CATION CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL-HYDROCHLORIC ACID.	2-2	CELLS SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109
CAUSE IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.	5-58	SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS	5-110
CAVITY ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43	DETECTION OF HETEROPOID TUMOR CELLS.	5-28
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73	DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-30
CCCC FOTITE: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22	DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-33
CCMS PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY. SEPTEMBER 17-19, 1974. LOS ALAMOS, NEW MEXICO.	11-24	DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-33
CELL SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE.	5-105	EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37
CELL CYCLE ANALYSIS IN TWENTY MINUTES.	5-14	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI.	5-15	EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39
CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40
CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16	FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
CELL PREPARATION AND STAINING FOR FLOW SYSTEMS.	5-17	FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48
CHAIRMAN'S CLOSING REMARKS. SESSION V: THE CELL SURFACE.	5-18	ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5
CHAIRMAN'S REMARKS. SESSION V: THE CELL SURFACE.	5-19	ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60
CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS.	5-21	LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.	5-63
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65
DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-33	MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.	5-72
		MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.	5-74
		OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-78

AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8	CHANGES	
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI	5-15
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99	CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION	5-16
TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	24-11	REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART 1. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13
CELLULAR MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.	5-68	HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM -238 DIOXIDE.	21-11
CEMENTED EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29
CENTER RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS.	25-100	CHANGING EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8
NATIONAL TRANSLATIONS CENTER.	30-22	CHANNEL NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF P1 MINUS BIOMEDICAL CHANNEL.	5-77
CERAMIC EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58
CERIUM STRUCTURE OF CERIUM METAL AT HIGH PRESSURE.	9-16	TUNING OF THE LAMPF LOW ENERGY PION CHANNEL.	22-58
METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18	CHARACTERIZATION STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55
CERMET STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V/O URANIUM DIOXIDE CERMET FUEL.	28-20	CHARGE PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES.	1-25
CERTIFICATION INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7	DIRECT CONVERTER BASED ON SPACE CHARGE EFFECTS.	20-29
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8	PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.	22-39
CESIUM VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.	4-50	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNA'S IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12	CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24
BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNA'S IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON, PROTON) LEAD -208.	25-45
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIDIUM).	9-3	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28.	25-79
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-80
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3	CHARGED ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3	NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24
CHAIRMAN'S CHAIRMAN'S CLOSING REMARKS. SESSION V: THE CELL SURFACE.	5-18	PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45
CHAIRMAN'S REMARKS. SESSION V: THE CELL SURFACE.	5-19	CHARGES L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15
CHAMBER CHAMBER STUDIES OF VISIBILITY REDUCING AEROSOLS.	17-6	CHEMICAL CHEMICAL REACTION DYNAMICS. PART 1. GEOMETRICAL STRUCTURE.	6-1
SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRE PROPORTIONAL CHAMBER DATA.	21-47	CHEMICAL REACTION NETWORKS.	6-2
CHAMBERS DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4	CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON -13.	14-2
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-5	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944.	17-21
		HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944.	17-22
		HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944.	17-23
		HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.	17-24

0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1	CHLORINE EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SP(6) IN NEUTRAL CHLORINE AND OTHER HALOGENS	4-10
LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION.	20-71	WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE ₀ II).	4-59
AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE ₀ II).	4-59
MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
ON DUPLICATE MEASUREMENTS IN THE CHEMICAL LABORATORY.	21-36	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES.	21-52	REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELMUT HABERLAND AND KONRAD SCHMIDT.	6-14
CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6	CHROMIUM SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR CESIUM LITHIUM METAL HEXACYANIDES: M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
CHEMICAL ASSAY OF PLUTONIUM FOR SAFEGUARDS.	26-5	KINETICS OF THE OXIDATION OF PLUTONIUM (III) TO PLUTONIUM(IV) BY CHROMIUM(VI).	6-9
TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	30-59	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIUM).	9-3
CHEMICALS SAFETY MANUAL, I-DIVISION, LASER RESEARCH AND TECHNOLOGY, SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2).	17-66	CHROMOSOME CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16
CHEMISTRY THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16	CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS.	5-21
STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15	CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22
CONTEMPORARY CHEMISTRY: CONCEPTS AND ISSUES.	7-3	NATURE OF CHROMOSOME INSTABILITY IN HETEROPOID CELL POPULATIONS.	5-75
QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AHA.	17-55	CHROMOSOMES MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.	5-68
PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105	CIRCUIT EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE ENERGY CIRCUIT.	10-29
CHERENKOV USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-148	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92
NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.	20-92	CIRCULAR IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51
CHINESE SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109	CIRCULATING SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85
SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110	CLADDING DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3
EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40	CLASS SHIPPING CONTAINER FOR PLUTONIUM-238 AS FISSILE MATERIAL CLASS 1.	13-18
FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48	SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-69
OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-79	CLASSES IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	CLASSICAL MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
CHLORIDE BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12	CLEANING DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13
UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	CLEBSCH-GORDAN DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2).	21-16
UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	CLEFT MAGNETOTAIL'S SURFACE LAYER AND THE CLEFT.	1-17
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27		
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27		

CLOSING			CODES		
CHAIRMAN'S CLOSING REMARKS. SESSION V: THE CELL SURFACE.			NEW TRANSPORT METHODS AND CODES.		18-17
	5-18		CALCULATION OF IONIZATION IN HYDRODYNAMIC CODES. 1. THEORY.		18-3
CLOUD			PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.		20-101
COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS-A.		3-2	NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.		20-92
CLOUDS			STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES. VERSION III.		28-19
MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.		1-20	COEFFICIENT		
OBSERVATIONS OF THE DEVELOPMENT OF STRIATIONS IN LARGE BARIUM ION CLOUDS.		1-22	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $O + H(2)$ YIELDS $OH + H$.		6-17
CLUSTER			COEFFICIENTS		
SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.		7-19	MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.		4-34
CLUSTERING			UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.		6-19
ON THE THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS		23-23	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.		20-39
THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.		23-37	ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.		20-9
COAL			OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.		20-97
PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.		13-16	DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF $SU(2)$		21-16
COATED			COEXISTENCE		
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.		2-6	DIRECT EVIDENCE FOR THE COEXISTENCE OF SUPERCONDUCTIVITY AND FERROMAGNETISM.		8-8
COATING			COHERENT		
APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRANEAN PLASMAGRAM.		11-2	COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.		4-6
SPHEROIDIZATION AND COATING OF LITHIUM DEUTERIDE.		23-32	COIL		
COBALT			250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCYLLAC EXPERIMENT.		10-1
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DI-CESIUM LITHIUM METAL HEXACYANIDES - $M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.$		4-45	STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PTR COMPRESSION COIL.		10-99
DEPENDENCE OF THE COBALT DISILICIDE SUPERCONDUCTING TRANSITION ON PREPARATION		8-5	COLD		
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.		25-20	COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.		13-2
CODE			LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.		20-78
CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.		18-4	COLLECTIVE		
LASER PULSE PROPAGATION CODE.		20-77	COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY.		20-22
PCFTR: A COMPUTER CODE TO CONVERT STANDARD CCC INTERFACE FILES TO PTR FILES.		21-22	COLLECTOR		
MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS.		21-31	DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.		12-3
MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.		21-32	RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.		12-6
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.		21-39	COLLISION		
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.		21-39	COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS-A.		3-2
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.		21-40	INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.		10-48
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.		21-40	COLLISIONLESS		
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.		21-41	THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.		20-137
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.		21-41	COLLISIONS		
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.		21-60	ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.		4-11
EVXS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.		25-46	EXCITATION TRANSFER IN NEON + NEON* COLLISIONS.		4-17
CODED			USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.		4-54
OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.		19-18	POLY-ATOMIC MOLECULAR RELAXATION IN THE ABSENCE OF COLLISIONS.		20-109

EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD	22-9
NAIVE VIEW OF HIGH ENERGY HADRON - NUCLEUS COLLISIONS	22-30	COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS	25-26
POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS.	25-91	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(++) + NEON TO KRYPTON(+) + NEON(++) WITH SOME SIMPLE THEORIES.	25-27
COLLOCATION RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES	21-43	FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES	27-4
COLUMN IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MINED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	COMPATIBILITY COMPATIBILITY OF HAFNIALLOYS 105 AND 150 WITH PLUTONIUM -238 DIOXIDE.	23-3
PLASMA COLUMN MOTION IN THE SCYLLAC TORUS.	10-71	COMPETITION COMMENTS ON ELIM2 COMPETITION IN GADOLINIUM -154.	25-25
PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN	20-114	COMPLETION ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS	16-7
COMBINATION DESIGN AND DEVELOPMENT OF A COMBINATION PULSE TRANSDUCER.	19-6	COMPLEX SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16
COMBINING MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34	COMPONENT HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS.	1-11
COMET HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUTEK (1953F)	1-12	BOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
DETECTION OF HYDROGEN CYANIDE IN COMET KOHOUTEK (1953F)	3-5	COMPONENTS MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS	2-11
COMMENTS COMMENTS ON LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS	18-6	SUB-CELLULAR PARTICLES OF CULTURED CHINESE HAMSTER CELLS RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109
COMMENTS ON ELIM2 COMPETITION IN GADOLINIUM -154.	25-25	IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR	22-22
COMMERCIAL SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM-TITANIUM IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN	8-31	COMPOSITE ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL -1.5 PERCENT IRON COMPOSITE	23-1
DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10	METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20
COMMISSION ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (JTPID). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION	0-20	RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	25-109
COMMITTEE LASEL STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE	25-56	COMPOSITENESS FIXED POLES AND COMPOSITENESS	22-16
COMMUNICATIONS COMPUTER GENERATED MOVIES. ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9	COMPOSITES PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES. FEBRUARY 1 - JULY 31, 1974.	23-26
COMPARATIVE COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS	5-23	PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES. SEPTEMBER 1, 1973-JANUARY 31, 1974.	21-27
COMPARATIVE ANALYSIS OF DEUTERIUM -TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6	COMPOSITION GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES	4-21
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION. DEHUMIDIFICATION AND SOLAR - RANKINE COOLING SYSTEM OPTIONS FOR A 6000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA -TITANIA COMPOSITION.	23-16
COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8	COMPOSITIONS CALCULATION OF EQUILIBRIUM COMPOSITIONS IN EXCHANGE REACTIONS.	7-2
COMPARISON COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL.	13-3	COMPOUNDS SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.	7-19
COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES	20-23	MAGNETIC PROPERTIES OF LAMINAR INTERMETALLIC COMPOUNDS.	29-1
CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11	COMPREHENSIVE OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.	14-13
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34	COMPRESSED THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM - TRITIUM MICROSPHERES.	20-138
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	22-8	COMPRESSIBILITY HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR	19-12

COMPRESSIBLE MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION.	18-13	COMPUTING ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS.	18-2
CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARTIAN OBSTACLES	18-5	CONCENTRATION FREE ENERGY IN CONCENTRATION SPACE	7-9
COMPRESSION STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PFR COMPRESSION COIL	10-99	IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12
TARGET COMPRESSION WITH ONE BEAM.	20-136	CONCENTRATIONS ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS.	3-8
GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49	CONCENTRIC CONCENTRIC AEROSOL SPECTROMETER.	17-7
COMPRESSIONS METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION	9-13	CONCENTRIC AEROSOL SPECTROMETER	19-2
REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE	23-28	CONCEPT LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73
COMPUTATION COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7	CONCEPTS CONTEMPORARY CHEMISTRY: CONCEPTS AND ISSUES.	7-3
ERROR ANALYSIS OF A COMPUTATION OF EULER'S CONSTANT	21-19	CONCEPTUAL CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.	10-7
STILL ANOTHER METHOD FOR PHASE-SHIFT COMPUTATION	27-16	CONCEPTUAL DESIGN OF A COHING SUBTERRANE GEOPROSECTOR.	11-4
COMPUTATIONAL RECENT ADVANCES IN COMPUTATIONAL FLUID DYNAMICS	18-23	CONCEPTUAL DESIGN OF A HEAT PIPE METHANATOR.	30-8
COMPUTATIONAL LASER SYSTEM STUDIES.	20-24	CONCORDE CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE	3-3
COMPUTATIONS SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS.	21-54	TEMPORAL OBSERVATIONS OF THE LAMBDA 508 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32
COMPUTE NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37	CONCRETE MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66
COMPUTED COMPUTED ENERGY GAP IN KRYPTON.	4-7	NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75
COMPUTER COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS	5-24	CONDENSATION CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16
COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T ⁺ + METHANE) AND (T ⁺ + DEUTEROMETHANE) SYSTEMS.	6-4	PION CONDENSATION IN AN INTERACTING NEUTRON GAS.	22-40
ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES	6-6	COMMENT ON PION CONDENSATION	22-7
EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8	CONDENSED DETERMINATION OF CONDENSED PHASE KINETICS CONSTANTS.	6-5
KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS.	18-12	CONDUCTANCE OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT.	8-22
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET	20-144	ELECTRICAL CONDUCTANCE OF A CONFINED ARC DISCHARGE.	10-16
APPLICATIONS OF COMPUTER GENERATED PERSPECTIVE PLOTS.	21-1	CONDUCTION INTERPLANETARY HEAT CONDUCTION IMP-7 RESULTS.	1-14
AVER HEAT CONDUCTION COMPUTER PROGRAM.	21-2	EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41
ECFTR: A COMPUTER CODE TO CONVERT STANDARD CUCC INTERFACE FILES TO PFR FILES.	21-22	INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA	21-25	AVER HEAT CONDUCTION COMPUTER PROGRAM.	21-2
PLACH: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	CONDUCTIVE RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27
COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS	21-9	CONDUCTIVITY INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY.	18-11
COMPUTER SIMULATION OF TACTICAL NUCLEAR WARFARE.	30-7	ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10
COMPUTERIZED COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3	ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT.	27-33
OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.	13-15	CONDUCTOR CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION.	8-4
COMPUTERIZED INVENT ² RY DESIGN SYSTEM FOR GRAPHITE MOLDS:	21-10		
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8		

CONE THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY	20-137	CONSTANT PROTON - OXYGEN -17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER	14-4
CONFERENCE TRANSIENT COSMIC GAMMA AND X RAY SOURCES. 1973. CONFERENCE. LOS ALAMOS. NML PROCEEDINGS.	3-35	ERROR ANALYSIS OF A COMPUTATION OF EULER'S CONSTANT	21-19
CONFIGURATION EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SPIN IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10	CONSTANTS POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM AND PLATINUM.	4-40
ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12	VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYNIDE	4-56
CONFINED ELECTRICAL CONDUCTANCE OF A CONFINED ARC DISCHARGE.	10-16	DETERMINATION OF CONDENSED PHASE KINETICS CONSTANTS	6-5
MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS	10-57	CONSTITUENTS REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102
METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.	15-4	CONSTRAINTS TACTICAL NUCLEAR WEAPONS OBJECTIVES AND CONSTRAINTS.	30-56
CONFINEMENT SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH	10-100	CONSTRICTED NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES	5-78
TWO SPECIES VLASOV CONFINEMENT EQUILIBRIA.	10-112	CONSTRUCTION SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100
NUMERICAL SIMULATION OF RF CONFINEMENT.	20-94	LAST QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION	13-11
METAL VAPOR CONFINEMENT IN VACUUM.	27-10	CONTAINER SHIPPING CONTAINER FOR PLUTONIUM -238 AS FISSIONABLE MATERIAL CLASS 1	13-18
CONFORMAL NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34	COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL	13-3
CONFORMATION CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5' PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE	14-3	SHIELDED SHIPPING CONTAINER FOR FISSIONABLE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-69
CONJUGATE L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARUM SHAPED CHARGES	1-15	CONTAINERS INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION	13-7
CONJUGATION QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96	INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8
CONSERVATION TEST OF PARITY CONSERVATION IN PROTON -PROTON SCATTERING.	25-115	CONTAINS MULTIPLICITY REDUCTION THEOREM SU(3) CONTAINS R(3).	21-33
TEST OF PARITY CONSERVATION IN PROTON -PROTON SCATTERING.	25-116	CONTAMINANTS MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.	17-28
APPROACH TO ENERGY SYSTEMS ANALYSIS AND CONSERVATION.	30-5	MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-29
CONSERVED MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT.	22-28	CONTAMINATED PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-43
MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT.	22-28	CONTAMINATION NUCLEAR EXPLOSION 16 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30
CONSIDERATIONS DESIGN CONSIDERATIONS FOR A HIGH PRESSURE. EQUATION OF STATE EXPERIMENT.	4-9	PROBLEM OF LARGE AREA PLUTONIUM CONTAMINATION.	17-48
ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES.	10-18	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JANUARY - JUNE 1974.	17-49
LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JULY - DECEMBER 1973.	17-50
ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.	17-17	CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY.	17-8
ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS.	20-40	CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1973.	17-9
GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46		
RECRITICALITY CONSIDERATIONS IN LMFB (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	28-17		
CONSISTENCY CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	25-28		
CONSTANCY CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22		

CONTAMINATIONS ABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
CONTEMPORARY CONTEMPORARY CHEMISTRY CONCEPTS AND ISSUES.	7-3	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASI. 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38
CONTENT UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35	ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS.	20-40
FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48	LASER CONTROLLED THERMONUCLEAR REACTOR DESIGN PROBLEMS.	20-46
ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2	LASER CONTROLLED THERMONUCLEAR REACTOR MATERIALS REQUIREMENTS.	20-67
CONTINGENCIES CONTINGENCIES AND RISK CONTROL. PANEL DISCUSSION.	17-10	LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES.	20-68
CONTINUATION CONTINUATION OF FUNCTIONS BEYOND NATURAL BOUNDARIES.	27-1	CONVECTION PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.	8-30
CONTINUITY CURRENT CONTINUITY IN DENSE PLASMA.	10-8	CONVECTIVE NUMERICAL STUDY OF TURBULENCE TRANSITIONS IN CONVECTIVE FLOW	18-21
CONTINUOUS COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTECTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	CONVERGENCE EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2
CONTINUOUS IN LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT.	26-6	CONVERSION STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127
CONTINUUM EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SPIN IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10	NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION.	20-381
CONTRAST USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17	CONVERT FCFTR: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22
CONTRIBUTION DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	CONVERTER DIRECT CONVERTER BASED ON SPACE CHARGE EFFECTS.	20-29
SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON - NUCLEON SCATTERING.	25-104	HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.	26-4
CONTRIBUTIONS EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-11	CONVERTING PROSPECTS FOR CONVERTING THORIUM -232 -URANIUM -233 IN A LINEAR THETA PINCH.	10-81
CONTROL CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES.	12-2	COOLED NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17
CONTINGENCIES AND RISK CONTROL. PANEL DISCUSSION.	17-10	INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	26-6
TOWARD CONTROL OF SELF FOCUSING	20-143	COOLING THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES.	1-18
SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56	HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39
ACTIVATION CONTROL AT LAMPE	22-1	COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 60000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13	FAILURE OF COOLING TOWER LOBCT-1.	13-4
KIWI B-B CONTROL SYSTEMS. TEST CELL A.	30-18	URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING	21-39
CONTROLLED CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.	10-7	COOPERATIVE COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25
POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-74	COORDINATE COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX	25-29
PROGRESS REPORT LASI CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973.	10-79	COORDINATES TRANSPORT EQUATION IN MODIFIED EULERIAN COORDINATES	18-30
ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-36		

COORDINATION QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.	21-39	COSMIC NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.	21-40	OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 1.	3-19
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	21-41	PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-23
		REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29
COPPER CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30
		SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	TRANSIENT COSMIC GAMMA AND X RAY SOURCES. 1973. CONFERENCE. LOS ALAMOS, NM. PROCEEDINGS.	3-35
COPYING COPYING LENS FOR MICROFILM PHOTOGRAPHY.	19-3	COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4
CORE FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20	DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	1-7
TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE RED SOFT CORE POTENTIAL.	25-119	COST OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM	13-143
TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE RED SOFT CORE POTENTIAL.	25-120	COULOMB SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-103
CORING CONCEPTUAL DESIGN OF A CORING SUBTERRANE GEOPROSPECTOR.	11-4	PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT.	25-94
CORONA ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1	COUNCIL REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS	17-65
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14	COUNTERS LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15	UPANUM -25 ENRICHMENT DETERMINATION USING HELIUM -4 PROPORTIONAL COUNTERS.	19-24
POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	COUNTY STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72
QUIET CORONA: TEMPERATURE AND TEMPERATURE GRADIENT	3-26	COUPLED COUPLED NEUTRON - GAMMA MULTIGROUP MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/DT DIVISION.	25-40
TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE.	3-36	COUPLING AB INITIO POTENTIAL CURVES FOR THE NEON (3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2
CORONAL CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE.	3-3	GROUND AND EXCITED STATES OF NEON(2s) AND NEON(2s+1) POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22
CORPUSCLE CORPUSCLE - IN - MEDIA SIMULATION OF NONLINEAR OPTICAL PROBLEMS.	20-25	PROTON - OXYGEN -17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4
CORRELATION DEVELOPMENT OF THE OSO 6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES	3-6	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON, PROTON) LEAD -208.	2-43
NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS - CORRELATION WITH MOLECULAR PROCESSES	4-38	COUPLINGS MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT.	22-28
THEORY OF ELECTRON CORRELATION IN METALS	4-50	COVALENT INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56
HYDRODYNAMIC THEORY CORRELATION FOR 72 HELIUM EVAPORATORS.	8-16	COVERAGE HIT: A MONTE CARLO TARGET COVERAGE ROUTINE.	21-27
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	CREATION CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON - HELIUM -3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.	25-68	CRITICAL SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM/90TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-41
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5
CORRELATIONS CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.	1-6	METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY.	24-5
		ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.	26-1

CRITICALITY PRINCIPLES OF SAFETY. SAFETY IN GENERAL. CRITICALITY RISK IN PERSPECTIVE.	17-46	CROWBAR DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN CROWBAR SWITCH.	10-12
CRITICALITY EXPERIMENTS AND DATA.	24-2	CRYOENGINEERING ENERGY AND CRYOENGINEERING.	8-11
CROSS POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41	CRYOGENICS CRYOGENICS SAFETY IN A HYDROGEN FUEL SOCIETY.	17-11
TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-108	CRYSTAL INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	4-28
KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50	SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
KINK INSTABILITIES IN ARBITRARY CROSS SECTION PLASMAS.	10-51	PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH ₄ UF ₆ , AMMONIUM PENTAFLUORO URANATE(IV).	9-15
SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90	BONDING IN MID/ TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2
SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIUM).	9-3
NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1' - AZOBISCARBAMIDE.	9-4
MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6- TRIAMINO-S-THIAZINE.	9-5
CROSS SECTIONS FOR (PI+,PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10	DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION.	9-6
LIQUID HELIUM -II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS.	22-24	METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.	16-22
REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102	DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	21-4
TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118	EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-39
VARIOUS CROSS SECTIONS FOR A LESS THAN OR EQUAL TO 3 NUCLEI	25-122	CRYSTALLINE VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM PEROXYCARBAMIDE.	4-56
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH ED ₀ FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH ED ₀ FROM 6 TO 16 MEV.	25-2	RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK.	11-25
CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21	EQUILIBRIUM TEMPERATURE MEASUREMENTS IN CRYSTALLINE ROCKS.	11-7
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22	CTR ON CTR BREAKDOWN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES.	10-64
COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(++) + NEON TO KRYPTON (++) + NEON(++) WITH SOME SIMPLE THEORIES.	25-27	PREDICTION OF FAILURES IN CTR SYSTEMS.	10-75
COUPLED NEUTRON - GAMMA MULTIGROUP -MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30	LASER CTR SYSTEM STUDIES.	20-69
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 11.5 AND 14.9 MEV.	25-31	NEUTRON FLUX SPECTRA AT LAMPF FOR CTR RADIATION DAMAGE STUDIES.	22-32
CROSS SECTIONS OF URANIUM -235 AND PLUTONIUM -239 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32	CUBIC SOME APPROXIMATION RESULTS FOR HERMITE CUBIC SUBSPACES.	21-53
ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	CULTURE OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-79
EYNS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	CULTURED SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109
FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
NEUTRON INDUCED FISSION CROSS SECTION OF URANIUM -235.	25-53	EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39
NEUTRON SCATTERING CROSS SECTION OF GOLD -197.	25-54	ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-58	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8	PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90
CROSSING SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44		

CUMULATIVE FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM-235 AND URANIUM-238	16-16	DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE	4-8
CUTFERRON MODIFIED CUTFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM	2-12	VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMINE CYANIDE IN EXCESS XENON	6-20
CURRENT EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AXIAL SPIRAL	1-8	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIDIUM)	9
OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT	8-22	CYANIDES BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DI-CESIUM MAGNESIUM IRON HEXACYANIDE	9-2
SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM-TITANIUM IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN	8-51	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIDIUM)	9-3
DIAGNOSTIC CURRENT MEASUREMENTS IN THE SCYLLAC TORUS	10-44	CYANOGEN FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES	4-19
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE	10-58	DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE	4-8
CURRENT CONTINUITY IN DENSE PLASMA	10-8	VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMINE CYANIDE IN EXCESS XENON	6-20
EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES	22-34	CYCLE ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974	2-3
K(+)- TO P(+)- GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-23	SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE	5-105
K(+)- TO P(+)- GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-23	CELL CYCLE ANALYSIS IN TWENTY MINUTES	5-14
MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT	22-28	CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI	5-15
MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT	22-28	CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION	5-16
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT	25-22	DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE	5-13
CURRENTS STABILITY OF THE ZT 1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS	10-97	EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS	5-17
CURVE SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM	4-44	ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR REFERENCE THETA PINCH REACTOR BURN CYCLE	10-25
BOOK REVIEW: THE CURVE OF BINDING ENERGY BY J. MCPHEE AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLIAMS AND T. B. TAYLOR	26-3	CYCLIC CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5'- PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE	14-3
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLIAMS AND T. B. TAYLOR	26-4	CYCLOTRON THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING	10-105
CURVES AB INITIO POTENTIAL CURVES FOR THE NEON (+8) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING	4-2	CYLINDERS SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS	23-30
GROUND AND EXCITED STATES OF NEON(2-) AND NEON(2+). I. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING	4-22	MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS	26-14
LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES	4-30	CYLINDRICAL CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS	10-5
POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON	4-41	THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY	20-137
CW CW LASER DENSITY MEASUREMENTS ON SCYLLAC	10-9	CYSTIC PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS	5-85
MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER	20-84	CYTOPLASMIC AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS	5-8
CYANIDE HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUEK (1973F)	3-12		
DETECTION OF HYDROGEN CYANIDE IN COMET KOHOUEK (1973F)	3-5		
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE	4-57		

D		
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN BY ULTRAVIOLET LIGHT.	5-55	
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN BY ULTRAVIOLET LIGHT.	5-55	
PREPARATION AND PROPERTIES OF THE POLYMERS DAICIN-DUCTIN AND DIACIN-DIGCTIN.	5-59	
PREPARATION AND PROPERTIES OF THE POLYMERS DAICIN-DUCTIN AND DIACIN-DIGCTIN.	5-59	
BUILDING D PLUTONIUM RECOVERY PROCESS.	23-2	
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH E(d) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH E(p) FROM 6 TO 16 MEV.	25-2	
MEASUREMENT OF THE DEPOLARIZATION PARAMETER (ATHETA) FOR PROTON(+)-NITROGEN -14 SCATTERING NEAR 16 MEV.	25-65	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45	
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51	
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52	
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53	
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54	
D-D		
ATTEMPTED INTENSE D-D NEUTRON SOURCE.	25-46	
DADN		
PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL-3,7-DINITRO 1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMN.	15-6	
DAMAGE		
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T 1).	5-99	
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-120	
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-121	
DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES.	20-26	
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27	
NEUTRON FLUX SPECTRA AT LAMP FOR CTR RADIATION DAMAGE STUDIES.	22-32	
THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE.	23-36	
DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	23-4	
DAMPING		
THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING.	10-105	
DATA		
COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4	
FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33	
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.	16-19	
RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61	
HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR.	19-12	
OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	19-18	
DATA ACQUISITION SOFTWARE FOR A MWPC SPECTROMETER.	21-12	
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA.	21-25	
MULTI: A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32	
SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRED PROPORTIONAL CHAMBER DATA.	21-47	
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.	21-60	
RELEVANCE OF SOME RECENT NEUTRON - PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES.	22-52	
FORTRAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSIS DATA REDUCTION.	23-10	
CRITICALITY EXPERIMENTS AND DATA.	24-2	
APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-10	
REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, APRIL 1 THROUGH JUNE 30, 1974.	25-11	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JANUARY 1 THROUGH MARCH 31, 1974.	25-12	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15	
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	25-28	
ANALYSIS OF ZPPR/FTR-2 TLD MEASUREMENTS USING ENDF/B-III DATA.	25-4	
ELASTIC AND INELASTIC CROSS SECTION FOR EL-MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	
EVXS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	
LAST STATUS REPORT TO THE U.S. NUCLEAR DATA COMMITTEE.	25-56	
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DATA ON DIFFERENTIAL CROSS SECTION DATA.	25-75	
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-81	
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-81	
ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	
INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6	

DAVIS NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-28
DC PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974.	8-25
PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-26
PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION.	8-4
DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7
LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE.	13-10
DCO DCO SAFETY.	15-1
DEADTIME LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
DECAY NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-95
$K^0 \rightarrow \pi^0 \pi^0$ GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-23
METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY.	24-5
SPONTANEOUS DECAY OF THE $3s\Sigma^+g(1^+)$ STATE OF XENON -2	25-107
TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY	25-117
BRANCHING RATIO FOR THE DECAY OF IODINE -135 TO THE ISOMERS OF XENON -145.	25-18
DECAY OF 75 SEC METASTABLE DYSPROSIUM -165.	25-43
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180	25-9
STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K^{1+} DECAY	27-17
DECAYS $K^0 \rightarrow \pi^0 \pi^0$ GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-24
MESON DECAYS AND THE DKP (DUFFIN-KEMMER-PETIAU) EQUATION	25-69
DECOMPOSITION INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY	18-11
DEDUCED NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD -208 MEASUREMENTS.	27-35
DEEP RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK	11-25
DEFENSE REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-45
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8
DEFINITION MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA	16-23
DEFORMATIONS EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS	22-13
DEGRADATION DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
DEGRADATION OF A LASER MEDIUM DUE TO IONIZATION BY A LASER PULSE.	20-28
DEHUMIDIFICATION COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
DELAY LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-5
DELAYED PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27
EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM -235	16-6
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV	25-31
DELIVERY MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
DELTA DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE	4-8
DEMOLITION DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.	17-12
DENSE SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6).	10-102
CURRENT CONTINUITY IN DENSE PLASMA.	10-8
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS	20-74
DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS.	25-34
DENSITIES BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12
OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.	10-63
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56 COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20
DENSITY EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE	1-10
FLOW MICROFLUORIMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.	10-35
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-58
CW LASER DENSITY MEASUREMENTS ON SCYLLAC.	10

ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10	DEPOSITION CHARACTERISTICS OF ENERGY DEPOSITION BY PIONS.	5-20
EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER.	20-34	HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS	23-12
SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS	23-30	DEPRESSIONS SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES. EVIDENCE FOR MAGNETIC MERGING	1-29
RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101	DEPTH UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113
DEOXYRIBONUCLEIC INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-55	DERIVATIVE CARBON-13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBONYLMETHYLCOBALAMIN. AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8	CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1
DEOXYRIBONUCLEOSIDE EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40	DERIVATIVES DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
DEOXYRIBOSYL INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS.	5-57	SYNTHESIS OF 3,3',5,5'-TETRANITRO-2,2'-AZOPYRIDINE AND SOME PICRYLAZO DERIVATIVES OF 3,5-DINITROPYRIDINE.	15-12
DEPARTMENT (INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION FOR CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7	DERIVED ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOETIES DERIVED FROM METHIONINE	5-59
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION FOR CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8	MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66
DEPENDENCE DEPENDENCE OF THE COBALT DISILICIDE SUPERCONDUCTING TRANSITION ON PREPARATION.	8-5	STRUCTURE OF KRYPTON-88 DERIVED FROM THE KRYPTON-86(THITON,PROTON) KRYPTON-88 REACTION.	25-109
BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-3	PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84
ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON-216	16-5	DESIGN DESIGN CONSIDERATIONS FOR A HIGH PRESSURE, EQUATION OF STATE EXPERIMENT.	4-9
DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.	17-14	DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
PRESSURE DEPENDENCE OF T(C) IN THE (YTTRIUM,THORIUM) CARBIDE SYSTEM.	23-25	DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-10
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM-3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON	25-2	DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT.	10-11
TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE	29-3	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-19
DEPENDENT MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION	10-20
RELEVANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12	SEMIEMPIRICAL CABLE DESIGN.	10-85
CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI.	5-15	SUBTERRANEAN ELECTRICAL HEATER DESIGN AND MORPHOLOGY.	11-30
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-55	CONCEPTUAL DESIGN OF A CORING SUBTERRANEAN GEOPROPECTOR.	11-4
COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7	CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES.	12-2
RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101	DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13
DEPLETED ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.	17-17	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34	DESIGN AND DEVELOPMENT OF A COMBINATION PULSE TRANSDUCER.	19-6
DEPOLARIZATION MEASUREMENT OF THE DEPOLARIZATION PARAMETER (DTHETA) FOR PROTON-14 NITROGEN-14 SCATTERING NEAR 16 MEV.	25-65	DESIGN OF ALBEDO NEUTRON DOSIMETERS.	19-7
		ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
		ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38

ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS.	20-40	UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19
GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46	PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.	8-29
LASER AMPLIFIER DESIGN.	20-64	DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION.	9-6
LASER AMPLIFIER DESIGN.	20-65	FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-41
LASER CONTROLLED THERMONUCLEAR REACTOR DESIGN PROBLEMS.	20-66	COMPARATIVE ANALYSIS OF DEUTERIUM -TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6
COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS.	21-10	TAMPED THERMONUCLEAR BURN OF DEUTERIUM -TRITIUM MICROSPHERES.	20-135
INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN	21-28	THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM - TRITIUM MICROSPHERES.	20-138
CONCEPTUAL DESIGN OF A HEAT PIPE METHANATOR.	30-8	THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM - TRITIUM SPHERES.	20-139
DESIGNS EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20	BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-17
DESTRUCTION MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67	BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-18
OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT.	8-22	HYDRODYNAMICS AND BURN OF OPTIMALLY IMPOLED DEUTERIUM - TRITIUM SPHERES.	20-54
DETECTING CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1	IMPLOSION CHARACTERISTICS OF DEUTERIUM -TRITIUM SPHERES FOR LASER FUSION.	20-55
DETECTION DETECTION OF HYDROGEN CYANIDE IN COMET KOHOUTEK (1973F).	3-5	LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER.	20-76
DETECTION OF HETEROPLD TUMOR CELLS.	5-28	DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37
DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-29	R MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM	25-95
IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.	5-53	R MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM	25-95
APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6	DEUTEROMETHANE THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16
APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION, JULY 1, 1973 - JUNE 30, 1974.	5-7	COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-4
HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11	DEUTERON FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON,PROTON - FISSION), (HELIUM -3,DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON,ALPHA -FISSION; STUDIES.	16-10
DETECTOR DEVELOPMENT OF THE OSO 6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
ELLIPOSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43	OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION.	22-36
IDENTIFYING MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS.	22-20	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV.	25-123
DETONATION MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION.	18-13	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV.	25-123
DETONATION INDUCED TWO DIMENSIONAL FLOWS.	18-8	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH E/D FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH E/P FROM 6 TO 16 MEV.	25-2
DETONATIONS EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE.	18-9	CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21
DEUTERIDE X RAY SPECTROGRAPHIC DETERMINATION OF IRIIDIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
SPHEROIDIZATION AND COATING OF LITHIUM DEUTERIDE.	23-32	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
DEUTERIUM HUGONIOT EQUATIONS OF STATE OF LITHIUM -HYDROGEN -6, LITHIUM - DEUTERIUM -6, LITHIUM - HYDROGEN -N, AND LITHIUM -DEUTERIUM -N.	4-25	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM -4 AND HELIUM -4 (DEUTERON,PROTON) HELIUM -4 REACTIONS.	25-47
REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART I. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13		
REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14		

MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON - HELIUM -3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.	25-68	DIFFERENCE CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	23-11
POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON,NEUTRON) HELIUM -3 REACTION AT 10 MEV.	25-85	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON,NEUTRON) HELIUM -3 REACTION AT 10 MEV.	25-85	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8
POLARIZATION TRANSFER IN HELIUM -3 (DEUTERON,DEUTERON) HELIUM -3 ELASTIC SCATTERING.	25-87	TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	24-11
POLARIZATION TRANSFER IN HELIUM -3 (DEUTERON,DEUTERON) HELIUM -3 ELASTIC SCATTERING.	25-87	MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION.	24-7
POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON,NEUTRON) HELIUM -3 REACTION.	25-89	DIFFERENCES ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1
DEUTERONS DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-77	HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND.	1-10
DEVICES PLUTONIUM -238 FUELS FOR POWERING MEDICAL DEVICES.	5-86	DIFFERENTIAL DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-30
GEO THERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRANEAN DEVICES: A STATUS REVIEW.	11-13	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6
IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES.	15-3	SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES.	21-52
NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH E(0) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH E(0) FROM 6 TO 16 MEV.	25-2
PERSONAL PROTECTIVE DEVICES.	17-39	CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	25-28
DI COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HFV(1) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-3	NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-78
COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HFV(1) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-3	DIFFRAC TION LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 111) VICINAL SURFACES.	9-11
DIAGNOSIS APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6	METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13
DIAGNOSTIC PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94	DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION.	9-6
DIAGNOSTICS OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98	REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES.	20-116
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-99	DIF FUSE EQUILIBRIUM AND STABILITY OF L = 1 HELICALLY SYMMETRIC, FINITE BETA, DIF FUSE PLASMAS.	10-24
DIAMETERS QUASI-STARLLAR DIAMETERS AND INTENSITY FLUCTUATIONS.	2-25	MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIF FUSE TWO DIMENSIONAL EQUILIBRIA.	10-39
DIATOMIC EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18	STABILITY OF DIF FUSE HIGH BETA HELICAL SYSTEMS.	10-96
DIBORIDE LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIBORIDE.	9-12	DIF FUSION IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIF FUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51
DICENSIUM SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICENSIUM (LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM).	4-45	SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIF FUSION PROCESSED NIOBIUM/0.1% TiN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31
BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICENSIUM MAGNESIUM IRON HEXACYANIDE.	9-2	PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIF FUSION HEATING.	10-78
DIELECTRIC DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	TRANSPORT EQUATION IN AN ACCELERATED MATERIAL. LEGENDRE MOMENTS AND A DIF FUSION APPROXIMATION.	10-29
DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES.	20-26	NEW THEORY FOR IMPURITY DIF FUSION IN METALS.	23-22
		DIGITAL DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY.	21-13
		DIGRAPHS DISTANCE IN GRAPHS AND DIGRAPHS.	2-17
		DIHYDRIDE FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4
		DILATION DILATION AND THE SLIP-PATCH HYPOTHESIS.	11-6

DIMENSION COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9	PARAMETRIC STUDY OF AN ULTRA-VIOLET PREIONIZED CARBON DIOXIDE LASER.	20-103
DIMENSIONAL TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113	WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS.	20-147
MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA.	10-59	CARBON DIOXIDE GAS LASER EXCITATION AND GAIN	20-21
DETONATION INDUCED TWO DIMENSIONAL FLOWS.	18-8	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20-104	EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144	EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-72
MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87	EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33
NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-95	ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS	20-36
RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES: STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38
RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PACKING MODEL.	27-11	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39
DINITRO PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL -3,7- DINITRO -1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.	15-6	GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48
DINITROPYRIDINE SYNTHESIS OF 3,3',5,5'- TETRANITRO -2,2'-AZOPYRIDINE AND SOME PIRYLAZO DERIVATIVES OF 3,5- DINITROPYRIDINE.	15-12	GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49
DIOXIDE SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM IN PLUTONIUM DIOXIDE.	2-16	HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7	INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER.	20-59
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8	KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS.	20-60
VAN DER WAALS INTERACTIONS OF CARBON DIOXIDE.	4-55	ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 1. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -238 DIOXIDE MICROSOPHERS IN BEAGLES.	5-10	OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 4. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -238 DIOXIDE MICROSOPHERS IN BEAGLES.	5-10	HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM -238 DIOXIDE.	23-11
ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM - PLUTONIUM DIOXIDE.	7-1	PERFORMANCE CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24
RADIATION CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCES.	7-12	RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29
PREPARATION OF PLUTONIUM -238 (OXYGEN -16) DIOXIDE.	7-8	COMPATIBILITY OF HAFNIALLOYS 105 AND 150 WITH PLUTONIUM -238 DIOXIDE.	23-3
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VICINAL SURFACES.	9-11	SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS.	23-30
EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM -238 (80 PER CENT) DIOXIDE.	9-7	FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8
INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.	17-26	SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	23-18
PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40	STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V/O URANIUM DIOXIDE CERMET FUEL.	28-20
STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSOPHERS IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73	URANIUM DIOXIDE EQUATION OF STATE FOR LMFBF (LIQUID METAL FUELED) BREEDER REACTOR) EXCURSION ANALYSIS.	28-21
STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSOPHERS IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73	DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3
OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100	DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3
		IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS.	30-15
		DIPOLE OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-80

DIRECT DIRECT EVIDENCE FOR THE COEXISTENCE OF SUPERCONDUCTIVITY AND FERROMAGNETISM.	8-8	DISCUSSION CONTINGENCIES AND RISK CONTROL. PANEL DISCUSSION.	17-10
DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-47
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LAST 1 KJ AND 20 KJ CARBON DIOXIDE LASERS.	20-38
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13	DISEASE RECENT DEVELOPMENTS IN DISEASE SURVEILLANCE METHODS FOR POULTRY	5-109
DIRECT CONVERTER BASED ON SPACE CHARGE EFFECTS.	20-29	DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES.	5-31
NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION.	20-93	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-46
DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS.	21-14	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-46
DIRECT SOLUTION OF THE DISCRETE BIHARMONIC EQUATION.	21-15	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION. JULY 1, 1973 - JUNE 30, 1974.	5-7
DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2).	21-16	DISILICIDE DEPENDENCE OF THE COBALT DISILICIDE SUPERCONDUCTING TRANSITION ON PREPARATION.	8-5
DIRECTIONAL DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMEETER INSTRUMENTS.	17-14	DISK PLUTONIA AERODYNAMIC DISK (PAD). SUMMARY REPORT.	13-15
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	DISLOCATION INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	DISPERSION DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15
DIRECTORATE RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS. JANUARY 1 THROUGH DECEMBER 31, 1973.	17-47	DISPERSIONS METHOD OF FORMING MICRON SIZE METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	24-19
DISC MODULAR DISC LASER.	20-85	DISPLACEMENT TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111
DISCHARGE ELECTRICAL CONDUCTANCE OF A CONFINED ARC DISCHARGE.	10-16	METHODS OF TREATMENT OF DISPLACEMENT INTEGRAL EQUATIONS.	24-6
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-58	DISSIPATION APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1
INVESTIGATIONS OF A CV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER.	25-59	DISSIPATION IN THE FLOWING SATURATED SUPERFLUID FILM.	8-10
KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	23-61	HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY.	8-15
OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97	COMMENT ON: NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM	8-2
DISCHARGES TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140	DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9
EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	DISSOLUTION SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
DISCONTINUITY OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT.	8-22	DISSOLUTION OF PLUTONIUM -238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS.	17-16
DISCRETE BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	DISTANCE DISTANCE IN GRAPHS AND DIGRAPHS.	21-17
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50	DISTANCES DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	3-7
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62	DISTILLATION EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7
DIRECT SOLUTION OF THE DISCRETE BIHARMONIC EQUATION.	21-15	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8
DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3		

DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN.	5-32	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26
DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOR CELLS IN MICE.	5-33	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29
DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34	HEALTH SAFETY REPORT. CHEMICAL AND METALLURGICAL DIVISION. JULY 1944.	17-21
IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.	5-32	HEALTH SAFETY REPORT. CHEMICAL AND METALLURGICAL DIVISION. JUNE 1944.	17-22
RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97	HEALTH SAFETY REPORT. CHEMICAL AND METALLURGICAL DIVISION. MARCH 1944.	17-23
UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION.	9-19	HEALTH SAFETY REPORT. CHEMICAL AND METALLURGICAL DIVISION. MAY 1944.	17-24
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE.	10-58	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JANUARY 1 THROUGH JUNE 30, 1974.	17-52
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JULY 1 THROUGH DECEMBER 31, 1973.	17-53
DISTRIBUTION OF AN ARBITRARY STUDENTIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18	COUPLED NEUTRON - GAMMA MULTIGROUP - MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION	25-30
NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31	DKP MESON DECAYS AND THE DKP (DUFFIN-KEMMER-PETIAU) EQUATION.	25-49
DISTRIBUTIONS UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-34	DNA CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22
ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40
UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113	FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48
MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66	INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-53
COMMENT ON MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. $4. F + HF(V) \rightarrow HF(V) + F$ AND $F + DF(V) \rightarrow DF(V) + F$	6-3	INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-55
GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49	MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66
MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238.	25-63	MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.	5-68
ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7	AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	26-3	DNA'S BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNA'S IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12
DISTURBANCE NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20	DOGS COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23
DISULFIDE TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18	DOORS KILOTON SHIELD DOORS AT LAMPF.	13-9
DIVALENT ON DIVALENT AMERICIUM IN MOLTEN SALT/ MOLTEN PLUTONIUM SYSTEMS.	7-7	DOSAGE NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PI MINUS BIOMEDICAL CHANNEL.	5-77
DIVERSION PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-26	DOSE UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-27	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23
DIVISION ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION. JANUARY THROUGH DECEMBER 1973.	5-3	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25	DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26	DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27		

IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.	5-52	DRIVER NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	24-17
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62	DROP MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA.	16-21
RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97	DROPLET CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	15-2
KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.	30-19	DRY LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM.	11-19
KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENT.	30-20	POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES	11-22
DOSES RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101	PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62	COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2
DOSIMETER PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER.	17-35	DUAL DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36
DOSIMETERS DESIGN OF ALBEDO NEUTRON DOSIMETERS.	19-7	DUFFIN-KEMMER-PETIAU MESON DECAYS AND THE DKP (DUFFIN-KEMMER-PETIAU) EQUATION.	25-59
DOSIMETRY MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69	STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K-13 DECAY.	27-17
UNAE WORKSHOP ON PERSONNEL NEUTRON DOSIMETRY.	17-77	LIE ALGEBRA SO(N) AND THE DUFFIN-KEMMER-PETIAU RING.	27-7
DOT INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7	DUPLICATE ON DUPLICATE MEASUREMENTS IN THE CHEMICAL LABORATORY.	21-36
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8	DYNAMIC MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA-TITANIA COMPOSITION.	23-16
DOUBLE ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1	DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37
OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97	DYNAMICAL MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS. VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
DOUBLY ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	DYNAMICS CHEMICAL REACTION DYNAMICS: PART I. GEOMETRICAL STRUCTURE.	6-1
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM-3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10	THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS	16-12	TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13	COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-4
DP STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72	IRON-57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
DPF SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6).	10-102	IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS.	9-9
DRAFTING INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN.	21-28	RECENT ADVANCES IN COMPUTATIONAL FLUID DYNAMICS.	18-23
DRAINAGE PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29	PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105
DRIFT THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.	20-137	DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI.	25-38
DRIVEN DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN CROWBAR SWITCH.	10-12	TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS.	28-4
MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION.	18-13	DYSPROSIUM DECAY OF 75 SEC METASTABLE DYSPROSIUM-165.	25-31
SYMMETRY OF LASER DRIVEN IMPLSIONS.	20-134		
ABLATION STABILITY OF LASER DRIVEN IMPLSIONS.	20-5		
ABLATION STABILITY OF LASER DRIVEN IMPLSIONS.	20-6		
LASER DRIVEN SUPERCOMPRESSION OF SHELLS.	20-70		

E			
	STUDY OF THE MAGNESIUM -24 (HELIUM -3, TRITON) ALUMINUM -24 REACTION AT E (HELIUM -3) = 38.2 MEV	25-111	
	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH ED FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH ED FROM 6 TO 16 MEV.	25-2	
	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH ED FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH ED FROM 6 TO 16 MEV.	25-2	
	ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	
	E MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96	
E BEAM			
	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	
EARTH			
	PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADII.	1-26	
	PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	
	FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	
EARTHS			
	DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5	
ECLIPSE			
	ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1	
	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14	
	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15	
	POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	
	TEMPORAL OBSERVATIONS OF THE LAMBDA 5303 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32	
	INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.	19-13	
ECOLOGICAL			
	ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.	17-17	
ECONOMY			
	LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4	
EDGE			
	NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20	
EDGES			
	REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE.	23-28	
EFFECT			
	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLATONIUM DIOXIDE.	2-7	
	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLATONIUM DIOXIDE.	2-8	
	EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SPIN IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10	
	DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35	
	MONTÉ CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE: EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	
	SUMMARY OF MOSSBAUER EVIDENCE ASSOCIATED WITH THE KONDO EFFECT.	8-32	
	EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM -238 (90 PER CENT) DIOXIDE.	9-7	
	EFFECT OF BERYLLIUM (N2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14	
	USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-146	
	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	
	EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31	
	EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32	
	EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33	
	E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS.	22-11	
	COUPLED NEUTRON - GAMMA MULTIGROUP - MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30	
	PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT	25-93	
	EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2	
	EFFECTIVE METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27	
EFFECTS			
	BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES 1. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	
	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	
	EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	
	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	
	EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39	
	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40	
	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65	
	SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101	
	EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15	
	AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-2	
	PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16	
	PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47	
	EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	
	REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES.	20-116	
	DIODE CONVERTER BASED ON SPACE CHARGE EFFECTS.	20-29	
	DISTRIBUTION OF AN ARBITRARY STUDENTIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18	
	EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-35	
	NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31	

OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION.	22-36	LASER INDUCED PLASMAS IN ELECTRIC FIELDS.	20-75
OFF SHELL EFFECTS IN PION - NUCLEUS INTERACTIONS.	22-37	ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT.	27-3
SPIN AND ISOSPIN EFFECTS IN PI - HELIUM -4 SCATTERING.	22-55	TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE.	29-3
CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6	ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY.	30-11
IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-13	FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969.	30-38
EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-39	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1968.	30-39
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40
EFFICIENCIES ON CTR BREAKDOWN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES.	10-64	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41
EFFICIENCY TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS.	17-74	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43
RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51
EFFICIENT EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER.	20-34	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52
EFFICIENT HIGH POWER XENON AND XENON -RARE GAS MIXTURE LASERS.	20-35	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53
EFFLUENT TLD STACK EFFLUENT MONITOR.	17-73	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54
EFFLUENTS PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	ELECTRICAL ELECTRICAL CONDUCTANCE OF A COMPLEXED ARC DISCHARGE	10-16
EIGHTH QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	28-10	ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR	10-17
ELASTIC VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV.	25-123	SUBTERRANEAN ELECTRICAL HEATER DESIGN AND MORPHOLOGY.	11-30
ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31
ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-41	EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32
ELASTIC SCATTERING OF NEUTRONS FROM HELIUM -3 BETWEEN 7.9 AND 23.7 MEV.	25-42	ELECTRON BEAM CONTROLLED GAS LASERS. DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-47
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON HELIUM -3 ELASTIC SCATTERING BETWEEN 4 AND 14 MEV.	25-48	INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER.	20-59
POLARIZATION TRANSFER IN HELIUM -3 (DEUTERON, DEUTERON) HELIUM -3 ELASTIC SCATTERING.	25-87	ELECTRICALLY ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS	20-49
POLARIZATION TRANSFER IN PROTON - HELIUM -3 ELASTIC SCATTERING AT 16 MEV.	25-88	KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS	20-40
R-MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96	MULTIUSED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-88
ELECTRIC MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20	ELECTRO-OPTIC MULTIFRINGER ELECTRO-OPTIC PHASE MODULATOR.	19-16
INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.	10-48	ELECTRO-OPTICAL EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43
		ELECTROEXPLOSIVE IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES.	15-3

ELECTROMAGNETIC NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39
NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.	20-92	EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41
ELECTROMAGNETIC TRANSITION RATES IN POLONIUM -215.	25-43	INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180.	25-9	MULTI KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86
ELECTRON SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29	MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-58
SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS.	1-30	ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL.	23-5
FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	SPREADING FUNCTIONS IN SECONDARY ELECTRON ANALYSIS.	27-15
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	ELECTRONIC ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12
NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
THEORY OF ELECTRON CORRELATION IN METALS.	4-50	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
THEORY OF ELECTRON INTERACTION IN METALS.	4-51	ELECTRONIC STRUCTURE OF URANIUM HEXAFLUORIDE.	4-15
USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54	NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35
USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54	ANNUAL REPORT. ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING, JULY 1, 1973 THROUGH JUNE 30, 1974.	5-4
COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6	ELECTRONIC ANIMAL IDENTIFICATION AND TEMPERATURE MONITORING.	5-41
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VICINAL SURFACES.	9-11	ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM.	19-10
INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.	10-48	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-9
OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.	10-63	ELECTRONICS ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.	5-102
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES	17-76	ELECTRONS NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1	COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6
ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10	SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-123
PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106	EXPERIMENTS WITH LASER PRODUCED PLASMAS: ELECTRONS, IONS, AND NEUTRONS.	20-42
190 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM.	20-2	ELECTROPRODUCTION ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS.	25-5
EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	ELECTROSTATIC SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31
EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	ELEMENT ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS.	3-8
EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11
EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31	CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11
EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32	PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38
ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-36	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-47	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASER 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38	MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.	25-70
		STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K-13 DECAY.	27-17
		TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES	27-19

ELEMENTAL LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16	ENERGETIC PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADII.	1-26
ELEMENTAL ANALYSIS OF WHO. P BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42	ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.	1-7
ELEMENTARY ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON, PROTON) LEAD -206 REACTION.	25-44	SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-129
ELEMENTS MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-12	ENERGIES ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV	4-11
IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.	5-53	MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.	4-43
SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS.	13-17	NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS	4-57
ELEVATIONS FORMATION OF PARHELIA AT HIGHER SOLAR ELEVATIONS.	3-10	NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS	4-57
ELIMINATION REDUCTIVE FLUORIDE ELIMINATION SYNTHESIS OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV	4-43
ELLIPSOIDAL ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43	MESON - NUCLEUS SCATTERING AT MEDIUM ENERGIES	22-27
ELLIPTIC KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50	RELEVANCE OF SOME RECENT NEUTRON - PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES	22-52
EMISSION HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUTEK (1973F).	3-12	THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS.	21-15
TEMPORAL OBSERVATIONS OF THE LAMBDA 5893 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32	CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV	25-31
VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH.	10-115	R-MATRIX ANALYSIS OF THE N + BORON -10 SYSTEM AT LOW ENERGIES	25-97
VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL-VIEWED THETA PINCH.	10-116	ENERGY NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21
PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION.	16-28	DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES	1-6
BREMSSTRAHLUNG EMISSION FROM LASER PRODUCED PLASMAS.	20-16	POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41
EMISSIONS AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 ANGSTROMS AND 5577 ANGSTROMS.	1-2	WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINEII).	4-50
EMITTED MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66	COMPUTED ENERGY GAP IN KRYPTON	4-7
NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75	CHARACTERISTICS OF ENERGY DEPOSITION BY PIONS.	5-20
EMITTERS REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-65	NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPE PH MINUS BIOMEDICAL CHANNEL.	5-77
EMISSION ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42	MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11
ENCAPSULATED EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18
ENCOUNTER OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.	3-17	COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HF(0) TO HF(V) + F AND F + DF(V) TO DF(V) + F	6-3
OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.	3-18	STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM(2)NICKEL(17).	7-14
ENDF ANALYSIS OF ZPPR/FTT-2 TLD MEASUREMENTS USING ENDF/B-III DATA.	25-4	FREE ENERGY IN CONCENTRATION SPACE.	7-5
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84	ENERGY AND CRYOENGINEERING.	8-11
R-MATRIX ANALYSIS OF THE OXYGEN -17 SYSTEM: VERSION IV OF ENDF/B.	25-98	ENERGY STORAGE AND SWITCHING WITH SUPERCONDUCTORS.	8-12
		METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20
		METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20
		PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-29

PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
SUPERCONDUCTING MAGNETIC ENERGY STORAGE.	8-33	EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER	20-34
DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VICINAL SURFACES	9-11	HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS LASER SYSTEM	20-51
ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES.	10-18	HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM	20-52
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20	NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION	20-95
EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE ENERGY CIRCUIT.	10-29	NAIVE VIEW OF HIGH ENERGY HADRON-NUCLEUS COLLISIONS	22-20
FUSION REACTORS AS FUTURE ENERGY RESOURCES.	10-37	NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP.	22-34
FUSION REACTORS AS FUTURE ENERGY SOURCES.	10-38	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-42
INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER.	10-46	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49
MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR)	10-55	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50
ON CTR BREAKDOWN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES	10-64	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-54
REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS	10-63	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58
STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH FTR COMPRESSION COIL.	10-80	TUNING UP THE LAMPF LOW ENERGY PION CHANNEL.	22-59
AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER	11-1	MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA-TITANIA COMPOSITION	23-16
GEOTHERMAL ENERGY (TESTIMONY)	11-10	LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION	23-58
GEOTHERMAL ENERGY: A NEW APPLICATION OF ROCK MECHANICS	11-11	POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS	23-91
LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM	11-19	ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS	26-11
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR	11-21	NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS	26-18
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES	11-22	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-1
PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO	11-24	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR, LITHOTHERMODYNAMICS	11-33	HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION	28-5
MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.	12-5	ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY	30-11
MOVING ENERGY STORAGE CAPACITOR BACKS WITH AIR BEARINGS	13-12	NEW ATTACK ON THE ENERGY SHORTAGE	30-23
FISSION OF URANIUM-238, BISMUTH-209 AND GOLD-197 WITH INTERMEDIATE ENERGY HELIUM-4 IONS	16-14	APPROACH TO ENERGY SYSTEMS ANALYSIS AND CONSERVATION	30-5
MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA	16-23	U. S. ENERGY AND PRIORITIES	30-60
PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM-232, URANIUM-235, URANIUM-238 AND PLUTONIUM-239.	16-27	ENGINEERING ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR)	10-19
PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION.	16-28	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20
ENERGY DEPENDENCE OF GAMMA(N,GAMMA)F FOR THE NUCLEI RADON- 216	16-5	ENGINEERING PROBLEMS OF FUSION RESEARCH: REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973	10-21
ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7	FUSION ENGINEERING AT THE LOS ALAMOS SCIENTIFIC LABORATORY	10-34
DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS	17-14	LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION	13-11
ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS.	17-18	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS	17-27		

ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASER 1 KJ AND 10 KJ CARBON DIOXIDE LASERS	20.48	ENZYME DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES	5.01
ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS	20.49	EPICS SLIT SCATTERING IN THE EPICS BEAM LINE	22.54
ENGINEERS BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GHRA	21.5	EPONY EFFECTS OF NUCLEAR IRRADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES	19.9
ENGINES APPLICATIONS OF LOW POWER NUCLEAR ROCKET ENGINES	30.4	EQUATION EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE	4.50
ASPEN: AN AFROSPACE PLANE WITH NUCLEAR ENGINES	30.6	HUGONIOT EQUATION OF STATE OF BERYLLIUM OXIDE	4.24
ENHANCED LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION	20.71	BETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGEN-LIKE ATOM	4.5
ENHANCEMENT SCANNING HISTOLOGY IMAGE ENHANCEMENT	5.104	DESIGN CONSIDERATIONS FOR A HIGH PRESSURE EQUATION OF STATE EXPERIMENT	4.9
MULTIPLE SCATTERING: ENHANCEMENT OF X RAYS	25.71	TRANSPORT EQUATION IN AN ACCELERATED MATERIAL: LEGENDRE MOMENTS AND A DIFFUSION APPROXIMATION	18.29
ENRICHED CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON-13	14.2	TRANSPORT EQUATION IN MODIFIED EULERIAN COORDINATES	18.30
SPIN RELAXATION IN OXYGEN-17 ENRICHED WATER	14.5	NUMERICAL SOLUTIONS OF THE THREE-DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY: FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974	20.95
GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE	26.11	DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS	21.11
ENRICHMENT URANIUM-235 ENRICHMENT DETERMINATION USING HELIUM-4 PROPORTIONAL COUNTERS	19.23	DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS	21.14
URANIUM ENRICHMENT	20.245	DIRECT SOLUTION OF THE DISCRETE BIHARMONIC EQUATION	21.15
URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL	26.28	RELATIVISTIC SCHRÖDINGER EQUATION	21.45
CONTINUOUS IN-LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT	26.6	SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES	21.52
ENTHALPY ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM DIOXIDE	7.1	TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES	24.11
ENTRY REMOTE JOB ENTRY: SIMULTANEOUS WITH STAND-ALONE USAGE OF A PROGRAM	21.46	MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION	24.7
ENVELOPES QUANTUM SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES	4.42	MESON DECAYS AND THE DEBYE-HÜCKEL-DEBYE-HÜCKEL EQUATION	25.69
ENVIRONMENT POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT	8.21	URANIUM DIOXIDE EQUATION OF STATE FOR LIQUID (LIQUID METAL FUELED) BREEDER REACTOR: ENCLOSURE ANALYSIS	28.21
PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION	13.16	EQUATIONS HUGONIOT EQUATIONS OF STATE OF LITHIUM-HYDROGEN-6, LITHIUM-DEUTERIUM-6, LITHIUM-HYDROGEN-7, AND LITHIUM-DEUTERIUM-7	4.25
STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM-238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM-238 DIOXIDE	17.71	STABILIZATION OF SOLUTION OF THE HARTREE-FOCK EQUATIONS	1.47
ENVIRONMENTAL DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES	5.29	PERIODIC SOLUTIONS OF PREDATOR-Prey EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1.	5.82
ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973	5.3	PERIODIC SOLUTIONS OF PREDATOR-Prey EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2.	5.83
ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (OTPR)	10.22	PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR-Prey EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5.84
DISSOLUTION OF PLUTONIUM-238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS	17.16	INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY	18.11
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1973	17.19	NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING	21.34
PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER	17.35	NUMERICAL METHODS FOR NONLINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS	21.35
BIOLOGICAL TRANSFER PROCESSES IN ENVIRONMENTAL SURVEILLANCE	17.5	BIHARMONIC FIRST ORDER WAVE EQUATIONS: E, C, P, AND T	22.3
ENVIRONMENTS INTERACTION OF PLUTONIUM-238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS	17.26	METHODS OF TREATMENT OF DISPLACEMENT INTEGRAL EQUATIONS	24.6
PLUTONIUM-238 RELEASE IN SIMULATED NATURAL ENVIRONMENTS	17.41	TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE RED SOFT CORE POTENTIAL	25.119
		TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE RED SOFT CORE POTENTIAL	25.120
		EQUATORIAL AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 Å AND 5577 Å	1-2

EQUILIBRIA		ETCH	
TWO SPECIES VLASOV CONFINEMENT EQUILIBRIA	10-112	NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS	2-21
EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK	10-23	ETHANOL	
MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA	10-59	CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL-HYDROCHLORIC ACID	2-2
STABILITY ANALYSIS OF INHOMOGENEOUS PLASMA EQUILIBRIA	10-91	ETHYLENEDIAMINE	
EQUILIBRIUM		SYNTHESES WITH STABLE ISOTOPES: ACETYLENE-CARBON-13-20 AND LITHIUM ACETYLIDE-CARBON-13-20 ETHYLENEDIAMINE COMPLEX	2-10
CALCULATION OF EQUILIBRIUM COMPOSITIONS IN EXCHANGE REACTIONS	7-2	EULERS	
EQUILIBRIUM AND STABILITY OF $L = 1$ HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS	10-24	ERROR ANALYSIS OF A COMPUTATION OF EULER'S CONSTANT	21-9
BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLA TORUS	10-3	EULERIAN	
PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLA		KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS	18-12
"INTERRUPTED"		TRANSPORT EQUATION IN MODIFIED EULERIAN COORDINATES	18-20
EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM-235	10-6	EUROPIUM	
ERGONIC		HALF LIFE OF EUROPIUM-155	25-51
ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPH (REFERENCE THETA PINCH REACTOR) BURN CYCLE	10-25	EV	
ERRATUM		ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV	4-11
POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT: ERRATUM	19-21	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV	4-41
PRODUCTION OF CHARGED PIONS BY 700 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI: ERRATUM	22-15	EVAPORATED	
ERROR		ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) NATURAL SURFACES	9-14
ERROR ANALYSIS OF A COMPUTATION OF EULER'S CONSTANT	21-19	EVAPORATION	
SOME PUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD	21-55	EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION	9-8
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION	26-15	SOLVENT EVAPORATION RATES	17-71
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS	26-24	EVAPORATORS	
ERROR ANALYSIS OF A CALIFORNIUM-252 FUEL ROD ASSAY SYSTEM	26-7	HYDRODYNAMIC THEORY CORRELATION FOR 72 HELIUM EVAPORATORS	8-16
ERRORS		EVENTS	
EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS	27-2	SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE	5-105
ERYTHROCYTE		EVIDENCE	
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN-1: THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL	5-51	SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29
ESTABLISHING		EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AURORAL SPIRAL	1-8
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS	17-27	EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS	4-9
ESTERASE		SUMMARY OF MOSSBAUER EVIDENCE ASSOCIATED WITH THE KONTO EFFECT	8-32
PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS	5-85	DIRECT EVIDENCE FOR THE COEXISTENCE OF SUPERCONDUCTIVITY AND FERROMAGNETISM	8-8
ESTIMATE		EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS	20-41
APPROXIMATE ESTIMATE OF THE FORM OF MOLECULAR VIBRATIONS	4-4	EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS	22-13
METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM-235 USING A SODIUM IODIDE CRYSTAL	16-22	EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS	23-6
ESTIMATED		EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE	23-7
ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS	16-7	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD-206 (TRITON, PROTON) LEAD-206	25-45
ESTIMATION		EVOLUTION	
FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS	5-47	TITUS-BODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM	3-34
ESTIMATION OF LASER-PLASMA INTERACTIONS IN THE SCYLLA 1-C THETA PINCH	10-26	EVOLUTIONARY	
SITUATION IN WHICH THE ESTIMATION OF THE "INTERACTION VARIANCE" IS THE PURPOSE OF AN EXPERIMENT	21-51	MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREES	5-73
		EVNS	
		EVNS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE	25-46

EXACT		KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS	20-20
EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20		
EXACT SOLUTION TO PURE BINARY REACTION PROBLEMS.	21-21	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER IMPLICATIONS FOR L-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS	20-2
EXAMINATION		MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS	20-2
QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12		
EXCAVATION		EXCRETION	
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY.	11-16	DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN	5-12
ROCK MELTING APPLIED TO EXCAVATION TUNNELING.	11-26	EXCURSION	
ROCK MELTING SUBTERRANES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	POWER REACTOR EXCURSION STUDIES	17-44
SUBTERRANEAN ROCK MELTING EXCAVATION PROGRAM.	11-32	URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR (LIQUID METAL FUELED) BREEDER REACTOR EXCURSION ANALYSIS	28-21
		DESCRIPTION OF THE KIWI - TNT EXCURSION AND RELATED EXPERIMENTS	20-2
EXCESS		EXIT	
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMIUM CYANIDE IN EXCESS XENON.	6-20	EXIT GAS THERMOCOUPLE RESPONSE IN KIWI REACTORS	20-12
EXCHANGE		EXPANDED	
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES	12-4
CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL - HYDROCHLORIC ACID.	2-2	EXPANSION	
MORTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10	LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIBORIDE	9-12
UNEXPLAINED PARADOX: $1/4E$ THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA - TITANIA COMPOSITION	23-16
CALCULATION OF EQUILIBRIUM COMPOSITIONS IN EXCHANGE REACTIONS.	7-2	EXPERIENCE	
EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MEZONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14	BETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGENLIKE ATOM	4-5
PION CHARGE EXCHANGE REACTIONS WITH NUCLEI	22-39	HUMAN EXPERIENCE	17-25
PION EXCHANGE MECHANISM FOR (PION-PLUS, 2-PROTON) REACTIONS.	22-41	PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-43
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22	EXPERIMENT	
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24	MARINER 10 PLASMA SCIENCE EXPERIMENT RESULTS	1-18
EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON, PROTON) LEAD -206.	25-45	OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.	1-17
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28.	25-79	OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.	1-18
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-80	DESIGN CONSIDERATIONS FOR A HIGH PRESSURE, EQUATION OF STATE EXPERIMENT	4-9
EXCITATION		250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCYLLAC EXPERIMENT	10-1
EXCITATION TRANSFER IN NEON + NEON* COLLISIONS.	4-17	DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLSION HEATING EXPERIMENT	10-10
SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44	DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT	10-11
OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE - NITROGEN MIXTURES	20-101	EXPERIMENTS IN THE STAGED THETA PINCH EXPERIMENT	10-28
CARBON DIOXIDE GAS LASER EXCITATION AND GAIN.	20-21	FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY DEUTERIUM TRITIUM EXPERIMENT.	10-31
ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39	HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-41
ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON, PROTON) LEAD -206 REACTION.	25-44	LASL IMPLSION HEATING EXPERIMENT.	10-54
EXCITED		PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT	10-66
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22	PRESENT STATUS AND FUTURE PROGRAM OF THE ZT-1 EXPERIMENT	10-77
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23	SITUATION IN WHICH THE ESTIMATION OF THE INTERACTION VARIANCE IS THE PURPOSE OF AN EXPERIMENT	21-51
LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31	NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT	24-9
		ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT	27-4
		INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6
ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39		

EXPERIMENTAL THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-31	EXPLOSIVES INVESTIGATIONS OF UNDERGROUND EXPLOSIONS IN NEVADA SANDY SOILS.	39-16
EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS	5-46	EXPLOSIVE UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	3-17
EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION	9-8	DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN CROWBAR SWITCH	19-12
EXPERIMENTAL MEASUREMENT OF IN SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING	11-8	QUARTERLY REPORT JOINT SERVICES EXPLOSIVE PROGRAM. AUGUST 16 THROUGH NOVEMBER 30, 1973	15-8
EXPERIMENTAL FISSION BARRIERS FOR ACTINIDE NUCLEI.	16-8	MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE	18-14
EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE	18-9	EXPLOSIVELY MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR	29-80
NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NU BAR	19-17	EXPLOSIVES QUARTERLY REPORT JOINT SERVICES EXPLOSIVES PROGRAM. MARCH 16 THROUGH JUNE 30, 1974	15-19
STATUS OF LAMPF EXPERIMENTAL FACILITIES	22-56	QUARTERLY REPORT JOINT SERVICES EXPLOSIVES PROGRAM. DECEMBER 1, 1973, THROUGH MARCH 15, 1974.	15-9
COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON + + + NEON TO KRYPTON (+ + + NEON + +) WITH SOME SIMPLE THEORIES	25-27	EXPONENTIALLY EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
EXPERIMENTS L = 1.21 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARRUM SHAPED CHARGES	1-17	EXPOSED RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION	7-101
FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11	LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES	5-62
ABSOLUTE DETERMINATIONS OF ANTIPOD AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS	5-1	EXPOSURE COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS	5-23
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS: 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5	EXPRESSION ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM PLATONIUM DIOXIDE.	7-1
STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF)	7-15	EXTENDED EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE	4-16
COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS	8-3	EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES	4-18
TRANSFORMER FOR INJECTION EXPERIMENTS	10-109	EXTINCTION EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS	20-47
EXPERIMENTS IN THE STAGED THETA PINCH EXPERIMENT	10-28	EXTRACTION MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLATONIUM.	2-12
PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS	10-72	EXTREME POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT	19-20
PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC THETA PINCH	10-73	POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT ERRATUM	19-21
PRELIMINARY LATERAL FEEDBACK FORCE EXPERIMENTS ON SCYLLAC IV-3	10-76	EXTRUDING DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-5
SCYLLAC THETA PINCH EXPERIMENTS	10-88	E1 COMMENTS ON E1:M2 COMPETITION IN GADOLINIUM -154	25-25
RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK	11-25	E2 E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS.	22-11
EXPERIMENTS WITH LASER PRODUCED PLASMAS ELECTRONS, IONS, AND NEUTRONS	20-42	E3 OBSERVATION OF THE E3 ISOMER OF YTTRIUM -90.	25-81
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS	20-56	F COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HEAVY TO HEAVY + F AND F + DEUTERON TO DEUTERON + F.	6-3
EARLY EXPERIMENTS WITH NEUTRON BEAMS AT LAMPF	22-12	MEASUREMENTS OF GAMMA/F/GAMMA/N USING (HELIUM -3,DEUTERON - FISSION) ND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
CRITICALITY EXPERIMENTS AND DATA.	24-2	ENERGY DEPENDENCE OF GAMMA(N)GAMMA(F) FOR THE NUCLEUS RADON -216.	16-5
APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-10		
PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.	25-34		
DESCRIPTION OF THE KIWI - TNT EXCURSION AND RELATED EXPERIMENTS.	30-9		
EXPLODING EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE ENERGY CIRCUIT.	10-29		
EXPLOSION KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS	6-7		
NUCLEAR EXPLOSION 13 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30		
KIWI - TNT EXPLOSION.	30-17		

FABRICATION MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	23-17	NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21
RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM-238 DIOXIDE RADIOISOTOPIC FUELS. I. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY.	24-5
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM-238 DIOXIDE RADIOISOTOPIC FUELS.	24-8	TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118
FACIAL SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68	RADIATIVE CAPTURE OF FAST NEUTRONS BY CALCIUM-40.	25-99
FACILITIES HIGH INTENSITY MESON FACILITIES.	22-18	QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12
STATUS OF LAMPF EXPERIMENTAL FACILITIES.	22-56	FATIGUE POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-74
FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES.	27-4	TENSILE FATIGUE BEHAVIOR OF MOLYBDENUM AT 1153 DEGREES KELVIN.	24-34
FACILITY PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.	5-92	THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE.	21-36
STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15	FBR QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12
DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.	17-12	FCC METASTABLE FCC SOLID SOLUTIONS IN CERIUM-PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	24-18
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13	FCFTR FCFTR: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22
NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31	FEASIBILITY FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM-TRITIUM EXPERIMENT.	10-31
INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET.	25-53	PRELIMINARY STUDY OF PLASMA NUCLEAR REACTOR FEASIBILITY.	28-9
LOS ALAMOS THREE STAGE VAN DE GRAAFF FACILITY.	27-8	FEB P-DIVISION PROGRESS REPORT, FEB. 20 - MAR. 20, 1949.	30-27
FACTORIES MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69	FEBRUARY PROGRESS REPORT, RESEARCH ON CARBON-ALUMINUM COMPOSITES, FEBRUARY 1 - JULY 31, 1974.	24-26
FADDEEV TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119	FEEDBACK PRELIMINARY L(1,0) FEEDBACK FORCE EXPERIMENTS ON SCYLLA IV-3.	10-76
TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL	25-120	SCYLLAC FEEDBACK STABILIZATION SYSTEM.	10-86
FAILURE FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33	SCYLLAC MHD (MAGNETOHYDRODYNAMIC) FEEDBACK SYSTEM.	10-87
FAILURE OF COOLING TOWER LOB-CT-1.	13-4	FENTON GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9
FAILURES PREDICTION OF FAILURES IN CTR SYSTEMS.	10-75	FERMAT FERMAT FUNCTIONS AND THE GENERAL WALLIS PRODUCT.	21-23
FALLOUT PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47	FERMIUM PROMPT NEUTRONS FROM THE SPONTANEOUS FISSION OF FERMIUM-257.	16-29
FAST FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	FERROCYANIDE VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.	4-56
COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS-A.	3-2	FERROMAGNETISM DIRECT EVIDENCE FOR THE COEXISTENCE OF SUPERCONDUCTIVITY AND FERROMAGNETISM.	8-8
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30	EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN LANTHANUM TETRABORIDE AND YTTRIUM TETRABORIDE.	23-7
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31	FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.	23-9
FAST WAVE HEATING OF TOKAMAK PLASMAS.	10-30	FEYNMAN ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON-NUCLEON SCATTERING.	25-3
SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS.	13-17	FIBER FIBER OPTIC SECURITY SEAL.	13-5
EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM-235.	16-6	FIBROSIS PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS.	5-85
EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33		
ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37		
FAST VERSATILE PREAMPLIFIER FOR USE IN PARTICLE PHYSICS.	22-15		

FIELD		FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM.	8-13
L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15	HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY	8-15
MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20	DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9
EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AURORAL SPIRAL.	1-8	APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRANEAN PROGRAM.	11-2
PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD	3-24	FILTER	
FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES.	4-19	DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.	17-12
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.	4-58	TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS.	17-74
MEAN FIELD THEORY OF SOME MAGNETIZED ANTIFERROMAGNETS.	8-18	TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES	17-76
NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IRIIDIUM IN IRON.	8-21	FILTERS	
SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NI0B1UM3T1N IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36
MAGNETIC FIELD PROGRAMMING IN ZT-1.	10-56	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JANUARY 1 THROUGH JUNE 30, 1974.	17-37
SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JULY 1 THROUGH DECEMBER 31, 1973.	17-38
DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-5	FILTRATION	
PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106	INTENSITY FILTRATION OF LASER LIGHT.	20-57
LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78	FINAL	
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8	FINAL PROGRESS REPORT, SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44
FIELDS		NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-95
INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON-ION COLLISION RATE IN A PLASMA.	10-48	CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4
CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL CONDUCTING WALLS.	10-5	PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27	DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73	FINITE	
LASER INDUCED PLASMAS IN ELECTRIC FIELDS.	20-75	TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-196
FIFTH		EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15
ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973.	10-21	EQUILIBRIUM AND STABILITY OF L = 1 HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS.	10-24
FIGURE		STABILITY OF A FINITE BETA L = 2 STELLARATOR.	10-95
FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES.	27-4	SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11
FILE		PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA.	20-102
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.	21-60	CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11
EVXS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES.	21-11
FILES		PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.	16-19	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
FCFTR: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
FCFTR: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-6
STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III.	28-19	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8
FILM		RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101
USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17	VACUUM POLARIZATION IN HIGH Z, FINITE SIZE NUCLEI.	25-121
APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1	TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19
DISSIPATION IN THE FLOWING SATURATED SUPERFLUID FILM.	8-10		

FIRE			
SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2
FIRE		MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM -254.	16-20
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-3	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -2,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
FIRST		MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13	NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14	PRESENT STATUS OF NUCLEAR FISSION THEORY.	16-26
SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101	PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION.	16-28
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR): A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973.	10-114	PROMPT NEUTRONS FROM THE SPONTANEOUS FISSION OF FERMIUM -257.	16-29
DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	CALCULATION OF FISSION BARRIERS.	16-3
FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-31	DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SUBTHRESHOLD FISSION.	16-4
FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.	10-32	EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM -235.	16-6
POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-74	ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7
REVIEW OF SFN/FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84	EXPERIMENTAL FISSION BARRIERS FOR ACTINIDE NUCLEI.	16-8
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81	FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON -40 BOMBARDMENTS OF NICKEL -58 AND SILVER -109.	16-9
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34	DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI.	25-38
BHABHA FIRST ORDER WAVE EQUATIONS - I: C, P, AND T.	22-3	NEUTRON INDUCED FISSION CROSS SECTION OF URANIUM -235.	25-73
FISH		FISSIONABLE	
PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40	ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1
FISSILE		FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10
SHIPPING CONTAINER FOR PLUTONIUM -238 AS FISSILE MATERIAL CLASS 1.	13-18	FISSIONABLE MATERIAL ASSAY USING MU-MUSIC X RAYS.	26-9
SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-69	FISSIONS	
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	36-19	METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.	16-22
FISSION		FIT	
FISSION GAS AND VOID VOLUME MEASURING SYSTEM.	13-6	FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33
CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI.	16-1	FITTING	
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON,PROTON - FISSION), (HELIUM -2,DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON,ALPHA - FISSION) STUDIES.	16-10	MULTI: A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32
FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.	16-11	FITWEIB	
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12	FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13	FIVE	
FISSION OF URANIUM -238, BISMUTH -209 AND GOLD -197 WITH INTERMEDIATE ENERGY HELIUM -4 IONS.	16-14	COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6
FISSION.	16-15	FIXED	
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	SPACE FIXED VS BODY FIXED AXES IN ATOM -DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	SPACE FIXED VS BODY FIXED AXES IN ATOM -DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-48
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	FIXED POLES AND COMPOSITENESS.	22-16
INDEPENDENT YIELDS OF XENON -133M, XENON -133G, XENON -135M AND XENON -135G FROM FISSION.	16-18	FLAMELESS	
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.	16-19	FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9
		FLARE	
		THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33
		FLARES	
		DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6

FLASH			
PORTABLE FLASH X RAY SYSTEMS: TECHNIQUES AND APPLICATIONS.	2-13	NUMERICAL STUDY OF TURBULENCE TRANSITIONS IN CONVECTIVE FLOW.	18-21
DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE.	4-8	RAY TRACE ACOUSTICS IN UNSTEADY FLOW.	18-22
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMINE CYANIDE IN EXCESS XENON.	6-20	ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24
FLAT		STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW.	18-25
DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3	CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144	CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARTIAN OBSTACLES.	18-5
FLIGHT		COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7
TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58	NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.	30-25
FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13	FLOWING	
FLIP		DISSIPATION IN THE FLOWING SATURATED SUPERFLUID FILM.	8-10
SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE.	20-126	FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM.	8-13
FLOW		DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOW, SATURATED HELIUM II FILM.	8-9
PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	FLOWS	
VELA AND IMP PLASMA FLOW OBSERVATIONS.	1-36	KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS.	18-12
CELL PREPARATION AND STAINING FOR FLOW SYSTEMS.	5-17	COMMENTS ON: LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS.	18-6
DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36	DETONATION INDUCED TWO DIMENSIONAL FLOWS.	18-8
ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43	FLUCTUATION	
ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43	APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1
FLOW MICROFLUOROMETRY STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47	ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10
FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48	FLUCTUATIONS	
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50	QUASI-STELLAR DIAMETERS AND INTENSITY FLUCTUATIONS.	3-25
MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66	FLUENCE	
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.	5-78	METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27
POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.	5-87	FLUID	
APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1	APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH.	10-2
GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES.	8-14	SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28
HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY.	8-15	PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16
COMMENT ON: NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM.	8-2	KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS.	18-12
MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61	RECENT ADVANCES IN COMPUTATIONAL FLUID DYNAMICS.	18-23
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33	STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW.	18-25
INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY.	18-11	FLUORESCENCE	
MULTIFLUID FLOW CALCULATIONS AT ALL MACH NUMBERS.	18-15	ELLIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43
ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS.	18-2	FLUORESCENCE RISE TIME OF NE 102 SCINTILLATOR	20-45
NUMERICAL SOLUTION OF THE FLOW STRUCTURE IN TORNADO-LIKE VORTICES.	18-20	FLUORESCENT	
		MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.	4-33
		QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96

FLUORIDE		
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	10-102
REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13	20-117
MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR	20-80	20-118
MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84	20-119
MULTI-KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86	20-130
FLUORIDES		
REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13	20-143
FLUORINE		
LASER - PLASMA SPECTRA OF HIGHLY IONIZED FLUORINE.	3-13	20-46
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	20-83
KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7	
KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7	
SAFETY MANUAL, L-DIVISION, LASER RESEARCH AND TECHNOLOGY. SUPPLEMENT 1 HAZARDOUS CHEMICALS: FLUORINE (F2).	17-66	
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1	
100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM.	20-2	
AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	
MULTI-KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86	
STUDY OF THE NEON -20 (TRITON, ALPHA) FLUORINE -19 REACTION AT 20 MEV.	25-112	
FLUTE		
RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-B THETA PINCH IMPLOSION: FLUTE INSTABILITIES.	10-82	
FLUX		
FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	
FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	
NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PI MINUS BIOMEDICAL CHANNEL.	5-77	
PLASMA INSTABILITIES IN THE PRESENCE OF A LARGE THERMAL FLUX.	20-107	
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56	
NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31	
NEUTRON FLUX SPECTRA AT LAMPF FOR CTR RADIATION DAMAGE STUDIES.	22-32	
FLUXES		
BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4	
DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6	
FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-31	
FLYING		
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.	19-13	
FOCUS		
SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6).		10-102
FOCUSING		
RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.		20-117
RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.		20-118
SELF FOCUSING OF VERY POWERFUL LASER BEAMS. 2.		20-119
STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.		20-130
TOWARD CONTROL OF SELF FOCUSING.		20-143
GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.		20-46
METHOD OF FOCUSING A HIGH POWERED LASER BEAM.		20-83
FOIL		
EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE ENERGY CIRCUIT.		10-29
FOILS		
MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.		4-33
PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.		20-105
FOLDED		
CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.		16-2
FOOT		
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.		12-1
FORCE		
FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES.		4-19
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.		4-58
PRELIMINARY L(1,0) FEEDBACK FORCE EXPERIMENTS ON SCYLLA IV-3.		10-76
INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.		19-13
FORCED		
PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.		8-30
FORCES		
INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA.		4-27
FORM		
APPROXIMATE ESTIMATE OF THE FORM OF MOLECULAR VIBRATIONS.		4-4
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.		13-7
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.		13-8
MAGNETIC FORM FACTOR OF HELIUM -3.		25-62
FORMALISM		
BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.		10-4
MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.		21-32
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.		25-24
FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM -4 AND HELIUM -3 (DEUTERON, PROTON) HELIUM -4 REACTIONS.		25-47
FORMAT		
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.		25-84

FORMATION ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.	1-3	FRACT. RING RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK.	11-29
FORMATION OF PARHELIA AT HIGHER SOLAR ELEVATIONS.	3-10	EXPERIMENTAL MEASUREMENT OF IN-SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING.	11-8
UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	3-37	CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4
KINETICS OF HEMOLYTIC PLAQUE FORMATION.	5-61	FRAGMENTATION UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	5-67
STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM(2) NICKEL(17).	7-14	FRAGMENTS PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-4
FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4	FREDHOLM USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140	FREE STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM(2) NICKEL(17).	7-14
MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29	FREE ENERGY IN CONCENTRATION SPACE.	7-5
DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI.	25-38	EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8
FORMED NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38	FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH.	15-2
EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.	23-7	FRENCH CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE.	3-3
FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.	23-9	FREQUENCIES PARAMETRIC INSTABILITIES AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67
FORMING METHOD OF FORMING MICRON SIZE. METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19	FREQUENCY TWO FREQUENCY NONLINEAR TAYLOR INSTABILITY.	18-31
FORMULA MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA.	16-23	HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50
FORMULATION COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25	FRESNEL REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES.	20-116
FORTAN MULTI A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32	FROZEN FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20
FORTAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION.	23-10	FTR THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE.	10-106
FOURTEEN FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48	MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR).	10-55
FRACTIONAL FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	REVIEW OF SFX/FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84
ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92
ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7	FCFTE: A COMPUTER CODE TO CONVERT STANDARD CCCC INTERFACE FILES TO FTR FILES.	21-22
FRACTIONATION RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101	FTR-2 ANALYSIS OF ZPPH/FTR-2 TLD MEASUREMENTS USING ENCFB-III DATA.	25-4
COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	FUEL ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1
FRACTIONS METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70	MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11
FRACTURE THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS. WITH OR WITHOUT IRRADIATION DAMAGE.	23-36	DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6
FRACTURES SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28	SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS.	13-7
		CRYOGENICS SAFETY IN A HYDROGEN FUEL SOCIETY.	17-11
		ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS.	17-18
		METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20

ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	FUNCTIONS	
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17	USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL ROD ASSAY SYSTEM.	26-7	FERMAT FUNCTIONS AND THE GENERAL WALLIS PRODUCT.	21-23
SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	26-18	ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS.	25-5
STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V/O URANIUM DIOXIDE CERMET FUEL.	28-20	CONTINUATION OF FUNCTIONS BEYOND NATURAL BOUNDARIES.	27-1
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3	RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES.	27-13
HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.	28-4	SPREADING FUNCTIONS IN SECONDARY ELECTRON ANALYSIS.	27-15
IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS.	30-15	FUNDAMENTAL	
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969.	30-38	FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.	7-6
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1968.	30-39	FUNDAMENTALS	
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40	FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10
FUELED		FUNNY	
FEEDBACK CONSIDERATIONS IN LMFBFR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	24-17	SOME FUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD.	21-55
URANIUM DIOXIDE EQUATION OF STATE FOR LMFBFR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	24-21	FUSION	
FUELS		THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE.	10-106
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR.	10-17
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973.	10-21
PLUTONIUM -238 FUELS FOR POWERING MEDICAL DEVICES.	5-86	FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.	10-32
PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM -238 FUELS, JULY 1, 1971 - JUNE 30, 1973.	5-88	FUSION ENGINEERING AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	10-34
RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.	10-35
URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-38	FUSION REACTOR NUCLEAR ANALYSIS METHODS AND APPLICATIONS.	10-36
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8	FUSION REACTORS AS FUTURE ENERGY RESOURCES.	10-37
QUARTERLY REPORT ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	24-10	FUSION REACTORS AS FUTURE ENERGY SOURCES.	10-38
QUARTERLY REPORT ADVANCED PLUTONIUM FUELS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	24-11	LASER FUSION POWER PLANT SYSTEMS ANALYSIS.	10-53
QUARTERLY REPORT EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS. JULY 1 THROUGH OCTOBER 31, 1974.	24-12	MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR).	10-55
FULL		MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.	10-57
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF SHELL TWO NUCLEON T-MATRIX.	25-29	COMPARATIVE ANALYSIS OF DEUTERIUM -TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6
FUNCTION		PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	10-65
COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25	POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-74
EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44	SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90
EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -11 IN VIVO.	5-45	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92
DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9	FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON -40 BOMBARDMENTS OF NICKEL -58 AND SILVER -109.	16-9
FUNCTIONALS		PULSE UNFOCUSING WITHIN LASER FUSION REACTORS.	20-115
FUNCTIONALS ADDITIVE ON A SYMMETRIC SET.	21-24	SOME NEUTRONICS ASPECTS OF LASER FUSION REACTORS.	20-122
		SURVEY OF LASER INITIATED FUSION RESEARCH.	20-132
		WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS.	20-147
		HIGH POWER NEODYMIUM : GLASS LASER SYSTEM FOR FUSION RESEARCH.	20-53
		IMPLOSION CHARACTERISTICS OF DEUTERIUM -TRITIUM SPHERES FOR LASER FUSION.	20-55
		LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-62

LASER FUSION FOR LAYMEN.	20-72	GAMMA LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73	DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -239 MATERIALS BY GAMMA SPECTROMETRY.	2-4
DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI.	25-38	FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11
FUTURE FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11	OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 1.	3-19
FUSION REACTORS AS FUTURE ENERGY RESOURCES.	10-35	PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-23
FUSION REACTORS AS FUTURE ENERGY SOURCES.	10-38	REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29
PRESENT STATUS AND FUTURE PROGRAM OF THE ZT-1 EXPERIMENT.	10-77	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30
ROCK MELTING SUBTERRANES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31
FY-1974 PACER PROGRAM, FY-1974 LASL ACTIVITY.	30-28	TRANSIENT COSMIC GAMMA AND X RAY SOURCES. 1973. CONFERENCE. LOS ALAMOS, NM. PROCEEDINGS.	3-35
F2 SAFETY MANUAL. L-DIVISION, LASER RESEARCH AND TECHNOLOGY. SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2).	17-66	COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4
G-BANDING CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22	DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	3-7
GADOLINIUM COMMENTS ON E1-M2 COMPETITION IN GADOLINIUM -154.	25-25	ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS	3-8
GAGES EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9
EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23
GAIN TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN.	20-141	LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62
CARBON DIOXIDE GAS LASER EXCITATION AND GAIN.	20-21	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON -216.	16-5
ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9	ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON -216.	16-5
OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97	ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM.	19-10
GALACTIC PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.	3-24	K(+) TO PI(+) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23
EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9	K(+) TO PI(+) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-24
GALACTOSE EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44	URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY. COOLING RATES OF GAMMA QUENCHED ALLOY. RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39
EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -13 IN VIVO.	5-45	SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM -169 AND LUTETIUM -175 GAMMA RAYS	25-105
GALAXY UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	3-37	TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY	25-117
GALERKIN RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES.	21-43	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON	25-21
GALLILEAN GALLILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON	25-21
GALLIUM EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43	COUPLED NEUTRON - GAMMA MULTIGROUP MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-50
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	20-2	CROSS SECTIONS OF URANIUM -235 AND PLUTONIUM -239 FOR NEUTRONS PRODUCING GAMMA RAYS	25-12
		DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180 THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184	25-26

FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48	EFFICIENT HIGH POWER XENON AND XENON - RARE GAS MIXTURE LASERS.	20-6
GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA THE ALUMINUM -27 (PROTON,GAMMA) SILICON -28 REACTION.	25-50	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39
GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA THE ALUMINUM -27 (PROTON,GAMMA) SILICON -28 REACTION.	25-50	GAS CALORIMETER FOR USE AT 10.6 MICRONS.	20-47
MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON,NEUTRON) HELIUM -3 REACTION.	25-67	MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-88
NEODYMIUM -143 (NEUTRON,GAMMA) REACTION.	25-72	MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29
GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE.	26-11	PIION CONDENSATION IN AN INTERACTING NEUTRON GAS.	22-40
PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23	NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24	INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8	EXIT GAS THERMOCOUPLE RESPONSE IN LWI REACTORS.	30-12
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	GASES COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES.	20-23
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2	GASIFICATION PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2	GATING NANOSECOND GATING OF GENERATION II IMAGE INTENSIFIERS.	20-89
KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.	30-19	GAUSSIAN USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENT.	30-20	GCT PREPARATION AND PROPERTIES OF THE POLYMERS DIAION-DUCTIN AND DIACIN-DICTIN.	5-89
GAP COMPUTED ENERGY GAP IN KRYPTON.	4-7	GELS IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51
GARNET OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM - ALUMINIUM - GARNET LASER RADIATION.	17-32	GENERALIZATIONS GENERALIZATIONS OF PADE APPROXIMANTS.	27-6
GAS ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	GENERALIZED ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.	4-60
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1'-AZOBISCARBAMIDE.	9-4
GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES	4-21	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6-TRIAMINO-S-TRIAZINE.	9-5
INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS	4-26	GENERALIZED PYTHAGOREAN THEOREM.	21-26
NUMBER OF ATOMS FORMED PER ION PAIR IN THIRIUM GAS. CORRELATION WITH MOLECULAR PROCESSES	4-28	GENERATE DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2).	21-16
HYDROGEN GAS - LIQUID MIXING	8-17	EVXS A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-26
MONTÉ CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61	GENERATED ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80
COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES	13-2	GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID - TRANSURANIC WASTES.	17-20
THIN METAL WINDOWS FOR GAS TARGETS	13-20	MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOUR.	20-80
FISSION GAS AND VOID VOLUME MEASURING SYSTEM	13-6	APPLICATIONS OF COMPUTER GENERATED PERSPECTIVE PLOTS.	21-1
CARBON DIOXIDE GAS LASER EXCITATION AND GAIN	20-23	COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9
COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES	20-23	Coupled Neutron - Gamma Multigroup Multitable Cross Sections for 29 Materials Pertinent to Nuclear Weapons Effect Calculations Generated by LASL TD Division	25-30
EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER	20-31	STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND PWRM GENERATED WASTES	20-55
EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER	20-31		
EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER	20-32		

GENERATION POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE.	1-27	GIGAPASCAL. METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13
NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20	GIVEN CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS.	10-5
GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48	GLASS HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANE PRODUCED GLASS HOLE LININGS.	11-14
GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49	STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.	20-130
HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50	HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS LASER SYSTEM.	20-51
NANOSECOND GATING OF GENERATION II IMAGE INTENSIFIERS.	20-89	HIGH POWER NEODYMIUM : GLASS LASER SYSTEM FOR FUSION RESEARCH.	20-53
GENERATOR DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLOSION HEATING EXPERIMENT.	10-10	GLASSES SELECTED PHYSICOCHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29
SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70	GLOVE RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61
GEOLOGY GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9	GODIVA ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON.	20-1
GEOMAGNETIC BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4	GOES CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
GEOMETRICAL CHEMICAL REACTION DYNAMICS. PART 1. GEOMETRICAL STRUCTURE.	6-1	GOES CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-24
GEOMETRY HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY.	8-15	GOLD FISSION OF URANIUM -238, BISMUTH -209 AND GOLD -197 WITH INTERMEDIATE ENERGY HELIUM -4 IONS.	16-14
THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.	20-137	NEUTRON SCATTERING CROSS SECTION OF GOLD -197.	25-74
GEOPROSPECTOR CONCEPTUAL DESIGN OF A CORING SUBTERRANE GEOPROSPECTOR.	11-4	GOVERNING INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY.	10-11
GEOTHERMAL GEOTHERMAL ENERGY (TESTIMONY)	11-10	GPA STRUCTURE OF LITHIUM HYDRIDE TO 12 GPA.	9-17
GEOTHERMAL ENERGY: A NEW APPLICATION OF ROCK MECHANICS	11-11	GRADE PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM -238 FUELS, JULY 1, 1971 - JUNE 30, 1973.	5-08
GEOTHERMAL POWER.	11-12	GRADIENT QUIET CORONA: TEMPERATURE AND TEMPERATURE GRADIENT.	3-26
GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATION - GF SUBTERRANE DEVICES: A STATUS REVIEW.	11-13	LIQUID PHASE SINTERING OF TUNGSTEN -NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15
LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM.	11-19	GRANITE INSTRUMENTATION FOR GRANITE TEST NO. 1.	11-17
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES.	11-22	INSTRUMENTATION FOR GRANITE TEST NO. 1.	11-18
POTENTIAL FOR THE PRODUCTION OF POWER FROM GEOTHERMAL RESOURCES.	11-23	SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-26
PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24	EXPERIMENTAL MEASUREMENT OF IN-SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING.	11-8
ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT VOLCANIC ROCK	11-3	GRANULES IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.	5-50
GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9	GRAPHICS INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN.	21-28
GHOSTS EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-46	GRAPHITE COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS.	21-10
GIANT OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28.	25-79	METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-80	GRAPHITES DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10
GIBBS STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM-238/NICKEL-117.	7-14		
GIBBA BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GIBBA	21-5		

GRAPHS			
DISTANCE IN GRAPHS AND DIGRAPHS.	21-17	G1	METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.
ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON - NUCLEON SCATTERING.	25-3	H-	SIMULTANEOUS STEERING OF H+ AND H- BEAMS AT LAMPE.
GRAVITATIONAL PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.	3-24	HABERLAND	REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.
GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES.	8-14	HADRON	NAIVE VIEW OF HIGH ENERGY HADRON - NUCLEUS COLLISIONS.
GRAVITON			
MASS OF THE GRAVITON.	27-9		
GRAVITY			
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23		QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14		QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.
GROUND			
ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12	HADRONIC	QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22		QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23	HAEMOPHILUS	ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.
REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102	HAFNALOYS	COMPATIBILITY OF HAFNALOYS 105 AND 150 WITH PLUTONIUM -238 DIOXIDE.
CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19	HAFNIA	MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA - TITANIA COMPOSITION.
GROUP			
IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS.	9-9	HAFNIUM	DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.
ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24		APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180.
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8	HALF	MEASUREMENTS ON HALF WAVELENGTH HELIX RESONATORS
IMPACT OF AECM-05H ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14		HALF LIFE OF EUROPIUM -155.
GROWING			
EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	HALIDES	LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.
GROWTH			
MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-45	HALO	DETERMINATION OF THE NEUTRON HALO FROM ANTIPROTON ABSORPTION
GRUNEISEN			
LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES	4-30	K-	ABSORPTION AND THE NEUTRON HALO OF LEAD.
GT 2			
GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9	HALOGENS	EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SPIN IN NEUTRAL CHLORINE AND OTHER HALOGENS.
GUADALUPE			
PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE	30-29	HAMILTONIAN	LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA HAMILTONIAN
GUIDE			
PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD	20-106	HAMMERSTEIN	REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS.
GUIDELINES			
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES	17-20	HAMSTER	SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS
GW			
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM	20-1		SYNTHESIS OF HETEROGENEOUS NUCLEAR 1 FORMOSOMAL MESSENGER LIKE AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.
100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM	20-2		EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS
GYNECOLOGICAL			
AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS	5-8		

FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48	HEAT INTERPLANETARY HEAT CONDUCTION IMP-7 RESULTS.	1-14
OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-79	ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM - PLUTONIUM DIOXIDE.	7-1
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	RADIATION CHARACTERISTICS OF PLUTONIUM-238 DIOXIDE HEAT SOURCES.	7-12
HANDBOOK C-DIVISION SOFTWARE BRANCH PROJECT HANDBOOK.	21-6	POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23
HAPPENED SOME FUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD.	21-55	HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39
HARMONIC HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50	MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61
HARTLEY BOOK REVIEW BIOMETRIKA TABLES FOR STATISTICIANS, VOL. 2, BY E.S. PEARSON AND H.O. HARTLEY.	21-4	HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRENE PRODUCED GLASS HOLE LININGS.	11-14
HARTREE-FOCK STABILIZATION OF SOLUTION OF THE HARTREE-FOCK EQUATIONS.	4-47	PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14
RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101	PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16
HAZARD AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JANUARY 1 THROUGH JUNE 30, 1974.	17-1	INTERACTION OF PLUTONIUM-238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.	17-26
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JULY 1 THROUGH DECEMBER 31, 1973.	17-2	SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST, PHASE 1 LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67
OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM YTTRIUM-ALUMINUM-GARNET LASER RADIATION.	17-32	AYER HEAT CONDUCTION COMPUTER PROGRAM.	21-2
HAZARDOUS SAFETY MANUAL, L-DIVISION, LASER RESEARCH AND TECHNOLOGY, SUPPLEMENT 1, HAZARDOUS CHEMICALS FLUORINE (F2).	17-46	MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	21-17
HEALTH ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.	5-102	PERFORMANCE CHARACTERISTICS OF PLUTONIUM-238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24
ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973.	5-3	NUCLEAR PROCESS HEAT APPLICATIONS, 1974, 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM, PROCEEDINGS.	25-7
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JANUARY 1 THROUGH JUNE 30, 1974.	17-1	OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES.	28-8
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JULY 1 THROUGH DECEMBER 31, 1973.	17-2	CONCEPTUAL DESIGN OF A HEAT PIPE METHANATOR.	30-5
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944.	17-22	HEATER SUBTERRENE ELECTRICAL HEATER DESIGN AND MORPHOLOGY.	11-30
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944.	17-22	HEATING DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-10
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944.	17-23	FAST WAVE HEATING OF TOKAMAK PLASMAS.	10-39
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.	17-24	HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-41
NUCLEAR EXPLOSION 16 JULY 1945, HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30	JOULE LOSSES IN LINEAR THETA PINCHES LASER VS MAGNETIC HEATING.	10-49
OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK.	17-31	LASL IMPLSION HEATING EXPERIMENT.	10-54
QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AIHA.	17-55	MIXED SNOWPLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.	10-60
RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62	PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING.	10-78
RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1972, THROUGH JUNE 3, 1973.	17-64	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92
		STAGED THETA PINCHES WITH IMPLSION HEATING.	10-98
		PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106
		HEAVY SOLAR WIND HEAVY ION ABUNDANCES.	1-32
		CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI.	16-1

CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19	TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118
POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS.	25-91	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN-2 (DEUTERON, NEUTRON) HELIUM-3 REACTION WITH EDI FROM 6 TO 17 MEV AND BY THE HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 REACTION WITH EDI FROM 6 TO 16 MEV.	25-2
HEIGHT SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN-2 (DEUTERON, NEUTRON) HELIUM-3 REACTION WITH EDI FROM 6 TO 17 MEV AND BY THE HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 REACTION WITH EDI FROM 6 TO 16 MEV.	25-2
HELICAL STABILITY OF DIFFUSE HIGH BETA HELICAL SYSTEMS.	10-96	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM-3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
HELICALLY EQUILIBRIUM AND STABILITY OF L = 1 HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS.	10-24	ELASTIC SCATTERING OF NEUTRONS FROM HELIUM-3 BETWEEN 7.9 AND 23.7 MEV.	25-42
HELIUM HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND.	1-10	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM-4 AND HELIUM-3 (DEUTERON, PROTON) HELIUM-4 REACTIONS.	25-47
HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS.	1-11	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM-4 AND HELIUM-3 (DEUTERON, PROTON) HELIUM-4 REACTIONS.	25-47
SOLAR WIND HELIUM(2+) TO HYDROGEN(+) TEMPERATURE RATIO.	1-33	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM-4 AND HELIUM-3 (DEUTERON, PROTON) HELIUM-4 REACTIONS.	25-47
UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35	ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-46
SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44	LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-49
FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM.	8-13	MAGNESIUM-26 (TRITON, HELIUM-3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM-26.	25-61
GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES.	8-14	MAGNETIC FORM FACTOR OF HELIUM-3.	25-62
HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY.	8-15	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON, NEUTRON) HELIUM-4 REACTION.	25-67
HYDRODYNAMIC THEORY CORRELATION FOR 72 HELIUM EVAPORATORS.	8-16	MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON-HELIUM-3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.	25-68
MELTING PRESSURE OF HELIUM-3 AT VERY LOW TEMPERATURES.	8-19	OXYGEN-16 (ALPHA, HELIUM-3) NITROGEN-16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83
COMMENT ON NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM.	8-2	POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM-3 REACTION AT 10 MEV.	25-85
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 AT 5.97 AND 9.9 MEV.	25-86
DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9	POLARIZATION TRANSFER IN HELIUM-3 (DEUTERON, DEUTERON) HELIUM-3 ELASTIC SCATTERING.	25-87
X RAY STUDY OF HELIUM-4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	9-20	POLARIZATION TRANSFER IN HELIUM-3 (DEUTERON, DEUTERON) HELIUM-3 ELASTIC SCATTERING.	25-87
OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM-2 LINE PROFILES.	19-63	POLARIZATION TRANSFER IN PROTON-HELIUM-3 ELASTIC SCATTERING AT 16 MEV.	25-88
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON< PROTON - FISSION), (HELIUM-3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON<ALPHA - FISSION) STUDIES.	16-10	POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM-3 REACTION.	25-89
FISSION OF URANIUM-238, BISMUTH-209 AND GOLD-197 WITH INTERMEDIATE ENERGY HELIUM-4 IONS.	16-14	POLARIZED PROTONS ON HELIUM-3 AT 13.6 MEV.	25-90
MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM-3, DEUTERON - FISSION) AND (HELIUM-3, TRITON - FISSION) REACTIONS.	16-21	R-MATRIX ANALYSIS OF PROTON-HELIUM-3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96
MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM-3, DEUTERON - FISSION) AND (HELIUM-3, TRITON - FISSION) REACTIONS.	16-21	HELIX MEASUREMENTS ON HALF WAVELENGTH HELIX RESONATORS.	19-15
URANIUM-235 ENRICHMENT DETERMINATION USING HELIUM-4 PROPORTIONAL COUNTERS.	19-23	HELLMUT REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14
EFFECT OF ELECTRON-ELECTRON AND ELECTRON-ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	HEMOLYTIC ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1
LIQUID HELIUM-II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS.	22-24	KINETICS OF HEMOLYTIC PLAQUE FORMATION.	5-61
SPIN AND ISOSPIN EFFECTS IN PI-HELIUM-4 SCATTERING.	22-55	ON THE MECHANISM OF HEMOLYTIC PLAQUE INHIBITION.	5-61
HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM-238 DIOXIDE.	24-11		
STUDY OF THE MAGNESIUM-24 (HELIUM-3, TRITON) ALUMINUM-24 REACTION AT E (HELIUM-3) = 38.2 MEV.	25-111		

HEPA		STRUCTURE OF CERIUM METAL AT HIGH PRESSURE.	9-10
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36	X RAY STUDY OF HELIUM 4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	9-20
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JANUARY 1 THROUGH JUNE 30, 1974.	17-37	DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-20
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JULY 1 THROUGH DECEMBER 31, 1974.	17-38	DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN CROWBAR SWITCH	10-12
TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS.	17-74	EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK.	10-21
HEPARAN		FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH	10-25
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49	HIGH BETA TOKAMAK.	10-40
ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60	HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-41
HEPARIN		KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	10-55
HERMITE		SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85
SOME APPROXIMATION RESULTS FOR HERMITE CUBIC SUBSPACES	21-53	STABILITY OF DIFFUSE HIGH BETA HELICAL SYSTEMS.	10-86
HETEROGENEOUS		CARBON 13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
SYNTHESIS OF HETEROGENEOUS NUCLEAR INFORMOSOMAL MESSENGER-LIKE AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110	COMMENTS ON: LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS.	18-6
HETEROPOID		CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1
DETECTION OF HETEROPOID TUMOR CELLS.	5-28	HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11
NATURE OF CHROMOSOME INSTABILITY IN HETEROPOID CELL POPULATIONS.	5-75	HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR.	19-12
HEXACYANIDE		OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
BONDING IN MHD TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2	PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105
HEXACYANIDES		SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-120
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES. M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45	SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-121
HEXAFLUORIDE		TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144
ELECTRONIC STRUCTURE OF URANIUM HEXAFLUORIDE.	4-15	EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER.	20-34
INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26	EFFICIENT HIGH POWER XENON AND XENON -RARE GAS MIXTURE LASERS.	20-35
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.	1-58	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE.	25-77	HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS LASER SYSTEM.	20-51
MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS.	26-14	HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52
URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL.	26-28	HIGH POWER NEODYMIUM : GLASS LASER SYSTEM FOR FUSION RESEARCH.	20-53
CONTINUOUS IN-LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT.	26-6	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-5
HF		METHOD OF FOCUSING A HIGH POWERED LASER BEAM.	20-83
COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HF(V) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-1	HIGH INTENSITY MESON FACILITIES.	22-18
COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HF(V) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-3	NAIVE VIEW OF HIGH ENERGY HADRON -NUCLEUS COLLISIONS.	22-30
HIGH		NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP.	22-33
OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24		
SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS.	1-30		
DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6		
LATTICE MODEL CALCULATION OF HUGONOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30		
DESIGN CONSIDERATIONS FOR A HIGH PRESSURE, EQUATION OF STATE EXPERIMENT.	4-9		
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49		

HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS.	23-12	HOMOPOLYMERS COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25
SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS.	23-30	HOST IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE.	23-36	HOW HOW MUCH OF A BUBBLE IS THERE IN MERCURY -184	25-52
VACUUM POLARIZATION IN HIGH Z, FINITE SIZE NUCLEI.	25-121	HPIC1 ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.	5-2
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17	HSA SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST, PHASE 1: LOW VELOCITY HSA (HEAVY SOURCE ASSEMBLY) IMPACT.	17-67
SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	28-18	HTGR NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17
HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.	28-4	INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-4
HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	28-5	HUCKEL EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18
INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6	HUGONIOT HUGONIOT EQUATION OF STATE OF BERYLLIUM OXIDE.	4-24
OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES.	28-8	HUGONIOT EQUATIONS OF STATE OF LITHIUM -HYDROGEN -6, LITHIUM -DEUTERIUM -6, LITHIUM -HYDROGEN -X, AND LITHIUM -DEUTERIUM -X.	4-25
HIGHER FORMATION OF PARHELIA AT HIGHER SOLAR ELEVATIONS.	3-10	LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUENEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30
MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34	HUMAN STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-408
THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING.	10-105	IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50
EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS.	22-13	IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.	5-53
HILL GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-465
HISTOLOGY SCRAPIE HISTOLOGY IMAGE ENHANCEMENT.	5-103	RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99
HISTONE SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE.	5-105	HUMAN EXPERIENCE.	17-25
CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16	HYBRID HYBRID SIMULATION OF PINCH IMPLOSIONS.	10-43
METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70	PARAMETRIC INSTABILITIES AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67
HISTONES METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70	MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.	12-5
HIT HIT: A MONTE CARLO TARGET COVERAGE ROUTINE.	21-27	HYDRAULIC RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK.	11-25
HMX PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL -3,7- DINITRO 1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.	15-6	SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28
HOLE HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14	EXPERIMENTAL MEASUREMENT OF IN SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING.	11-8
GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9	CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4
STRONTIUM -87 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108	HYDRAZINE USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17
HOLES AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	HYDRIDE X RAY SPECTROGRAPHIC DETERMINATION OF IRIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18
HOLOGRAM OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	19-18	STRUCTURE OF LITHIUM HYDRIDE TO 12 GPA.	9-17
HOLOGRAPHIC HOLOGRAPHIC INTERFEROMETRY ON SCYLLAC.	10-42	DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37
OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.	10-63	HYDRO-BURN PHYSICS IN LASER'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20-104
HOMOPOLAR INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER.	10-46		

HYDROCODES TEST PROBLEMS FOR HYDROCODES.	18-28	MULTI-KILOJOULE HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86
HYDRODYNAMIC HYDRODYNAMIC THEORY CORRELATION FOR 72 HELIUM EVAPORATORS.	8-16	CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4
INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY.	18-11	CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4
HYDRODYNAMICS NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16	PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24	PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
CALCULATION OF IONIZATION IN HYDRODYNAMICS CODES. 1. THEORY.	13-3	PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45
HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLoded DEUTERIUM - TRITIUM SPHERE.	20-54	TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118
HYDROGEN HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND.	1-10	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV.	25-123
SOLAR WIND HELIUM(2+) TO HYDROGEN(+) TEMPERATURE RATIO.	1-33	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV.	25-123
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH EID FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH EPI FROM 6 TO 16 MEV.	25-2
HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUTEK (1973F).	3-12	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH EID FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH EPI FROM 6 TO 16 MEV.	25-2
DETECTION OF HYDROGEN CYANIDE IN COMET KOHOUTEK (1973F).	3-5	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON, NEUTRON) HELIUM -4 REACTION.	25-67
HUGONIOT EQUATIONS OF STATE OF LITHIUM -HYDROGEN -6, LITHIUM -DEUTERIUM -6, LITHIUM -HYDROGEN -N, AND LITHIUM -DEUTERIUM -N.	4-25	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 AT 5.97 AND 9.9 MEV.	25-86
ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	28-5
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57
TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $O + H_2$ YIELDS $OH + H$.	6-17	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57
UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	HYDROGENIC ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES.	18-1
UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	HYDROGENLIKE HETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGENLIKE ATOM.	4-5
KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7	HYDROQUINONE KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(IV) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8
QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. JANUARY 1 THROUGH MARCH 31, 1974.	7-10	HYPERBOLIC RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.	7-8	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8
QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. APRIL 1 THROUGH JUNE 30, 1974.	7-9	HYPERFINE NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IRIUM IN IRON.	8-21
HYDROGEN GAS - LIQUID MIXING.	8-17	HYPERON HYPERTRITON AS A TEST OF THEORETICAL HYPERON - NUCLEON POTENTIALS.	22-19
PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.	8-30	HYPERTRITON HYPERTRITON AS A TEST OF THEORETICAL HYPERON - NUCLEON POTENTIALS.	22-19
LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4	HYPOTHESIS DILATATION AND THE SLIP-PATCH HYPOTHESIS.	11-6
CRYOGENICS SAFETY IN A HYDROGEN FUEL SOCIETY.	17-11		
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1		
100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM.	20-2		
AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8		
MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84		

ICT PREPARATION AND PROPERTIES OF THE POLYMERS DiAl ₂ N ₂ AND DiAl ₂ N ₂ DiGD ₂ N ₂ .	5-89	IMPLEMENT ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37
IDENTIFYING IDENTIFYING, MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS.	22-20	IMPLICATIONS AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8
IGNITION TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR O + H(2) YIELDS OH + H.	6-17	IMPOSED HYDRODYNAMICS AND BURN OF OPTIMALLY IMPOSED DEUTERIUM - TRITIUM SPHERES.	20-54
SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11	IMPLOSION DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLOSION HEATING EXPERIMENT.	10-10
ILLUSTRATION ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES.	6-6	HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLOSION HEATING EXPERIMENT.	10-41
IMAGE SCRAPIE HISTOLOGY IMAGE ENHANCEMENT.	5-103	LASL IMPLOSION HEATING EXPERIMENT.	10-54
NANOSECOND GATING OF GENERATION II IMAGE INTENSIFIERS.	20-80	MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE.	10-58
DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY.	21-13	RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-P THETA PINCH IMPLOSION: FLUTE INSTABILITIES.	10-82
FORTRAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION.	23-10	STAGED THETA PINCHES WITH IMPLOSION HEATING.	10-58
IMAGING OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	19-18	IMPLOSION CHARACTERISTICS OF DEUTERIUM -TRITIUM SPHERES FOR LASER FUSION	20-55
PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 - JULY 1973.	20-113	IMPLOSIONS HYBRID SIMULATION OF PINCH IMPLOSIONS.	10-43
FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44	SYMMETRY AND STABILITY OF LASER INDUCED IMPLOSIONS.	20-133
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98	SYMMETRY OF LASER DRIVEN IMPLOSIONS.	20-134
IMMEDIATE COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	ABLATION STABILITY OF LASER DRIVEN IMPLOSIONS.	20-5
IMMUNE PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1.	5-82	ABLATION STABILITY OF LASER DRIVEN IMPLOSIONS.	20-6
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2.	5-83	ABLATION SYMMETRY OF LASER INDUCED IMPLOSIONS.	20-7
PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84	IMPULSE IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-21
IMMUNOCOMPETENT ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5	IMPULSES THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57
IMMUNODIFFUSION IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51	IMPURITIES COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2
IMMUNOFLORESCENCE QUANTITATIVE IMMUNOFLORESCENCE MEASUREMENTS OF SV40 T-ANTIGEN PRODUCTION.	5-95	IMPURITY MODIFIED CUFFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-12
IMMUNOLOGICAL THEORY OF PRECIPITATION AND AGGLUTINATION REACTIONS IN IMMUNOLOGICAL SYSTEMS.	5-112	IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
IMP VELA AND IMP PLASMA FLOW OBSERVATIONS.	1-36	IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-13
IMP-7 INTERPLANETARY HEAT CONDUCTION: IMP-7 RESULTS.	1-14	NEW THEORY FOR IMPURITY DIFFUSION IN METALS.	23-22
IMPACT ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-22	IN-LINE IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12
SAFETY TEST NO.8-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67	CONTINUOUS IN-LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT.	26-6
IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14	IN-SITU IMPORTANCE OF THE PERMEABILITY FACTOR IN IN-SITU STRESS DETERMINATIONS.	11-15
IMPINGING TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144	EXPERIMENTAL MEASUREMENT OF IN-SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING.	11-10
IMPLANTED BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	INCOHERENT COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6
		INCOMPLETE ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.	5-2
		INCOMPRESSIBLE STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW.	18-25

INCORPORATED PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40	INDUCTION ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HP1C1.	5-2
INCORPORATION EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DDA-TIN - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55
INCREASE USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17	INDUCTIVE EXPLODING FOIL DEVELOPMENT FOR INDUCTIVE ENERGY CIRCUIT.	10-29
INCREASED INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14	INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER.	10-46
INDEPENDENT INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	INDUCTIVE MODEL FOR MULTIDIMENSIONAL PLASMA SIMULATION.	10-47
INDEPENDENT YIELDS OF XENON -133M, XENON -133G, XENON -135M AND XENON -135G FROM FISSION.	16-18	INDUSTRIAL USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17
INDICATIONS INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56	OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES.	28-8
INDUCED NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16	INDUSTRY ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY.	30-11
EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	INELASTIC ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40
ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42	INERT COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2
FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12	INFECTION FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48
FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13	INFERENCE BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GIBBA.	21-5
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM -1 NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	INFLUENCE INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.	10-48
INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	INFLUENZAE ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HP1C1.	5-2
NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24	INFORMATION PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24
MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE.	18-14	MANAGEMENT INFORMATION FOR LAMPF.	22-26
DETONATION INDUCED TWO DIMENSIONAL FLOWS.	18-8	LASL TECHNICAL INFORMATION MANUAL.	30-21
SPECTRUM OF BACKSCATTERED 10 MICROWATTRE LIGHT FROM LASER INDUCED PLASMAS.	20-125	INFORMOSOMAL SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
SYMMETRY AND STABILITY OF LASER INDUCED IMPLSIONS.	20-133	INFRARED NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14
TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15
BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY.	20-15	SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE.	20-126
CALCULATIONS OF LASER INDUCED SPALL IN ALUMINUM TARGETS.	20-19	INHALATION RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61
COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES.	20-23	INHALED RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97
LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-62	INHIBITION ON THE MECHANISM OF HEMOLYTIC PLAQUE INHIBITION.	5-81
ABLATION SYMMETRY OF LASER INDUCED IMPLSIONS.	20-7	INHOMOGENEOUS STABILITY ANALYSIS OF INHOMOGENEOUS PLASMA EQUILIBRIA.	10-94
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.	20-74	PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA.	20-102
LASER INDUCED PLASMAS IN ELECTRIC FIELDS.	20-75	NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91
LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER.	20-76		
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81		
NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-96		
FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48		
NEUTRON INDUCED FISSION CROSS SECTION OF URANIUM -237.	25-73		

INITIAL STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15	INSTABILITY NATURE OF CHROMOSOME INSTABILITY IN HETEROCLONAL CELL POPULATIONS	5-25
INITIAL VALUE PROBLEMS OF THE RAYLEIGH-TAYLOR INSTABILITY TYPE.	10-10	TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113
INITIATED KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7	EFFECTS OF FINITE META AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY	10-15
0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1	INITIAL VALUE PROBLEMS OF THE RAYLEIGH-TAYLOR INSTABILITY TYPE.	10-10
APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS.	20-12	TAYLOR INSTABILITY IN SOLIDS	10-27
SURVEY OF LASER INITIATED FUSION RESEARCH.	20-132	TWO FREQUENCY NONLINEAR TAYLOR INSTABILITY	10-31
100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM.	20-2	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES	20-117
INITIATION INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES	20-119
INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGONUCLEOTIDES.	5-57	COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY	20-22
MULTI-KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES	20-46	MULTI-STREAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUANTUM PLASMA	10-27
INITIATIVES INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY.	11-16	NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DEBRAY INSTABILITY FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974	20-26
INITIO AB INITIO POTENTIAL CURVES FOR THE NEON (3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2	INSTITUTE RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH JULY 1, 1973 THROUGH JUNE 30, 1974	17-62
INJECTION TRANSFORMER FOR INJECTION EXPERIMENTS.	10-109	RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH JULY 1, 1972 THROUGH JUNE 3, 1973	17-64
INJURY RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101	INSTRUMENT PHOTON SOURCES FOR INSTRUMENT CALIBRATION	10-19
INS TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE. INS.	13-21	NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION	20-13
INSOLUBLE UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES	5-114	FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT	20-9
REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS	17-65	INSTRUMENTATION POSSIBLE APPLICATIONS OF FLOW MICROFLUORIMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY	5-42
INSTABILITIES KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50	INSTRUMENTATION FOR GRANITE TEST NO. 1	11-12
KINK INSTABILITIES IN ARBITRARY CROSS SECTION PLASMAS.	10-51	INSTRUMENTATION FOR GRANITE TEST NO. 2	11-14
KINK INSTABILITIES IN THE BELT PINCH.	10-52	SUBTERRANEAN INSTRUMENTATION REQUIREMENTS	11-31
PARAMETRIC INSTABILITIES AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67	INSTRUMENTS DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON HEMMETER INSTRUMENTS.	17-14
PARAMETRIC INSTABILITIES OF WHISTLERS	10-69	MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS	20-14
RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-B THETA PINCH IMPLSION; FLUTE INSTABILITIES.	10-82	INSULATOR UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTTR). A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1970	10-114
PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA.	20-102	ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR	10-17
PLASMA INSTABILITIES IN THE PRESENCE OF A LARGE THERMAL FLUX.	20-107	INTEGRAL INTEGRAL TESTS OF FISSION PRODUCT DATA FILES	16-19
STANDING WAVE PUMPED PARAMETRIC INSTABILITIES.	20-128	NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING	21-34
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.	20-74	METHODS OF TREATMENT OF DISPLACEMENT INTEGRAL EQUATIONS	21-6
LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79	NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT	21-9
NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.	20-92	CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	21-28
		INTEGRAL EXPERIMENT DATA FOR HIGH TEMPERATURE GAS COOLED REACTOR SAFETY STUDIES	20-4
		INTEGRALS NONRELATIVISTIC SCATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS	1-17

INTEGRATED DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES	12-3	INTERACTIONS	
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES: PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1971	12-4	VAN DER WAALS INTERACTIONS OF CARBON DIOXIDE	4-35
INTEGRATING INTEGRATING ECLIPSE OPTICS INTO THE ABC AIR FORCE FLYING LABORATORY	19-13	STATISTICAL THERMODYNAMICS OF OLIGOMER-POLYMER INTERACTIONS	5-107
INTERGRATION		ESTIMATION OF LASER-PLASMA INTERACTIONS IN THE SCYLLA 1-C THWTA PINCH	10-26
UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION	9-19	COMMENTS ON LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS	10-6
INTERIO DIFFERENTIAL		LASER-TARGET INTERACTIONS	20-63
NUMERICAL METHODS FOR NONLINEAR VOLTERRA INTERIO DIFFERENTIAL EQUATIONS	21-35	OFF-SHELL EFFECTS IN PROTON-NUCLEUS INTERACTIONS	22-37
INTENSE		CAPTURE $\text{Mu} + \text{LITHIUM } 6 + \text{HYDROGEN } 2 + \text{HYDROGEN } 2 + \text{N}^0$ WITH FINAL STATE INTERACTIONS	22-4
INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON-ION COLLISION RATE IN A PLASMA	10-48	PROCESS $\text{Mu} + \text{LITHIUM } 6 \text{ YIELDS } \text{HYDROGEN } 2 + \text{HYDROGEN } 2 + \text{N}^0$ WITH FINAL STATE INTERACTIONS	22-41
TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE IONS	12-21	RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	23-100
MULTI-WAVERLENGTH HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM IONIZATION OF HYDROGEN-FLUORINE MIXTURES	20-86	INTERACTIVE	
NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE	20-92	INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN	21-29
ATTEMPTED INTENSE D-D NEUTRON SOURCE	12-16	INTERATOMIC	
INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET	25-52	INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA	4-27
INTENSIFIERS		INTERCRYSTALLINE	
NANOSCOPIC GATING OF GENERATION II IMAGE INTENSIFIERS	20-89	THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS WITH OR WITHOUT IRRADIATION DAMAGE	23-36
INTENSITIES		INTERFACE	
ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1971 TOTAL SOLAR ECLIPSE	5-3	FORTRAN: A COMPUTER CODE TO CONVERT STANDARD CCCO INTERFACE FILES TO FITS FILES	21-22
INTENSITY		STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III	20-19
QUASISTELLAR DIAMETERS AND INTENSITY FLUCTUATIONS	5-25	INTERFACES	
TEMPORAL OBSERVATIONS OF THE LAMBDA 430 EMISSION LINE PROFILE DURING THE TOTALITY FROM THE CONCORD SITE AT THE 30 JUNE 1971 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	5-27	TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES	20-11
PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FIBERS IRRADIATED BY HIGH INTENSITY LASER PULSES	20-105	INTERFEROMETRIC	
INTENSITY FILTRATION OF LASER LIGHT	20-12	INTERFEROMETRIC MEASUREMENTS OF LASER PRODUCED PLASMAS	20-56
HIGH INTENSITY MESON FACILITIES	21-19	INTERFEROMETRY	
INTERACTING		BIOGRAPHIC INTERFEROMETRY ON SCYLLAC	10-42
PROTON CONDENSATION IN AN INTERACTING NEUTRON GAS	22-10	OBSERVATIONS OF ELECTRON DENSITIES BY BIOGRAPHIC INTERFEROMETRY AND HELIUM-2 LINE PROFILES	10-43
SEPARABILITY IN IDENTIFYING INTERACTING RELATIVISTIC PARTICLE SYSTEMS	23-108	INTERLABORATORY	
INTERACTION		PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS: MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION	2-14
FAST BARIUM PLASMA FLUX-TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADII	1-9	INTERMEDIATE	
EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF $5p^2$ IN NEUTRAL CHLORINE AND OTHER HALOGENS	4-10	PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL-3,7-DINITRO-1,3,5-TRIAZACYCLOOCTANE (DADO), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX	15-6
AN EXACT POTENTIAL CURVES FOR THE SPIN-ORBIT-NEUTRON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN-ORBIT COUPLING	4-7	FUSION OF URANIUM-235, BISMUTH-209 AND GOLD-197 WITH INTERMEDIATE ENERGY HELIUM-4 IONS	16-14
INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS	4-26	DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SUBTHRESHOLD FUSION	16-4
THEORY OF ELECTRON INTERACTION IN METALS	6-51	RELEVANCE OF SOME RECENT NEUTRON-PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES	22-52
INTERACTION OF PLUTONIUM-239 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS	17-26	INTERMETALLIC	
PHYSICS IN LASER ONE-DIMENSIONAL HYDROBURN COMES FOR LASER-PLASMA INTERACTION STUDIES	20-104	MAGNETIC PROPERTIES OF LINEAR INTERMETALLIC COMPOUNDS	20-1
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON-NUCLEUS INTERACTION	22-46	INTERMOLECULAR	
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM-180	23-9	MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS: COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS	4-34
TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM DIOXIDE	20-3	INTERNAL	
		RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	23-100
		INTERPENETRATING	
		INTERPENETRATING SOLAR WIND STREAMS	1-12
		INTERPENETRATING SOLAR WIND STREAMS	1-13

INTERPLANETARY			
INTERPLANETARY HEAT CONDUCTION: IMP-7 RESULTS	1-14	IODINE	
POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE	1-27	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE	1-36	BRANCHING RATIO FOR THE DECAY OF IODINE-135 TO THE ISOMERS OF XENON-135.	25-18
INTERPRETATION		IODIZED	
INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE	4-28	IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.	5-58
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS	5-5	ION	
BNX-100 INTERPRETATION OF NEUTRON X SECTIONS	25-17	OBSERVATIONS OF THE DEVELOPMENT OF STRIATIONS IN LARGE BARIUM ION CLOUDS.	1-22
BNX-100 LIBRARY INTERPRETATION OF NEUTRON X SECTIONS.	25-59	SOLAR WIND HEAVY ION ABUNDANCES.	1-32
INTERROGATION		IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM	26-2	ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11
INTERSECTION		NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38
SURFACES OF REVOLUTION WITH VARIOUS NORMAL INTERSECTION PROPERTIES	21-57	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43
INTERSTELLAR		INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON-ION COLLISION RATE IN A PLASMA.	10-48
COLLISION OF A FAST-100CK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CASSA	3-2	TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE. INS.	13-21
INTRA		ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10
PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION	2-14	COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY.	20-22
INTRACELLULAR		EFFECT OF ELECTRON-ION COLLISIONS AND ELECTRON-ELECTRON COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS	5-39	KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	20-61
INTRAVENOUSLY		POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS.	25-91
DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN	5-12	RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE.	27-12
INTRODUCTION		IONIZATION	
LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION	20-71	SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44
INVARIANCE		CALCULATION OF IONIZATION IN HYDRODYNAMICS CODES. 1. THEORY.	18-3
GALEIAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION NUCLEON ABSORPTION OPERATOR	22-17	DEGRADATION OF A LASER MEDIUM DUE TO IONIZATION BY A LASER PULSE.	20-28
SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM-169 AND LUTETIUM-175 GAMMA RAYS.	25-105	IONIZED	
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM-180, THULIUM-169, LUTETIUM-175, AND TUNGSTEN-184.	25-36	LASER-PLASMA SPECTRA OF HIGHLY IONIZED FLUORINE.	3-13
GAMMA-GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM-169, LUTETIUM-175, AND TUNGSTEN-184	27-5	TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	4-53
INVARIANT		IONIZING	
INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY.	18-11	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS	29-4	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
INVENTORY		EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
COMPUTERIZED INVENTORY DESIGN SYSTEM FOR GRAPHITE MOLDS.	21-10	EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39
INVERSE		EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-39
RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES.	27-13		
INVERSION			
KINETICS FOR POPULATION INVERSION ON THE 557.7 NM (01S) TO (01D) TRANSITION IN ATOMIC OXYGEN.	4-29		
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMIUM CYANIDE IN EXCESS XENON.	6-20		
IODIDE			
METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM-235 USING A SODIUM IODIDE CRYSTAL.	16-22		

IONS		IRRADIATION	
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOM OR PRIMARY ION ENERGIES BELOW 100 EV	4-11	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION 1 LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION	5-2
LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION 2 ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION	5-27
NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS	5-40
POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM	4-40	LUNG IRRADIATION WITH STATIC PLATINUM MICROSPHERES	5-64
REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43	MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5 MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION	5-67
FISSION OF URANIUM -238, BISMUTH -209 AND GOLD -197 WITH INTERMEDIATE ENERGY HELIUM -4 IONS.	16-14	EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLATINUM -20 (60 PERCENT) DIOXIDE 3.	9-7
EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33	IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR	22-22
EXPERIMENTS WITH LASER PRODUCED PLASMAS- ELECTRONS, IONS, AND NEUTRONS.	20-42	STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM PLUTONIUM CARBIDE	23-34
MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238.	25-43	THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE	23-36
IRIDIUM		SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL	28-18
X RAY SPECTROGRAPHIC DETERMINATION OF IRIIDIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18	STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V O URANIUM DIOXIDE CERMET FUEL	28-20
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM	4-45	IRREGULAR DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS.	21-14
NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IRIIDIUM IN IRON	8-21	IRREVERSIBLE DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIIDIUM).	9-3	ISOELECTRONIC THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33
IRON		THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33
THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33	ISOLATION ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45	ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60
NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IRIIDIUM IN IRON.	8-21	ISOMER OBSERVATION OF THE E3 ISOMER OF YTTRIUM -93.	25-81
IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10	ISOMERS BRANCHING RATIO FOR THE DECAY OF IODINE -135 TO THE ISOMERS OF XENON -135.	25-18
BONDING IN M(II) TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2	ISOSPIN SPIN AND ISOSPIN EFFECTS IN PI - HELIUM -4 SCATTERING.	22-55
ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL -1.5 PERCENT IRON COMPOSITE.	23-1	ISOTHERMAL HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR.	19-12
LIQUID PHASE SINTERING OF TUNGSTEN -NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15	ISOTOPE APPARATUS AND METHOD FOR MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.	20-11
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY.	20-15
MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON, NEUTRON) HELIUM -4 REACTION.	25-67	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-9
IRRADIATED		ISOTOPES DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-29
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16
DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-33		
INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56		
PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105		
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3		

SYNTHESIS WITH STABLE ISOTOPES: PYRIMINE (NITROGEN -15)	5-17	JUNE	
SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12	5-18	ABSCITE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE	3-1
FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.	10-11	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE	3-11
STATUS OF LASER SEPARATION OF BORON ISOTOPES - JUNE 1974	20-129	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE	3-15
(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1	POLARISMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE	3-21
NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE	25-77	TEMPORAL OBSERVATIONS OF THE LAMINAR AND EMISSIONS LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORD 68T AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	3-72
ISOTOPIC DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4	K	
FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES	4-19	K-1 TO P-1+1 GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-23
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS	26-13	K	
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.	26-18	K- ABSORPTION AND THE NEUTRON HALO OF LEAD	25-54
ISOTOPICALLY REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43	K-13	
ISSUES CONTEMPORARY CHEMISTRY: CONCEPTS AND ISSUES.	7-3	STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K-13 DECAY	27-17
ITSELF INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26	KACHINA	
IV-P SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100	KACHINA - AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS	18-12
IV-3 PRELIMINARY L(1,0) FEEDBACK FORCE EXPERIMENTS ON SCYLLA IV-3.	10-76	KAON	
JEMEZ PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29	K-1 TO P-1+1 GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-23
JET OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24	KIDNEY	
POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	PRE AND POST VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99
INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET.	25-53	KILOTON	
JOB REMOTE JOB ENTRY SIMULTANEOUS WITH STAND ALONE USAGE OF A PDP-11/20.	21-16	KILOTON SHIELD DOORS AT LAMPF	13-9
JOINT ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20	KIND	
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM, MARCH 16 THROUGH JUNE 30, 1974.	15-10	NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVE PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1974.	15-8	KINETIC	
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM, DECEMBER 1, 1974, THROUGH MARCH 15, 1974.	15-9	KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS	20-80
JOINTS BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES.	13-1	KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	20-61
JOULE JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49	NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-85
		KINETICS	
		KINETICS FOR POPULATION INVERSION ON THE 557.7 NM (01S) TO (01D) TRANSITION IN ATOMIC OXYGEN.	4-29
		UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114
		KINETICS OF HEMOLYTIC PLAQUE FORMATION.	5-61
		REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14
		DETERMINATION OF CONDENSED PHASE KINETICS CONSTANTS.	6-5
		KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7
		KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(VI) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8
		KINETICS OF THE OXIDATION OF PLUTONIUM (III) TO PLUTONIUM(IV) BY CHROMIUM(VI).	6-9
		EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31

KINK TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA	10-109	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(++) + NEON TO KRYPTON(++) + NEON(++) WITH SOME SIMPLE THEORIES	25-27
KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION	10-50	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(++) + NEON TO KRYPTON(++) + NEON(++) WITH SOME SIMPLE THEORIES	25-27
KINK INSTABILITIES IN ARBITRARY CROSS SECTION PLASMAS	10-51	KRYPTON -54 (TRITON,PROTON) KRYPTON -56 AND KRYPTON -56 (TRITON,PROTON) KRYPTON -56 REACTIONS	25-55
KINK INSTABILITIES IN THE BELT PINCH	10-52	MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -57 IONS WITH URANIUM -238	25-63
KIWI EXIT GAS THERMOCOUPLE RESPONSE IN KIWI REACTORS	30-12	L L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES	1-15
KIWI TNT EXPLOSION	30-17	EQUILIBRIUM AND STABILITY OF L = 1 HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS	10-24
KIWI BHB CONTROL SYSTEMS, TEST CELL A	30-18	PRELIMINARY L(1,0) FEEDBACK FORCE EXPERIMENTS ON SCYLLA IV-3	10-76
NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS	30-25	STABILITY OF A FINITE BETA L = 2 STELLARATOR	10-95
DESCRIPTION OF THE KIWI - TNT EXCURSION AND RELATED EXPERIMENTS	30-9	L-DIVISION SAFETY MANUAL, L-DIVISION, LASER RESEARCH AND TECHNOLOGY, SUPPLEMENT 1, HAZARDOUS CHEMICALS: FLUORINE (F2)	17-66
KIWI A KIWI A PRIME GAMMA RAY DOSE RATE MEASUREMENTS	30-19	LABELLED REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV	4-42
KIWI A THREE GAMMA RAY DOSE RATE MEASUREMENT	30-20	DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES	5-31
KIWI-BHB RADIOCHEMICAL MEASUREMENTS ON KIWI-BHB	30-46	EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO	5-44
KIWI-BHA RADIOCHEMICAL MEASUREMENTS ON KIWI-BHA	30-47	LABORATORY FUSION ENGINEERING AT THE LOS ALAMOS SCIENTIFIC LABORATORY	10-34
KJ SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6)	10-102	INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY	11-16
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT, PART 1 DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS	20-38	LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM	11-19
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT, PART 1 DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS	20-38	LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE	13-10
KLYSTRONS PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS	22-38	DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-15
KOHOUTEK HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUTEK (1973F)	3-12	AEROSOL RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-3
DETECTION OF HYDROGEN-CYANIDE IN COMET KOHOUTEK (1973F)	3-5	PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-43
KONDO SUMMARY OF MOSSHAEUER EVIDENCE ASSOCIATED WITH THE KONDO EFFECT	8-32	QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AHA	17-55
KONRAD REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT	6-14	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS	17-78
KOWALSKI'S COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX	25-29	INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY	19-13
KRAK CALCULATION OF STREAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE	18-4	DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY	21-13
KRYPTON COMPUTED ENERGY GAP IN KRYPTON	4-7	ON DUPLICATE MEASUREMENTS IN THE CHEMICAL LABORATORY	21-36
TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE	6-18	ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974	25-8
VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH	10-116	IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP	30-14
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238	16-16	NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY, PART 2, NUCLEAR ROCKET PROPULSION	30-24
STRUCTURE OF KRYPTON -58 DERIVED FROM THE KRYPTON -56(TRITON,PROTON) KRYPTON -58 REACTION	25-109	TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	30-59
		LAGRANGIAN-EULERIAN ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS	18-2
		LAMB RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE	27-12

LAMBDA		0.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM	20-1
TEMPORAL OBSERVATIONS OF THE LAMBDA 500 EMISSION LINE PROFILE DURING THE 71 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	1-32	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM	20-100
LAMINAR		PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER	20-101
COMMENTS ON LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS	16-6	PHYSICS IN LASL'S ONE DIMENSIONAL HYDROBURN CODES FOR LASER PLASMA INTERACTION STUDIES	20-103
LAMPF		PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES	20-105
TECHNIQUES FOR VISUALIZING PION TREATMENT PORTS AT LAMPF	5-111	PROGRESS REPORT LASER PROGRAM AT LASL, JANUARY 1 THROUGH JUNE 30, 1974	20-111
NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PIONEER BIOMEDICAL CHANNEL	5-77	PROGRESS REPORT LASER PROGRAM AT LASL, JULY 1 THROUGH DECEMBER 31, 1973	20-112
PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY	5-92	PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN	20-114
RADIOISOTOPE PROGRAM AT LAMPF	5-98	PULSE UNFOCUSING WITHIN LASER FUSION REACTORS	20-115
STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF)	7-15	SELF FOCUSING OF VERY POWERFUL LASER BEAMS - 2	20-119
KILOTON SHIELD DOORS AT LAMPF	13-9	APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS	20-12
ACTIVATION CONTROL AT LAMPF	22-1	SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-120
EARLY EXPERIMENTS WITH NEUTRON BEAMS AT LAMPF	22-12	SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-121
IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR	22-22	SOME NEUTRONICS ASPECTS OF LASER FUSION REACTORS	20-122
MANAGEMENT INFORMATION FOR LAMPF	22-26	SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA	20-123
NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY	22-31	SPECKLE REDUCTION IN PULSED LASER PHOTOGRAPHS	20-124
NEUTRON FLUX SPECTRA AT LAMPF FOR CTR RADIATION DAMAGE STUDIES	22-32	SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS	20-125
SIMULTANEOUS STEERING OF H+ AND H- BEAMS AT LAMPF	22-34	SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE	20-126
STATUS OF LAMPF EXPERIMENTAL FACILITIES	22-36	STATUS OF LASER SEPARATION OF BORON ISOTOPES - JUNE 1974	20-129
TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL	22-58	SURVEY OF LASER INITIATED FUSION RESEARCH	20-132
TUNEUP OF THE LAMPF LOW ENERGY PION CHANNEL	22-59	SYMMETRY AND STABILITY OF LASER INDUCED IMPLSIONS	20-133
LANTHANIDE		SYMMETRY OF LASER DRIVEN IMPLSIONS	20-134
CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5'- PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE	14-3	TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS	20-140
LANTHANIDES		TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN	20-141
CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL - HYDROCHLORIC ACID	2-2	TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER	20-142
LANTHANUM		TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET	20-144
FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (6)	7-4	WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS	20-147
FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM	23-9	BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY	20-15
LASER		BREMSSTRAHLUNG EMISSION FROM LASER PRODUCED PLASMAS	20-16
LASER - PLASMA SPECTRA OF HIGHLY IONIZED FLUORINE	3-13	CALCULATIONS OF LASER INDUCED SPALL IN ALUMINUM TARGETS	20-19
TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA	4-53	100 GW HYDROGEN - FLUORINE LASER INITIATED BY AN ELECTRON BEAM	20-2
TRANSMISSION SPECTROSCOPY OF LASER PRODUCED PLASMAS	10-110	CARBON DIOXIDE GAS LASER EXCITATION AND GAIN	20-21
ESTIMATION OF LASER - PLASMA INTERACTIONS IN THE SCYLLA 1-C THETA PINCH	10-26	COMPARISON OF LASER INDUCED GAS BREAKDOWN IN VARIOUS GASES	20-23
JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING	10-49	COMPUTATIONAL LASER SYSTEM STUDIES	20-24
LASER FUSION POWER PLANT SYSTEMS ANALYSIS	10-53	DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES	20-26
CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT	10-7	DEGRADATION OF A LASER MEDIUM DUE TO IONIZATION BY A LASER PULSE	20-28
POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS	10-74		
CW LASER DENSITY MEASUREMENTS ON SCYLLAC	10-9		
OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM - ALUMINIUM - GARNET LASER RADIATION	17-32		
SAFETY MANUAL, L-DIVISION, LASER RESEARCH AND TECHNOLOGY, SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2)	17-66		

126.1 NANOMETRE MOLECULAR ARGON LASER	20-3	LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER.	20-76
EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER	20-31	LASER PULSE PROPAGATION CODE.	20-77
EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8
EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA	20-33	MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80
EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER	20-34	MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81
126.1 NANOMETRE MOLECULAR ARGON LASER.	20-4	METHOD OF FOCUSING A HIGH POWERED LASER BEAM.	20-83
ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS.	20-40	MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84
EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41	MODULAR DISC LASER.	20-85
EXPERIMENTS WITH LASER PRODUCED PLASMAS: ELECTRONS, IONS, AND NEUTRONS	20-42	MULTI-KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86
GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES	20-49	MULTISITED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-88
ABLATION STABILITY OF LASER DRIVEN IMPLSIONS.	20-5	NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-96
HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98
HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS LASER SYSTEM.	20-51	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-99
HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52	LASERS	
HIGH POWER NEODYMIUM - GLASS LASER SYSTEM FOR FUSION RESEARCH.	20-53	POTENTIAL LASERS FOR LCTR APPLICATIONS.	20-110
IMPLOSION CHARACTERISTICS OF DEUTERIUM - TRITIUM SPHERES FOR LASER FUSION	20-55	EFFICIENT HIGH POWER XENON AND XENON - RARE GAS MIXTURE LASERS.	20-35
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56	ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-36
INTENSITY FILTRATION OF LASER LIGHT.	20-57	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 2. PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS.	20-37
INTERFEROMETRIC MEASUREMENTS OF LASER PRODUCED PLASMAS.	20-58	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38
INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER.	20-59	ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38
ABLATION STABILITY OF LASER DRIVEN IMPLSIONS.	20-6	ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39
KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	20-7	GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48
LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-42	KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS.	20-60
LASER - TARGET INTERACTIONS.	20-43	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8
LASER AMPLIFIER DESIGN.	20-64	METAL ATOM OXIDATION LASERS.	20-82
LASER AMPLIFIER DESIGN.	20-65	ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS.	20-9
LASER CONTROLLED THERMONUCLEAR REACTOR DESIGN PROBLEMS.	20-66	OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97
LASER CONTROLLED THERMONUCLEAR REACTOR MATERIALS REQUIREMENTS.	20-67	LASL	
LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES.	20-68	ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973.	5-3
LASER CTR SYSTEM STUDIES.	20-69	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974.	8-25
ABLATION SYMMETRY OF LASER INDUCED IMPLSIONS.	20-7	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-26
LASER DRIVEN SUPERCOMPRESSION OF SHELLS.	20-70	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION.	20-71		
LASER FUSION FOR LAYMEN.	20-72		
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73		
LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.	20-74		
LASER INDUCED PLASMAS IN ELECTRIC FIELDS.	20-75		

PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-28	EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM -238 (80 PER CENT) DIOXIDE. 3.	9-7
PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29	IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS.	9-8
DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-10	TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS.	29-4
HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLSION HEATING EXPERIMENT.	10-41	LAUNCH SAFETY TEST NO.8-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67
LASL IMPLSION HEATING EXPERIMENT.	10-54	LAW TITUS-BODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM.	3-34
PROGRESS REPORT. LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973.	10-79	LAWRENCIUM ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12
REVIEW OF SFX/PTF FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84	LAWS SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85
LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION.	13-11	LAYER MAGNETOTAIL'S SURFACE LAYER AND THE CLEFT.	1-17
USE OF OPTICAL PROFILOMETER SYSTEM AT LASL.	13-22	OBSERVATIONS OF THE MAGNETOTAIL SURFACE LAYER WITH THE VELA SATELLITES.	1-23
PROGRESS REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39
QUARTERLY REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-57F AIRCRAFT.	19-8	LAYMEN LASER FUSION FOR LAYMEN.	20-72
PROGRESS REPORT. LASER PROGRAM AT LASL, JANUARY 1 THROUGH JUNE 30, 1974.	20-111	LCTR POTENTIAL LASERS FOR LCTR APPLICATIONS.	20-110
PROGRESS REPORT. LASER PROGRAM AT LASL, JULY 1 THROUGH DECEMBER 31, 1973.	20-112	LEAD NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD -206 MEASUREMENTS.	22-35
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT. PART 1. DESIGN OF THE LASL 1 KJ AND 10 KJ CARBON DIOXIDE LASERS.	20-38	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-9
HIGH ENERGY AMPLIFIERS FOR THE LASL GLASS LASER SYSTEM.	20-51	ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON,PROTON) LEAD -206 REACTION.	25-44
COUPLED NEUTRON - GAMMA MULTIGROUP - MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/7D DIVISION.	25-30	ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON,PROTON) LEAD -206 REACTION.	25-44
LASL STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE.	25-56	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON,PROTON) LEAD -208.	25-45
ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON,PROTON) LEAD -208.	25-45
IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14	K- ABSORPTION AND THE NEUTRON HALO OF LEAD.	25-54
LASL TECHNICAL INFORMATION MANUAL.	30-21	TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE.	29-3
PACER PROGRAM. FY-1974 LASL ACTIVITY.	30-28	LEADING BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS.	5-11
PUBLICATIONS OF LASL RESEARCH 1972.	30-30	LEAST MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32
PUBLICATIONS OF LASL RESEARCH, 1973.	30-31	LECTIN FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 20, 1963.	30-36	LEED LEID (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 111) VICINAL SURFACES	9-11
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 20, 1963.	30-37	LEGENDRE TRANSPORT EQUATION IN AN ACCELERATED MATERIAL. 1.LEGENDRE MOMENTS AND A DIFFUSION APPROXIMATION.	18-29
LASL'S PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20 104	LENS COPYING LENS FOR MICROFILM PHOTOGRAPHY.	19-3
LATITUDE OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24		
LATTICE LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30		
IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10		
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION	9-13		

LEVEL			LIMITATIONS	
ALGEBRA OF LEVEL SPLITTING.	4-3		PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING.	10-78
PHYSICAL EXAMPLE OF THE BIEDENHARN-GAMBA THEORY OF LEVEL SPLITTINGS.	4-38		WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS.	20-147
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20		LIMITED	
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16		INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56
LEVELS			LIMITS	
WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE(II)).	4-59		UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35
EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39		PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JANUARY - JUNE 1974.	17-49
(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1		PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1973.	17-50
LEVELS OF SELENIUM -84 FROM THE SELENIUM -82 (TRITON, PROTON) SELENIUM -84 REACTION.	25-57		REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-65
OXYGEN -16 (TRITON, HELIUM -3) NITROGEN -16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83		CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY.	17-8
LIBRARY			CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1973.	17-9
LINX: LIBRARY INTERPRETATION OF NEUTRON X SECTIONS.	25-59		LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION.	25-56
PENDE: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84		LINE	
LID			L = 1.24 CONFIGURATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15
COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL.	13-3		ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAL.	1-3
LIE			CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE.	3-3
LIE ALGEBRA SO(N) AND THE DUFFIN-KEMMER-PETIAU RING.	27-7		TEMPORAL OBSERVATIONS OF THE LAMBDA 5303 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32
LIFE			PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974.	8-25
DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35		PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-26
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62		PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
HALF LIFE OF EUROPIUM -155.	25-51		DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7
LIFETIMES			OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.	10-63
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23		LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE.	13-10
LIGHT			LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.	5-2		DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4
DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-30		DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-5
EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-46		CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTICRATE APPLICATIONS.	21-7
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND D(A-T)N - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55		SLIT SCATTERING IN THE EPICS BEAM LINE.	22-54
LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.	5-63		INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14
POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT.	19-20		LINEAR	
POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT. ERRATUM.	19-21		250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCVLLAC EXPERIMENT.	10-1
SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS.	20-125		FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.	10-35
INTENSITY FILTRATION OF LASER LIGHT.	20-57		JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24		PLASMA EXPERIMENTS ON THE LINEAR SCVLLAC THETA PINCH.	10-73
ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-41			
MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.	25-70			
LIMIT				
SOME FUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD.	21-55			

PROSPECTS FOR CONVERTING THORIUM -232 - URANIUM -233 IN A LINEAR THETA PINCH.	10-81	HUGONIOT EQUATIONS OF STATE OF LITHIUM -HYDROGEN -6, LITHIUM -DEUTERIUM -6, LITHIUM - HYDROGEN -N, AND LITHIUM -DEUTERIUM -N.	4-25
SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85	SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR CESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127	VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS. VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.	4-56
LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78	SYNTHESES WITH STABLE ISOTOPES: ACETYLENE - CARBON -13(2) AND LITHIUM ACETYLIDE - CARBON -13(2) ETHYLENEDIAMINE COMPLEX.	7-16
LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79	STRUCTURE OF LITHIUM HYDRIDE TO 12 GPa.	9-17
IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR.	22-22	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIUM).	9-3
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY.	27-18	COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 6000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT.	27-3	CROSS SECTIONS FOR (PI+,PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10
LINES ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES.	18-1	CAPTURE MU+ + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU+ WITH FINAL STATE INTERACTIONS.	22-4
LININGS HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14	PROCESS MU+ + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU+ WITH FINAL STATE INTERACTIONS.	22-44
LINKAGE INDICATION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIETIN DNA BY ULTRAVIOLET LIGHT.	5-55	SPHEROIDIZATION AND COATING OF LITHIUM DEUTERIDE.	23-32
LINX LINX LIBRARY INTERPRETATION OF NEUTRON X SECTIONS.	5-59	CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-31
LIQUID HYDROGEN GAS - LIQUID MINING.	8-17	LITHOTHERMODYNAMICS NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23	VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23	LIVED LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31
PROTOTYPE TESTS ON A 20 WATT FORCED CONVECTION LIQUID HYDROGEN DEUTERIUM TARGET.	8-30	LIVER EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44
PROTON - OXYGEN -17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4	EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -13 IN VIVO.	5-45
MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA.	16-23	LIVING PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40
LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION.	20-71	LMFBR RECRITICALITY CONSIDERATIONS IN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	26-17
LIQUID HELIUM -41 TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS.	22-24	URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	26-21
LIQUID PHASE SINTERING OF TUNGSTEN -NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15	LN3N MAGNETIC PROPERTIES OF LN3N INTERMETALLIC COMPOUNDS.	29-1
NEW TECH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21	LOADS NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS.	18-18
EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-39	PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-38
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE.	23-36
RECRITICALITY CONSIDERATIONS IN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	26-17	LOB-CT-1 FAILURE OF COOLING TOWER LOB-CT-1.	13-4
URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	26-21	LOCALIZATION MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.	5-68
IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14		
LIQUIDS SELECTED PHYSICO-CHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29		
LITHIUM X RAY SPECTROGRAPHIC DETERMINATION OF IRIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18		

LOCATE MASS SPECTROMETRIC DETERMINATION OF OXYGEN-18/OXYGEN-16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8
LONG LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31	LOS ALAMOS THREE STAGE VAN DE GRAAFF FACILITY.	27-8
COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	NUCLEAR PROCESS HEAT APPLICATIONS, 1974, 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	28-7
LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4	IMPACT OF AECS-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14
PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN.	20-114	NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24
CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTIRATE APPLICATIONS.	21-7	SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950.	30-48
LONGITUDINAL LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-40	TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	30-59
LORENTZIAN ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES.	18-1	LOSS DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
LOS ALAMOS TRANSIENT COSMIC GAMMA AND X RAY SOURCES, 1973, CONFERENCE, LOS ALAMOS, NM. PROCEEDINGS.	3-35	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS.	5-24	ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1
FUSION ENGINEERING AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	10-34	LOSSES JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY	11-16	LOW NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21
LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM.	11-19	LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE	4-32
PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23
WATER SUPPLY AT LOS ALAMOS DURING 1974.	11-34	LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 6000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	MELTING PRESSURE OF HELIUM-3 AT VERY LOW TEMPERATURES.	8-19
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13	LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 111) VICINAL SURFACES.	9-11
DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15	LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIBORIDE	9-12
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1973	17-19	THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES	9-18
AEROSOL RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-3	PARAMETRIC INSTABILITY AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67
PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-43	PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM-232, URANIUM-235, URANIUM-238 AND PLUTONIUM-239.	16-27
STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72	PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION	16-28
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78	ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7
ELECTRON BEAM CONTROLLED CARBON DIOXIDE LASERS AT LOS ALAMOS.	20-46	SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67
DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY	21-13	LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS	19-14
MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS.	21-31	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.	21-60	TUNEUP OF THE LAMPF LOW ENERGY PION CHANNEL.	22-59
LOS ALAMOS Q3D PROJECT.	22-25	IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-13
PRACTICAL APPLICATIONS OF ACCELERATORS, 1973, SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS.	22-43	(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1
EVXS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	OXYGEN-16 (TRITON, HELIUM-3) NITROGEN-16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83
		R-MATRIX ANALYSIS OF THE N + BORON-10 SYSTEM AT LOW ENERGIES	25-97

GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE.	26-11	MACH	
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS.	26-13	MULTIFLUID FLOW CALCULATIONS AT ALL MACH NUMBERS.	18-15
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16	COMMENTS ON: LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS.	18-6
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.	26-18	MACHINE	
APPLICATIONS OF LOW POWER NUCLEAR ROCKET ENGINES.	30-3	COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9
LOW-Z		MACHINING	
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13	MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	21-7
LOWER		MACROMOLECULES	
PARAMETRIC INSTABILITIES AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67	MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65
LOWEST		MAGNESIUM	
LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA HAMILTONIAN.	21-29	BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2
LS		MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80
LS SUB-N OPERATOR METHOD IN TRANSPORT THEORY.	24-4	STUDY OF THE MAGNESIUM -24 (HELIUM -3, TRITON) ALUMINUM -24 REACTION AT E (HELIUM -3) = 38.7 MEV.	25-111
LUNAR		MAGNESIUM -26 (TRITON, HELIUM -3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM -26.	25-61
LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16	MAGNET	
ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS.	3-8	IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR.	22-22
LUNG		MAGNETIC	
IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.	5-53	L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15
LUNG IRRADIATION WITH STATIC PLUTONIUM MICROSPHERES.	5-64	SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29
LUTETIUM		LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE.	4-32
FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM	23-9	METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20
SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM -169 AND LUTETIUM -175 GAMMA RAYS.	25-105	NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IODINE IN IRON.	8-21
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-28
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-28
LYING		SUPERCONDUCTING MAGNETIC ENERGY STORAGE.	8-33
(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1	DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
OXYGEN -16 (TRITON, HELIUM -3) NITROGEN -16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83	THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES	9-18
LYMPH		JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49
STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-108	CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS.	10-5
UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114	MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR).	10-55
LYMPHOCYTES		MAGNETIC FIELD PROGRAMMING IN ZT-1.	10-56
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50	REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS.	10-83
ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80	CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
LYSOGENIC		CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON -13.	14-2
ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1	5-2	PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106
M		LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45		
BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2		
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIIDIUM).	9-3		

LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78	MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES.	5-68
MAGNETIC FORM FACTOR OF HELIUM -3.	25-62	MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.	5-74
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-80	MAN DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN.	5-32
MAGNETIC PROPERTIES OF LN3IN INTERMETALLIC COMPOUNDS.	29-1	COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9
MAGNETICALLY MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.	10-57	MANAGEMENT PROJECT MANAGEMENT OF SCYLLAC.	10-80
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81	MANAGEMENT INFORMATION FOR LAMPF.	22-26
MAGNETIZED MEAN FIELD THEORY OF SOME MAGNETIZED ANTIFERROMAGNETS.	8-18	IMPACT OF AECM-0511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-14
MAGNETOHYDRODYNAMIC EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK.	10-23	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, APRIL - JUNE 1974.	30-32
MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA.	10-59	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JULY - SEPTEMBER 1973.	30-33
SCYLLAC MHD (MAGNETOHYDRODYNAMIC) FEEDBACK SYSTEM.	10-87	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, OCTOBER - DECEMBER 1973.	30-34
MAGNETOPLASMA DYNAMIC APPARATUS AND METHOD FOR MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.	20-11	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JANUARY - MARCH 1974.	30-35
MAGNETOSHEATH UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-34	MANGANESE SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45
MAGNETOSPHERIC MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20	LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIBORIDE.	9-12
ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.	1-7	MANIPULATING GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA.	21-25
MAGNETOTAIL OBSERVATIONS OF THE MAGNETOTAIL SURFACE LAYER WITH THE VELA SATELLITES.	1-23	MANUAL LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION.	13-11
PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADII.	1-26	BIOHAZARDS MANUAL.	17-4
ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.	1-3	SAFETY MANUAL. L-DIVISION, LASER RESEARCH AND TECHNOLOGY. SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2).	17-66
MAGNETOTAIL'S MAGNETOTAIL'S SURFACE LAYER AND THE CLEFT.	1-17	PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23
MAIN AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL.	26-28
MAJOR EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27	LASL TECHNICAL INFORMATION MANUAL.	30-21
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78	MAPPING NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34
MAMMALIAN CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI.	5-15	MARCHING ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37
DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-30	MARGINAL BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-17
EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-18
EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	MARINER MARINER 10 PLASMA SCIENCE EXPERIMENT RESULTS.	1-18
EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39	OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.	3-18
FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47	MARINER-10 OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.	3-17
LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.	5-63	MARTIAN CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARTIAN OBSTACLES.	18-5

MASS			
MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS	19-1
MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM -254.	16-20	LASER CONTROLLED THERMONUCLEAR REACTOR MATERIALS REQUIREMENTS	20-67
APPROXIMATE SPHERICAL BLAST THEORY WITH SOURCE MASS.	20-13	NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	21-21
RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS.	25-100	COUPLED NEUTRON - GAMMA MULTIGROUP MULTITABLE CROSS SECTIONS FOR 28 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/ID DIVISION	25-30
MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238.	25-63	DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10
OXYGEN -16 (TRITON-HELIUM -3) NITROGEN -16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83	IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS	30-15
MASS OF THE GRAVITON.	27-9	MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY	5-66
MASTER		MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-Y-SOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.	21-60	MATRICES	
EVNS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-10
MATERIAL		MATRIX	
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114	STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUEATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73
EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27	R-MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM	25-95
SHIPPING CONTAINER FOR PLUTONIUM -238 AS FISSILE MATERIAL CLASS 1	13-18	STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K-13 DECAY	27-17
SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-69	MATTER	
SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-69	CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6
TRANSPORT EQUATION IN AN ACCELERATED MATERIAL. LEGENDRE MOMENTS AND A DIFFUSION APPROXIMATION.	18-29	DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS.	25-34
TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	24-11	MAXWELLIAN	
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10	MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19	MAY	
FISSIONABLE MATERIAL ASSAY USING MU-MESIC X RAYS.	26-9	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.	17-24
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, MAY -AUGUST 1974.	26-21
MATERIALS		MBD	
ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1	MBD PRIMER.	21-30
PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14	MCPHEE	
PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-3
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4	MEAN	
FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9	MEAN FIELD THEORY OF SOME MAGNETIZED ANTIFERROMAGNETS.	8-18
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13	MEASURED	
DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	DEVELOPMENT OF THE OSU-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6
FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.	10-32	ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS.	16-7
MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.	10-57	MEASUREMENT	
		NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21
		IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
		PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14

SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM IN PLUTONIUM DIOXIDE	2-16	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL	22-59
MEASUREMENT OF MAMMALIAN CELLULAR DNA AND ITS LOCALIZATION IN CHROMOSOMES	5-68	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN-3 (DEUTERON, DEUTERON) HYDROGEN-3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV	25-123
DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM-II FILM	8-9	ANALYSIS OF ZEPHYRUS-2 TLD MEASUREMENTS USING ENDF/B-III DATA	25-4
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X-RAY DIFFRACTION	9-13	ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION	25-6
EXPERIMENTAL MEASUREMENT OF IN-SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING	11-8	MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS	25-66
MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA-TITANIA COMPOSITION	23-16	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-3 (TRITON, NEUTRON) HELIUM-4 REACTION	25-67
MEASUREMENT OF PARITY VIOLATION IN PROTON-PROTON SCATTERING AT 15 MEV	25-64	MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON-HELIUM-3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV	25-68
MEASUREMENT OF THE DEPOLARIZATION PARAMETER (THETA) FOR PROTON(+)-NITROGEN-14 SCATTERING NEAR 16 MEV	25-65	MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS	26-14
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION	26-15	ALPHA MEASUREMENTS ON THE GODIVA CRITICAL ASSEMBLY USING A BETATRON	28-1
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE	26-16	KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS	30-19
KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENT	30-20	RADIOCHEMICAL MEASUREMENTS ON KIWI-BIB	30-46
MEASUREMENTS		RADIOCHEMICAL MEASUREMENTS ON KIWI-BIA	30-47
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION	3-30	MEASURING FISSION GAS AND VOID VOLUME MEASURING SYSTEM	13-6
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION	3-31	METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY	24-5
ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS	3-8	MECHANICAL	
MEASUREMENTS OF X-RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV	4-33	INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN	21-28
QUANTITATIVE IMMUNOFLUORESCENCE MEASUREMENTS OF SV40 T-ANTIGEN PRODUCTION	5-95	MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS	23-17
REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART 1. RATE MEASUREMENTS BY PRESSURE CHANGES	6-13	SOME MECHANICAL PROPERTIES OF URANIUM-MOLYBDENUM ALLOYS	23-31
FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM	8-13	MECHANICS	
SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM(3)TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN	8-31	GEO THERMAL ENERGY: A NEW APPLICATION OF ROCK MECHANICS	11-11
TEMPERATURE MEASUREMENTS ON ZT-1	10-104	MECHANISM	
(I/Z) CURRENT MEASUREMENTS IN THE SCYLLAC TORUS	10-44	POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE	1-27
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE	10-58	ON THE MECHANISM OF HEMOLYTIC PLAQUE INHIBITION	5-81
CW LASER DENSITY MEASUREMENTS ON SCYLLAC	10-9	ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES	6-6
EQUILIBRIUM TEMPERATURE MEASUREMENTS IN CRYSTALLINE ROCKS	11-7	COMMENT ON: NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM	8-2
MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM-3, DEUTERON - FISSION) AND (HELIUM-3, TRITON - FISSION) REACTIONS	16-21	PION EXCHANGE MECHANISM FOR (PION-NU, 2PROTON) REACTIONS	22-41
FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON-40 BOMBARDMENTS OF NICKEL-58 AND SILVER-109	16-9	MEDIA	
HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR	19-12	PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA	20-102
MEASUREMENTS ON HALF WAVELENGTH HELIX RESONATORS	19-15	CORPUSCLE - IN - MEDIA SIMULATION OF NONLINEAR OPTICAL PROBLEMS	20-25
INTERFEROMETRIC MEASUREMENTS OF LASER PRODUCED PLASMAS	20-58	MEDICAL	
ON DUPLICATE MEASUREMENTS IN THE CHEMICAL LABORATORY	21-36	USE OF MU-MESIC X RAYS AS A MEDICAL TOOL	5-115
LIQUID HELIUM-II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTION	22-24	PLUTONIUM-238 FUELS FOR POWERING MEDICAL DEVICES	5-86
NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD-208 MEASUREMENTS	22-35	PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM-238 FUELS, JULY 1, 1971 - JUNE 30, 1973	5-88
		MEDIUM	
		CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE	18-4
		DEGRADATION OF A LASER MEDIUM DUE TO IONIZATION BY A LASER PULSE	20-28
		MESON - NUCLEUS SCATTERING AT MEDIUM ENERGIES	22-27

QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48	MESIC IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS.	5-54
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49	FISSIONABLE MATERIAL ASSAY USING MU MESIC X RAYS.	26-9
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50	MESON MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-51	MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
MELAMINE CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6- TRIAMINO-S-TRIAZINE.	9-5	MESON FACTORIES, PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
MELT NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33	HIGH INTENSITY MESON FACILITIES.	22-18
METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18	MESON - NUCLEUS SCATTERING AT MEDIUM ENERGIES.	22-27
MELTING MELTING PRESSURE OF HELIUM -3 AT VERY LOW TEMPERATURES.	8-19	MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT.	22-28
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	MESON DECAYS AND THE DKP (DUFFIN-KEMMER-PETIAU) EQUATION.	25-69
ROCK MELTING APPLIED TO EXCAVATION TUNNELING.	11-26	MESONIC EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14
ROCK MELTING SUBTERRENES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	MESONS ATOMIC CAPTURE OF NEGATIVE MESONS.	22-2
SUBTERRENE ROCK MELTING EXCAVATION PROGRAM.	11-32	CAPTURE PROCESSES FOR NEGATIVE MESONS.	22-5
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33	CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6
DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRENE FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-3	MESSENGER SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
MEMBRANE TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES.	17-76	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
MEMBRANES PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	MESSENGER-LIKE SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
MEMORY SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRE PROPORTIONAL CHAMBER DATA	21-47	METABOLISM EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
MERCURY OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.	3-17	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70
PRESERVATION AND STORAGE OF URINE SAMPLES FOR THE DETERMINATION OF MERCURY.	17-45	METAL ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.	4-21
ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDE - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45
HOW MUCH OF A BUBBLE IS THERE IN MERCURY -184	25-52	REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES, SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13
MERGING SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29	STRUCTURE OF CERIUM METAL AT HIGH PRESSURE.	9-16
MERIT FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES.	27-4	BONDING IN (III) TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2
MESH TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	24-11	BONDING IN TRIVALENT TRANSITION METAL CYANIDES, CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIIDIUM).	9-3
		DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3

THIN METAL WINDOWS FOR GAS TARGETS.	13-20	METHOD MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-12
MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80	SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80	MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34
METAL ATOM OXIDATION LASERS.	20-82	DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36
METHOD OF FORMING MICRON SIZE, METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19	METHOD FOR PRODUCTION OF UNIFORM MICROSPHERES.	5-71
NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21	QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96
EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.	23-6	METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13
METAL VAPOR CONFINEMENT IN VACUUM.	27-10	METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.	15-4
RECRITICALITY CONSIDERATIONS IN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	28-17	NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5
URANIUM DIOXIDE EQUATION OF STATE FOR LMFBR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	28-21	METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.	16-22
METALLURGICAL HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944.	17-21	METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944.	17-22	NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944.	17-23	ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS.	18-2
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.	17-24	COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7
METALS THEORY OF ELECTRON CORRELATION IN METALS.	4-50	APPARATUS AND METHOD FOR MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.	20-11
THEORY OF ELECTRON INTERACTION IN METALS.	4-51	METHOD OF FOCUSING A HIGH POWERED LASER BEAM.	20-83
IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10	METHOD OF FORMING MICRON SIZE, METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19
HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS.	23-12	METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20
NEW THEORY FOR IMPURITY DIFFUSION IN METALS.	23-22	LS SUB-N OPERATOR METHOD IN TRANSPORT THEORY.	24-4
METASTABLE METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18	METHOD FOR MEASURING FAST DECAY OF A NEAR CRITICAL ASSEMBLY.	24-5
DECAY OF 75 SEC METASTABLE DYSPROSIUM -165.	25-33	STILL ANOTHER METHOD FOR PHASE-SHIFT COMPUTATION.	27-16
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	METHODS ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180.	25-9	PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-13
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2	RECENT DEVELOPMENTS IN DISEASE SURVEILLANCE METHODS FOR POULTRY.	5-100
METHANATOR CONCEPTUAL DESIGN OF A HEAT PIPE METHANATOR.	30-8	METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20
METHANE THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16	FUSION REACTOR NUCLEAR ANALYSIS METHODS AND APPLICATIONS.	10-36
COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-4	TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS.	17-74
THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57	NEW TRANSPORT METHODS AND CODES.	18-17
METHANOL SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-18	NUMERICAL METHODS FOR NONLINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS.	21-35
SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-13	RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES.	21-43
SYNTHESIS WITH STABLE ISOTOPES: METHANOL - CARBON -13, METHANOL - CARBON -13-D4 AND METHANOL - CARBON -12.	7-16	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS. 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44
METHIONINE ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59		

COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM	21-8	NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA	25-78
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS	22-8	POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM-3 REACTION AT 10 MEV.	25-85
METHODS OF TREATMENT OF DISPLACEMENT INTEGRAL EQUATIONS	24-6	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 AT 5.97 AND 9.9 MEV.	25-86
APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES	25-10	POLARIZATION TRANSFER IN PROTON - HELIUM-3 ELASTIC SCATTERING AT 16 MEV	25-88
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS	25-26	POLARIZED PROTONS ON HELIUM-3 AT 13.6 MEV	25-90
QUARTERLY REPORT: EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974	28-12	R-MATRIX ANALYSIS OF PROTON - HELIUM-3 ELASTIC SCATTERING BELOW 19.5 MEV. E SUB P EQUALS 19.5 MEV.	25-96
METRIC MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREES	5-73	MHD EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK	10-23
APPLYING THE METRIC SYSTEM TO WELDING	30-4	MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA.	10-59
JETS MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR).	10-55	SCYLLAC MHD (MAGNETOHYDRODYNAMIC) FEEDBACK SYSTEM.	10-87
MEV CIRCULAR PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH	1-34	MHZ PERFORMANCE OF PULSED 806 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-38
NEUTRONS PRODUCED BY 740 MEV PROTONS ON URANIUM.	22-34	MICE DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOR CELLS IN MICE.	5-33
PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45	DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35
DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS	23-4	LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62
STUDY OF THE MAGNESIUM-24 (HELIUM-3, TRITON) ALUMINUM-24 REACTION AT E (HELIUM-3) = 38.2 MEV.	25-111	MICROEXPLOSIONS APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS.	20-12
STUDY OF THE NEON-20 (TRITON, ALPHA) FLUORINE-19 REACTION AT 20 MEV.	25-112	MICROFILM COPYING LENS FOR MICROFILM PHOTOGRAPHY	19-3
VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN-3 (DEUTERON, DEUTERON) HYDROGEN-3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV	25-123	MICROFLUOROMETRIC FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN-2 (DEUTERON, NEUTRON) HELIUM-3 REACTION WITH E/D FROM 6 TO 17 MEV AND BY THE HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 REACTION WITH E/P FROM 6 TO 16 MEV.	25-2	MICROFLUOROMETRY ELIPSOIDAL CAVITY FLOW CELL AND FLUORESCENCE DETECTOR FOR FLOW MICROFLUOROMETRY.	5-43
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN-2 (DEUTERON, NEUTRON) HELIUM-3 REACTION WITH E/D FROM 6 TO 17 MEV AND BY THE HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 REACTION WITH E/P FROM 6 TO 16 MEV.	25-2	FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48
CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21	MATHEMATICAL ANALYSIS OF DNA DISTRIBUTIONS DERIVED FROM FLOW MICROFLUOROMETRY.	5-66
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM-9 (NEUTRON, PROTON) LITHIUM-9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-31	POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.	5-87
ELASTIC SCATTERING OF NEUTRONS FROM HELIUM-3 BETWEEN 7.9 AND 21.7 MEV	25-42	MICROMETRE SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS.	20-125
FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48	MICROMETRES CALORIMETER FOR USE AT 10.6 MICROMETRES.	20-20
GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49	MICRON METHOD OF FORMING MICRON SIZE, METAL - CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19
MEASUREMENT OF PARITY VIOLATION IN PROTON - PROTON SCATTERING AT 15 MEV.	25-64	MICRONS DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27
MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON + NITROGEN-14 SCATTERING NEAR 16 MEV.	25-65	GAS CALORIMETER FOR USE AT 10.6 MICRONS.	20-47
MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66	GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON - HELIUM-3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.	25-68	MICROSCOPY TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES.	17-76
ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7	MICROSPHERES BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM-238 DIOXIDE AND PLUTONIUM-239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10
NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75	LUNG IRRADIATION WITH STATIC PLUTONIUM MICROSPHERES.	5-64
NEUTRON SPECTRA FROM 500 MEV PROTONS ON BERYLLIUM-9.	25-76		

METHOD FOR PRODUCTION OF UNIFORM MICROSPHERES.	5-71	STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15
STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73	OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE -NITROGEN MIXTURES.	20-101
TAMPED THERMONUCLEAR BURN OF DEUTERIUM - TRITIUM MICROSPHERES.	20-135	MULTI-KILOJoule HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-96
THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM - TRITIUM MICROSPHERES.	20-138	MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29
BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-17	MOBILE DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-5
BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-18	MODE TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-108
MICROSTRUCTURAL HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM -238 DIOXIDE.	23-11	STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127
RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. I. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28.	25-79
MICROSTRUCTURE URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28.	25-90
MICROTUBULE EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39	MODEL MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	7-21
MINUS NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PI MINUS BIOMEDICAL CHANNEL.	5-77	COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS-A.	3-2
MINUTES CELL CYCLE ANALYSIS IN TWENTY MINUTES.	5-14	UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	3-37
MIRROR 250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCYLLAC EXPERIMENT.	10-1	LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30
MISMATCHED PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-38	SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44
MITIGATING METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.	15-4	MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.	5-72
MIXED IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	APPLICATION OF THE FLUCTUATION MODEL OF DISSIPATION TO BEAKER FILM FLOW.	8-1
MIXED SNOWFLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.	16-60	APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH.	10-2
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27	INDUCTIVE MODEL FOR MULTIDIMENSIONAL PLASMA SIMULATION.	10-47
MIXING HYDROGEN GAS - LIQUID MIXING.	8-17	MIXED SNOWFLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.	10-60
HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50	NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.	22-46	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47	MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.	17-28
MIXTURE EFFECT OF GAS MIXTURE ON THE ELECTRON KINETICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-31	MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84
EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32	K(+) TO PI(+) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23
EFFICIENT HIGH POWER XENON AND XENON -RARE GAS MIXTURE LASERS.	20-35	MAGNESIUM -26 (TRITON, HELIUM -3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM -26.	25-61
MIXTURES RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27	RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	6-99	MODELING STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	1-48
		MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.	12-5
		KINETIC MODELING OF ELECTRICALLY EXCITED CARBON DIOXIDE LASERS.	20-60

MODELS			
VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE.	4-56	MOLDS	
		COMPUTERIZED INVENTORY/DESIGN SYSTEM FOR GRAPHITE MOLDS	21-10
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS.	5-5	MOLECULAR	
		FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20
TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113		
MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENTARY REACTIONS.	25-70	LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31
MODERATE		NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35
FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH.	15-2	NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38
MODES		APPROXIMATE ESTIMATE OF THE FORM OF MOLECULAR VIBRATIONS.	4-4
RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-117	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43
		STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	4-48
RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-118	HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49
THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.	20-137	MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREES.	5-73
ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON, PROTON) LEAD -206 REACTION.	25-44	REPLY TO COMMENT ON MOLECULAR BEAM KINETICS DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14
MODIFICATION		TRANSLATION ROTATION ENERGY TRANSFER MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18
ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14	POLYATOMIC MOLECULAR RELAXATION IN THE ABSENCE OF COLLISIONS.	20-109
NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91	126.1 NANOMETRE MOLECULAR ARGON LASER.	20-4
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE.	21-60	EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER.	20-34
MODIFICATIONS		126.1 NANOMETRE MOLECULAR ARGON LASER.	20-4
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78	MOLECULE	
MODIFIED		SPACE FIXED VS BODY FIXED AXES IN ATOM-DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46
MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-42	USE OF GAUSSIAN BASIS FUNCTIONS IN FREDHOLM CALCULATIONS OF ELECTRON - ATOM AND ELECTRON - MOLECULE COLLISIONS.	4-54
MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34	MOLECULES	
EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15	EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18
MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA.	16-23	INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA.	4-27
TRANSPORT EQUATION IN MODIFIED EULERIAN COORDINATES.	18-30	QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	4-42
MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION.	24-7	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43
MODULAR		OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE-NITROGEN MIXTURES.	20-101
MODULAR DISC LASER.	20-85	MOLTEN	
MODULATOR		ON DIVALENT AMERICIUM IN MOLTEN SALT/MOLTEN PLUTONIUM SYSTEMS.	7-7
MULTIFRINGER ELECTRO-OPTIC PHASE MODULATOR.	19-16	ON DIVALENT AMERICIUM IN MOLTEN SALT/MOLTEN PLUTONIUM SYSTEMS.	7-7
MODULATORS		ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS.	17-18
EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43	MOLYBDENUM	
MODULE		REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13
THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE.	10-106	REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13
SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92	IRON-57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
MODULES		TENSILE FATIGUE BEHAVIOR OF MOLYBDENUM AT 1153 DEGREES KELVIN.	23-34
ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL-SCANNING SYSTEM.	19-10		
PERFORMANCE CHARACTERISTICS OF PLUTONIUM-238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24		
MOIETIES			
ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59		
MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67		

URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-38	MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-20
SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	28-18	HIT A MONTE CARLO TARGET COVERAGE ROUTINE.	21-27
STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM-40 V/O URANIUM DIOXIDE CERMET FUEL.	28-20	MONTE CARLO CODE DEVELOPMENT IN LOS ALAMOS.	21-31
MOMENTA USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-146	SECOND MONTE CARLO SAMPLER.	21-48
MOMENTS TRANSPORT EQUATION IN AN ACCELERATED MATERIAL, LEGENDRE MOMENTS AND A DIFFUSION APPROXIMATION.	18-29	PENDF A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84
MOMENTUM IDENTIFYING, MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS.	22-20	MOON NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16
MONITOR TLD STACK EFFLUENT MONITOR.	17-75	MORPHOLOGY EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	SUBTERRENE ELECTRICAL HEATER DESIGN AND MORPHOLOGY.	11-30
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-26	MORTANDAD DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-27	MOSSBAUER SUMMARY OF MOSSBAUER EVIDENCE ASSOCIATED WITH THE KONDO EFFECT.	8-32
URANIUM HEXAFLUORIDE ENRICHMENT MONITOR OPERATING PROCEDURES MANUAL.	26-28	MOTION MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20
CONTINUOUS IN-LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT.	26-6	PLASMA COLUMN MOTION IN THE SCYLLAC TORUS.	10-71
MONITORING ANNUAL REPORT. ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING, JULY 1, 1973 THROUGH JUNE 30, 1974.	5-4	MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION.	16-13
ELECTRONIC ANIMAL IDENTIFICATION AND TEMPERATURE MONITORING.	5-41	MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE.	18-14
AUTOMATIC IDENTIFICATION AND PHYSIOLOGICAL MONITORING IN ANIMALS.	5-9	MOVEMENT DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15
MONITORS IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12	MOVIE COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T^+ + METHANE) AND (T^+ + DEUTEROMETHANE) SYSTEMS.	6-1
MONKEYS RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101	MOVIES ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES.	6-6
COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	COMPUTER GENERATED MOVIES: ANOTHER DIMENSION IN MAN - MACHINE COMMUNICATIONS.	21-9
MONOENERGETIC UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113	MU IN VIVO TISSUE ANALYSIS USING MU MESIC X RAYS.	5-54
MONOXIDE OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE-NITROGEN MIXTURES.	20-101	FISSIONABLE MATERIAL ASSAY USING MU MESIC X RAYS.	26-9
OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE-NITROGEN MIXTURES.	20-101	MU- CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4
EFFECT OF ELECTRON-ELECTRON AND ELECTRON-ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30	PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
MONTE CARLO MONTE CARLO STUDIES OF THE SKY RADIATION AT TWILIGHT.	1-19	MU-MESIC USE OF MU-MESIC X RAYS AS A MEDICAL TOOL.	5-115
MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10	PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94
MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	MUCH HOW MUCH OF A BUBBLE IS THERE IN MERCURY -184	25-52
MONTE CARLO TRAJECTORIES THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE.	6-12	MULTI MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32
COMMENT ON MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. $4. F + HF(V) \rightarrow HF(V) + F$ AND $F + DF(V) \rightarrow DF(V) + F$.	6-3	MULTI-BANK TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS.	17-74
MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61	MULTI-KILOJOULE MULTI-KILOJOULE HYDROGEN FLUORIDE LASER USING INTENSE ELECTRON BEAM INITIATION OF HYDROGEN - FLUORINE MIXTURES.	20-86
		MULTI-STATE SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44

MULTIBAND GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48	MULTISIDED MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-68
MULTIBEAM MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87	MULTIVALENT MODEL FOR THE BINDING OF MULTIVALENT ANTIGEN TO CELLS.	5-72
MULTICHANNEL SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56	ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80
MULTICHANNEL MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.	25-70	MULTIWIRE SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRE PROPORTIONAL CHAMBER DATA.	21-47
MULTICRATE CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTICRATE APPLICATIONS.	21-7	MUNITIONS ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.	17-17
MULTIDIMENSIONAL INDUCTIVE MODEL FOR MULTIDIMENSIONAL PLASMA SIMULATION.	10-47	MUONIC EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS.	22-13
MULTIFIELD KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS.	18-12	NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD -208 MEASUREMENTS.	22-35
MULTIFLUID MULTIFLUID FLOW CALCULATIONS AT ALL MACH NUMBERS.	18-15	COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-9
MULTIFRINGE MULTIFRINGE ELECTRO-OPTIC PHASE MODULATOR.	19-16	MUONIUM MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES	22-29
MULTIGROUP EFFECT OF BERYLLIUM (N,2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14	MV DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-29
SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90	MW PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-38
NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-10	MWPC DATA ACQUISITION SOFTWARE FOR A MWPC SPECTROMETER.	21-12
COUPLED NEUTRON - GAMMA MULTIGROUP -MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30	M1 OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28.	25-79
EVXS: A CODE TO GENERATE MULTIGROUP CROSS SECTIONS FROM THE LOS ALAMOS MASTER DATA FILE.	25-46	M2 COMMENTS ON E1:M2 COMPETITION IN GADOLINIUM -154.	25-25
MULTILEVEL MULTI: A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32	N INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55
MULTIPARAMETER FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47	INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIA-TIN - DIA-TIN BY ULTRAVIOLET LIGHT.	5-55
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50	PREPARATION AND PROPERTIES OF THE POLYMERS DIA(CIN-DIGCTIN) AND D(AGCIN-DIGCTIN).	5-89
MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.	5-74	PREPARATION AND PROPERTIES OF THE POLYMERS DIA(CIN-DICTIN) AND D(AGCIN-DIGCTIN).	5-89
MULTIPLE PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36	EFFECT OF BERYLLIUM (N,2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JANUARY 1 THROUGH JUNE 30, 1974.	17-37	ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973.	10-21
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JULY 1 THROUGH DECEMBER 31, 1973.	17-38	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON - FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
DISTRIBUTION OF AN ARBITRARY STUDENTIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18	ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON -216.	16-5
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24	R-MATRIX ANALYSIS OF THE N + BORON -10 SYSTEM AT LOW ENERGIES.	25-97
MULTIPLE SCATTERING ENHANCEMENT OF X RAYS.	25-71	LIE ALGEBRA SO(N) AND THE DUFFIN-KEMMER-PETIAU RING.	27-7
PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92	NAIVE NAIVE VIEW OF HIGH ENERGY HADRON -NUCLEUS COLLISIONS.	22-30
MULTIPLICATION NEUTRON MULTIPLICATION IN SPHERES OF 25.	24-8	NANOMETRE 125.1 NANOMETRE MOLECULAR ARGON LASER.	20-3
MULTIPLICITY NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NU BAR.	19-17	125.1 NANOMETRE MOLECULAR ARGON LASER.	20-4
MULTIPLICITY REDUCTION THEOREM: SU(3) CONTAINS R(3).	21-33		

NANOSECOND GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48	NEODYMIUM IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
NANOSECOND GATING OF GENERATION II IMAGE INTENSIFIERS.	20-89	OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM - ALUMINIUM - GARNET LASER RADIATION.	17-32
NATIONAL RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62	HIGH POWER NEODYMIUM - GLASS LASER SYSTEM FOR FUSION RESEARCH.	29-51
RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1972, THROUGH JUNE 3, 1973.	17-64	NEODYMIUM -143 (NEUTRON,GAMMA) REACTION.	25-72
NUCLEAR PROCESS HEAT APPLICATIONS, 1974. 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	28-7	NEON EXCITATION TRANSFER IN NEON + NEON* COLLISIONS.	4-17
AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN).	30-1	EXCITATION TRANSFER IN NEON + NEON* COLLISIONS.	4-17
NATIONAL TRANSLATIONS CENTER.	30-22	AB INITIO POTENTIAL CURVES FOR THE NEON(3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2
UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	30-61	AB INITIO POTENTIAL CURVES FOR THE NEON(3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2
NATIVE ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-60	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22
NATO PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22
NATURAL BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23
PLUTONIUM -238 RELEASE IN SIMULATED NATURAL ENVIRONMENTS.	17-41	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23
REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-65	POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41
CONTINUATION OF FUNCTIONS BEYOND NATURAL BOUNDARIES.	27-1	VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH.	10-115
NDA NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION.	26-15	STUDY OF NEON -22 WITH THE NEON -20 (TRITON,PROTON) REACTION.	25-110
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16	STUDY OF NEON -22 WITH THE NEON -20 (TRITON,PROTON) REACTION.	25-110
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17	STUDY OF THE NEON -20 (TRITON,ALPHA) FLUORINE -19 REACTION AT 20 MEV.	25-112
NE FLUORESCENCE RISETIME OF NE 102 SCINTILLATOR.	20-45	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(+++) + NEON TO KRYPTON (+) + NEON(+) WITH SOME SIMPLE THEORIES.	25-27
NEAR-SIMULTANEOUS NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON(+++) + NEON TO KRYPTON (+) + NEON(+) WITH SOME SIMPLE THEORIES.	25-27
NEBULA STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	4-48	NEPTUNIUM PROGNOSIS FOR SUPERCONDUCTIVITY IN NEPTUNIUM AND PLUTONIUM.	8-24
NEGATIVE UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113	FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.	16-11
DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34	NETWORKS CHEMICAL REACTION NETWORKS.	6-2
NEGATIVE PIONS IN RADIOTHERAPY: A BRIEF REVIEW.	5-76	NEUTRAL ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.	1-3
ATOMIC CAPTURE OF NEGATIVE MESONS.	22-2	EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SP(6) IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10
IDENTIFYING, MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS.	22-20	MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL GAS LAYER.	10-61
CAPTURE PROCESSES FOR NEGATIVE MESONS.	22-5	NEUTRON POST-NEWTONIAN NEUTRON STARS.	3-22
CHEMICAL EFFECTS IN THE CAPTURE OF NEGATIVE MESONS IN MATTER.	22-6	DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6
		DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6
		NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF P1 MINUS BIOMEDICAL CHANNEL.	5-77

DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION.	9-6	DETERMINATION OF THE NEUTRON HALO FROM ANTIPROTON ABSORPTION.	25-35
SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM -4 AND HELIUM -3 (DEUTERON, PROTON) HELIUM -4 REACTIONS.	25-47
TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE, INS.	13-21	FOURTEEN MEV, NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48
CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI.	16-1	ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS.	25-5
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET.	25-53
NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24	K- ABSORPTION AND THE NEUTRON HALO OF LEAD.	25-54
PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27	LINX: LIBRARY INTERPRETATION OF NEUTRON X SECTIONS.	25-59
PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION.	16-28	ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-6
DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.	17-14	LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-60
METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27	MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-65
PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER.	17-35	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON, NEUTRON) HELIUM -4 REACTION.	25-67
USAEC WORKSHOP ON PERSONNEL NEUTRON DOSIMETRY.	17-77	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON, NEUTRON) HELIUM -4 REACTION.	25-67
HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11	NEODYMIUM -143 (NEUTRON, GAMMA) REACTION.	25-72
NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NUBAR.	19-17	NEUTRON INDUCED FISSION CROSS SECTION OF URANIUM -237.	25-73
DESIGN OF ALBEDO NEUTRON DOSIMETERS.	19-7	NEUTRON SCATTERING CROSS SECTION OF GOLD -197.	25-74
MULTI. A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM.	21-32	NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75
EARLY EXPERIMENTS WITH NEUTRON BEAMS AT LAMPF.	22-12	NEUTRON SPECTRA FROM 500 MEV PROTONS ON BERYLLIUM -9.	25-76
NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31	NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE.	25-77
NEUTRON FLUX SPECTRA AT LAMPF FOR CTR RADIATION DAMAGE STUDIES.	22-32	POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM -3 REACTION AT 10 MEV.	25-85
PION CONDENSATION IN AN INTERACTING NEUTRON GAS.	22-40	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 AT 5.97 AND 9.9 MEV.	25-86
RELEVANCE OF SOME RECENT NEUTRON - PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES.	22-52	POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM -3 REACTION.	25-89
NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-10	ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2
NEUTRON MULTIPLICATION IN SPHERES OF 25.	24-8	NEUTRONIC DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3
ATTEMPTED INTENSE D-D NEUTRON SOURCE.	25-16	NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT.	24-9
MINX - BCD INTERPRETATION OF NEUTRON X SECTIONS.	25-17	NEUTRONICS SOME NEUTRONICS ASPECTS OF LASER FUSION REACTORS.	20-122
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH E(D) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -4 REACTION WITH E(P) FROM 6 TO 16 MEV.	25-2	NEUTRONS DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22	INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23	PROMPT NEUTRONS FROM THE SPONTANEOUS FISSION OF FERMIUM -257.	16-29
COUPLED NEUTRON - GAMMA MULTIGROUP - MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/DT DIVISION.	25-30	EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM -235.	16-6
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-41	EXPERIMENTS WITH LASER PRODUCED PLASMAS: ELECTRONS, IONS, AND NEUTRONS.	20-42
		NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP.	22-33
		NEUTRONS PRODUCED BY 740 MEV PROTONS ON URANIUM.	22-34
		DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	23-4

TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118	NICKEL POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.	4-40
CROSS SECTIONS OF URANIUM -235 AND PLUTONIUM -239 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32	STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM(2)NICKEL(17).	7-14
ELASTIC SCATTERING OF NEUTRONS FROM HELIUM -3 BETWEEN 7.9 AND 23.7 MEV.	25-42	FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4
GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49	FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON -40 BOMBARDMENTS OF NICKEL -58 AND SILVER -109.	16-9
MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66	ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL -1.5 PERCENT IRON COMPOSITE.	23-1
MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON,NEUTRON) HELIUM -4 REACTION.	25-67	CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20
ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7	CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20
NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 1 MEV NEUTRONS.	25-75	NIGHTGLOW AIR/RAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6500 ANGSTROMS AND 5577 ANGSTROMS.	1-2
PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92	NIOBIUM FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4
RADIATIVE CAPTURE OF FAST NEUTRONS BY CALCIUM -40.	25-99	FORMATION OF NIOBIUM DIHYDRIDE FROM NIOBIUM CATALYZED BY LANTHANUM - NICKEL (5).	7-4
NEVADA INVESTIGATIONS OF UNDERGROUND EXPLOSIONS IN NEVADA SANDY SOILS.	30-16	SELF FIELD CRITICAL CURRENT MEASUREMENT OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM(3)TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31
NEW NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35	IRON -57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.	4-36	SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91
COMMENT ON: NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM	8-2	ON THE OBSERVATION OF NIOBIUM -92 AND NIOBIUM -94 IN NATURE.	25-82
GEOTHERMAL ENERGY: A NEW APPLICATION OF ROCK MECHANICS	11-11	ON THE OBSERVATION OF NIOBIUM -92 AND NIOBIUM -94 IN NATURE.	25-82
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY.	11-16	TREATMENT OF NIOBIUM PENTACHLORIDE ROVER PROJECT WASTE.	30-58
PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24	NITRATE PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 60000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	NITRIDE SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL -3,7- DINITRO -1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.	15-6	NITROGEN SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13	LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31
NUCLEAR EXPLOSION 16 JULY 1945, HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30	NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35
STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43
NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43
NEW TRANSPORT METHODS AND CODES.	18-17	SYNTHESES WITH STABLE ISOTOPES: PYRIDINE (NITROGEN -15).	7-17
NEW TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS.	20-90	POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23
NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
NEW THEORY FOR IMPURITY DIFFUSION IN METALS.	23-22	EFFECT OF ELECTRON - ELECTRON AND ELECTRON - ION COLLISIONS IN MERCURY, CARBON DIOXIDE/NITROGEN/HELIUM AND CARBON MONOXIDE/NITROGEN DISCHARGES.	20-30
NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-16	ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN AND NITROGEN.	25-41
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-79	MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON(+) NITROGEN -14 SCATTERING NEAR 16 MEV.	25-65
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8		
NEW ATTACK ON THE ENERGY SHORTAGE.	30-23		
NEWCASTLE APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6		

OXYGEN -16 (TRITON, HELIUM -3) NITROGEN -16 REACTION AND THE LOW LIVING T=1 LEVELS OF MASS 16.	25-83	NOSETIP DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS.	26-13	NOTES SENSOR AND SIMULATION NOTES.	27-14
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.	26-18	NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.	30-25
NOBLE MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29	NOVEMBER ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973.	10-21
MUONIUM FORMATION IN NOBLE GASES AND NOBLE GAS MIXTURES.	22-29	QUARTERLY REPORT. JOINT SERVICES EXPLOSIVE PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973.	15-8
NODES STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-108	PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 - JULY 1973.	20-113
UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114	FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44
NOISE EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2	NOZZLE COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7
NON-ALIGNMENT NON-ALIGNMENT OF THE MAGNETIC HYPERFINE FIELD OF IRIIDIUM IN IRON.	8-21	NP NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-78
NONDESTRUCTIVE FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10	NU NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NU BAR.	19-17
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT ERROR DUE TO INSTRUMENT CALIBRATION.	26-15	CAPTURE MU- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-4
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16	PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17	NUCLEAR ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1974 TO JUNE 1974.	2-1
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19	PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14
NONEXPLOSIVE STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16
NONLINEAR RELATIVISTIC TERMS IN NONLINEAR PULSATION THEORY.	3-28	SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
TWO FREQUENCY NONLINEAR TAYLOR INSTABILITY.	18-31	AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8
PLASMA SIMULATION TECHNIQUES APPLIED TO NONLINEAR OPTICAL PROBLEMS.	20-108	PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90
CORPUSCLE - IN - MEDIA SIMULATION OF NONLINEAR OPTICAL PROBLEMS.	20-25	STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15
NEW TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS.	20-90	FUSION REACTOR NUCLEAR ANALYSIS METHODS AND APPLICATIONS.	10-36
NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91	CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
NUMERICAL METHODS FOR NONLINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS.	21-35	CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON -13.	14-2
REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS.	21-42	PRESENT STATUS OF NUCLEAR FISSION THEORY.	16-26
NONNEGATIVE LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA HAMILTONIAN.	21-29	NUCLEAR EXPLOSION 16 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30
NONRELATIVISTIC NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37	NUCLEAR EXPLOSION 16 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30
GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17	NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31
NONUNIFORM IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.	5-52	NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31
NONWEAPONS NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24	PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47
NORMAL DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-33		
IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS.	5-50		
SURFACES OF REVOLUTION WITH VARIOUS NORMAL INTERSECTION PROPERTIES.	21-57		

EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9	SOME SCHEMES FOR NUCLEAR PROPULSION.	30-50
E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS.	22-11	TACTICAL NUCLEAR WEAPONS: OBJECTIVES AND CONSTRAINTS.	30-56
EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57
NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD -208 MEASUREMENTS.	22-35	ASPEN: AN AEROSPACE PLANE WITH NUCLEAR ENGINES.	30-66
METHOD OF MAKING A CARBIDE - GRAPHITE COMPOSITE NUCLEAR FUEL.	23-20	UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	30-61
APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-11	COMPUTER SIMULATION OF TACTICAL NUCLEAR WARFARE.	30-7
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, APRIL 1 THROUGH JUNE 30, 1974.	25-11	NUCLEI CELL CYCLE DEPENDENT CHANGES IN ORGANIZATION OF MAMMALIAN NUCLEI.	5-15
TABLE OF CALCULATED NUCLEAR PROPERTIES.	25-113	COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JANUARY 1 THROUGH MARCH 31, 1974.	25-12	CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI	16-1
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM-3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14	FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15	FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	EXPERIMENTAL FISSION BARRIERS FOR ACTINIDE NUCLEI.	16-8
CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	25-28	PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.	22-39
COUPLED NEUTRON - GAMMA MULTIGROUP - MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30	PION PRODUCTION FROM NUCLEI.	22-42
LASL STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE.	25-56	PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8	THEORY OF PION SCATTERING BY NUCLEI II.	22-57
PENDEF: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84	RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101
ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	VACUUM POLARIZATION IN HIGH Z, FINITE SIZE NUCLEI.	25-121
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19	VARIOUS CROSS SECTIONS FOR A LESS THAN OR EQUAL TO 3 NUCLEI.	25-122
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT, PROGRAM STATUS REPORT, JANUARY - APRIL 1974.	26-20	CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT, PROGRAM STATUS REPORT, MAY - AUGUST 1974.	26-21	CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1973.	26-22	DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI.	25-38
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-3	PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4	NUCLEIC DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	28-5	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
NUCLEAR PROCESS HEAT APPLICATIONS. 1974. 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	28-7	NUCLEON GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17
PRELIMINARY STUDY OF PLASMA NUCLEAR REACTOR FEASIBILITY.	28-9	HYPERTRITON AS A TEST OF THEORETICAL HYPERON - NUCLEON POTENTIALS.	22-19
NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24	SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON - NUCLEON SCATTERING.	25-104
NUCLEAR PULSED PROPULSION SYSTEMS.	30-26	SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON - NUCLEON SCATTERING.	25-104
APPLICATIONS OF LOW POWER NUCLEAR ROCKET ENGINES.	30-3	TEST FOR T-VIOLATION IN NUCLEON - NUCLEON SCATTERING.	25-114
SINGLE STAGE NUCLEAR ROCKET STUDY.	30-49	TEST FOR T-VIOLATION IN NUCLEON - NUCLEON SCATTERING.	25-114
		COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-29

ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON - NUCLEON SCATTERING.	25-3	NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-96
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-78	NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34
NUCLEON - NUCLEON SCATTERING NEAR 50 MEV. 3. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA.	25-79	NUMERICAL METHODS FOR NONLINEAR VOLTERRA INTEGRO-DIFFERENTIAL EQUATIONS.	21-35
NUCLEONICS EFFECT OF BERYLLIUM (N ₂ N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14	ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT.	27-3
BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4	OBJECTIVES TACTICAL NUCLEAR WEAPONS: OBJECTIVES AND CONSTRAINTS.	30-56
NUCLEUS ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON -216.	16-5	OBSERVATIONAL COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4
MESON - NUCLEUS SCATTERING AT MEDIUM ENERGIES.	22-27	OBSERVATIONS AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 ANGSTROMS AND 5577 ANGSTROMS.	1-2
OFF SHELL EFFECTS IN PION - NUCLEUS INTERACTIONS.	22-37	OBSERVATIONS OF THE DEVELOPMENT OF STRIATIONS IN LARGE BARIUM ION CLOUDS.	1-22
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.	22-46	OBSERVATIONS OF THE MAGNETOTAIL SURFACE LAYER WITH THE VELA SATELLITES.	1-23
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47	VELA AND IMP PLASMA FLOW OBSERVATIONS.	1-36
NUCLIDES FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.	1-6
NUMBER NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38	FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11
COMMENTS ON: LAMINAR INTERACTIONS IN HIGH MACH NUMBER FLOWS.	18-6	OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10.	3-17
SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS.	21-54	OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.	3-18
AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN).	30-1	OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 1.	3-19
NUMBERS MULTIFLOW FLOW CALCULATIONS AT ALL MACH NUMBERS.	18-15	TEMPORAL OBSERVATIONS OF THE LAMBDA 5303 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32
SETS, NUMBERS, AND UNIVERSES. SELECTED WORKS.	21-49	OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-79
NUMERICAL BETHE-SALPETER EQUATION: NUMERICAL EXPERIENCE WITH A HYDROGENLIKE ATOM.	4-5	OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM -2 LINE PROFILES.	10-63
NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.	5-78	EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE.	18-9
NUMERICAL STUDY OF THE ROTATING THETA PINCH.	10-62	OBSERVATIONS OF ANOMALOUS GAIN COEFFICIENTS IN TEA DOUBLE DISCHARGE CARBON DIOXIDE LASERS.	20-97
NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20	CONSISTENCY AMONG DIFFERENTIAL NUCLEAR DATA AND INTEGRAL OBSERVATIONS.	25-28
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	OBSERVATORY OBSERVATORY REPORT.	3-20
NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5	OBSTACLES CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARTIAN OBSTACLES.	18-5
NEW METHOD FOR IMPROVING THE ACCURACY OF NUMERICAL HYDRODYNAMICS CALCULATIONS.	18-16	OCCUPATIONAL OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK.	17-33
NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS.	18-18	QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AHA.	17-55
NUMERICAL SIMULATION OF TSUNAMIS.	18-19	RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH. JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62
NUMERICAL SOLUTION OF THE FLOW STRUCTURE IN TORNADO-LIKE VORTICES.	18-20	RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH. JULY 1, 1972 THROUGH JUNE 3, 1973.	17-64
NUMERICAL STUDY OF TURBULENCE TRANSITIONS IN CONVECTIVE FLOW.	18-21	OCCUR STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127
USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-146	OCCULAR OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM : YTTRIUM - ALUMINIUM - GARNET LASER RADIATION.	17-32
NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.	20-92	ODD FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13
NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION.	20-93		
NUMERICAL SIMULATION OF RF CONFINEMENT.	20-94		
NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-95		

OER RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99	OPERATIONS COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS.	5-24
OFF ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10	IMPACT OF AECM-6511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP.	30-15
OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION.	23-36	OPERATOR GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17
OFF SHELL EFFECTS IN PION - NUCLEUS INTERACTIONS.	22-37	LS SUB-N OPERATOR METHOD IN TRANSPORT THEORY.	24-4
OFF-LINE IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12	OPERATORS REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS.	21-42
OFF-SHELL COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-29	TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS.	29-4
OFFS DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING	8-6	OPTIC FIBER OPTIC SECURITY SEAL.	13-5
OLD DEMOLITION OF BUILDING 12. AN OLD PLUTONIUM FILTER FACILITY.	17-12	OPTICAL ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
OLIGOMER STATISTICAL THERMODYNAMICS OF OLIGOMER -POLYMER INTERACTIONS.	5-107	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
OLIGOMERS INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS.	6-57	USE OF OPTICAL PROFILOMETER SYSTEM AT LASL.	13-22
OLIVINE REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE.	23-28	OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	19-18
ONE NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113	PLASMA SIMULATION TECHNIQUES APPLIED TO NONLINEAR OPTICAL PROBLEMS.	20-108
PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20-104	CORPUSCLE - IN - MEDIA SIMULATION OF NONLINEAR OPTICAL PROBLEMS.	20-25
TARGET COMPRESSION WITH ONE BEAM.	20-136	GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46
MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87	NEW TECHNIQUE FOR NONLINEAR OPTICAL PROBLEMS.	20-90
STRONTIUM -87 (TRITON,PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-96
CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-99
RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11	OPTICS INTEGRATING ECLIPSE OPTICS INTO THE AEC AIR FORCE FLYING LABORATORY.	19-13
ONSET STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.	20-130	OPTIMALLY HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLoded DEUTERIUM - TRITIUM SPHERES.	20-54
OPACITIES RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27	OPTIMIZATION ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	10-25
STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	4-48	OPTIMUM OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE -NITROGEN MIXTURES.	20-101
OPERATING PERFORMANCE CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24	OPTIONS DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL.	26-28	COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR -RANKINE COOLING SYSTEM OPTIONS FOR A 60000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1
OPERATION PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23	ORBIT AB INITIO POTENTIAL CURVES FOR THE NEON (3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2
OPERATIONAL PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JANUARY 1 THROUGH JUNE 30, 1974.	17-52	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JULY 1 THROUGH DECEMBER 31, 1973.	17-53	ORBITAL ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS.	3-8
VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78	ORDER ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.	4-60
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8	PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84

THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING.	10-105	KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(IV) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8
BHABHA FIRST ORDER WAVE EQUATIONS - I: C. P. AND T.	22-3	KINETICS OF THE OXIDATION OF PLUTONIUM (III) TO PLUTONIUM(IV) BY CHROMIUM(VI).	6-9
ORDERED ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) VICINAL SURFACES.	9-14	MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR.	20-80
ORDINATES DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3	METAL ATOM OXIDATION LASERS.	20-82
ORELA FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES.	27-4	OXIDE GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.	4-21
ORGAN IMPORTANCE OF NONUNIFORM DOSE DISTRIBUTION IN AN ORGAN.	5-52	HUGONOT EQUATION OF STATE OF BERYLLIUM OXIDE.	4-24
ORGANOMETALLIC SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.	7-19	DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	23-4
ORIFICES GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES.	8-14	OXYGEN AIRCRAFT OBSERVATIONS OF EQUATORIAL NIGHTGLOW EMISSIONS OF ATOMIC OXYGEN 6300 ANGSTROMS AND 5577 ANGSTROMS.	1-2
ORIGIN ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.	1-7	MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11
EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9	MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11
ORTHOTROPIC TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11
OSCILLATES INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14	DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4
OSCILLATOR AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8	DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4
OSHA OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK.	17-33	KINETICS FOR POPULATION INVERSION ON THE 557.7 NM $\theta(1S)$ TO $\theta(1D)$ TRANSITION IN ATOMIC OXYGEN.	4-29
OSO-6 DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6	STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15
OUTER ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $O + H(2)$ YIELDS $OH + H$.	6-17
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $O + H(2)$ YIELDS $OH + H$.	6-17
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15	PREPARATION OF PLUTONIUM -238 (OXYGEN -16) DIOXIDE.	7-8
POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	PROTON - OXYGEN -17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4
OUTPUT MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER.	20-84	SPIN RELAXATION IN OXYGEN -17 ENRICHED WATER.	14-5
OVARY OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE.	5-79	CROSS SECTIONS FOR $(p1+, PROTON)$ REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10
OVERLAPPING ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES.	18-1	ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-41
OVERVIEW OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.	13-13	OXYGEN -16 (TRITON, HELIUM -3) NITROGEN -16 REACTION AND THE LOW LYING $T=1$ LEVELS OF MASS 16.	25-83
OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT RESEARCHES.	28-8	R-MATRIX ANALYSIS OF THE OXYGEN -17 SYSTEM: VERSION IV OF ENDF/B.	25-98
OXIDATION EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON -14 OR CARBON -13 LABELED GALACTOSE IN VIVO.	5-44	OXYHALIDES ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON -14 OR CARBON -13 IN VIVO.	5-45	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
		P STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15
		BHABHA FIRST ORDER WAVE EQUATIONS - I: C. P. AND T.	22-3
		ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH E(D) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH E(P) FROM 6 TO 16 MEV.	25-2
		R-MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96
		P-DIVISION P-DIVISION PROGRESS REPORT, FEB. 20 - MAR. 20, 1949.	30-27
		PACER PACER PROGRAM, FY-1974 LASL ACTIVITY.	30-28

PACKED X RAY STUDY OF HELIUM -4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	9-20	PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER.	20-103
PACKING RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11	STANDING WAVE PUMPED PARAMETRIC INSTABILITIES.	20-128
PAD PLUTONIA AERODYNAMIC DISK (PAD). SUMMARY REPORT.	13-15	NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-85
SAFETY TEST NO.5-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67	PARHELIA FORMATION OF PARHELIA AT HIGHER SOLAR ELEVATIONS.	3-10
SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRED PROPORTIONAL CHAMBER DATA.	21-47	PARITY COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3
PADE EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2	EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14
GENERALIZATIONS OF PADE APPROXIMANTS.	27-6	SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON - NUCLEON SCATTERING.	25-104
PAIR NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38	TEST OF PARITY CONSERVATION IN PROTON -PROTON SCATTERING.	25-115
PAIRS PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.	3-24	TEST OF PARITY CONSERVATION IN PROTON -PROTON SCATTERING.	25-116
PALLADIUM 4P64D - 4P64D5S TRANSITIONS IN RUTHENIUM, RHODIUM, AND PALLADIUM.	4-1	TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY.	25-117
POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.	4-40	MEASUREMENT OF PARITY VIOLATION IN PROTON - PROTON SCATTERING AT 15 MEV.	25-64
PANEL CONTINGENCIES AND RISK CONTROL. PANEL DISCUSSION.	17-10	PARKING RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11
PANELS SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68	PARTICLE MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-20
PARABOLIC ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7
PARADOX UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8
PARAMETER LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-30	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2
DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36	NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24
ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	10-25	PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34
PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	19-65	NUMERICAL CHERENKOV INSTABILITIES IN ELECTROMAGNETIC PARTICLE CODES.	20-92
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.	10-66	FAST VERSATILE PREAMPLIFIER FOR USE IN PARTICLE PHYSICS.	22-15
MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON(+1) NITROGEN -14 SCATTERING NEAR 16 MEV.	25-65	METHOD OF FORMING MICRON SIZE. METAL -CARBIDE PARTICLE DISPERSIONS IN CARBON.	23-19
PARAMETERS EXTENDED HUCKEL BETA PARAMETERS APPLIED TO DIATOMIC MOLECULES.	4-18	SEPARABILITY IN DIRECTLY INTERACTING RELATIVISTIC PARTICLE SYSTEMS.	25-106
THEORETICAL CALCULATION OF ATOMIC SPIN -ORBIT PARAMETERS.	4-49	STRONTIUM -87 (TRITON,PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108
FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33	PARTICLES PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADII.	1-26
NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE.	15-5	NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16
RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8	UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114
PARAMETRIC PARAMETRIC INSTABILITIES AT LOW FREQUENCIES ABOVE THE LOWER HYBRID.	10-67	ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HP1C1.	5-2
PARAMETRIC INSTABILITIES OF WHISTLERS.	10-68	RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99
PARAMETRIC INSTABILITIES IN FINITE INHOMOGENEOUS MEDIA.	20-102	EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-39
		ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-41
		RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11

PARTICULATE MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.	17-28	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JANUARY 1 THROUGH JUNE 30, 1974.	17-37
PARTITION COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS. JULY 1 THROUGH DECEMBER 31, 1973.	17-38
PASSAGE EFFECTS OF THE PASSAGE OF IONIZING PARTICLES THROUGH A LIQUID CRYSTAL.	25-38	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
PASSIVE PASSIVE ENVIRONMENTAL NEUTRON DOSIMETER.	17-35	PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-36
FUNDAMENTALS OF PASSIVE NONDESTRUCTIVE ASSAY OF FISSIONABLE MATERIAL.	26-10	PERFORMANCE CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24
PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23	IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS.	30-15
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24	PERIODIC PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1.	5-82
PATTERNS EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2.	5-83
PAYLOAD PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES.	1-25	PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84
PDP-11 REMOTE JOB ENTRY SIMULTANEOUS WITH STAND ALONE USAGE OF A PDP-11/20.	21-46	PERIPHERAL IDENTIFICATION OF DISCRETE CLASSES OF NORMAL HUMAN PERIPHERAL LYMPHOCYTES BY MULTIPARAMETER FLOW ANALYSIS	5-50
SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56	PERITONITIS IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS.	5-58
PEAK SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-30	PERMEABILITY IMPORTANCE OF THE PERMEABILITY FACTOR IN IN-SITU STRESS DETERMINATIONS.	11-15
PEARSON BOOK REVIEW: BIOMETRIKA TABLES FOR STATISTICIANS, VOL.2, BY E. S. PEARSON AND H. O. HARTLEY.	21-4	PERSONAL PERSONAL PROTECTIVE DEVICES.	17-39
PELLET APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS.	20-11	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JANUARY - JUNE 1974.	17-49
ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY - DECEMBER 1973.	17-50
ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY.	17-8
PENDEF PENDEF: A LIBRARY OF NUCLEAR DATA FOR MONTE CARLO CALCULATIONS DERIVED FROM DATA IN THE ENDF/B FORMAT.	25-84	CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1973.	17-9
PENETRATOR NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	PERSONNEL USAFEC WORKSHOP ON PERSONNEL NEUTRON DOSIMETRY.	17-77
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33	PERSPECTIVE PRINCIPLES OF SAFETY. SAFETY IN GENERAL, CRITICALITY RISK IN PERSPECTIVE.	17-46
PENETRATORS DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXPLORING PENETRATORS.	11-5	APPLICATIONS OF COMPUTER GENERATED PERSPECTIVE PLOTS.	21-1
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34	PERTINENT COUPLED NEUTRON - GAMMA MULTIGROUP MULTITABLE CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30
PENTACHLORIDE TREATMENT OF NIOBIUM PENTACHLORIDE ROVER PROJECT WASTE.	30-58	PERTURBATION BOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
PENTAFLUORIDE REDUCTIVE FLUORIDE ELIMINATION SYNTHESIS OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13	PETITION REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-65
PENTAFLUORO PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH ₄ (UO ₂) ₂ AMMONIUM PENTAFLUORO URANATE(IV).	9-15	PHASE GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.	4-21
PERCHLORATE KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(VI) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8	DETERMINATION OF CONDENSED PHASE KINETICS CONSTANTS.	6-5
PERFORMANCE PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES.	1-25	MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-58
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14	SAFETY TEST NO.5-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67
PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36	CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	19-1
		MULTIFRinge ELECTRO-OPTIC PHASE MODULATOR.	19-16
		LIQUID PHASE SINTERING OF TUNGSTEN - NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15
		SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-103

PHASE-SHIFT STILL ANOTHER METHOD FOR PHASE-SHIFT COMPUTATION.	27-16	NUCLEAR EXPLOSION 16 JULY 1945, HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30
PHENOMENA COOPERATIVE PHENOMENA IN HOMOPOLYMERS: AN ALTERNATIVE FORMULATION OF THE PARTITION FUNCTION.	5-25	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT, FY 1974.	17-57
EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JANUARY 1 THROUGH MARCH 31, 1974.	17-58
POST-FISSION PHENOMENA.	14-25	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59
PHOSPHATE CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5'- PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE.	14-3	QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60
PHOSPHORYLATION SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE.	5-105	PHYSICS IN LASER'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20-104
CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16	EFFECT OF GAS MIXTURE ON THE ELECTRON PHYSICS IN THE ELECTRICAL CARBON DIOXIDE GAS LASER.	20-32
METABOLISM OF HISTONE FRACTIONS. 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST.	5-70	FAST VERSATILE PREAMPLIFIER FOR USE IN PARTICLE PHYSICS.	22-15
PHOTOCHEMISTRY BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY.	20-15	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48
PHOTOELECTRON ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49
PHOTOFISSION PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50
PHOTOGRAPHS SPECKLE REDUCTION IN PULSED LASER PHOTOGRAPHS.	20-124	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-51
PHOTOGRAPHY NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14	STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III.	28-19
NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15	PHYSIOLOGICAL AUTOMATIC IDENTIFICATION AND PHYSIOLOGICAL MONITORING IN ANIMALS.	5-9
COPYING LENS FOR MICROFILM PHOTOGRAPHY.	19-3	PI MESON FACTORIES. PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
PHOTOLYSIS DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE.	4-8	MESON FACTORIES. PI MESON DELIVERY, AND PI MESON DOSIMETRY FOR CANCER THERAPY.	5-69
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMIUM CYANIDE IN EXCESS XENON.	6-20	NEUTRON ENERGY FLUX AND DOSAGE IN THE LAMPF PI MINUS BIOMEDICAL CHANNEL.	5-77
PHOTOMETRIC DUAL PARAMETER FLOW PHOTOMETRIC APPARATUS AND METHOD.	5-36	CROSS SECTIONS FOR (PI+, PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10
PHOTON PHOTON SOURCES FOR INSTRUMENT CALIBRATION.	19-19	K(+) TO PI(+) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23
PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24	SPIN AND ISOSPIN EFFECTS IN PI - HELIUM -4 SCATTERING.	22-55
PHOTONS DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34	PICOSECOND OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM - ALUMINIUM - GARNET LASER RADIATION.	17-32
PHOTOREACTION HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11	DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES.	20-26
PHYSICAL PHYSICAL EXAMPLE OF THE BIEDENHARN-GAMBA THEORY OF LEVEL SPLITTINGS.	4-39	PICRYLAZO SYNTHESIS OF 3,3',5,5'- TETRANITRO -2,2'-AZOPYRIDINE AND SOME PICRYLAZO DERIVATIVES OF 3,5- DINITROPYRIDINE.	15-12
HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS.	23-17	PINCH SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100
IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-13	SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101
PHYSICOCHEMICAL SELECTED PHYSICOCHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29	TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-103
PHYSICS STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15	THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE.	10-106
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.	10-66	DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT.	10-111
PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS.	10-69	TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111
PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS.	10-70	UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114
		VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH.	10-115

VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH.	10-116	PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING.	10-78
DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	STAGED THETA PINCHES WITH IMPLSION HEATING.	10-98
EFFECT OF BERYLLIUM (N ₂ N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14	PIONS	
ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR.	10-17	DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-19	PION	
APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH.	10-2	SOME PROBLEMS OF TREATMENT PLANNING FOR PION BEAMS.	5-106
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20	TECHNIQUES FOR VISUALIZING PION TREATMENT PORTS AT LAMPF.	5-111
ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-22	UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-113
ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	10-25	COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS.	5-24
ESTIMATION OF LASER - PLASMA INTERACTIONS IN THE SCYLLA 1-C THETA PINCH.	10-26	DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34
EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27	GALILEAN INVARIANCE AMBIGUITY IN THE NONRELATIVISTIC PION - NUCLEON ABSORPTION OPERATOR.	22-17
EXPERIMENTS IN THE STAGED THETA PINCH EXPERIMENT.	10-28	IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-21
FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-31	LIQUID HELIUM -II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS.	22-24
FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.	10-35	OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION.	22-36
HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39	OFF SHELL EFFECTS IN PION - NUCLEUS INTERACTIONS.	22-37
BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4	PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.	22-39
HYBRID SIMULATION OF PINCH IMPLSIONS.	10-43	PION CONDENSATION IN AN INTERACTING NEUTRON GAS.	22-40
IMPROVED STABILITY OF THE ZT-1 TOROIDAL PINCH BY PROGRAMMING.	10-45	PION EXCHANGE MECHANISM FOR (PION-PLUS, 2PROTON) REACTIONS.	22-41
KINK INSTABILITIES IN THE BELT PINCH.	10-52	PION PRODUCTION FROM NUCLEI.	22-42
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-58	THEORY OF PION SCATTERING BY NUCLEI II.	22-57
MIXED SNOWPLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.	10-59	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58
NUMERICAL STUDY OF THE ROTATING THETA PINCH.	10-62	TUNEUP OF THE LAMPF LOW ENERGY PION CHANNEL.	22-59
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.	10-66	COMMENT ON PION CONDENSATION.	22-7
PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC THETA PINCH.	10-73	CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21
PROSPECTS FOR CONVERTING THORIUM -232 URANIUM -235 IN A LINEAR THETA PINCH.	10-81	CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22
RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-B THETA PINCH IMPLSION: FLUTE INSTABILITIES.	10-87	PION-PLUS	
SCALING LAWS FOR THE LINEAR THETA PINCH 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85	PION EXCHANGE MECHANISM FOR (PION-PLUS, 2PROTON) REACTIONS.	22-41
SCYLLAC THETA PINCH EXPERIMENTS.	10-88	PIONIC	
SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91	E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS.	22-11
STABILITY OF THE ZT-1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS.	10-97	PIONS	
STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PTR COMPRESSION COIL.	10-99	CHARACTERISTICS OF ENERGY DEPOSITION BY PIONS.	5-20
DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3	NEGATIVE PIONS IN RADIOTHERAPY: A BRIEF REVIEW.	5-76
PINCHES		IDENTIFYING, MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS.	22-20
ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES.	10-18	PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45
JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49	PIPE	
		CONCEPTUAL DESIGN OF A HEAT PIPE METHANATOR.	30-8
		PIPES	
		PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14
		PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16
		PITCH	
		UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-34
		PK	
		CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1

PLACID PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT	10-59
PLANE MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE.	18-14	PLASMA COLUMN MOTION IN THE SCYLLAC TORUS.	10-71
PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS.	10-72
ASPEN: AN AEROSPACE PLANE WITH NUCLEAR ENGINES.	30-6	PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC THETA PINCH.	10-71
PLANES DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4	CURRENT CONTINUITY IN DENSE PLASMA.	10-8
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS	19-5	RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-B THETA PINCH IMPLSION: FLUTE INSTABILITIES.	10-82
PLANT LASER FUSION POWER PLANT SYSTEMS ANALYSIS.	10-53	STABILITY ANALYSIS OF INHOMOGENEOUS PLASMA EQUILIBRIA.	10-94
CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.	10-7	PHYSICS IN LASL'S ONE DIMENSIONAL HYDRO-BURN CODES FOR LASER - PLASMA INTERACTION STUDIES.	20-104
REACTOR POWER PLANT FOR UNDERSEA APPLICATIONS.	28-16	PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105
PLAQUE ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1	PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106
KINETICS OF HEMOLYTIC PLAQUE FORMATION.	5-61	PLASMA INSTABILITIES IN THE PRESENCE OF A LARGE THERMAL FLUX.	20-107
ON THE MECHANISM OF HEMOLYTIC PLAQUE INHIBITION.	5-81	PLASMA SIMULATION TECHNIQUES APPLIED TO NONLINEAR OPTICAL PROBLEMS.	20-108
PLASMA MARINER 16 PLASMA SCIENCE EXPERIMENT RESULTS.	1-18	PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN	20-114
OBSERVED ANOMALOUS BEHAVIOR OF HIGH LATITUDE BARIUM PLASMA JET.	1-24	SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-123
PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADIUS.	1-26	STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127
PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.	20-137
PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-141
ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.	1-3	MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87
VELA AND IMP PLASMA FLOW OBSERVATIONS.	1-36	NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91
ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.	1-7	PRELIMINARY STUDY OF PLASMA NUCLEAR REACTOR FEASIBILITY.	28-9
FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 30, 1963.	30-36
LASER - PLASMA SPECTRA OF HIGHLY IONIZED FLUORINE.	3-13	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 30, 1963.	30-37
OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER-10	3-17	PLASMAS TRANSMISSION SPECTROSCOPY OF LASER PRODUCED PLASMAS.	20-110
OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10.	3-18	EQUILIBRIUM AND STABILITY OF $L = 1$ HELICALLY SYMMETRIC, FINITE BETA, DIFFUSE PLASMAS.	10-24
TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	4-53	FAST WAVE HEATING OF TOKAMAK PLASMAS.	10-30
PLASMA ARGININE ESTERASE ACTIVITY IN CYSTIC FIBROSIS.	5-85	KINK INSTABILITIES IN ARBITRARY CROSS SECTION PLASMAS.	10-51
SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6).	10-102	SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS.	20-125
TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-108	TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140
TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113	BREMSSTRAHLUNG EMISSION FROM LASER PRODUCED PLASMAS.	20-16
ESTIMATION OF LASER - PLASMA INTERACTIONS IN THE SCYLLA 1-C THETA PINCH.	10-26	EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41
BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-3	EXPERIMENTS WITH LASER PRODUCED PLASMAS: ELECTRONS, IONS, AND NEUTRONS.	20-42
INDUCTIVE MODEL FOR MULTIDIMENSIONAL PLASMA SIMULATION.	10-47	HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50
INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON - ION COLLISION RATE IN A PLASMA.	10-48	INTERFEROMETRIC MEASUREMENTS OF LASER PRODUCED PLASMAS.	20-58
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-58		

LASER INDUCED INSTABILITIES AND ANOMALOUS ABSORPTION IN DENSE PLASMAS.	20-74	KINETICS OF THE OXIDATION OF PLUTONIUM (III) TO PLUTONIUM(IV) BY CHROMIUM(VI).	6-9
LASER INDUCED PLASMAS IN ELECTRIC FIELDS.	40-75	ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM - PLUTONIUM DIOXIDE.	7-1
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98	RADIATION CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCES.	7-12
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-99	STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM(2)NICKEL(17).	7-14
PLASTIC		ON DIVALENT AMERICIUM IN MOLTEN SALT/ MOLTEN PLUTONIUM SYSTEMS.	7-7
TIME RESPONSE OF PLASTIC SCINTILLATORS.	19-22	PREPARATION OF PLUTONIUM -238 (OXYGEN -16) DIOXIDE.	7-8
PLATE		PROGNOSIS FOR SUPERCONDUCTIVITY IN NEPTUNIUM AND PLUTONIUM.	8-23
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34	EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM -238 (80 PER CENT) DIOXIDE. 3.	9-7
MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION.	18-13	SHIPPING CONTAINER FOR PLUTONIUM -238 AS FISSILE MATERIAL CLASS 1.	13-18
PLATES		PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-21
DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3	DEMOLITION OF BUILDING 12, AN OLD PLUTONIUM FILTER FACILITY.	17-12
PLATINUM		DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY.	17-13
POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.	4-40	DISSOLUTION OF PLUTONIUM -238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS.	17-16
PLOTS		INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.	17-26
APPLICATIONS OF COMPUTER GENERATED PERSPECTIVE PLOTS.	21-1	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS.	17-36
PLUTONIA		PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JANUARY 1 THROUGH JUNE 30, 1974.	17-37
PLUTONIA AERODYNAMIC DISK (PAD). SUMMARY REPORT.	13-15	PERFORMANCE OF MULTIPLE HEPA FILTERS AGAINST PLUTONIUM AEROSOLS, JULY 1 THROUGH DECEMBER 31, 1973.	17-38
PLUTONIUM		PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	PLUTONIUM -238 RELEASE IN SIMULATED NATURAL ENVIRONMENTS.	17-41
MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-12	PLUTONIUM AEROSOL SIZE CHARACTERISTICS.	17-42
PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14	PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-43
SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM IN PLUTONIUM DIOXIDE.	2-16	PROBLEM OF LARGE AREA PLUTONIUM CONTAMINATION.	17-48
DETERMINATION OF OXYGEN -17 AND OXYGEN -18 ISOTOPIC ABUNDANCES IN PLUTONIUM -238 MATERIALS BY GAMMA SPECTROMETRY.	2-4	PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS.	17-54
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7	STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73
EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8	STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-73
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS.	17-78
STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-108	HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM -238 DIOXIDE.	23-11
DISTRIBUTION AND EXCRETION OF PLUTONIUM ADMINISTERED INTRAVENOUSLY TO MAN.	5-32	METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18
LUNG IRRADIATION WITH STATIC PLUTONIUM MICROSPHERES.	5-64	BUILDING D PLUTONIUM RECOVERY PROCESS.	23-2
PLUTONIUM -238 FUELS FOR POWERING MEDICAL DEVICES.	5-86	PERFORMANCE CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24
PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM -238 FUELS, JULY 1, 1971 - JUNE 30, 1973.	5-88		
RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97		
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1).	5-99		
REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART 1. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13		
KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIUM(VI) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8		

RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 AT 5.97 AND 6.9 MEV.	25-86
COMPATIBILITY OF HAFNALOYS 165 AND 150 WITH PLUTONIUM -238 DIOXIDE.	23-3	POLARIZATION TRANSFER IN HELIUM -3 (DEUTERON, NEUTRON) HELIUM -3 ELASTIC SCATTERING.	25-17
STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-33	POLARIZATION TRANSFER IN PROTON - HELIUM -3 ELASTIC SCATTERING AT 16 MEV.	25-88
EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.	21-6	POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM -3 REACTION.	25-89
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8	PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.	25-94
CROSS SECTIONS OF URANIUM -235 AND PLUTONIUM -239 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32	POLARIZED SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR CESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16	COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-4
CHEMICAL ASSAY OF PLUTONIUM FOR SAFEGUARDS.	26-5	POLARIZED PROTONS ON HELIUM -3 AT 13.6 MEV.	25-80
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8	RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE	27-12
QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT, FY 1974.	28-10	POLES FIXED POLES AND COMPOSITENESS.	22-16
QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	28-11	POLICY UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS	30-61
DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED (URANIUM, PLUTONIUM) DIOXIDE FUEL PINS.	28-3	POLONIUM ELECTROMAGNETIC TRANSITION RATES IN POLONIUM -215.	25-43
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969.	30-38	POLYATOMIC THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1969.	30-39	ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES.	6-6
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40	POLYATOMIC MOLECULAR RELAXATION IN THE ABSENCE OF COLLISIONS.	20-109
STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55	POLYCHROMETER POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT	19-26
POISSON DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS.	21-14	POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT. ERRATUM.	19-21
ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37	POLYDEOXYTHYMIDYLATE MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67
POLARIMETER PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.	25-94	POLYIMIDE EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9
POLARIMETRY POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21	POLYMERASE INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN - DIATIN BY ULTRAVIOLET LIGHT.	5-55
POLARIZATION SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31	POLYMERS PREPARATION AND PROPERTIES OF THE POLYMERS DIACIN-DICTIN AND DIAGCIN-DIGCTIN.	5-80
ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1	POLYNOMIALS SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS.	21-54
NUCLEAR POLARIZATION DEDUCED FROM MUONIC LEAD -208 MEASUREMENTS.	22-35	POLYSOMAL SYNTHESIS OF HETEROGENEOUS NUCLEAR. INFORMOSOMAL MESSENGER-LIKE. AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
RELEVANCE OF SOME RECENT NEUTRON - PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES.	22-52	POOL POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23
VACUUM POLARIZATION IN HIGH Z. FINITE SIZE NUCLEI.	25-121	POOLS EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40
DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37	POPULATION KINETICS FOR POPULATION INVERSION ON THE 557.7 NM (3S) TO (3P) TRANSITION IN ATOMIC OXYGEN.	4-29
LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-60		
POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM -3 REACTION AT 10 MEV.	25-85		

POPULATIONS		THOMAS-FERMI CALCULATION OF POTENTIAL BETWEEN ATOMS.	4-52
CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS.	5-21		
CHROMOSOME G-BANDING AND DNA CONSTANCY IN ANEUPLOID CELL POPULATIONS.	5-22	VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYNIDE.	4-56
EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER-RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38	DIELECTRIC BREAKDOWN OF POTENTIAL RMP (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13
POPULATIONS		POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-74
NATURE OF CHROMOSOME INSTABILITY IN HETEROLOID CELL POPULATIONS.	5-75	GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRANEAN DEVICES: A STATUS REVIEW.	11-13
POROUS		POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES.	11-22
CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4	POTENTIAL FOR THE PRODUCTION OF POWER FROM GEOTHERMAL RESOURCES.	11-23
PORTABLE		CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	16-2
PORTABLE FLASH X RAY SYSTEMS: TECHNIQUES AND APPLICATIONS.	2-13	POTENTIAL LASERS FOR LCTR APPLICATIONS.	20-110
MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS.	26-14	QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-103
PORTAL		TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119
PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-26	TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-120
PORTAL MONITOR FOR DIVERSION SAFEGUARDS	26-27	POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS.	25-91
PORTS		POTENTIALLY	
TECHNIQUES FOR VISUALIZING PION TREATMENT PORTS AT LAMPE.	5-111	PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24
POSITION		POTENTIALS	
EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SPIN IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10	INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26
LOW DEAD-TIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14	MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34
POSITIVE		HYPERTRITON AS A TEST OF THEORETICAL HYPERON - NUCLEON POTENTIALS	22-19
IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-21	COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	22-8
CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21	COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	25-26
POSSIBILITIES		DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS.	25-34
LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4	POULTRY	
POSSIBILITY		RECENT DEVELOPMENTS IN DISEASE SURVEILLANCE METHODS FOR POULTRY.	5-100
TITUS-RODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM.	3-34	POWER	
POST-FISSION		PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25
POST-FISSION PHENOMENA.	16-25	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26
POST-NEWTONIAN		PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
POST-NEWTONIAN NEUTRON STARS.	3-22	CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION.	8-4
POTASSIUM		DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	LASER FUSION POWER PLANT SYSTEMS ANALYSIS.	10-53
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.	10-7
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27		
POTENTIAL			
SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31		
AB INITIO POTENTIAL CURVES FOR THE NEON (8s) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2		
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22		
POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.	4-40		
POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41		

GEOTHERMAL POWER	11-12	POWERED	
POTENTIAL FOR THE PRODUCTION OF POWER FROM GEOTHERMAL RESOURCES	11-23	METHOD OF FOCUSING A HIGH POWERED LASER BEAM	20-81
NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE	11-31	POWERFUL	
POWER REACTOR EXCURSION STUDIES	17-41	SELF FOCUSING OF VERY POWERFUL LASER BEAMS 2	20-119
SOFT APERATURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-120	POWERING	
SOFT APERATURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-121	PLUTONIUM -238 FUELS FOR POWERING MEDICAL DEVICES	5-86
TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN	20-141	PRE-IONIZATION	
TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER	20-142	EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA	20-11
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET	20-144	PREAMPLIFIER	
EFFICIENT HIGH POWER XENON AND XENON -RARE GAS MIXTURE LASERS	20-35	FAST VERSATILE PREAMPLIFIER FOR USE IN PARTICLE PHYSICS	22-15
HIGH POWER NEODYMIUM : GLASS LASER SYSTEM FOR FUSION RESEARCH	20-53	PRECIPITATION	
MODEL FOR THE CW POWER OUTPUT OF THE HYDROGEN FLUORIDE CHEMICAL LASER	20-54	THEORY OF PRECIPITATION AND AGGLUTINATION REACTIONS IN IMMUNOLOGICAL SYSTEMS	5-112
VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN -3 (DEUTERON, DEUTERON) HYDROGEN -3 ELASTIC SCATTERING AT 11.4 AND 14.4 MEV	25-123	PRECISION	
ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION	25-6	LIQUID HELIUM -II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS	22-24
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON - HELIUM -3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV	25-68	PRECURSOR	
EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS	27-2	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS	5-38
REACTOR POWER PLANT FOR UNDERSEA APPLICATIONS	28-16	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS	5-40
ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY	30-11	PREDATOR	
NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS	30-25	PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1	5-82
APPLICATIONS OF LOW POWER NUCLEAR ROCKET ENGINES	30-3	PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2	5-83
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969	30-38	PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE	5-84
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1968	30-39	PREDICTING	
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968	30-40	MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES	17-28
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2	30-41	PREDICTION	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969	30-42	PREDICTION OF FAILURES IN CTR SYSTEMS	10-75
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2	30-43	PREIONIZED	
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970	30-44	PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER	20-103
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1971	30-45	INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER	20-59
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971	30-51	PREPARATION	
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2	30-52	PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION	2-14
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971	30-53	CELL PREPARATION AND STAINING FOR FLOW SYSTEMS	5-17
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972	30-54	PREPARATION AND EVALUATION OF MEDICAL GRADE PLUTONIUM -238 FUELS. JULY 1, 1971 - JUNE 30, 1973	5-88
		PREPARATION AND PROPERTIES OF THE POLYMERS DIACTIN-DICTION AND DIACTIN-DIGCTIN	5-89
		PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT	5-90
		PREPARATION OF PLUTONIUM -238 (OXYGEN -16) DIOXIDE	7-8
		DEPENDENCE OF THE COBALT DISILICIDE SUPERCONDUCTING TRANSITION ON PREPARATION	8-5
		PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH4(UF6)5, AMMONIUM PENTAFLUORO URANATE(IV)	9-15
		SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS	23-80
		PRESERVATION	
		PRESERVATION AND STORAGE OF URINE SAMPLES FOR THE DETERMINATION OF MERCURY	17-45

PRESSURE		PROBE	
LATTICE MODEL CALCULATION OF HUGONIOT CURVES AND THE GRUNEISEN PARAMETER AT HIGH PRESSURE FOR THE ALKALI HALIDES.	4-10	PROBE ACTIVITIES. ANNUAL REPORT, JULY 1, 1973 - JUNE 30, 1974	5-91
DESIGN CONSIDERATIONS FOR A HIGH PRESSURE, EQUATION OF STATE EXPERIMENT.	4-9	QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.	22-42
REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART I. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13	QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	PROBLEM	
MELTING PRESSURE OF HELIUM -4 AT VERY LOW TEMPERATURES.	8-19	PROBLEM OF LARGE AREA PLUTONIUM CONTAMINATION.	17-48
STRUCTURE OF CERIUM METAL AT HIGH PRESSURE.	9-16	COMPARATIVE EFFICIENCY OF CERTAIN FINITE ELEMENT AND FINITE DIFFERENCE METHODS FOR A HYPERBOLIC PROBLEM.	21-8
X RAY STUDY OF HELIUM -4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	9-20	SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-103
ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES.	10-18	PROCEDURE	
PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING.	10-78	NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-10
AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	PROCEDURES	
SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28	ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37
HIGH PRESSURE APPARATUS FOR SIMULTANEOUS ADIABATIC AND ISOTHERMAL COMPRESSIBILITY MEASUREMENTS: DATA ON ARGON TO 13 KBAR.	19-12	APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES.	25-10
ANOMALOUS GAIN COEFFICIENTS IN ATMOSPHERIC PRESSURE CARBON DIOXIDE LASERS	20-9	URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL.	26-28
PRESSURE DEPENDENCE OF T(C) IN THE (YTTRIUM,THORIUM) CARBIDE SYSTEM	23-25	STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III.	28-19
PRESSURES		PROCEEDINGS	
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13	TRANSIENT COSMIC GAMMA AND X RAY SOURCES, 1973, CONFERENCE, LOS ALAMOS, NM. PROCEEDING.	3-35
PREY		PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY, SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE, 1.	5-82	PRACTICAL APPLICATIONS OF ACCELERATORS, 1973, SYMPOSIUM, LOS ALAMOS, NM. PROCEEDINGS.	22-43
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE, 2.	5-83	NUCLEAR PROCESS HEAT APPLICATIONS, 1974, 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	24-7
PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84	PROCESS	
PRIMARY		QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	RA-LA PROCESS RESEARCH.	7-11
REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-43	PROCESS ENVIRONMENT EFFECTS ON HEAT PIPES IN FLUID BED COAL GASIFICATION.	13-16
PRIME		PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL -3,7- DINITRO -1,3,5,7-TETRA-AZACYCLOOCTANE (DADN), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.	15-6
KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.	30-19	STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127
PRIMER		PROCESS MU- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + NU WITH FINAL STATE INTERACTIONS.	22-44
MBD PRIMER.	21-30	BUILDING D PLUTONIUM RECOVERY PROCESS.	23-2
PRINCETON		IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12
ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973.	10-21	NUCLEAR PROCESS HEAT APPLICATIONS, 1974, 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	28-7
PRINCIPLES		OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES.	28-8
PRINCIPLES OF SAFETY, SAFETY IN GENERAL, CRITICALITY RISK IN PERSPECTIVE.	17-46	STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55
PRIORITIES		PROCESSED	
U.S. ENERGY AND PRIORITIES.	30-60	SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM/31TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	6-31
PROBABILISTIC		PROCESSES	
PROBABILISTIC EVALUATION OF FALLOUT EFFECTS ASSOCIATED WITH NUCLEAR AIR BURSTS.	17-47	NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38
PROBABILITY		HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14
FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS.	10-33		
BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GIBBA.	21-5		

BIOLOGICAL TRANSFER PROCESSES IN ENVIRONMENTAL SURVEILLANCE.	17-5	POTENTIAL FOR THE PRODUCTION OF POWER FROM GEOTHERMAL RESOURCES	11-24
SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES.	21-52	PION PRODUCTION FROM NUCLEI	22-47
EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14	PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI ERRATUM.	22-45
CAPTURE PROCESSES FOR NEGATIVE MESONS.	22-5	NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT	24-9
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY.	27-18	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN-2 (DEUTERON, NEUTRON) HELIUM-3 REACTION WITH E/D FROM 6 TO 17 MEV AND BY THE HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 REACTION WITH E/D FROM 6 TO 16 MEV.	25-2
PROCESSING		FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48
OPTICAL DATA PROCESSING OF A HOLOGRAM OBTAINED WITH CODED APERTURE IMAGING.	19-18	PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92
DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY.	21-13	HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	26-5
PRODUCED		PRODUCTS	
TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	4-53	COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HF(V) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-1
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMIUM CYANIDE IN EXCESS NEXON.	6-20	PROFILE	
TRANSMISSION SPECTROSCOPY OF LASER PRODUCED PLASMAS.	10-110	CORONAL LINE PROFILE STUDY ABOARD THE FRENCH CONCORDE.	3-1
HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14	TEMPORAL OBSERVATIONS OF THE LAMBDA 5893 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32
ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10	ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14
SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-123	PROFILES	
BREMSSTRAHLUNG EMISSION FROM LASER PRODUCED PLASMAS.	20-16	OBSERVATIONS OF ELECTRON DENSITIES BY HOLOGRAPHIC INTERFEROMETRY AND HELIUM-2 LINE PROFILES.	10-43
EFFECT OF PRE-IONIZATION ON FAST IONS FROM A CARBON DIOXIDE LASER PRODUCED PLASMA.	20-33	NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE.	20-91
EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS.	20-41	PROFILOMETER	
EXPERIMENTS WITH LASER PRODUCED PLASMAS: ELECTRONS, IONS, AND NEUTRONS.	20-42	USE OF OPTICAL PROFILOMETER SYSTEM AT LASL.	13-22
HARMONIC GENERATION AND FREQUENCY MIXING IN LASER PRODUCED PLASMAS.	20-50	PROGNOSIS	
INTERFEROMETRIC MEASUREMENTS OF LASER PRODUCED PLASMAS.	20-58	PROGNOSIS FOR SUPERCONDUCTIVITY IN NEPTUNIUM AND PLUTONIUM.	8-24
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-58	PROGRAM	
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-59	ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1
NEUTRONS PRODUCED BY 740 MEV PROTONS ON URANIUM.	22-34	NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37
PRODUCING		BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS.	5-11
CROSS SECTIONS OF URANIUM-235 AND PLUTONIUM-239 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32	ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION. JANUARY THROUGH DECEMBER 1973.	5-3
PRODUCT		RADIOISOTOPE PROGRAM AT LAMPF.	5-98
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.	16-19	FITWEIB: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS	10-33
FERMAT FUNCTIONS AND THE GENERAL WALLIS PRODUCT.	21-23	MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FISSION TEST REACTOR (FTR).	10-55
PRODUCTION		PRESENT STATUS AND FUTURE PROGRAM OF THE ZT-1 EXPERIMENT.	10-77
ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.	5-102	PROGRESS REPORT. LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973.	10-79
METHOD FOR PRODUCTION OF UNIFORM MICROSPHERES.	5-71	REVIEW OF SFX/FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84
QUANTITATIVE IMMUNOFLUORESCENCE MEASUREMENTS OF SV40 T-ANTIGEN PRODUCTION.	5-95	LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM.	11-19
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN - OXYGEN - FLUORINE MIXTURES.	6-15	APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRANEAN PROGRAM.	11-2
QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. JANUARY 1 THROUGH MARCH 31, 1974.	7-10	SUBTERRANEAN ROCK MELTING EXCAVATION PROGRAM.	11-32
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.	7-6	QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM. MARCH 16 THROUGH JUNE 30, 1974.	15-10
QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. APRIL 1 THROUGH JUNE 30, 1974.	7-9		

QUARTERLY REPORT. JOINT SERVICES EXPLOSIVE PROGRAM. AUGUST 16 THROUGH NOVEMBER 30, 1973.	15-8	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40
QUARTERLY REPORT. JOINT SERVICES EXPLOSIVES PROGRAM. DECEMBER 1, 1973. THROUGH MARCH 15, 1974.	15-9	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT. FY 1974.	17-57	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JANUARY 1 THROUGH MARCH 31, 1974.	17-58	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
KACHINA: AN EULERIAN COMPUTER PROGRAM FOR MULTIFIELD FLUID FLOWS.	18-12	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51
PROGRESS REPORT. LASER PROGRAM AT LASL. JANUARY 1 THROUGH JUNE 30, 1974.	20-111	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52
PROGRESS REPORT. LASER PROGRAM AT LASL. JULY 1 THROUGH DECEMBER 31, 1973.	20-112	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53
AYER HEAT CONDUCTION COMPUTER PROGRAM.	21-2	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABULAR DATA.	21-25	PROGRAMMING IMPROVED STABILITY OF THE ZT-1 TOROIDAL PINCH BY PROGRAMMING.	10-45
PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	MAGNETIC FIELD PROGRAMMING IN ZT-1.	10-56
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.	21-39	NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.	30-25
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.	21-40	PROGRAMS	
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	21-41	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. APRIL -JUNE 1974.	30-32
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JULY -SEPTEMBER 1974.	30-33
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. OCTOBER -DECEMBER 1973.	30-34
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JANUARY - MARCH 1974.	30-35
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-51	PROGRESS	
FORTAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION.	23-10	PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.	5-92
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT. JANUARY - APRIL 1974.	26-20	PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS. APRIL 1 -SEPTEMBER 30, 1974.	5-93
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT. MAY -AUGUST 1974.	26-21	PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT. SEPTEMBER -DECEMBER 1973.	26-22	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25
QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	28-10	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26
QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	28-11	PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
APPLICATION OF TECHNOLOGY FROM THE ROVER PROGRAM AND RELATED DEVELOPMENTS.	30-2	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-28
PACER PROGRAM. FY-1974 LASL ACTIVITY.	30-28	PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 20, 1963.	30-36	PROGRESS REPORT. LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973.	10-79
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 20, 1963.	30-37	RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.	12-6
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969.	30-38	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JANUARY -JUNE 1974.	17-49
QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1968.	30-39	PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JULY -DECEMBER 1973.	17-50

PROGRESS REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	PROJECTION TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS.	29-4
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JANUARY 1 THROUGH JUNE 30, 1974.	17-52	PROLIFERATION CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION	5-16
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JULY 1 THROUGH DECEMBER 31, 1973	17-53	PROLONGED PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1973.	17-9	PROMPT PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239	16-27
PROGRESS REPORT. LASER PROGRAM AT LASL. JANUARY 1 THROUGH JUNE 30, 1974.	20-111	PROMPT NEUTRON EMISSION IN LOW ENERGY FISSION.	16-28
PROGRESS REPORT. LASER PROGRAM AT LASL. JULY 1 THROUGH DECEMBER 31, 1973.	20-112	PROMPT NEUTRONS FROM THE SPONTANEOUS FISSION OF FERMIUM -257.	16-29
PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 - JULY 1973.	20-113	PROPAGATING PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD.	20-106
FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44	LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78
PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES. FEBRUARY 1 - JULY 31, 1974.	23-26	PROPAGATION PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 - JULY 1973.	20-113
PROGRESS REPORT. RESEARCH ON CARBON -ALUMINUM COMPOSITES. SEPTEMBER 1, 1973-JANUARY 31, 1974.	23-27	PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN.	20-114
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. APRIL 1 THROUGH JUNE 30, 1974.	25-11	FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JANUARY 1 THROUGH MARCH 31, 1974.	25-12	LASER PULSE PROPAGATION CODE.	20-77
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13	PROPELLANT SNAP 19A/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-57
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15	PROPERTIES ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP. LOS ALAMOS SCIENTIFIC LABORATORY. JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
P-DIVISION PROGRESS REPORT. FEB. 20 -MAR. 20, 1949.	30-27	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+1, 2) SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23
PROJECT PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. APRIL 1 THROUGH JUNE 30, 1974.	8-25	POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-26	BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNA'S IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES.	5-12
PROGRESS REPORT. USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27	PREPARATION AND PROPERTIES OF THE POLYMERS DIAICN-DIICTN AND DIACIN-DIGCTIN.	5-89
PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. JANUARY 1 THROUGH MARCH 31, 1974.	8-28	SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.	7-19
PROGRESS REPORT. USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL. OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29	THERMODYNAMIC PROPERTIES OF ACTINIDE CARBIDES.	7-20
DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7	SELECTED PHYSICOCHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29
PROJECT MANAGEMENT OF SCYLLAC.	10-80	PROPERTIES OF AMATEX/20.	15-7
OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.	13-13	SURFACES OF REVOLUTION WITH VARIOUS NORMAL INTERSECTION PROPERTIES.	21-57
PROGRESS REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-13
QUARTERLY REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29
C-DIVISION SOFTWARE BRANCH PROJECT HANDBOOK.	21-6	SOME MECHANICAL PROPERTIES OF URANIUM -MOLYBDENUM ALLOYS.	23-31
LOS ALAMOS Q3D PROJECT.	22-25	FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM -238 DIOXIDE RADIOISOTOPIC FUELS.	23-8
TREATMENT OF NIOBIUM PENTACHLORIDE ROVER PROJECT WASTE.	30-58		

TABLE OF CALCULATED NUCLEAR PROPERTIES.	25-113	PROTO-SOLAR STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	4-48
TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119	PROTON BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4
TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-120	HOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19	ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	PROTON - OXYGEN - ¹⁷ O SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4
MAGNETIC PROPERTIES OF L _N IN INTERMETALLIC COMPOUNDS.	29-1	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
PROPERTY PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JANUARY - JUNE 1974.	17-49	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JULY - DECEMBER 1973.	17-50	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY.	17-8	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON - FISSION), (HELIUM -3, DEUTERON - FISSION), (PROTON, PROTON - FISSION) AND (TRITON, ALPHA - FISSION) STUDIES.	16-10
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1973.	17-9	CROSS SECTIONS FOR (PI+, PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12 AND OXYGEN -16.	22-10
PROPORTIONAL LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14	IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-25
URANIUM -235 ENRICHMENT DETERMINATION USING HELIUM -4 PROPORTIONAL COUNTERS.	19-23	NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP.	22-33
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS	19-4	RELEVANCE OF SOME RECENT NEUTRON - PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES.	22-52
DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-5	(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1
SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRED PROPORTIONAL CHAMBER DATA.	21-47	STRONTIUM -87 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108
PROPOSAL SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100	STRUCTURE OF KRYPTON -88 DERIVED FROM THE KRYPTON -86 (TRITON, PROTON) KRYPTON -88 REACTION.	25-109
PROPOSED PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS.	17-54	STUDY OF NEON -22 WITH THE NEON -20 (TRITON, PROTON) REACTION.	25-110
PROPULSION NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31	TEST OF PARITY CONSERVATION IN PROTON - PROTON SCATTERING.	25-115
NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24	TEST OF PARITY CONSERVATION IN PROTON - PROTON SCATTERING.	25-116
NUCLEAR PULSED PROPULSION SYSTEMS.	30-26	ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON, NEUTRON) HELIUM -3 REACTION WITH E(D) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 REACTION WITH E(P) FROM 6 TO 16 MEV.	25-2
SCHEMES FOR NUCLEAR PROPULSION.	30-50	CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21
PROSPECTS PROSPECTS FOR CONVERTING THORIUM -232 - URANIUM -233 IN A LINEAR THETA PINCH.	10-81	CALCULATION OF THE POSITIVE PION + DEUTERON TO PROTON + PROTON CROSS SECTION FROM 0 - 140 MEV.	25-21
PROTACTINIUM SUPERCONDUCTIVITY OF PROTACTINIUM.	8-34	CALCULATIONS OF NEUTRON - PROTON BREMSSTRAHLUNG CROSS SECTIONS INCLUDING THE ONE PION EXCHANGE CURRENT.	25-22
FISSION BARRIERS FOR PROTACTINIUM AND NEPTUNIUM ISOTOPES.	16-11	CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -4 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23
PROTECTED MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81	CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-31
PROTECTION LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73	ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON, PROTON) LEAD -206 REACTION.	25-44
PROTECTIVE PERSONAL PROTECTIVE DEVICES.	17-39	EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD -206 (TRITON, PROTON) LEAD -208.	25-45
PROTEIN SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS: RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM -4 AND HELIUM -3 (DEUTERON, PROTON) HELIUM -4 REACTIONS.	25-47
EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39	GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA THE ALUMINUM -27 (PROTON, GAMMA) SILICON -28 REACTION.	25-50
AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	3-8	KRYPTON -84 (TRITON, PROTON) KRYPTON -86 AND KRYPTON -86 (TRITON, PROTON) KRYPTON -88 REACTIONS.	25-55

LEVELS OF SELENIUM -84 FROM THE SELENIUM -82 (TRITON, PROTON) SELENIUM -84 REACTION.	25-57	PULSE KINETICS OF A HYDROGEN(2) - FLUORINE(2) EXPLOSION AS INITIATED BY A PULSE OF FLUORINE ATOMS.	6-7
ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-6	DESIGN AND DEVELOPMENT OF A COMBINATION PULSE TRANSDUCER.	19-6
LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM -3 REACTION.	25-60	OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100
MEASUREMENT OF PARITY VIOLATION IN PROTON - PROTON SCATTERING AT 15 MEV.	25-64	PROGRESS REPORT, SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 - JULY 1973.	20-113
MEASUREMENT OF PARITY VIOLATION IN PROTON - PROTON SCATTERING AT 15 MEV.	25-64	PULSE UNFOCUSING WITHIN LASER FUSION REACTORS.	20-115
MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON(+) NITROGEN -14 SCATTERING NEAR 16 MEV.	25-65	DEGRADATION OF A LASER MEDIUM DUE TO IONIZATION BY A LASER PULSE.	20-22
POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON, NEUTRON) HELIUM -3 AT 5.97 AND 9.9 MEV.	25-86	FINAL PROGRESS REPORT, SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44
POLARIZATION TRANSFER IN PROTON - HELIUM -3 ELASTIC SCATTERING AT 16 MEV.	25-88	GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49
PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT.	25-93	HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52
PROTON - PROTON BREMSSTRAHLUNG: COULOMB EFFECT.	25-93	LASER PULSE PROPAGATION CODE.	20-77
PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.	25-94	SUBROUTINES CALLABLE FROM PDP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER.	21-56
R-MATRIX ANALYSIS OF PROTON - HELIUM -3 ELASTIC SCATTERING BELOW 5 SUB P EQUALS 19.5 MEV.	25-96	PULSED MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.	10-57
PROTONS UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-34	PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	10-65
ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS.	1-7	3.2 GW PULSED HYDROGEN - FLUORINE CHEMICAL LASER INITIATED BY AN ELECTRON BEAM.	20-1
NEUTRONS PRODUCED BY 740 MEV PROTONS ON URANIUM.	22-34	SPECKLE REDUCTION IN PULSED LASER PHOTOGRAPHS.	20-124
PRODUCTION OF CHARGED PIONS BY 730 MEV PROTONS FROM HYDROGEN AND SELECTED NUCLEI. ERRATUM.	22-45	PERFORMANCE OF PULSED 805 MHZ, 1.25 MW KLYSTRONS INTO MISMATCHED LOADS.	22-38
DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37	URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-38
NEUTRON SPECTRA FROM 500 MEV PROTONS ON BERYLLIUM -9.	25-76	FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13
POLARIZED PROTONS ON HELIUM -3 AT 13.6 MEV.	25-90	NUCLEAR PULSED PROPULSION SYSTEMS.	30-26
ISOTOPIC NITROGEN ANALYSIS USING LOW ENERGY PROTONS.	26-13	PULSES OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM : YTTRIUM - ALUMINIUM - GARNET LASER RADIATION.	17-32
NITROGEN ISOTOPIC ANALYSIS USING LOW ENERGY PROTONS.	26-18	PLASMA CHEMISTRY AND THE DYNAMICS OF CARBON FOILS IRRADIATED BY HIGH INTENSITY LASER PULSES.	20-105
PROTOTYPE PROTOTYPE TESTS ON A 200 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET.	8-30	DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES.	20-26
PROTRACTION COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-23	GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-46
PSEUDOATOMS ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.	4-60	GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES.	20-49
PSEUDOPOTENTIAL ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.	4-60	PUMPED STANDING WAVE PUMPED PARAMETRIC INSTABILITIES.	20-128
PTR STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PTR COMPRESSION COIL.	19-99	AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8
PUBLICATIONS PUBLICATIONS OF LASL RESEARCH 1972.	30-30	MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS.	20-88
PUBLICATIONS OF LASL RESEARCH 1973.	30-31	PURE EXACT SOLUTION TO PURE BINARY REACTION PROBLEMS.	21-21
PULSAR PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.	3-24	PYRIDINE SYNTHESIS WITH STABLE ISOTOPES: PYRIDINE (NITROGEN -15).	7-17
PULSATILE NUMERICAL STUDY OF PULSATILE FLOW THROUGH CONSTRICTED ARTERIES.	5-78	PYTHAGOREAN GENERALIZED PYTHAGOREAN THEOREM.	21-26
PULSATION RELATIVISTIC TERMS IN NONLINEAR PULSATION THEORY.	3-28		

QQ			
QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	4-42	QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50
QUADRUPOLE		QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-51
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS INTERACTION.	22-46	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, APRIL 1 THROUGH JUNE 30, 1974.	25-11
QUADRUPOLE MIXING IN HADRONIC ATOMS: AN ADDITIONAL PROBE OF THE HADRON - NUCLEUS POTENTIAL.	22-47	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JANUARY 1 THROUGH MARCH 31, 1974.	25-12
TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE.	29-3	APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13
QUALIFIED		APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14
FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13		
QUALITY		APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15
LASL QUALITY ASSURANCE MANUAL FOR ENGINEERING AND CONSTRUCTION.	13-11	QUARTERLY REPORT, ADVANCED PLUTONIUM FUELS PROGRAM, APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT, FY 1974.	28-10
QUALITY OF ANALYTICAL CHEMISTRY IN OCCUPATIONAL HEALTH AND LABORATORY ACCREDITATION BY AIHA.	17-55	QUARTERLY REPORT, ADVANCED PLUTONIUM FUELS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.	28-11
QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12	QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-12
PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29	QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13
QUANTIMET		QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967, PART 2.	28-14
FORTAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION.	23-10	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967, PART 2.	28-15
QUANTITATIVE		QUARTERLY REPORT, TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, APRIL - JUNE 1974.	30-32
QUANTITATIVE IMMUNOFLUORESCENCE MEASUREMENTS OF SV40 T-ANTIGEN PRODUCTION.	5-95	QUARTERLY REPORT, TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JULY - SEPTEMBER 1973.	30-33
QUANTITATIVE METHOD FOR EVALUATING FLUORESCENT ANTIBODIES AND THE CONJUGATION PROCESS.	5-96	QUARTERLY REPORT, TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, OCTOBER - DECEMBER 1973.	30-34
QUANTITIES		QUARTERLY REPORT, TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JANUARY - MARCH 1974.	30-35
SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL, SUPPLEMENT.	17-69	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 20, 1963.	30-36
QUARK		QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 20, 1963.	30-37
$K_1^+ \rightarrow \pi^0 + \gamma$ TO $\pi^+ + \gamma$ GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, JULY 1 - SEPTEMBER 30, 1969.	30-38
QUARTERLY		QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, OCTOBER 1 - DECEMBER 31, 1968.	30-39
QUARTERLY REPORT, THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, JANUARY 1 THROUGH MARCH 31, 1974.	7-10	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, JULY 1 - SEPTEMBER 30, 1968.	30-40
QUARTERLY REPORT, THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, APRIL 1 THROUGH JUNE 30, 1974.	7-9	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970, PART 2.	30-41
QUARTERLY REPORT, JOINT SERVICES EXPLOSIVES PROGRAM, MARCH 16 THROUGH JUNE 30, 1974.	15-10	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
QUARTERLY REPORT, JOINT SERVICES EXPLOSIVES PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973.	15-8	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968, PART 2.	30-43
QUARTERLY REPORT, JOINT SERVICES EXPLOSIVES PROGRAM, DECEMBER 1, 1973, THROUGH MARCH 15, 1974.	15-9	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
QUARTERLY REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT, FY 1974.	17-57	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JANUARY 1 THROUGH MARCH 31, 1974.	17-58	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970, PART 2.	30-52
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59		
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60		
QUARTERLY REPORT, TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM, APRIL 1 - JUNE 30, 1974.	21-39		
QUARTERLY REPORT, TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM, JANUARY 1 - MARCH 31, 1974.	21-40		
QUARTERLY REPORT, TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.	21-41		
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48		
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49		

SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53	RACKS MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.	13-12
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54	RADIAL ATV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH.	10-116
QUASI-STELLAR QUASI-STELLAR DIAMETERS AND INTENSITY FLUCTUATIONS.	3-25	HETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-1
QUASICLASSICAL MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	RADIAL PLASMA STRUCTURE OF THE SCYLLA 1-B THETA PINCH IMPLASION. FLUTE INSTABILITIES.	10-82
QUENCHED METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18	RADIATION MONTE CARLO STUDIES OF THE SKY RADIATION AT TWILIGHT.	1-19
URANIUM (0.85 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY. RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101
QUIET QUIET CORONA: TEMPERATURE AND TEMPERATURE GRADIENT.	3-26	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
MULTIHEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUIET START PLASMA.	20-87	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
Q3D LOS ALAMOS Q3D PROJECT.	22-25	EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-17
R PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
MULTIPLICITY REDUCTION THEOREM: SU(3) CONTAINS SO(3).	21-33	EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39
R MATRIX ANALYSIS OF THE DEUTERIUM PLUS R MATRIX ANALYSIS OF THE DEUTERIUM.	25-95	POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.	5-87
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41	RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42	RADIATION CHARACTERISTICS OF PLUTONIUM-238 DIOXIDE HEAT SOURCES.	7-12
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43	METHOD FOR ESTABLISHING EFFECTIVE NEUTRON ENERGY AND FLUENCE IN MIXED RADIATION FIELDS.	17-27
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44	OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM - ALUMINUM - GARNET LASER RADIATION.	17-42
QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45	EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51	PROPAGATION OF LASER RADIATION THROUGH A LONG PLASMA COLUMN.	20-114
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52	NEUTRON FLUX DISTRIBUTION CALCULATIONS FOR THE LAMPF RADIATION EFFECTS FACILITY.	22-31
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53	NEUTRON FLUX SPECTRA AT LAMPF FOR CTR RADIATION DAMAGE STUDIES.	22-42
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54	RADIATIVE RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27
R-MATRIX MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.	25-70	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23
R MATRIX ANALYSIS OF THE DEUTERIUM PLUS R-MATRIX ANALYSIS OF THE DEUTERIUM.	25-95	POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41
R-MATRIX ANALYSIS OF PROTON - HELIUM-3 ELASTIC SCATTERING BELOW E SUB P EQUALS 19.5 MEV.	25-96	EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14
R-MATRIX ANALYSIS OF THE N + BORON-10 SYSTEM AT LOW ENERGIES.	25-97	K(++) TO PI(++) GAMMA - GAMMA DECAY IN A CURRENT CURRENT QUARK MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS.	22-23
R-MATRIX ANALYSIS OF THE OXYGEN-17 SYSTEM: VERSION IV OF ENDF/B.	25-98	GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49
R-059 PROGRESS REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	ANGULAR DISTRIBUTIONS IN THE RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-7
QUARTERLY REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-059, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	RADIATIVE CAPTURE OF FAST NEUTRONS BY CALCIUM-40.	25-99
RA-1A RA-1A PROCESS RESEARCH.	7-11		

RADICALS DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	RADII FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AURORAL ELECTRON FLUX BEYOND 1 EARTH RADIUS.	1-9
RADII PLASMA AND ENERGETIC PARTICLES IN THE MAGNETOTAIL AT 60 EARTH RADII.	1-26	RADON ENERGY DEPENDENCE OF GAMMA(N)/GAMMA(F) FOR THE NUCLEUS RADON-216.	16-5
PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	RAMAN SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
RADIO HYDROGEN CYANIDE RADIO EMISSION FROM COMET KOHOUEK (1973F).	3-12	SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE.	20-226
TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE.	3-36	RANDOM EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20
RADIOACTIVE FLAMELESS ATOMIC ABSORPTION APPARATUS FOR ANALYZING ALPHA RADIOACTIVE MATERIALS.	2-9	SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS.	21-54
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM-239 DIOXIDE AND PLUTONIUM-239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER.	26-17
NUCLEAR EXPLOSION 16 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-30	ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2
SHIELDED SHIPPING CONTAINER FOR FISSILE MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL. SUPPLEMENT.	17-49	RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11
RADIOACTIVITY COMPARATIVE ANALYSIS OF DEUTERIUM-TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6	EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS.	27-2
SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM-94 CROSS SECTION UNCERTAINTY.	10-91	RANGE EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE.	4-16
LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-62	SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM/ITIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	LONG RANGE CONSIDERATIONS AND POSSIBILITIES OF A HYDROGEN ECONOMY.	12-4
RADIOBIOLOGICAL RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97	RAPID APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6
RADIOBIOLOGY PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.	5-92	RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE.	27-12
RADIOCHEMICAL RADIOCHEMICAL MEASUREMENTS ON KIWI-B1H.	30-46	RAPIDLY AMPLIFICATION CHARACTERISTICS OF A HIGH GAIN, RAPIDLY PUMPED LASER OSCILLATOR AMPLIFIER. IMPLICATIONS FOR E-BEAM EXCITED HYDROGEN - FLUORINE CHEMICAL LASERS.	20-8
RADIOCHEMICAL MEASUREMENTS ON KIWI-B4A.	30-47	METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	23-18
RADIOGRAPHIC USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17	RARE DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5
RADIOISOTOPE RADIOISOTOPE PROGRAM AT LAMPF.	5-98	ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11
SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70	ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11
RADIOISOTOPIC RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM-238 DIOXIDE RADIOISOTOPIC FUELS. 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26
FABRICATION PARAMETERS THAT AFFECT OPERATIONAL PROPERTIES OF PLUTONIUM-238 DIOXIDE RADIOISOTOPIC FUELS.	23-8	RATE ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1
RADIONUCLIDES STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72	COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-24
RADIOTHERAPY CAMAC AND RADIOTHERAPY.	5-13	DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35
COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS.	5-21	REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART 1. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13
NEGATIVE PIONS IN RADIOTHERAPY: A BRIEF REVIEW.	5-76	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $O + H_2O \rightarrow OH + H$.	6-17
POSSIBLE APPLICATIONS OF FLOW MICROFLUOROMETRY INSTRUMENTATION IN RADIATION BIOLOGY RELATED TO RADIOTHERAPY.	5-87	UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19
PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY.	5-92		

INFLUENCE OF INTENSE AC ELECTRIC FIELDS ON THE ELECTRON-ION COLLISION RATE IN A PLASMA.	10-48	DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	3-7
HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS.	23-12	ELEMENT CONCENTRATIONS FROM LUNAR ORBITAL GAMMA RAY MEASUREMENTS.	3-8
KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.	30-19	EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9
KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENTS.	30-20	MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.	4-43
NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.	30-25	COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6
RATES		COMPARATIVE IMMEDIATE AND LONG TERM EFFECTS OF GAMMA RAY DOSE PROTRACTION BY FRACTIONATION AND CONTINUOUS LOW DOSE RATE EXPOSURE IN DOGS AND MONKEYS.	5-25
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62	ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42
MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE: EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW-Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION.	9-13
COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 4. F + HF(V) TO HF(V) + F AND F + DF(V) TO DF(V) + F.	6-3	X RAY STUDY OF HELIUM-4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	9-20
TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111	SOFT X RAY SOURCE.	13-19
SOLVENT EVAPORATION RATES.	17-71	RAY TRACE ACOUSTICS IN UNSTEADY FLOW.	18-22
ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39	ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM.	19-10
URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY. RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98
ELECTROMAGNETIC TRANSITION RATES IN POLONIUM-215.	25-43	OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS.	20-99
RATIO		COMPARISON OF MUONIC-ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD.	22-9
SOLAR WIND HELIUM-2+ TO HYDROGEN-1+ TEMPERATURE RATIO.	1-33	FOURTEEN MEV. NEUTRON INDUCED GAMMA RAY PRODUCTION CROSS SECTIONS.	25-48
BRANCHING RATIO FOR THE DECAY OF IODINE-135 TO THE ISOMERS OF XENON-135.	25-18	GAMMA RAY ANGULAR DISTRIBUTIONS FROM RADIATIVE CAPTURE OF 14 MEV NEUTRONS.	25-49
RATIONAL		GAMMA RAY SPECTROSCOPY OF SILICON-28 VIA THE ALUMINUM-27 (PROTON,GAMMA) SILICON-28 REACTION.	25-50
RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES.	27-13	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON,NEUTRON) HELIUM-4 REACTION.	25-67
RATIOS		GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE.	26-11
MASS SPECTROMETRIC DETERMINATION OF OXYGEN-18/OXYGEN-16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	PHOTON SELF ABSORPTION EFFECTS: A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	26-24
EXTINCTION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTRO-OPTICAL MODULATORS.	20-43	KIWI-A PRIME GAMMA RAY DOSE RATE MEASUREMENTS.	30-19
RAW		KIWI-A THREE GAMMA RAY DOSE RATE MEASUREMENT.	30-20
DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973.	30-10	RAYLEIGH-TAYLOR	
RAY		INITIAL VALUE PROBLEMS OF THE RAYLEIGH-TAYLOR INSTABILITY TYPE.	18-10
LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16	RAYS	
PORTABLE FLASH X RAY SYSTEMS: TECHNIQUES AND APPLICATIONS.	2-13	USE OF MU-MESIC X RAYS AS A MEDICAL TOOL.	5-115
X RAY SPECTROGRAPHIC DETERMINATION OF IRIIDIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18	IN VIVO TISSUE ANALYSIS USING MU-MESIC X RAYS.	5-54
NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	3-16	LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62
OBSERVATIONS OF COSMIC GAMMA RAY BURSTS. 1.	3-19	PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94
PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-22	RBE AND OER VARIATIONS OF MIXTURES OF PLATONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T 1).	5-99
REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29	EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS.	23-13
REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29	SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM-169 AND LUTETIUM-175 GAMMA RAYS.	25-105
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30	CROSS SECTIONS OF URANIUM-235 AND PLATONIUM-209 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31		
TRANSIENT COSMIC GAMMA AND X RAY SOURCES. 1973. CONFERENCE. LOS ALAMOS, NM. PROCEEDINGS.	3-35		
COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4		

DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -109, LUTETIUM -175, AND TUNGSTEN -184.	25-36	GAMMA RAY SPECTROSCOPY OF SILICON -28 VIA THE ALUMINUM -27 (PROTON,GAMMA) SILICON -28 REACTION.	25-30
MULTIPLE SCATTERING ENHANCEMENT OF X RAYS.	25-71	LEVELS OF SELENIUM -84 FROM THE SELENIUM -82 (TRITON, PROTON) SELENIUM -84 REACTION.	25-57
FISSIONABLE MATERIAL ASSAY USING MU-MESIC X RAYS.	26-9	ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON,NEUTRON) HELIUM -3 REACTION.	25-66
RBE		LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON,NEUTRON) HELIUM -3 REACTION.	25-60
RBE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-D).	5-39	MAGNESIUM -26 (TRITON,HELIUM -3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM -26.	25-61
REACTANT		MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238.	25-67
MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE: EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN -2 (TRITON,NEUTRON) HELIUM -4 REACTION.	25-67
CHEMICAL REACTION DYNAMICS. PART I. GEOMETRICAL STRUCTURE.	6-1	NEODYMIUM -143 (NEUTRON,GAMMA) REACTION.	25-72
MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE: EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	OXYGEN -16 (TRITON,HELIUM -3) NITROGEN -16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-81
MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE.	6-12	POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON,NEUTRON) HELIUM -4 REACTION AT 10 MEV.	25-85
REACTION BETWEEN PLUTONIUM AND DEUTERIUM. PART I. RATE MEASUREMENTS BY PRESSURE CHANGES.	6-13	POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN -3 (PROTON,NEUTRON) HELIUM -4 AT 5.97 AND 9.9 MEV.	25-86
THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-16	POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON,NEUTRON) HELIUM -3 REACTION.	25-89
UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19	REACTIONS	
CHEMICAL REACTION NETWORKS.	6-2	NUCLEAR REACTIONS INDUCED IN THE MOON BY COSMIC RAY PARTICLES.	4-16
COMMENT ON: MONTE CARLO CALCULATIONS OF REACTION RATES AND ENERGY DISTRIBUTIONS AMONG REACTION PRODUCTS. 1. F + HFV(1) TO HFV(1) + F AND F + DFV(1) TO DFV(1) + F.	6-3	REACTIONS BETWEEN ISOTOPICALLY LABELED NITROGEN MOLECULAR IONS AND NITROGEN MOLECULES FOR PRIMARY ION ENERGIES BELOW 45 EV.	4-13
COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (T* + METHANE) AND (T* + DEUTEROMETHANE) SYSTEMS.	6-4	THEORY OF PRECIPITATION AND AGGLOMERATION REACTIONS IN IMMUNOLOGICAL SYSTEMS.	5-112
ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES.	6-6	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS.	6-10
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION.	20-81	CALCULATION OF EQUILIBRIUM COMPOSITIONS IN EXCHANGE REACTIONS.	7-2
EXACT SOLUTION TO PURE BINARY REACTION PROBLEMS.	21-21	FISSION OF DOUBLY EVEN ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-12
(TRITON,PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1	FISSION OF ODD A AND DOUBLY ODD ACTINIDE NUCLEI INDUCED BY DIRECT REACTIONS.	16-13
STRONTIUM -87 (TRITON,PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108	MEASUREMENTS OF GAMMA(F)/GAMMA(N) USING (HELIUM -3,DEUTERON FISSION) AND (HELIUM -3,TRITON - FISSION) REACTIONS.	16-21
STRUCTURE OF KRYPTON -88 DERIVED FROM THE KRYPTON -86(TRITON,PROTON) KRYPTON -88 REACTION.	25-109	NEUTRON INDUCED FISSION CROSS SECTIONS FROM CHARGED PARTICLE REACTIONS.	16-24
STUDY OF NEON -22 WITH THE NEON -20 (TRITON,PROTON) REACTION.	25-110	LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION.	20-71
STUDY OF THE MAGNESIUM -24 (HELIUM -3, TRITON) ALUMINUM -24 REACTION AT E(HELIUM -3) = 38.2 MEV.	25-111	CROSS SECTIONS FOR (PI+,PROTON) REACTIONS ON LITHIUM -6, BERYLLIUM -9, CARBON -12, AND OXYGEN -16.	22-10
STUDY OF THE NEON -20 (TRITON,ALPHA) FLUORINE -19 REACTION AT 20 MEV.	25-112	IMPULSE CALCULATION FOR (POSITIVE PION, 2 PROTON) REACTIONS.	22-21
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH E(D) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH E(p) FROM 6 TO 16 MEV.	25-2	PION CHARGE EXCHANGE REACTIONS WITH NUCLEI.	22-39
ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR NEUTRON PRODUCTION BY THE HYDROGEN -2 (DEUTERON,NEUTRON) HELIUM -3 REACTION WITH E(D) FROM 6 TO 17 MEV AND BY THE HYDROGEN -3 (PROTON,NEUTRON) HELIUM -3 REACTION WITH E(p) FROM 6 TO 16 MEV.	25-2	PION EXCHANGE MECHANISM FOR (PION-PLUS, 2PROTON) REACTIONS.	22-41
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM -3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23	CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM.	25-24
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF 14.5 AND 14.9 MEV.	25-31	FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM -4 AND HELIUM -4 (DEUTERON,PROTON) HELIUM -4 REACTIONS.	25-47
ELEMENTARY MODES OF EXCITATION IN THE LEAD -204 (TRITON,PROTON) LEAD -206 REACTION.	25-44	KRYPTON -84 (TRITON,PROTON) KRYPTON -86 AND KRYPTON -86 (TRITON,PROTON) KRYPTON -88 REACTIONS.	25-55
		MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS.	25-70

REACTOR DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES.	21-52
SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101	NEW ETCH FOR LIQUID METAL FAST BREEDER REACTOR MATERIALS.	23-21
TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-103	DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3
THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE.	10-106	ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1
TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111	NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVE.	26-17
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL, 1973).	10-114	QUARTERLY REPORT, EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974.	28-1
DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13	QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13
ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR.	10-17	QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-19	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967, PART 2.	28-14
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967, PART 2.	28-15
ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-22	REACTOR POWER PLANT FOR UNDERSEA APPLICATIONS.	28-16
ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	10-25	REACTIVITY CONSIDERATIONS IN LMFR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS.	28-17
EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27	STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III.	28-19
FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH.	10-35	ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LAST WATER BOILER REACTOR.	28-2
FUSION REACTOR NUCLEAR ANALYSIS METHODS AND APPLICATIONS.	10-36	URANIUM DIOXIDE EQUATION OF STATE FOR LMFR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	28-21
HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39	INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6
BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4	OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES.	28-8
MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTT).	10-53	PRELIMINARY STUDY OF PLASMA NUCLEAR REACTOR FEASIBILITY.	28-9
COMPARATIVE ANALYSIS OF DEUTERIUM - TRITIUM FUSION REACTOR RADIOACTIVITY AND AFTERHEAT.	10-6	REACTORS	
PARAMETER STUDY OF A PULSED HIGH BETA FUSION REACTOR.	10-65	FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.	10-32
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.	10-66	FUSION REACTORS AS FUTURE ENERGY RESOURCES.	10-37
CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT.	10-7	FUSION REACTORS AS FUTURE ENERGY SOURCES.	10-38
SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85	MATERIALS PROBLEMS IN MAGNETICALLY CONFINED PULSED FUSION REACTORS.	10-57
SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM - 94 CROSS SECTION UNCERTAINTY.	10-91	PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS.	10-69
SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE.	10-92	PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS.	10-70
SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS.	13-17	POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS.	10-71
POWER REACTOR EXCURSION STUDIES.	17-44	PULSE UNFOCUSING WITHIN LASER FUSION REACTORS.	20-115
LASER - FUSION - REACTOR INDUCED RADIOACTIVITY AND AFTERHEAT.	20-62	SOME NEUTRONICS ASPECTS OF LASER FUSION REACTORS.	20-122
LASER CONTROLLED THERMONUCLEAR REACTOR DESIGN PROBLEMS.	20-66	ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS.	20-40
LASER CONTROLLED THERMONUCLEAR REACTOR MATERIALS REQUIREMENTS.	20-67	URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-48
LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES.	20-68	HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	28-5
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION.	20-73	EXIT GAS THERMOCOUPLE RESPONSE IN KIWI REACTORS.	30-12
		NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS.	30-25
		READOUT	
		LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
		DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-4
		DELAY LINE READOUT OF ANODE PLANES IN PROPORTIONAL CHAMBERS.	19-5

REAL		REFERENCE	
PROGRESS REPORT: CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JANUARY-JUNE 1974.	17-49	SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101
PROGRESS REPORT: CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY, JULY-DECEMBER 1973	17-50	TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-103
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY	17-5	TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY: PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE, 1974	17-9	UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114
SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS	21-54	DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13
REALISTIC		ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-19
DENSE BARYON MATTER CALCULATIONS WITH REALISTIC POTENTIALS	25-34	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION	10-20
RECEPTOR		ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR)	10-22
FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS	5-47	ERGONOMIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE	10-25
RECEPTORS		EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27
ANTIGEN BINDING TO RECEPTORS ON IMMUNOCOMPETENT CELLS. 1. SIMPLE MODELS AND INTERPRETATION OF EXPERIMENTS	7-5	HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER	10-29
RECOVERY		SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM-94 CROSS SECTION UNCERTAINTY	10-91
RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION.	5-101	DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR)	24-1
ON CTR BREAKDOWN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES	10-4	REFINEMENTS	
LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER	26-76	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1'-AZOBISCARBAMIDE	9-4
BUILDING D PLUTONIUM RECOVERY PROCESS	23-2	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6-TRIAMINO-S-TRIAZINE	9-5
RECRITICALITY		REFLECTORS	
ENERGY RELEASE FROM MOLTEN FUEL RECRITICALITY ACCIDENTS	17-18	DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES	20-26
RECRITICALITY CONSIDERATIONS IN LMFBR (LIQUID METAL FUELED BREEDER REACTOR) ACCIDENTS	28-17	REFRACTORY	
RECTANGULAR		HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS	23-12
DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRRREGULAR REGIONS	21-14	REGION	
RED		TEMPORAL OBSERVATIONS OF THE LAMBDA 3005 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 20 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	1-32
EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS	5-46	REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS	21-42
REDETERMINATION		REGIONS	
REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE	24-28	DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRRREGULAR REGIONS	21-14
REDISTRIBUTION		DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRRREGULAR REGIONS	21-14
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES	17-28	REGRESSION	
REDUCED		DISTRIBUTION OF AN ARBITRARY STANDARDIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION	21-48
STABILITY OF THE ZF-1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS	10-97	REGULATORY	
EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS	29-41	RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH DECEMBER 31, 1973	17-63
REDUCING		REICH-MOORE	
CHAMBER STUDIES OF VISIBILITY REDUCING AEROSOLS	17-6	MULTI A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM	21-32
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-120	REID	
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-121	TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL	25-119
REDUCTION		TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL	25-120
REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES	20-116	REJECTION	
SPECKLE REDUCTION IN PULSED LASER PHOTOGRAPHS	20-124	POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT	19-20
MULTIPLICITY REDUCTION THEOREM. STUBB CONTAINS REID.	21-33	POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT. ERRATUM	19-21
FORTRAN IV PROGRAM FOR QUANTIMET 720 IMAGE ANALYSES DATA REDUCTION	23-10		
REDUCTIVE			
REDUCTIVE FLUORIDE ELIMINATION SYNTHESIS OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE	7-43		
REENTRY			
DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973	30-10		

RELATION	OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK	17-33	REPLY	REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT	6-14
	RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES	21-43	REPORT	ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974	2-1
RELATIONSHIPS	AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS	5-8	OBSERVATORY REPORT		3-20
RELATIVE	RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS 1. HYPERBOLIC PROBLEMS AND SPLINES.	21-44	SEMIANNUAL REPORT SEROLOGIC TEST SYSTEMS DEVELOPMENT, JULY THROUGH DECEMBER 1973		5-104
	REDETERMINATION OF THE RELATIVE COMPRESSIONS OF THE CELL EDGES OF OLIVINE.	23-28	ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973.		5-3
RELATIVELY	UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES	5-114	ANNUAL REPORT, ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING, JULY 1, 1973 THROUGH JUNE 30, 1974		5-4
RELATIVISTIC	RELATIVISTIC TERMS IN NONLINEAR PULSATION THEORY	3-28	PROBE ACTIVITIES ANNUAL REPORT, JULY 1, 1973 - JUNE 30, 1974		5-91
	PLASMA HEATING BY A RELATIVISTIC ELECTRON BEAM PROPAGATING ALONG A GUIDE MAGNETIC FIELD	20-106	PROGRESS REPORT ON ACTIVITIES AT THE LASMF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY		5-92
	LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD	20-78	PROGRESS REPORT AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1974		5-90
	LINEAR THEORY OF THE RELATIVISTIC WEBER AND TWO STREAM INSTABILITIES	20-79	QUARTERLY REPORT THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, JANUARY 1 THROUGH MARCH 31, 1974		5-10
	RELATIVISTIC SCHRÖDINGER EQUATION	21-45	STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LASFAC)		5-15
	RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	25-100	QUARTERLY REPORT THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, APRIL 1 THROUGH JUNE 30, 1974		5-9
	SEPARABILITY IN DIRECTLY INTERACTING RELATIVISTIC PARTICLE SYSTEMS	25-106	PROGRESS REPORT USAEC DIVISION OF APPLIED TECHNOLOGY, DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974		8-25
RELAXATION	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS	6-10	PROGRESS REPORT USAEC DIVISION OF APPLIED TECHNOLOGY, DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.		8-26
	SPIN RELAXATION IN OXYGEN-17 ENRICHED WATER	14-5	PROGRESS REPORT USAEC DIVISION OF APPLIED TECHNOLOGY, DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973		8-27
	POLYATOMIC MOLECULAR RELAXATION IN THE ABSENCE OF COLLISIONS	20-109	PROGRESS REPORT USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974		8-28
RELEASE	ENERGY RELEASE FROM MOLTEN FUEL REACTIVITY ACCIDENTS.	17-18	PROGRESS REPORT USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973		8-29
	PLUTONIUM-238 RELEASE IN SIMULATED NATURAL ENVIRONMENTS	17-41	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTTR): A JOINT REPORT PREPARED FOR THE U.S. ATOMIC ENERGY COMMISSION.		10-20
	HELIUM RELEASE AND MICROSTRUCTURAL CHANGES IN PLUTONIUM-238 DIOXIDE	23-11	ENGINEERING PROBLEMS OF FUSION RESEARCH: REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973		10-21
RELEASES	PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES	1-25	PROGRESS REPORT LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973		10-79
RELEVANCE	RELEVANCE OF SOME RECENT NEUTRON PROTON POLARIZATION DATA TO T VIOLATION AT INTERMEDIATE ENERGIES	22-52	RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES: PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974		12-6
REMARKS	CHAIRMAN'S CLOSING REMARKS, SESSION V, THE CELL SURFACE	5-18	PLATONIA AERODYNAMIC DISK (PAD), SUMMARY REPORT.		14-15
	CHAIRMAN'S REMARKS, SESSION V, THE CELL SURFACE.	5-19	QUARTERLY REPORT JOINT SERVICES EXPLOSIVES PROGRAM, MARCH 16 THROUGH JUNE 30, 1974		15-10
REMMETER	DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.	17-13	QUARTERLY REPORT JOINT SERVICES EXPLOSIVES PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973		15-8
REMNANT	PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD	3-24	QUARTERLY REPORT JOINT SERVICES EXPLOSIVES PROGRAM, DECEMBER 1, 1973 THROUGH MARCH 15, 1974		15-9
REMOTE	NUCLEAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-101	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944		17-21
	REMOTE JOB ENTRY SIMULTANEOUS WITH STAND ALONE USAGE OF A PDP 11-20.	21-46	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944		17-22
REMOVAL	COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944		17-23
	COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL.	13-3	HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944		17-24
RENORMALIZED	RENORMALIZED BRUECKNER HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI.	25-101	NUCLEAR EXPLOSION 16 JULY 1945, HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.		17-30

PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JANUARY - JUNE 1974.	17-49	ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP. LOS ALAMOS SCIENTIFIC LABORATORY. JULY 1, 1973 THROUGH JUNE 30, 1974.	25-8
PROGRESS REPORT. CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. JULY - DECEMBER 1973.	17-50	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT. JANUARY - APRIL 1974.	26-20
PROGRESS REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-058. OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT. MAY - AUGUST 1974.	26-21
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JANUARY 1 THROUGH JUNE 30, 1974.	17-52	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT. SEPTEMBER - DECEMBER 1974.	26-22
PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY. JULY 1 THROUGH DECEMBER 31, 1973.	17-53	QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	28-10
QUARTERLY REPORT. DEVELOPMENT OF AIR SAMPLING TECHNIQUES. LASL PROJECT R-059. JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND EIGHTH ANNUAL REPORT. FY 1974.	28-10
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT. FY 1974.	17-57	QUARTERLY REPORT. ADVANCED PLUTONIUM FUELS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	28-11
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT. FY 1974.	17-57	QUARTERLY REPORT. EXAMINATION OF FAST REACTOR FUELS AND FBR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS. JULY 1 THROUGH OCTOBER 31, 1974.	28-12
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JANUARY 1 THROUGH MARCH 31, 1974.	17-58	QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967. PART 2.	28-14
QUARTERLY REPORT. PHYSICS FOR SAFETY ANALYSIS PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967. PART 2.	28-15
CONTAMINATION LIMITS FOR REAL AND PERSONAL PROPERTY. PROGRESS REPORT FOR THE PERIOD JANUARY TO JUNE 1974.	17-9	SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	28-18
PROGRESS REPORT. LASER PROGRAM AT LASL. JANUARY 1 THROUGH JUNE 30, 1974.	20-111	STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM - 40 V-0.	
PROGRESS REPORT. LASER PROGRAM AT LASL. JULY 1 THROUGH DECEMBER 31, 1973.	20-112	URANIUM DIOXIDE CERMET FUEL.	28-20
PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 - JULY 1973.	20-113	AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN).	30-1
FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING. NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44	DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSETIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 (OCTOBER 1972 TO 30 SEPTEMBER 1973).	30-10
NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1974 THROUGH JANUARY 1974.	20-85	P-DIVISION PROGRESS REPORT. FEB. 20 - MAR. 20, 1969.	30-27
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.	21-39	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. APRIL - JUNE 1974.	30-32
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.	21-40	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JULY - SEPTEMBER 1973.	30-33
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	21-41	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. OCTOBER - DECEMBER 1973.	30-34
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING APRIL 30, 1974.	22-48	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JANUARY - MARCH 1974.	30-35
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JANUARY 31, 1974.	22-49	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 30, 1963.	30-36
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING JULY 31, 1974.	22-50	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 30, 1963.	30-37
QUARTERLY REPORT ON THE MEDIUM ENERGY PHYSICS PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1973.	22-51	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1969.	30-38
PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES. FEBRUARY 1 - JULY 31, 1974.	23-26	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1969.	30-39
PROGRESS REPORT. RESEARCH ON CARBON - ALUMINUM COMPOSITES. SEPTEMBER 1, 1973 - JANUARY 31, 1974.	23-27	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. APRIL 1 THROUGH JUNE 30, 1974.	25-11	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JANUARY 1 THROUGH MARCH 31, 1974.	25-12	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT. JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT. QUARTERLY PROGRESS REPORT. OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
LASL STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE.	25-56		

SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, APRIL - JUNE 1974.	30-42
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JULY - SEPTEMBER 1973.	30-43
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, OCTOBER - DECEMBER 1973.	30-44
SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54	QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JANUARY - MARCH 1974.	30-45
REPORTED		RESERVOIRS	
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL, 1973)	10-114	ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT VOLCANIC ROCK.	11-1
REPRESENTATION		RESIDUAL	
ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS	25-5	RECOVERY AND RESIDUAL INJURY IN MONKEYS EXPOSED TO LARGE DOSES OF RADIATION BY FRACTIONATION	5-101
REPRESENTATIVE		DISTRIBUTION OF AN ARBITRARY STANDARDIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION	21-18
SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES	17-48	RESISTANCE	
RESEARCH		DAMAGE RESISTANCE OF DIELECTRIC REFLECTORS FOR PICOSECOND LASER PULSES.	20-20
ANNUAL REPORT OF THE BIOMEDICAL AND ENVIRONMENTAL RESEARCH PROGRAM OF THE LASL HEALTH DIVISION, JANUARY THROUGH DECEMBER 1973	5-1	RESOLUTION	
PROGRESS REPORT ON ACTIVITIES AT THE LAMPF RADIOBIOLOGY AND RADIOTHERAPY RESEARCH FACILITY	5-92	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	5-99
RA-LA PROCESS RESEARCH.	7-11	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	6-11
ENGINEERING PROBLEMS OF FUSION RESEARCH. REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N. J., 5-9 NOVEMBER 1973	10-21	RESOLVED	
PROGRESS REPORT. LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973	10-79	SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-123
REVIEW OF SFX/FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84	RESONANCE	
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974	12-6	CARBON-13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JANUARY 1 THROUGH JUNE 30, 1974.	17-1	CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON-13	14-2
AEROSOL RESEARCH AND DEVELOPMENT RELATED TO HEALTH HAZARD ANALYSIS, JULY 1 THROUGH DECEMBER 31, 1973.	17-2	E2 NUCLEAR RESONANCE EFFECT IN PIONIC ATOMS	22-11
AEROSOL RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-3	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON -28	25-79
SAFETY MANUAL, I. DIVISION, LASER RESEARCH AND TECHNOLOGY. SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2).	17-46	OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON -28	25-80
SURVEY OF LASER INITIATED FUSION RESEARCH.	20-132	RESONANCES	
HIGH POWER NEODYMIUM LASER SYSTEM FOR FUSION RESEARCH.	20-53	DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SUBTHRESHOLD FISSION.	10-4
PROGRESS REPORT. RESEARCH ON CARBON-ALUMINUM COMPOSITES, FEBRUARY 1 - JULY 31, 1974.	23-26	RESONANT	
PROGRESS REPORT. RESEARCH ON CARBON-ALUMINUM COMPOSITES, SEPTEMBER 1, 1973-JANUARY 31, 1974.	23-27	POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, APRIL 1 THROUGH JUNE 30, 1973	25-11	ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WITH PROFILE MODIFICATION.	20-14
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JANUARY 1 THROUGH MARCH 31, 1974.	25-12	RESONATORS	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT QUARTERLY PROGRESS REPORT, JULY 1 THROUGH SEPTEMBER 30, 1974.	25-13	MEASUREMENTS ON HALF WAVELENGTH HELIX RESONATORS	19-15
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT FOR THE PERIOD JULY 1 THROUGH SEPTEMBER 30, 1973.	25-14	RESOURCES	
APPLIED NUCLEAR DATA RESEARCH AND DEVELOPMENT, QUARTERLY PROGRESS REPORT, OCTOBER 1 THROUGH DECEMBER 31, 1973.	25-15	FUSION REACTORS AS FUTURE ENERGY RESOURCES.	10-37
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT, PROGRAM STATUS REPORT, JANUARY - APRIL 1974.	26-20	POTENTIAL FOR THE PRODUCTION OF POWER FROM GEOTHERMAL RESOURCES	11-23
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT, PROGRAM STATUS REPORT, MAY - AUGUST 1974.	26-21	REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-45
NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1973.	26-22	RESPIRATOR	
PUBLICATIONS OF LASL RESEARCH 1972.	30-30	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JANUARY 1 THROUGH JUNE 30, 1974.	17-52
PUBLICATIONS OF LASL RESEARCH, 1973.	30-31	PROGRESS REPORT. RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JULY 1 THROUGH DECEMBER 31, 1973.	17-53
		RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62
		RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH DECEMBER 31, 1973.	17-63
		SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-48
		RESPIRATORY	
		RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1972, THROUGH JUNE 3, 1973.	17-64

RESPONSE		REVIEW OF EVALUATED CROSS SECTION DATA FOR AIR AND GROUND CONSTITUENTS.	25-102
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES.			
3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	BOOK REVIEW: THE CURVE OF BINDING ENERGY. BY J. MCPHEE. AND NUCLEAR THEFT RISKS AND SAFEGUARDS. BY M. WILLRICH AND T. B TAYLOR.	26-3
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1.	5-82	BOOK REVIEW: THE CURVE OF BINDING ENERGY. BY J. MCPHEE. AND NUCLEAR THEFT RISKS AND SAFEGUARDS. BY M. WILLRICH AND T. B TAYLOR.	26-4
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2.	5-83	REVOLUTION	
PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84	SURFACES OF REVOLUTION WITH VARIOUS NORMAL INTERSECTION PROPERTIES.	21-57
SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28	RF	
DIRECTIONAL RESPONSE AND ENERGY DEPENDENCE OF FOUR NEUTRON REMMETER INSTRUMENTS.	17-14	NUMERICAL SIMULATION OF RF CONFINEMENT.	20-94
TIME RESPONSE OF PLASTIC SCINTILLATORS.	19-22	RHODIUM	
MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA - TITANIA COMPOSITION.	23-16	4P64D - 4P64D5S TRANSITIONS IN RUTHENIUM, RHODIUM, AND PALLADIUM.	4-1
URANIUM (6.89 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACVANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY.	27-18	RIBONUCLEIC	
ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT	27-3	INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DNA IN DIATIN BY ULTRAVIOLET LIGHT	5-55
EXIT GAS THERMOCOUPLE RESPONSE IN KIWI REACTORS.	30-12	ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINO BUTYRATE MOIETIES DERIVED FROM METHIONINE	5-59
RESTRICTIVE		RICH	
HELIUM FILM FLOW DISSIPATION WITH A RESTRICTIVE GEOMETRY.	8-15	CALCULATION OF FISSION BARRIERS FOR HEAVY NEUTRON RICH NUCLEI	16-1
RETENTION		RING	
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION. GAMMA -NEPTUNIUM (GALLIUM).	29-2	LIE ALGEBRA SO(3) AND THE DUFFIN-KEMMER-PETIAU RING.	27-7
REVERSAL		RIO	
COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3	PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29
SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM -169 AND LUTETIUM -175 GAMMA RAYS.	25-105	RISETIME	
TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY.	25-117	FLUORESCENCE RISETIME OF NE 102 SCINTILLATOR.	20-45
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	RISK	
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180.	25-9	CONTINGENCIES AND RISK CONTROL. PANEL DISCUSSION.	17-10
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK.	17-43
TIME REVERSAL INVARIANT PROJECTION OPERATORS FOR LATTICE DYNAMICS.	29-4	PRINCIPLES OF SAFETY. SAFETY IN GENERAL, CRITICALITY RISK IN PERSPECTIVE.	17-46
REVERSIBLE		RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61
REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS.	10-83	RISKS	
REVIEW		BOOK REVIEW: THE CURVE OF BINDING ENERGY. BY J. MCPHEE. AND NUCLEAR THEFT RISKS AND SAFEGUARDS. BY M. WILLRICH AND T. B TAYLOR.	26-3
REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS.	3-29	BOOK REVIEW: THE CURVE OF BINDING ENERGY. BY J. MCPHEE. AND NUCLEAR THEFT RISKS AND SAFEGUARDS. BY M. WILLRICH AND T. B TAYLOR.	26-4
COSMIC GAMMA RAY BURSTS: A REVIEW OF THE OBSERVATIONAL DATA.	3-4	RIVER	
NEGATIVE PIONS IN RADIOTHERAPY: A BRIEF REVIEW.	5-76	PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE JEMEZ RIVER AND RIO GUADALUPE.	30-29
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114	RNA	
REVIEW OF SFX/FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL.	10-84	SUB-RIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS. RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS.	5-109
GEO THERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRANEAN DEVICES: A STATUS REVIEW.	11-13	SYNTHESIS OF HETEROGENEOUS NUCLEAR, INFORMOSOMAL MESSENGER-LIKE, AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS.	5-110
REVIEW OF THE NATURAL RESOURCES DEFENSE COUNCIL PETITION CONCERNING LIMITS FOR INSOLUBLE ALPHA EMITTERS.	17-45	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-38
BOOK REVIEW: BIOMETRIKA TABLES FOR STATISTICIANS. VOL.2. BY E. S. PEARSON AND H. O. HARTLEY.	21-4	INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DIATIN BY ULTRAVIOLET LIGHT.	5-55
BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS. BY I. N. GIBBA.	21-5	INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56
		INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS.	5-57
		ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINO BUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-59

RNA'S EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNA'S OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS.	5-36	HOVER ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2
ROCK GEOTHERMAL ENERGY: A NEW APPLICATION OF ROCK MECHANICS	11-11	APPLICATION OF TECHNOLOGY FROM THE ROVER PROGRAM AND RELATED DEVELOPMENTS.	30-2
LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM.	11-19	TREATMENT OF NIOBIUM PENTACHLORIDE ROVER PROJECT WASTE.	30-58
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	ROW ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES.	11-22	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
PROCEEDINGS OF THE NATO CCMS INFORMATION MEETING ON DRY HOT ROCK GEOTHERMAL ENERGY. SEPTEMBER 17-19, 1974, LOS ALAMOS, NEW MEXICO.	11-24	RTG SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70
RESULTS FROM HYDRAULIC FRACTURING EXPERIMENTS IN DEEP CRYSTALLINE ROCK.	11-25	RTPR SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-59
ROCK MELTING APPLIED TO EXCAVATION TUNNELING.	11-26	TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-133
ROCK MELTING SUBTERRENESES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-111
ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT VOLCANIC ROCK.	11-3	UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114
SUBTERRENE ROCK MELTING EXCAVATION PROGRAM.	11-32	DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS.	10-13
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS.	11-33	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-19
DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRENE FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-35	ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20
ROCKET NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21	ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR).	10-22
NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY. PART 2. NUCLEAR ROCKET PROPULSION.	30-24	ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE.	10-25
APPLICATIONS OF LOW POWER NUCLEAR ROCKET ENGINES	30-3	EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR).	10-27
SINGLE STAGE NUCLEAR ROCKET STUDY.	30-49	HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39
ROCKS SELECTED PHYSICOCHEMICAL PROPERTIES OF BASALTIC ROCKS, LIQUIDS, AND GLASSES.	11-29	SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY	10-91
EQUILIBRIUM TEMPERATURE MEASUREMENTS IN CRYSTALLINE ROCKS.	11-7	DISCRETE ORDINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR).	24-3
ROD ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1	RUBIDIUM INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17
ERROR ANALYSIS OF A CALIFORNIUM -252 FUEL ROD ASSAY SYSTEM.	26-7	RULES MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS. COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-14
ROLE ROLE FOR ELECTRONICS IN ANIMAL HEALTH AND PRODUCTION.	5-102	RUNOFF STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72
ROCK MELTING SUBTERRENESES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	RUTHENIUM 4P64D - 4P54D5S TRANSITIONS IN RUTHENIUM, RHODIUM, AND PALLADIUM.	4-1
ROOF RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.	12-6	S-6 SAFETY TEST NO.S-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67
ROOM STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55	SAFEGUARDS NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19
ROTATING NUMERICAL STUDY OF THE ROTATING THETA PINCH.	10-62	PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-26
ROTATION MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	PORTAL MONITOR FOR DIVERSION SAFEGUARDS.	26-27
TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18	BOOK REVIEW: THE CURVE OF BINDING ENERGY. BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS. BY M. WILLEICH AND T. B. TAYLOR.	26-4
ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24	CHEMICAL ASSAY OF PLUTONIUM FOR SAFEGUARDS.	26-5
ROUTINE HIT: A MONTE CARLO TARGET COVERAGE ROUTINE.	21-27		

SAFETY		SANDY	
DUO SAFETY.	15-1	INVESTIGATIONS OF UNDERGROUND EXPLOSIONS IN NEVADA SANDY SOILS.	30-16
CRYOGENICS SAFETY IN A HYDROGEN FUEL SOCIETY	17-11	SATELLITE	
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JULY 1944.	17-21	NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, JUNE 1944.	17-22	CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.	1-6
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MARCH 1944.	17-23	FUTURE SATELLITE EXPERIMENTS FOR GAMMA BURST OBSERVATIONS.	3-11
HEALTH SAFETY REPORT, CHEMICAL AND METALLURGICAL DIVISION, MAY 1944.	17-24	FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13
NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31	SATELLITES	
OSHA (OCCUPATIONAL HEALTH AND SAFETY ACT) AND ITS RELATION TO RISK	17-33	OBSERVATIONS OF THE MAGNETOTAIL SURFACE LAYER WITH THE VELA SATELLITES.	1-23
PRINCIPLES OF SAFETY, SAFETY IN GENERAL, CRITICALITY RISK IN PERSPECTIVE.	17-46	PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-23
PRINCIPLES OF SAFETY, SAFETY IN GENERAL, CRITICALITY RISK IN PERSPECTIVE.	17-46	SATURATED	
PROGRESS REPORT, RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JANUARY 1 THROUGH JUNE 30, 1974.	17-52	DISSIPATION IN THE FLOWING SATURATED SUPERFLUID FILM.	8-10
PROGRESS REPORT, RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JULY 1 THROUGH DECEMBER 31, 1973.	17-53	DIRECT MEASUREMENT OF THE DISSIPATION FUNCTION OF THE FLOWING SATURATED HELIUM II FILM.	8-9
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, APRIL 1 THROUGH JUNE 30, 1974 AND ANNUAL REPORT, FY 1974.	17-57	SATURATION	
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JANUARY 1 THROUGH MARCH 31, 1974.	17-58	GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-46
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-59	SCALE	
QUARTERLY REPORT, PHYSICS FOR SAFETY ANALYSIS PROGRAM, OCTOBER 1 THROUGH DECEMBER 31, 1973.	17-60	TITUS-BODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM.	3-44
RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62	SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS.	21-30
RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1972 THROUGH JUNE 3, 1973.	17-64	SCALING	
SAFETY MANUAL, I. DIVISION, LASER RESEARCH AND TECHNOLOGY, SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F ₂).	17-66	SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85
SAFETY TEST NO. 8-6 LAUNCH PAD ABORT SEQUENTIAL TEST, PHASE I: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT	17-67	SCAN	
QUARTERLY REPORT, TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13	PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23
INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) SAFETY STUDIES.	28-6	FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8
SALT		SCANNING	
ON DIVALENT AMERICIUM IN MOLTEN SALT/ MOLTEN PLUTONIUM SYSTEMS.	7-7	ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM.	19-10
SAMPLER		ANALYSIS OF PELLET - TO - PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS.	26-1
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-57F AIRCRAFT.	19-8	SCATTERING	
SECOND MONTE CARLO SAMPLER.	21-48	MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 3.312 TO 10.532 KEV.	4-33
SAMPLES		SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DICESIUM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIIDIUM.	4-45
PRESERVATION AND STORAGE OF URINE SAMPLES FOR THE DETERMINATION OF MERCURY.	17-45	SPACE FIXED VS BODY FIXED AXES IN ATOM-DIATOMIC MOLECULE SCATTERING, SUDDEN APPROXIMATIONS.	4-46
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES.	17-76	COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS. 3. FIVE ELECTRON ATOMS.	4-6
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-19	DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-39
SAMPLING		EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-46
PROGRESS REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-659, OCTOBER 1, 1973, THROUGH MARCH 31, 1974.	17-51	LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.	5-63
QUARTERLY REPORT, DEVELOPMENT OF AIR SAMPLING TECHNIQUES, LASL PROJECT R-659, JULY 1 THROUGH SEPTEMBER 30, 1973.	17-56	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1' - AZOBISCARBAMIDE.	9-4
RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-61	CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6- TRIAMINO-S-TRIAZINE.	9-5
		THOMSON SCATTERING ON SCYLLAC.	10-107
		ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION.	20-10
		MESON - NUCLEUS SCATTERING AT MEDIUM ENERGIES.	22-27
		SPLIT SCATTERING IN THE EPICS BEAM LINE.	22-54
		SPIN AND ISOSPIN EFFECTS IN PI - HELIUM-4 SCATTERING.	22-55

THEORY OF PION SCATTERING BY NUCLEI II.	22-57	SCIENCE	
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	22-58	MARINER 10 PLASMA SCIENCE EXPERIMENT RESULTS	1-18
SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-103	OBSERVATIONS AT MERCURY ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10	1-17
SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON-NUCLEON SCATTERING.	25-104	OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10	1-18
TEST FOR T VIOLATION IN NUCLEON-NUCLEON SCATTERING	25-111	SCIENTIFIC	
TEST OF PARITY CONSERVATION IN PROTON-PROTON SCATTERING	25-115	FUSION ENGINEERING AT THE LOS ALAMOS SCIENTIFIC LABORATORY	10-14
TEST OF PARITY CONSERVATION IN PROTON-PROTON SCATTERING.	25-116	INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY	11-16
VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN-3 (DEUTERON) DEUTERON HYDROGEN-3 ELASTIC SCATTERING AT 11.4 AND 14.1 MEV.	25-123	LOS ALAMOS SCIENTIFIC LABORATORY HOT DRY ROCK GEOTHERMAL ENERGY PROGRAM	11-19
CHARGE EXCHANGE REACTIONS ON LIGHT NUCLEI IN A MULTIPLE SCATTERING FORMALISM	25-124	DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORCANDO CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY	12-15
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS	25-126	AEROSOL RESEARCH AT THE LOS ALAMOS SCIENTIFIC LABORATORY	12-1
ANALYSIS OF RESULTS OF CALCULATIONS OF FEYNMAN GRAPHS FOR NUCLEON-NUCLEON SCATTERING.	25-131	PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	12-43
ELASTIC AND INELASTIC CROSS SECTION FOR E-MERCUY SCATTERING FROM MERCURY TRANSPORT DATA	25-140	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS	12-78
ELASTIC SCATTERING OF LIGHT PARTICLES BY CARBON, OXYGEN, AND NITROGEN.	25-141	DIGITAL IMAGE PROCESSING AT LOS ALAMOS SCIENTIFIC LABORATORY	21-1
ELASTIC SCATTERING OF NEUTRONS FROM HELIUM-3 BETWEEN 7.9 AND 20.7 MEV.	25-142	ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974	25-5
MEASUREMENT OF PARITY VIOLATION IN PROTON-PROTON SCATTERING AT 15 MEV	25-144	IMPACT OF AECM-6511 ON OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP	30-14
MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON+14 NITROGEN-14 SCATTERING NEAR 16 MEV	25-145	NONWEAPONS ACTIVITIES OF LOS ALAMOS SCIENTIFIC LABORATORY PART 2. NUCLEAR ROCKET PROPULSION	30-24
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON-HELIUM-3 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV	25-148	TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	30-49
MULTIPLE SCATTERING ENHANCEMENT OF X RAYS.	25-151	SCIENTISTS	
NEUTRON SCATTERING CROSS SECTION OF GOLD-197	25-151	BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY J. N. GIBBA.	21-5
NUCLEON-NUCLEON SCATTERING NEAR 50 MEV-1. ANALYSIS OF NEW DAVIS NP DIFFERENTIAL CROSS SECTION DATA	25-158	SCINTILLATOR	
POLARIZATION TRANSFER IN HELIUM-3 (DEUTERON) DEUTERON HELIUM-3 ELASTIC SCATTERING.	25-187	FLUORESCENCE RISE TIME OF NE-102 SCINTILLATOR.	20-45
POLARIZATION TRANSFER IN PROTON-HELIUM-3 ELASTIC SCATTERING AT 16 MEV	25-188	SCINTILLATORS	
R-MATRIX ANALYSIS OF PROTON-HELIUM-3 ELASTIC SCATTERING BELOW 19.5 MEV. SUB P EQUALS 19.5 MEV.	25-196	TIME RESPONSE OF PLASTIC SCINTILLATORS	19-22
SCF		SCRAP	
NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE-ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-37	ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM	20-2
SCHEDULE		SCRAPE	
OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM.	13-13	SCRAPE HISTOLOGY IMAGE ENHANCEMENT	5-101
SCHEDULES		SCRATCH	
MAGNETIC ENERGY TRANSFER AND STORAGE (MIETS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (PTR).	10-55	SCRATCH PAD MEMORY FOR BUFFERING MULTIWIRE PROPORTIONAL CHAMBER DATA.	21-47
SCHEMES		SCREEN	
CREATION AND COMPARISON OF FINITE DIFFERENCE ANALOGS OF SOME FINITE ELEMENT SCHEMES	21-11	PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES	13-14
TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	21-11	SCREENING	
MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION.	24-7	DISEASE SCREENING WITH ENZYME LABELED ANTIBODIES.	5-31
SOME SCHEMES FOR NUCLEAR PROPULSION.	30-50	SCREW	
SCHMIDT		APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH	10-2
REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14	SCYLLA	
SCHRODINGER		SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100
RELATIVISTIC SCHRODINGER EQUATION.	21-45	ESTIMATION OF LASER-PLASMA INTERACTIONS IN THE SCYLLA I-C THETA PINCH.	10-26
		PRELIMINARY L(1,0) FEEDBACK FORCE EXPERIMENTS ON SCYLLA IV-3	10-76
		RADIAL PLASMA STRUCTURE OF THE SCYLLA I-B THETA PINCH IMPLOSION, FLUTE INSTABILITIES.	10-82
		SCYLLAC	
		250 KG MIRROR COIL DEVELOPMENT FOR THE LINEAR SCYLLAC EXPERIMENT	10-1
		THOMSON SCATTERING ON SCYLLAC.	10-107

DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT.	10-11	SELECTIVELY CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON-13.	14-2
BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-3	SELENIUM	
HOLOGRAPHIC INTERFEROMETRY ON SCYLLAC.	10-42	LEVELS OF SELENIUM-84 FROM THE SELENIUM-82 (TRITON, PROTON) SELENIUM-84 REACTION.	25-57
(KZ) CURRENT MEASUREMENTS IN THE SCYLLAC TORUS.	10-44	LEVELS OF SELENIUM-84 FROM THE SELENIUM-82 (TRITON, PROTON) SELENIUM-84 REACTION.	25-57
PLASMA COLUMN MOTION IN THE SCYLLAC TORUS.	10-71	LEVELS OF SELENIUM-84 FROM THE SELENIUM-82 (TRITON, PROTON) SELENIUM-84 REACTION.	25-57
PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS.	10-72	SELF	
PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC THETA PINCH.	10-73	SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM-30TIN IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31
PROJECT MANAGEMENT OF SCYLLAC.	10-80	EFFECT OF SELF IRRADIATION ON THE LATTICE OF PLUTONIUM-238 (80 PER CENT) DIOXIDE. 3.	9-7
SCYLLAC FEEDBACK STABILIZATION SYSTEM.	10-86	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-117
SCYLLAC MHD (MAGNETOHYDRODYNAMIC) FEEDBACK SYSTEM.	10-87	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-118
SCYLLAC THETA PINCH EXPERIMENTS.	10-88	SELF FOCUSING OF VERY POWERFUL LASER BEAMS. 2.	20-119
CW LASER DENSITY MEASUREMENTS ON SCYLLAC.	10-9	STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.	20-130
SEAL		TOWARD CONTROL OF SELF FOCUSING.	20-133
FIBER OPTIC SECURITY SEAL.	13-5	GAIN SATURATION AND SELF FOCUSING CONSIDERATIONS IN THE DESIGN OF OPTICAL AMPLIFIERS.	20-16
SEALED		PHOTON SELF ABSORPTION EFFECTS. A POTENTIALLY LARGE ERROR IN PASSIVE GAMMA RAY ASSAYS.	20-24
SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15	SEMI-CLASSICAL	
SEARCH		SEMI-CLASSICAL MULTI STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-14
SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NUCLEON-NUCLEON SCATTERING.	25-103	SEMIANNUAL	
SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM-169 AND LUTETIUM-175 GAMMA RAYS.	25-105	SEMIANNUAL REPORT. SEROLOGIC TEST SYSTEMS DEVELOPMENT JULY THROUGH DECEMBER 1973.	5-104
SEC		SEMIEMPIRICAL	
DECAY OF 75 SEC METASTABLE DYSPROSIUM-165.	25-33	AB INITIO POTENTIAL CURVES FOR THE NEON (8S)-NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	1-7
SECOND		SEMIEMPIRICAL CABLE DESIGN.	10-89
WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE III).	4-59	SENSING	
NUMERICAL COMPARISON OF INTEGRAL EQUATIONS OF THE FIRST AND SECOND KIND FOR CONFORMAL MAPPING.	21-34	LINEAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM.	1-16
SECOND MONTE CARLO SAMPLER.	21-48	SENSITIVE	
SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	28-18	LOW DEADTIME DELAY LINE READOUT FOR POSITION SENSITIVE PROPORTIONAL COUNTERS.	19-14
SECONDARY		IDENTIFYING, MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE IONS.	22-20
REGION OF NO SECONDARY BIFURCATION FOR NONLINEAR HAMMERSTEIN OPERATORS.	21-42	SENSITIVITY	
SPREADING FUNCTIONS IN SECONDARY ELECTRON ANALYSIS.	27-15	SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK.	10-90
SECRETED		SENSITIVITY OF RTTR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM-84 CROSS SECTION UNCERTAINTY.	10-91
MACROMOLECULES SECRETED BY CULTURED HUMAN CELLS AND THEIR EFFECTS ON CELL GROWTH AND ADHESION.	5-65	SENSOR	
SECRETION		SENSOR AND SIMULATION NOTES.	27-14
ABSOLUTE DETERMINATIONS OF ANTIBODY AFFINITY AND SECRETION RATE DISTRIBUTIONS FROM HEMOLYTIC PLAQUE EXPERIMENTS.	5-1	SEPARABILITY	
SECTOR		SEPARABILITY IN DIRECTLY INTERACTING RELATIVISTIC PARTICLE SYSTEMS.	25-106
PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS.	10-72	SEPARABLE	
SECURITY		SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM.	25-107
FIBER OPTIC SECURITY SEAL.	13-5	COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-20
UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	30-61	SEPARATION	
SEEDED		IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NIOBIUM IN MIXED URANIUM-PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH.	10-115	APPARATUS AND METHOD FOR MAGNETOPLASMA DYNAMIC ISOTOPE SEPARATION.	20-11
SEGMENTED		STATUS OF LASER SEPARATION OF BORON ISOTOPES - JUNE 1971.	20-120
PASSIVE SEGMENTED GAMMA SCAN OPERATION MANUAL.	26-23		
FIELD ASSAY OF PLUTONIUM WITH A NEW COMPUTERIZED SEGMENTED GAMMA SCAN INSTRUMENT.	26-8		
SEISMIC			
SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE.	11-28		
SELECTION			
SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68		

BORON ISOTOPE SEPARATION BY LASER INDUCED PHOTOCHEMISTRY	20-15	SHEET PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS	1-28
SEPARATIONS QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES	4-42	ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL	1-3
SEQUENCE DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE	4-8	ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS	1-7
BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES	5-12	EVIDENCE OF A FIELD ALIGNED CURRENT SHEET IN AN AURORAL SPIRAL	1-8
MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREES	5-73	SHELL OFF SHELL EFFECTS IN PION - DEUTERON ABSORPTION	22-36
SEQUENTIAL SEQUENTIAL HISTONE PHOSPHORYLATION EVENTS IN THE CELL CYCLE	5-105	OFF SHELL EFFECTS IN PION - NUCLEON INTERACTIONS	22-37
SAFETY TEST NO. 8-6 LAUNCH PAD ABORT SEQUENTIAL TEST, PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT	17-97	MAGNESIUM -26 (TRITON, HELIUM -3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM -26	25-61
SERIAL CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTIRATE APPLICATIONS	21-7	SHELLS LASER DRIVEN SUPERCOMPRESSION OF SHELLS	20-70
SERIES SEISMIC AND FLUID PRESSURE RESPONSE FROM A SERIES OF HYDRAULIC FRACTURES IN GRANITE	11-28	SHIELD KILOTON SHIELD DOORS AT LAMPE	13-9
ABSORPTION BY A HYDROGENIC SERIES OF OVERLAPPING LORENTZIAN LINES	18-1	SHIELDED COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES	13-2
EFFECT OF RANDOM ERRORS (NOISE) IN THE TERMS OF A POWER SERIES ON THE CONVERGENCE OF THE PADE APPROXIMANTS	27-2	SHIELDED SHIPPING CONTAINER FOR FISSION MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL, SUPPLEMENT	17-69
SEROLOGIC SEMIANNUAL REPORT, SEROLOGIC TEST SYSTEMS DEVELOPMENT, JULY THROUGH DECEMBER 1973	5-101	SHIELDING APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA, CALCULATIONAL METHODS, AND PROCEDURES	25-10
SERVICES QUARTERLY REPORT, JOINT SERVICES EXPLOSIVES PROGRAM, MARCH 16 THROUGH JUNE 30, 1974	15-10	SHIFT CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5' PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE	14-3
QUARTERLY REPORT, JOINT SERVICES EXPLOSIVE PROGRAM, AUGUST 16 THROUGH NOVEMBER 30, 1973	15-8	RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE	27-12
QUARTERLY REPORT, JOINT SERVICES EXPLOSIVES PROGRAM, DECEMBER 1, 1973, THROUGH MARCH 15, 1974	15-9	SHIFTS COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD	22-9
SESSION CHAIRMAN'S CLOSING REMARKS, SESSION V, THE CELL SURFACE	5-18	SCATTERING PHASE SHIFTS FOR THE COULOMB PLUS SEPARABLE POTENTIAL PROBLEM	25-103
CHAIRMAN'S REMARKS, SESSION V, THE CELL SURFACE	5-19	SHIPPING SHIPPING CASK FOR FAST REACTOR FUEL ELEMENTS	13-17
SET FUNCTIONALS ADDITIVE ON A SYMMETRIC SET	21-24	SHIPPING CONTAINER FOR PLUTONIUM -238 AS FISSION MATERIAL CLASS 1	13-18
SETS SETS, NUMBERS, AND UNIVERSES, SELECTED WORKS	21-49	COMPARISON OF ANALYSES FOR SHIPPING CONTAINER LID REMOVAL	13-3
SFN REVIEW OF SFN/FTE FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL	10-81	SHIELDED SHIPPING CONTAINER FOR FISSION MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL, SUPPLEMENT	17-69
SHALLOW DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDAD CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-15	SHOCK SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29
SHAPE NUMERICAL METHOD FOR DETERMINING CRITICAL PARAMETERS FOR BODIES OF ARBITRARY SHAPE	15-3	HOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT	1-5
MULTI, A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM	21-32	COLLISION OF A FAST SHOCK WITH AN INTERSTELLAR CLOUD: A MODEL FOR CAS A	3-2
EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS	23-13	MIXED SNOWPLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH	10-60
SHAPE L = 1.24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES	1-15	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE	10-92
PAYLOAD PERFORMANCE OF SHAPED CHARGE BARIUM RELEASES	1-25	METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME	15-4
SHEATH MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE	10-5	MOTION OF A COMPRESSIBLE PLATE DRIVEN BY SHOCK OR DETONATION	18-13
		MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE	18-14
		SHOCKS FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH	15-2
		SHORELINE NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE	11-20

SHORT OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY, SHORT PULSE, CARBON DIOXIDE LASER SYSTEM.	20-100	INDUCTIVE MODEL FOR MULTIDIMENSIONAL PLASMA SIMULATION.	10-47
PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 - JULY 1973.	20-113	CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES.	12-2
FINAL PROGRESS REPORT. SHORT PULSE PROPAGATION AND IMAGING, NOVEMBER 1972 THROUGH OCTOBER 1973.	20-44	MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.	12-5
HIGH ENERGY, SHORT PULSE CARBON DIOXIDE LASER SYSTEM.	20-52	MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-29
SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950.	30-48	NUMERICAL SIMULATION OF TSUNAMIS.	18-19
SHORTAGE NEW ATTACK ON THE ENERGY SHORTAGE.	30-23	PLASMA SIMULATION TECHNIQUES APPLIED TO NONLINEAR OPTICAL PROBLEMS.	20-108
SHORTENING DOSE RATE EFFECT ON LIFE SHORTENING IN MICE.	5-35	TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-144
LIFE SHORTENING IN MICE EXPOSED TO DISCRETE DOSES OF GAMMA RAYS AT LOW DOSE RATES.	5-62	CORPUSCLE - IN - MEDIA SIMULATION OF NONLINEAR OPTICAL PROBLEMS.	20-25
SIGMA SPONTANEOUS DECAY OF THE $\sigma(\text{SIGMA})\text{U}^{++}$ STATE OF XENON 12 .	25-107	NUMERICAL SIMULATION OF DIRECT ENERGY CONVERSION.	20-93
SIGNAL TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN.	20-111	NUMERICAL SIMULATION OF RF CONFINEMENT.	20-94
TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER.	20-142	RANDOM PACKING OF PARTICLES: SIMULATION WITH A ONE DIMENSIONAL PARKING MODEL.	27-11
SIGNALS ON SIGNALS GENERATED BY THE BINDING OF MULTIVALENT ANTIGENS TO LYMPHOCYTES.	5-80	SENSOR AND SIMULATION NOTES.	27-14
SIGNIFICANCE SIGNIFICANCE ARITHMETIC. ON THE ALGEBRA OF BINARY STRINGS.	21-50	COMPUTER SIMULATION OF TACTICAL NUCLEAR WARFARE.	30-7
SILICON DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	SIMULATOR STOCHASTIC/ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW.	18-25
GAMMA RAY SPECTROSCOPY OF SILICON 28 VIA THE ALUMINUM 27 (PROTON,GAMMA) SILICON 28 REACTION.	25-50	SINCE UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114
GAMMA RAY SPECTROSCOPY OF SILICON 28 VIA THE ALUMINUM 27 (PROTON,GAMMA) SILICON 28 REACTION.	25-50	SINGLE INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	4-28
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT M1 RESONANCE OF SILICON 28 .	25-79	SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DISESUIM LITHIUM METAL HEXACYANIDES - M = CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIUM.	4-45
OBSERVATION OF THE CHARGE EXCHANGE MODE OF THE GIANT MAGNETIC DIPOLE RESONANCE OF SILICON 28 .	25-80	PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH_4UF_6 , AMMONIUM PENTAFLUORO URANATE(IV).	9-15
SILVER FISSION AND COMPLETE FUSION MEASUREMENTS IN ARGON 40 BOMBARDMENTS OF NICKEL 58 AND SILVER 109 .	10-9	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL.	10-2
SIMIAN FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40.	5-48	GENERATION OF MULTIBAND, SINGLE NANOSECOND PULSES IN CARBON DIOXIDE LASERS.	20-48
SIMULATED EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8	DAMAGE OF SINGLE CRYSTAL ALUMINUM OXIDE BY 14 MEV NEUTRONS.	23-4
INTERACTION OF PLUTONIUM 238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.	17-26	SINGLE STAGE NUCLEAR ROCKET STUDY.	30-49
PLUTONIUM 238 RELEASE IN SIMULATED NATURAL ENVIRONMENTS.	17-41	SINK INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES.	23-14
PERFORMANCE CHARACTERISTICS OF PLUTONIUM 238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24	SINTERING ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 4.5 PERCENT NICKEL - 1.5 PERCENT IRON COMPOSITE.	23-1
SIMULATING PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1	5-82	LIQUID PHASE SINTERING OF TUNGSTEN - NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15
PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2	5-81	SITE GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE, JULY 1974.	11-9
PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84	SITES FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
SIMULATION THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING.	10-105	SITUATION SITUATION IN WHICH THE ESTIMATION OF THE INTERACTION VARIANCE IS THE PURPOSE OF AN EXPERIMENT.	21-51
TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-114	SIZE EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-7
HYBRID SIMULATION OF PINCH IMPLSIONS.	10-43	EFFECT OF PARTICLE SIZE ON THE CARRIER DISTILLATION ANALYSIS OF PLUTONIUM DIOXIDE.	2-8
		PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS.	17-34

PLUTONIUM AEROSOL SIZE CHARACTERISTICS.	17-42	SOFTWARE	
METHOD OF FORMING MICRON SIZE METAL CARBIDE PARTICLE DISPERSIONS IN CARBON.	24-19	DATA ACQUISITION SOFTWARE FOR A MWPC SPECTROMETER.	21-12
VACUUM POLARIZATION IN HIGH Z FINITE SIZE NUCLEI.	25-121	C-DIVISION SOFTWARE BRANCH PROJECT HANDBOOK.	21-6
SIZES		SOIL	
SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68	MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.	17-28
SKY		STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM-238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM-238 DIOXIDE	17-74
MUNTE CARLO STUDIES OF THE SKY RADIATION AT TWILIGHT.	1-19	SOILS	
SLATER		PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS	17-74
NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE-ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS	4-37	INVESTIGATIONS OF UNDERGROUND EXPLOSIONS IN NEVADA SANDY SOILS	30-16
SLIP PATCH		SOLAR	
DILATATION AND THE SLIP PATCH HYPOTHESIS	11-6	ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1
SLIT		HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND	1-10
SLIT SCATTERING IN THE EPIC'S BEAM LINE.	22-54	HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS.	1-11
SMALL		INTERPENETRATING SOLAR WIND STREAMS.	1-12
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM-238 DIOXIDE AND PLUTONIUM-239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	INTERPENETRATING SOLAR WIND STREAMS.	1-13
GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES.	8-14	SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29
THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM-TRITIUM SPHERES.	20-139	SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS.	1-30
TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN.	30-111	SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31
TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER.	29-142	SOLAR WIND HEAVY ION ABUNDANCES.	1-32
SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS.	23-30	SOLAR WIND HELIUM(2+) TO HYDROGEN(4+) TEMPERATURE RATIO.	1-33
SMOOTH		UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-34
RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES.	21-43	UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35
SNAP		BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4
MASS SPECTROMETRIC DETERMINATION OF OXYGEN-18/OXYGEN-16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	HOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
SNAP BAKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70	ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1
SNOWFLOW		FORMATION OF PARHELIA AT HIGHER SOLAR ELEVATIONS.	3-10
MIXED SNOWFLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH.	10-60	NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-14
SOCIETY		NEAR INFRARED PHOTOGRAPHY OF THE OUTER CORONA DURING THE 30 JUNE 1973 SOLAR ECLIPSE.	3-15
CRYOGENICS SAFETY IN A HYDROGEN FUEL SOCIETY.	17-11	POLARIMETRY OF THE OUTER CORONA FROM A JET AIRCRAFT DURING THE JUNE 1973 SOLAR ECLIPSE.	3-21
SODIUM		TEMPORAL OBSERVATIONS OF THE LAMBDA 503 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-32
EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE.	4-16	THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XXIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-31
METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM-235 USING A SODIUM IODIDE CRYSTAL.	16-22	TITUS-BODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM.	3-34
DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27	TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE.	3-36
STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM-PLUTONIUM CARBIDE.	24-33	UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	3-37
MAGNESIUM-26 (TRITON-HELIUM-3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM-26.	25-61	DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6
SOFT		DEVELOPMENT OF THE OSO-6 HIGH ENERGY NEUTRON DETECTOR AND CORRELATION OF MEASURED SOLAR NEUTRON FLUXES TO SOLAR FLARES.	3-6
SOFT X RAY SOURCE.	13-19		
REDUCTION OF FRESNEL DIFFRACTION EFFECTS BY SOFT APERTURES.	20-116		
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-120		
SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS.	20-121		
TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119		
TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-120		

COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 66000 SQUARE FOOT BUILDING IN LOS ALAMOS, NEW MEXICO.	12-1	MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-57
CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES.	12-2	NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21
DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3	CONFORMATION OF CYCLIC BETA - ADENOSINE 3',5'- PHOSPHATE IN SOLUTION USING THE LANTHANIDE SHIFT TECHNIQUE.	14-3
MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS.	12-5	NUMERICAL SOLUTION OF THE FLOW STRUCTURE IN TORNAO LIKE VORTICES.	18-29
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.	12-6	USE OF CANONICAL MOMENTA AS A SOLUTION OF THE NUMERICAL CHERENKOV EFFECT.	20-116
SOLID FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20	DIRECT SOLUTION OF THE BIHARMONIC EQUATION ON RECTANGULAR REGIONS AND THE POISSON EQUATION ON IRREGULAR REGIONS.	21-14
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES.	17-20	DIRECT SOLUTION OF THE DISCRETE BIHARMONIC EQUATION.	21-15
SNAP IS/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST.	17-70	EXACT SOLUTION TO PURE BINARY REACTION PROBLEMS.	21-21
METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	21-18	LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA HAMILTONIAN.	21-29
DYNAMIC POLARIZATION OF PROTONS AND DEUTERONS IN SOLID DEUTERIUM HYDRIDE.	25-37	MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION.	24-7
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-26	TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119
RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2	TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-120
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, APRIL - JUNE 1974.	30-32	RETENTION OF A METASTABLE B.C.C. GAMMA -NEPTUNIUM SOLID SOLUTION: GAMMA -NEPTUNIUM (GALLIUM).	29-2
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JULY -SEPTEMBER 1973.	30-33	SOLUTIONS DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, OCTOBER -DECEMBER 1973.	30-34	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS, JANUARY - MARCH 1974.	30-35	PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 1.	5-82
SOLIDS TAYLOR INSTABILITY IN SOLIDS.	18-27	PERIODIC SOLUTIONS OF PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE. 2.	5-83
PLACID. A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS.	21-38	PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY.	27-18	KINETICS OF THE OXIDATION OF HYDROQUINONE BY PLUTONIC(VI) AND BY PLUTONIUM(IV) IN AQUEOUS PERCHLORATE SOLUTIONS.	6-8
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19	SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11
SOLUBILITY STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM -238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM -238 DIOXIDE.	17-74	NUMERICAL SOLUTIONS OF THE THREE DIMENSIONAL KINETIC EQUATION OF THE PARAMETRIC DECAY INSTABILITY. FINAL REPORT FOR THE PERIOD JANUARY 1973 THROUGH JANUARY 1974.	20-95
SOLUBLE EFFECTS OF IONIZING RADIATION UPON INTRACELLULAR LEVELS OF SOLUBLE MICROCYTUBULE PROTEIN IN CULTURED MAMMALIAN CELLS.	5-39	SOLUTIONS OF A DIFFERENTIAL EQUATION ARISING IN CHEMICAL REACTOR PROCESSES.	21-52
SOLUTE ON THE THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	23-23	METASTABLE FCC SOLID SOLUTIONS IN CERIUM - PLUTONIUM ALLOYS QUENCHED RAPIDLY FROM THE MELT.	21-18
THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS.	23-25	IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12
THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	23-27	SOLVENT SOLVENT EVAPORATION RATES.	17-71
SOLUTION PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION.	2-14	SOLVERS ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A-STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37
STABILIZATION OF SOLUTION OF THE HARTREE-FOCK EQUATIONS.	4-47	SORTER NEUTRON MULTIPLICITY SORTER FOR THE EXPERIMENTAL DETERMINATION OF NU BAR.	18-27
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26	SORTING APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION (RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS).	5-6
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION. JULY 1, 1973 - JUNE 30, 1974.	5-7
		MULTIPARAMETER ANALYSIS AND SORTING OF MAMMALIAN CELLS.	5-74

PROGRESS REPORT. AUTOMATED CANCER CELL SORTING AND ANALYSIS, APRIL 1 - SEPTEMBER 30, 1974.	5-93	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-38
STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. OCTOBER 1 - DECEMBER 31, 1968.	30-39
SOUNDING NEAR-SIMULTANEOUS MEASUREMENT OF LOW ENERGY ELECTRONS BY SOUNDING ROCKET AND SATELLITE.	1-21	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM. JULY 1 - SEPTEMBER 30, 1968.	30-40
SOURCE MASS SPECTROMETRIC DETERMINATION OF OXYGEN -18/OXYGEN -16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970. PART 2.	30-41
NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.	4-36	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
SOFT X RAY SOURCE.	13-19	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968. PART 2.	30-43
TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE. INS.	13-21	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST. PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT.	17-67	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE.	20-126	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51
APPROXIMATE SPHERICAL BLAST THEORY WITH SOURCE MASS.	20-13	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970. PART 2.	30-52
PERFORMANCE CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCE MODULES UNDER SIMULATED OPERATING CONDITIONS.	23-24	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53
ATTEMPTED INTENSE D-D NEUTRON SOURCE.	25-16	SPACE ELECTRIC POWER R AND D PROGRAM. QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1972.	30-54
INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET.	25-53	SPALL CALCULATIONS OF LASER INDUCED SPALL IN ALUMINUM TARGETS.	20-19
ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2	NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-96
RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE.	27-12	SPATIAL RADIOBIOLOGICAL ASSESSMENT OF THE SPATIAL DISTRIBUTION OF RADIATION DOSE FROM INHALED PLUTONIUM.	5-97
ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2	UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION.	9-19
HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION.	28-5	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-117
SOURCES PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-21	RELATIONSHIP OF SELF FOCUSING TO SPATIAL INSTABILITY MODES.	20-118
TRANSIENT COSMIC GAMMA AND X RAY SOURCES. 1973. CONFERENCE. LOS ALAMOS, NM. PROCEEDINGS.	3-35	SPATIALLY SPATIALLY RESOLVED OBSERVATION OF THE ENERGETIC ELECTRONS FROM A LASER PRODUCED PLASMA.	20-123
DISTANCES TO THE SOURCES OF OBSERVED COSMIC GAMMA RAY BURSTS.	3-7	SPECIAL INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7
BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES. 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM -238 DIOXIDE AND PLUTONIUM -239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8
RADIATION CHARACTERISTICS OF PLUTONIUM -238 DIOXIDE HEAT SOURCES.	7-12	SPECIES FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES.	4-19
FUSION REACTORS AS FUTURE ENERGY SOURCES.	10-38	TWO SPECIES VLASOV CONFINEMENT EQUILIBRIA.	10-112
INTERACTION OF PLUTONIUM -238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS.	17-26	SPECIFIC CELL CYCLE SPECIFIC CHANGES IN HISTONE PHOSPHORYLATION ASSOCIATED WITH CELL PROLIFERATION AND CHROMOSOME CONDENSATION.	5-16
PHOTON SOURCES FOR INSTRUMENT CALIBRATION.	19-19	METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.	16-22
SP EFFECT OF CONTINUUM CONFIGURATION INTERACTION ON THE POSITION OF SP(0) IN NEUTRAL CHLORINE AND OTHER HALOGENS.	4-10	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS.	30-37
SPACE POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE.	1-27	SPECIFICATION INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7
TYPE II SOLAR RADIO BURST OBSERVED IN THE CORONA AND IN INTERPLANETARY SPACE.	3-36	INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8
SPACE FIXED VS BODY FIXED AXES IN ATOM -DIATOMIC MOLECULE SCATTERING. SUDDEN APPROXIMATIONS.	4-46	SPECIMENS AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNECOLOGICAL SPECIMENS.	5-8
FREE ENERGY IN CONCENTRATION SPACE.	7-5		
NUCLEAR SAFETY IN NUCLEAR POWER AND PROPULSION DEVICES FOR SPACE.	17-31		
DIRECT CONVERTER BASED ON SPACE CHARGE EFFECTS.	20-29		
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-29		

SPECKLE SPECKLE REDUCTION IN PULSED LASER PHOTOGRAPHS.	20-124	CARBON-13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBONMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
SPECTRA LASER PLASMA SPECTRA OF HIGHLY IONIZED FLUORINE.	3-13	CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCOBALAMIN SELECTIVELY ENRICHED WITH CARBON-13	14-2
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30	GAMMA RAY SPECTROSCOPY OF SILICON-28 VIA THE ALUMINUM-27 (PROTON,GAMMA) SILICON-28 REACTION	25-50
SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31	SPECTRUM INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	1-28
THEORETICAL AND EXPERIMENTAL STUDY OF IRONXXIX TO IRONXXIV SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33	VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.	4-58
THEORETICAL AND EXPERIMENTAL STUDY OF IRONXXIX TO IRONXXIV SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33	WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINEII).	4-59
FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES.	4-19	FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM-235 AND URANIUM-238.	16-16
INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA.	4-27	INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM-238 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17
TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	4-53	EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM-235.	16-6
VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM PEROXYCYANIDE.	4-56	SPECTRUM OF BACKSCATTERED 10 MICROMETRE LIGHT FROM LASER INDUCED PLASMAS.	26-125
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE.	4-57	SPEED SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS.	1-50
NEUTRON FLUX SPECTRA AT LAMP FOR CTR RADIATION DAMAGE STUDIES.	22-32	USE OF HYDRAZINE TO INCREASE THE SPEED AND CONTRAST OF INDUSTRIAL RADIOGRAPHIC FILM.	2-17
MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS	25-66	SPEEDS ARBITRARY LAGRANGIAN-EULERIAN COMPUTING METHOD FOR ALL FLOW SPEEDS.	18-2
MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON,NEUTRON) HELIUM-4 REACTION.	25-67	SPHERES THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM - TRITIUM SPHERES.	20-136
NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS	25-75	HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLoded DEUTERIUM - TRITIUM SPHERES.	20-54
NEUTRON SPECTRA FROM 500 MEV PROTONS ON BERYLLIUM-9.	25-76	IMPLOSION CHARACTERISTICS OF DEUTERIUM -TRITIUM SPHERES FOR LASER FUSION	20-55
SPECTROGRAPHIC MODIFIED CUPFERRON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	2-12	NEUTRON MULTIPLICATION IN SPHERES OF 25.	24-8
X RAY SPECTROGRAPHIC DETERMINATION OF IRIIDIUM IN LITHIUM HYDRIIDE OR LITHIUM DEUTERIDE.	2-18	MEASUREMENTS AND CALCULATIONS OF THE NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-66
SPECTROMETER CONCENTRIC AEROSOL SPECTROMETER.	17-7	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON,NEUTRON) HELIUM-4 REACTION.	25-67
CONCENTRIC AEROSOL SPECTROMETER.	19-2	NEUTRON SPECTRA EMITTED FROM CONCRETE SPHERES BOMBARDED WITH 14 MEV NEUTRONS.	25-75
DATA ACQUISITION SOFTWARE FOR A MWPC SPECTROMETER.	21-12	SPHERICAL DIFFERENTIAL LIGHT SCATTERING FROM SPHERICAL MAMMALIAN CELLS.	5-30
SPECTROMETRIC MASS SPECTROMETRIC DETERMINATION OF OXYGEN-18/OXYGEN-16 RATIOS TO LOCATE THE SOURCE OF OXYGEN IN SNAP FUEL CAPSULE COMPONENTS.	2-11	ROTATION GROUP AND HYDRODYNAMICS OF NEARLY SPHERICAL FLUID FLOW.	18-24
SPECTROMETRY DETERMINATION OF OXYGEN-17 AND OXYGEN-18 ISOTOPIC ABUNDANCES IN PLUTONIUM-239 MATERIALS BY GAMMA SPECTROMETRY.	2-4	APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS.	20-12
SPECTROPHOTOMETRIC SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM IN PLUTONIUM DIOXIDE.	2-16	APPROXIMATE SPHERICAL BLAST THEORY WITH SOURCE MASS.	20-13
SPECTROPHOTOMETRY DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5	MAGNESIUM-26 (TRITON,HELIUM-3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM-26.	25-61
SPECTROSCOPY GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+), 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23	SPHEROLIZATION SPHERODIZATION AND COATING OF LITHIUM DEUTERIDE.	23-32
ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1	SPIN AB INITIO POTENTIAL CURVES FOR THE NEON (3S) - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES.	20-98	GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+), 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22
SPECTROSCOPY TRANSMISSION SPECTROSCOPY OF LASER PRODUCED PLASMAS.	10-110	THEORETICAL CALCULATION OF ATOMIC SPIN -ORBIT PARAMETERS.	4-49
		PROTON - OXYGEN-17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4

SPIN RELAXATION IN OXYGEN 17 ENRICHED WATER	14.5	STABILITY OF DIFFUSE HIGH BETA HELICAL SYSTEMS	10.90
SPIN FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE	20.126	STABILITY OF THE ZT-1 TOROIDAL Z-PINCH AT REDUCED TOROIDAL CURRENTS	10.97
SPIN AND ISOSPIN EFFECTS IN PI-HELIUM-4 SCATTERING	22.35	STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS	20.127
MEASUREMENTS OF SPIN CORRELATION AND ANALYZING POWER IN DEUTERON-HELIUM-4 ELASTIC SCATTERING BETWEEN 4 AND 12 MEV.	25.08	SYMMETRY AND STABILITY OF LASER INDUCED IMPLSIONS	20.131
RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE	27.12	ABLATION STABILITY OF LASER DRIVEN IMPLSIONS	20.5
SPINS		ABLATION STABILITY OF LASER DRIVEN IMPLSIONS	20.6
DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SELF-THRESHOLD FISSION	16.1	STABILIZATION	
SPIRAL		STABILIZATION OF SOLUTION OF THE HARTREE-FOCK EQUATIONS	1.47
EVIDENCE OF A FIELD-ALIGNED CURRENT SHEET IN AN ALIQUOT SPIRAL	1.8	SCYLLAC FEEDBACK STABILIZATION SYSTEM	10.8
SPLINES		STABLE	
RELATION BETWEEN THE GALERKIN AND COLLOCATION METHODS USING SMOOTH SPLINES	21.13	DETECTION OF THE STABLE ISOTOPES OF CARBON USING A CRYSTAL GRAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES	5.29
RELATIVE EFFICIENCY OF FINITE DIFFERENCE AND FINITE ELEMENT METHODS FOR HYPERBOLIC PROBLEMS AND SPLINES	21.11	INDICATION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEAR ACID (DNA)-DEPENDENT RIBONUCLEAR ACID (RNA) POLYMERASE AND DNA POLYMERASE BY ULTRAVIOLET LIGHT	5.55
SPLITTING		SYNTHESES WITH STABLE ISOTOPES: ACETYLENE-CARBON-13 AND LITHIUM-ACETYLIDE-CARBON-13-ETHYLENEDIAMINE COMPLEX	5.10
ALGEBRA OF LEVEL SPLITTING	1.00	SYNTHESES WITH STABLE ISOTOPES: PYRIDINE-NITROGEN-15	5.17
SPLITTINGS		SYNTHESIS WITH STABLE ISOTOPES: METHANOL-CARBON-13, METHANOL-CARBON-13-D4 AND METHANOL-CARBON-12	5.18
PHYSICAL EXAMPLE OF THE BIRKENHAIN-GAMMA THEORY OF LEVEL SPLITTINGS	1.11	STACK	
SPONSORED		THE STACK EFFLUENT MONITOR	17.55
ANNUAL PROGRESS REPORT OF THE DEFENSE NUCLEAR AGENCY SPONSORED CROSS-SECTION EVALUATION GROUP, LOS ALAMOS SCIENTIFIC LABORATORY, JULY 1, 1973 THROUGH JUNE 30, 1974	20.8	STAGE	
SPONTANEOUS		LOS ALAMOS THREE-STAGE VAN DE GRAAFF FACILITY	27.8
SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS	15.11	SINGLE-STAGE NUCLEAR ROCKET STUDY	30.19
MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM-254	16.20	STAGED	
PROMPT NEUTRONS FROM THE SPONTANEOUS FISSION OF FERMIUM-257	16.29	EXPERIMENTS IN THE STAGED THETA-PINCH EXPERIMENT	10.28
SPONTANEOUS DECAY OF THE β -ISOMER STATE OF XENON-122	25.105	MIXED SNOWPLOW-BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA-PINCH	10.60
SPREADING		STAGED THETA-PINCHES WITH IMPLSION HEATING	10.98
SPREADING FUNCTIONS IN SECONDARY ELECTRON ANALYSIS	27.15	STAGING	
SQUARE		SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE	10.92
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION, DEHUMIDIFICATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 6000-SQUARE-FOOT BUILDING IN LOS ALAMOS, NEW MEXICO	12.1	STAINING	
SQUARES		CELL PREPARATION AND STAINING FOR FLOW SYSTEMS	5.17
MULTI-A FORTRAN CODE FOR LEAST SQUARES SHAPE FITTING OF NEUTRON CROSS-SECTION DATA USING THE REICH-MOORE MULTILEVEL FORMALISM	21.32	STAINLESS	
SST		ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL	20.5
TEMPORAL OBSERVATIONS OF THE LAMBDALAMBDA-5000 EMISSION LINE PROFILE DURING THE 74-MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	3.92	STAND	
STABILITY		REMOTE JOB ENTRY SIMULTANEOUS WITH STAND-ALONE USAGE OF A PDP-11-20	21.46
STABILITY AND NONEXPLOSIVE HYDROGEN FLUORIDE PRODUCTION IN ATMOSPHERIC PRESSURE HYDROGEN-OXYGEN-FLUORINE MIXTURES	6.15	STANDARD	
TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS-SECTION, TOKAMAK PLASMA	10.108	STANDARD GIBBS FREE ENERGY OF FORMATION OF PLUTONIUM-239/NICKEL-107	7.14
EQUILIBRIUM AND STABILITY OF $l = 1$ HELICALLY SYMMETRIC, FINITE-BETA, DIFFUSE PLASMAS	10.24	PROPOSED INTERIM STANDARD FOR PLUTONIUM IN SOILS	17.54
IMPROVED STABILITY OF THE ZT-1 TOROIDAL PINCH BY PROGRAMMING	10.45	FCTR: A COMPUTER CODE TO CONVERT STANDARD CCCX INTERFACE FILES TO FTR FILES	21.22
MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO-DIMENSIONAL EQUILIBRIA	10.59	SOME FUNNY THINGS HAPPENED O.: THE WAY TO THE LIMIT OF ERROR STANDARD	11.55
PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS	10.72	STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III	28.19
STABILITY ANALYSIS OF BGK WAVES	10.93	AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN)	30.1
STABILITY ANALYSIS OF INHOMOGENEOUS PLASMA EQUILIBRIA	10.94	STANDARDS	
STABILITY OF A FINITE BETA $l = 2$ STELLARATOR	10.95	RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH DECEMBER 31, 1973	17.63
		QUARTERLY REPORT: EXAMINATION OF FAST REACTOR FUELS AND FTR ANALYTICAL QUALITY ASSURANCE STANDARDS AND METHODS, JULY 1 THROUGH OCTOBER 31, 1974	28.12
		STANDING	
		STANDING WAVE PUMPED PARAMETRIC INSTABILITIES	20.128
		STARCH	
		IODIZED STARCH GRANULES AS A CAUSE OF STARCH PERITONITIS	5.58

STARS POST-NEWTONIAN NEUTRON STARS.	3-22	STATUS ANALYTICAL METHODS FOR FISSIONABLE MATERIALS IN THE NUCLEAR FUEL CYCLE. PROGRAM STATUS REPORT JUNE 1973 TO JUNE 1974.	2-1
START MULTIBEAM INSTABILITY IN A ONE DIMENSIONAL MAXWELLIAN QUANTUM PLASMA.	20-47	STATUS OF MOLECULAR OPACITIES OF INTEREST IN THE MODELING OF A PROTO-SOLAR NEBULA.	4-48
STATE ELECTRONIC CONFIGURATION IN THE GROUND STATE OF ATOMIC LAWRENCIUM.	4-12	STATUS REPORT ON THE INITIAL NUCLEAR CHEMISTRY EXPERIMENTS AT THE CLINTON P. ANDERSON MESON PHYSICS FACILITY (LAMPF).	7-15
EQUATION OF STATE FOR SODIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE.	4-16	PRESENT STATUS AND FUTURE PROGRAM OF THE ZT-4 EXPERIMENT.	10-77
FROZEN CORE APPROXIMATION IN SOLID STATE AND MOLECULAR CALCULATIONS.	4-20	GEO THERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRANEAN DEVICES: A STATUS REVIEW.	11-13
HUGONIOT EQUATION OF STATE OF BERYLLIUM OXIDE.	4-24	PRESENT STATUS OF NUCLEAR FISSION THEORY.	16-26
HUGONIOT EQUATIONS OF STATE OF LITHIUM - HYDROGEN -6, LITHIUM - DEUTERIUM -6, LITHIUM - HYDROGEN -N, AND LITHIUM -DEUTERIUM -N.	4-25	STATUS OF LASER SEPARATION OF BORON ISOTOPES - JUNE 1974.	20-129
DESIGN CONSIDERATIONS FOR A HIGH PRESSURE, EQUATION OF STATE EXPERIMENT.	4-9	STATUS OF LAMPF EXPERIMENTAL FACILITIES.	22-56
LASER ENHANCED CHEMICAL REACTIONS AND THE LIQUID STATE: AN INTRODUCTION.	20-71	LASL STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE.	25-56
CAPTURE mu^- + LITHIUM -6 + HYDROGEN -3 + HYDROGEN -3 + nu^- WITH FINAL STATE INTERACTIONS.	22-4	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, JANUARY - APRIL 1974.	26-20
PROCESS mu^- + LITHIUM -6 YIELDS HYDROGEN -3 + HYDROGEN -3 + nu^- WITH FINAL STATE INTERACTIONS.	22-44	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT. PROGRAM STATUS REPORT, MAY - AUGUST 1974.	26-21
STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-33	NUCLEAR ANALYSIS RESEARCH AND DEVELOPMENT PROGRAM STATUS REPORT, SEPTEMBER - DECEMBER 1974.	26-22
SPONTANEOUS DECAY OF THE $3(sigma g, 1/2^+)$ STATE OF XENON -2.	25-107	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967, PART 2.	28-14
TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119	QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967, PART 2.	28-15
CALCULATED GROUND STATE PROPERTIES OF HEAVY NUCLEI.	25-19	SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	28-18
CALCULATION OF NUCLEAR LEVEL AND STATE DENSITIES FOR IRON -56, COBALT -59, NICKEL -60, NICKEL -62, COPPER -63, AND COPPER -65.	25-20	STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V O URANIUM DIOXIDE CERMET FUEL.	28-19
RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE.	27-12	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 30, 1963.	30-36
URANIUM DIOXIDE EQUATION OF STATE FOR LMFR (LIQUID METAL FUELED BREEDER REACTOR) EXCURSION ANALYSIS.	28-21	QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 30, 1963.	30-37
STATES GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+1). 1. POTENTIAL CURVES WITH AND WITHOUT SPIN ORBIT COUPLING.	4-22	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, JULY 1 - SEPTEMBER 30, 1968.	30-38
GROUND AND EXCITED STATES OF NEON(2) AND NEON(2+1). 2. SPECTROSCOPIC PROPERTIES AND RADIATIVE LIFETIMES.	4-23	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, OCTOBER 1 - DECEMBER 31, 1968.	30-39
LONG LIVED EXCITED STATES OF NITROGEN MOLECULAR IONS.	4-31	QUARTERLY STATUS REPORT ON PLUTONIUM -238 SPACE ELECTRIC POWER FUEL DEVELOPMENT PROGRAM, JULY 1 - SEPTEMBER 30, 1968.	30-40
NEW ELECTRONIC STATES OF NITROGEN MOLECULAR IONS.	4-35	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING APRIL 30, 1970, PART 2.	30-41
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES.	11-22	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING JULY 31, 1969.	30-42
STRONTIUM -87 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1968, PART 2.	30-43
UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	30-61	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1970.	30-44
STATIC LONG IRRADIATION WITH STATIC PLUTONIUM MICROSPHERES.	5-64	QUARTERLY STATUS REPORT ON THE SPACE ELECTRIC POWER R AND D PROGRAM FOR THE PERIOD ENDING OCTOBER 31, 1971.	30-45
THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE.	23-36	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING APRIL 30, 1971.	30-51
STATISTICAL MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS, COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS.	4-34	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1970, PART 2.	30-52
STATISTICAL THERMODYNAMICS OF OLIGOMER - POLYMER INTERACTIONS.	5-107	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD ENDING JANUARY 31, 1971.	30-53
BOOK REVIEW: PROBABILITY AND STATISTICAL INFERENCE FOR SCIENTISTS AND ENGINEERS, BY I. N. GIBBA.	21-5	SPACE ELECTRIC POWER R AND D PROGRAM, QUARTERLY STATUS REPORT FOR THE PERIOD PERIOD ENDING JANUARY 31, 1972.	30-54
STATISTICIANS BOOK REVIEW: BIOMETRIKA TABLES FOR STATISTICIANS, VOL.2, BY E. S. PEARSON AND H. O. HARTLEY	21-4		

STEADY SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11	STRAGGLING LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION.	25-58
COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7	STRAIN EFFECTS OF NUCLEAR RADIATION ON CERAMIC CEMENTED STRAIN GAGES AND POLYIMIDE ENCAPSULATED EPOXY BONDED GAGES.	19-9
STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-33	STRAY POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT.	19-20
STEAM CALCULATION OF STEAM FLOW AND HYDRAULIC FRACTURING IN A POROUS MEDIUM WITH THE KRAK CODE.	18-4	POLYCHROMETER WITH EXTREME REJECTION OF STRAY LIGHT. ERRATUM.	19-21
STEEL DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3	STREAK STREAK CAMERA INVESTIGATION OF SELF FOCUSING ONSET IN GLASS.	20-130
ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL.	21-5	STREAM TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-11-4
STEERING SIMULTANEOUS STEERING OF H+ AND H- BEAMS AT LAMPF.	22-53	EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15
STELLAR RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27	COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY	20-22
STELLARATOR STABILITY OF A FINITE BETA L = 2 STELLARATOR.	10-85	LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79
STEP ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) VICINAL SURFACES.	9-11	STREAMS ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1
STILL STILL ANOTHER METHOD FOR PHASE-SHIFT COMPUTATION.	27-16	HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS	1-11
STIC ELASTIC STIC ELASTIC ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW	18-25	INTERPENETRATING SOLAR WIND STREAMS.	1-12
STOICHIOMETRIES RELATIONSHIP OF FABRICATION PARAMETERS TO SELECTED PROPERTIES OF PLUTONIUM-238 DIOXIDE RADIOISOTOPIC FUELS: 1. DIMENSIONAL CHANGES, STOICHIOMETRIES, AND MICROSTRUCTURAL FEATURES.	23-29	INTERPENETRATING SOLAR WIND STREAMS.	1-11
STOP NEUTRONS FROM A HIGH ENERGY PROTON BEAM STOP	22-31	SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS	1-30
STORAGE ENERGY STORAGE AND SWITCHING WITH SUPERCONDUCTORS.	8-12	STRENGTH FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH	15-2
METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20	STRESS IMPORTANCE OF THE PERMEABILITY FACTOR IN IN-SITU STRESS DETERMINATIONS	11-15
PROGRESS REPORT 1 SABC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974	8-28	EXPERIMENTAL MEASUREMENT OF IN-SITU STRESS IN GRANITE BY HYDRAULIC FRACTURING.	11-8
PROGRESS REPORT 1 SABC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974	8-29	PLACID: A GENERAL FINITE ELEMENT COMPUTER PROGRAM FOR STRESS ANALYSIS OF PLANE AND AXISYMMETRIC SOLIDS	21-36
SUPERCONDUCTING MAGNETIC ENERGY STORAGE	8-31	TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES	27-19
DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING	8-4	STRIATIONS OBSERVATIONS OF THE DEVELOPMENT OF STRIATIONS IN LARGE BARIUM ION CLOUDS.	1-22
INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER	10-46	STRINGS SIGNIFICANCE ARITHMETIC ON THE ALGEBRA OF BINARY STRINGS.	21-50
MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR).	10-35	STRN AMERICAN NATIONAL STANDARD TECHNICAL REPORT NUMBER (STRN)	90-1
REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS	10-81	STRONG APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERNAL "ME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM "	25-9
STUDY OF CAPACITIVE ENERGY STORAGE FOR A THERMOPINCH PTR COMPRESSION COIL.	10-99	STRONGLY INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS.	20-56
MOVING ENERGY STORAGE CAPACITOR RACKS WITH AIR BEARINGS.	11-12	STRONTIUM STRONTIUM-87 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM-89	25-108
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES	17-20	STRONTIUM-87 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM-89	25-108
PRESERVATION AND STORAGE OF URINE SAMPLES FOR THE DETERMINATION OF MERCURY	17-43	STRUCTURAL STRUCTURAL ANALYSIS OF TORNADO-LIKE VORTICES	18-20
ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY.	10-11	STRUCTURALLY DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES	12-3
STORM STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DO CANYON, LOS ALAMOS COUNTY, NEW MEXICO	17-72		
STORMS BI-DIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS	1-4		

STRUCTURE, ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13	FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47
ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14	LIGHT SCATTERING STUDIES ON INDIVIDUAL MAMMALIAN CELLS.	5-63
ELECTRONIC STRUCTURE OF URANIUM HEXAFLUORIDE.	4-15	ARSENIC (000) SURFACES: AUGER LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1
GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.	4-21	LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VERTICAL SURFACES.	9-11
CHEMICAL REACTION DYNAMICS, PART 1. GEOMETRICAL STRUCTURE.	6-1	EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8
SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.	7-19	SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV P. CONFINEMENT STUDIES (THETA PINCH).	10-100
PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH ₄ UF ₆ (AMMONIUM PENTAFLUORO URANATE IV).	9-15	ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR.	10-17
STRUCTURE OF CERIUM METAL AT HIGH PRESSURE.	9-16	EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK.	10-23
STRUCTURE OF LITHIUM HYDRIDE TO 12 GPa.	9-17	PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL - 1,7-DINITRO 1,3,5,7-TETRA AZACYCLOOCTANE (HMX), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX.	15-6
BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DICESIUM MAGNESIUM IRON HEXACYANIDE.	9-2	FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON), FISSION, (HELIUM 3, DEUTERON), FISSION, (PROTON, PROTON), FISSION, AND (TRITON, ALPHA), FISSION, STUDIES.	16-10
CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 1. 1,1'-AZOBISCARBAMIDE.	9-4	POWER REACTOR EXCURSION STUDIES.	17-44
CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 1,3,6-TRIAMINO-2-THIAZINE.	9-5	PROGRESS REPORT: RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JANUARY 1 THROUGH JUNE 30, 1974.	17-52
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLSION PHASE OF A THETA PINCH DISCHARGE.	10-78	PROGRESS REPORT: RESPIRATOR STUDIES FOR THE AEC DIVISION OF OPERATIONAL SAFETY, JULY 1 THROUGH DECEMBER 31, 1974.	17-53
RADIAL PLASMA STRUCTURE OF THE SCYLLA 1 B THETA PINCH IMPLSION FLUTE INSTABILITIES.	10-82	CHAMBER STUDIES OF VISIBILITY REDUCING AEROSOLS.	17-6
DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SUBTHRESHOLD FISSION.	16-1	RESPIRATOR STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1973 THROUGH JUNE 30, 1974.	17-62
NUMERICAL SOLUTIONS OF THE FLOW STRUCTURE IN TORNADO-LIKE VORTICES.	18-20	RESPIRATOR STUDIES RELATED TO THE AEC DIRECTORATE OF REGULATORY STANDARDS, JANUARY 1 THROUGH DECEMBER 31, 1974.	17-63
EVIDENCE FOR AN ANTIPHASE TYPE OF STRUCTURE IN PLUTONIUM METAL AND ITS ALLOYS.	24-6	RESPIRATORY STUDIES FOR THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, JULY 1, 1972 THROUGH JUNE 1, 1974.	17-64
STRUCTURE OF KRYPTON-88 DERIVED FROM THE KRYPTON-88 (TRITON, PROTON), KRYPTON-88 REACTION.	25-100	STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM-238 DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM-238 DIOXIDE.	17-73
ANALYTIC REPRESENTATION FOR NEUTRON ELECTROPRODUCTION STRUCTURE FUNCTIONS.	25-5	TEST METHODS AND EFFICIENCY STUDIES ON MULTI BANK HEPA FILTER SYSTEMS.	17-74
STRUCTURE OF THE DUFFIN-KEMMER-PETIAU MATRIX ELEMENT FOR K-11 DEUTRY.	27-17	HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES.	19-11
STRUCTURES. X-RAY STUDY OF HELIUM-4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE.	31-20	PHYSICS IN LASER'S ONE DIMENSIONAL HYDRO BURN CODES FOR LASER PLASMA INTERACTION STUDIES.	20-104
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM M CYANIDE (M = CHROMIUM, IRIDIUM).	31-3	COMPUTATIONAL LASER SYSTEM STUDIES.	20-21
DETERMINATION OF THE CRYSTAL STRUCTURES OF DEUTERIUM BY NEUTRON DIFFRACTION.	31-6	LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES.	20-68
CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES.	12-2	LASER CTR SYSTEM STUDIES.	20-69
RESEARCH ON INTEGRATED SOLAR COLLECTOR ROOF STRUCTURES. PROGRESS REPORT FOR THE PERIOD APRIL 1 TO JUNE 30, 1974.	12-6	NUMERICAL STUDIES OF LASER INDUCED SPALL IN ALUMINUM.	20-86
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES.	13-14	NEUTRON FLUX SPECTRA AT LAMP FOR CTR RADIATION DAMAGE STUDIES.	22-32
STUDENTIZED DISTRIBUTION OF AN ARBITRARY STUDENTIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18	STAT'S REPORT ON IRRADIATION STUDIES OF MOLYBDENUM-40 V.O. URANIUM DIOXIDE CERMET FUEL.	28-20
STUDIED TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113	HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.	28-4
STUDIES MONTE CARLO STUDIES OF THE SKY RADIATION AT TWILIGHT.	1-19	INTERNAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS COOLED) REACTOR SAFETY STUDIES.	28-6
STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-108	STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES.	30-55
DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 3 MV VAN DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES.	5-20	SU DIRECT USE OF YOUNG 'TABLEAU' ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF SU(2).	21-16
EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	5-40	MULTIPLICITY REDUCTION THEOREM: SU(3) CONTAINS R(3).	21-33

SUB R MATRIX ANALYSIS OF PROTON-HELIUM-1 ELASTIC SCATTERING BELOW E SUB EQUALS 10.5 MEV	25-36	SUPERCOMPRESSION LASER-DRIVEN SUPERCOMPRESSION OF SHELLS	20-50
SUBX LS SUBX-OPERATOR METHOD IN TRANSPORT THEORY	24-4	SUPERCONDUCTING METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH	8-20
SUBRIBOSOMAL SUBRIBOSOMAL PARTICLES OF CULTURED CHINESE HAMSTER CELLS. RELATIONSHIP BETWEEN RNA AND PROTEIN COMPONENTS	5-100	PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974.	8-25
SUBNANOSECOND GENERATION OF SUBNANOSECOND CARBON DIOXIDE LASER PULSES AT 10.6 MICRONS BY PULSE COMPRESSION TECHNIQUES	20-49	PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-26
SUBROUTINES SUBROUTINES CALLABLE FROM POP-11 BASIC FOR CONTROL OF A MULTICHANNEL PULSE HEIGHT ANALYZER	21-50	PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-27
SUBSPACES SOME APPROXIMATION RESULTS FOR HERMITE CURVED SURFACES.	21-51	PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	8-28
SUBSTITUTED ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA-AMINO BUTYRATE MOIETIES DERIVED FROM METHIONINE	5-59	PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973.	8-29
SUBSTORM CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS.	1-1	SUPERCONDUCTING MAGNETIC ENERGY STORAGE.	8-11
SUBSTORMS PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS	1-28	CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION.	8-4
ENERGETIC PROTONS OF MAGNETOSPHERIC ORIGIN IN THE PLASMA SHEET FOLLOWING SUBSTORMS	1-7	DEPENDENCE OF THE COBALT-DISILICIDE SUPERCONDUCTING TRANSITION ON PREPARATION.	8-5
SUBTERRENE GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRENE DEVICES: A STATUS REVIEW.	11-13	DESIGN, OPTIONS AND TRADE-OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRENE PRODUCED GLASS HOLE LININGS	13-14	DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7
APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRENE PROGRAM	11-2	LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE	11-10
SUBTERRENE ELECTRICAL HEATER DESIGN AND MORPHOLOGY	11-30	SUPERCONDUCTIVITY OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT	8-22
SUBTERRENE INSTRUMENTATION REQUIREMENTS	11-41	PROGNOSIS FOR SUPERCONDUCTIVITY IN NEPTUNIUM AND PLUTONIUM.	8-24
SUBTERRENE ROCK MELTING EXCAVATION PROGRAM.	11-32	SUPERCONDUCTIVITY OF PROTACTINIUM	8-31
CONCEPTUAL DESIGN OF A CORING SUBTERRENE GEOPHOSPECTOR.	11-4	DIRECT EVIDENCE FOR THE COEXISTENCE OF SUPERCONDUCTIVITY AND FERROMAGNETISM.	8-8
DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRENE FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS	11-5	SUPERCONDUCTORS ENERGY STORAGE AND SWITCHING WITH SUPERCONDUCTORS.	8-12
SUBTERRENES ROCK MELTING SUBTERRENES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY.	11-27	SUPERFLUID DISSIPATION IN THE FLOWING SATURATED SUPERFLUID FILM	8-10
SUBTHRESHOLD DETERMINATION OF SPINS OF INTERMEDIATE STRUCTURE RESONANCES IN SUBTHRESHOLD FISSION.	16-4	FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM.	8-13
SUBTREN SPACE-FIXED VS BODY-FIXED AXES IN ATOM-DIATOMIC MOLECULE SCATTERING: SUDDEN APPROXIMATIONS.	4-46	GRAVITATIONAL FLOW OF SUPERFLUID HELIUM THROUGH SMALL ORIFICES	8-14
SULFATE BUOYANT DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE-DEPENDENT PROPERTIES.	5-12	COMMENT ON: NEW MECHANISM OF DISSIPATION IN THE ACCELERATED FLOW OF SUPERFLUID HELIUM.	8-2
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49	SUPERHEAVY DYNAMICS OF FISSION AND FUSION WITH APPLICATIONS TO THE FORMATION OF SUPERHEAVY NUCLEI	25-38
ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-40	PRODUCTION OF SUPERHEAVY NUCLEI BY THE MULTIPLE CAPTURE OF NEUTRONS.	25-92
SULFUR SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS.	7-19	SUPERNOVA PULSAR SUPERNOVA REMNANT PAIRS AND THE GALACTIC GRAVITATIONAL FIELD.	3-24
SULPHUR THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIX) TO IRON(XXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR.	3-33	SUPERSONIC INTENSE NEUTRON SOURCE FACILITY USING A SUPERSONIC JET TARGET.	25-51
SUMMARY SUMMARY OF MOSSBAUER EVIDENCE ASSOCIATED WITH THE KONDO EFFECT.	8-32	SUPPLEMENT SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV-P CONFINEMENT STUDIES THETA PINCH.	10-100
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTRP). (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1973).	10-114	SAFETY MANUAL, I-DIVISION, LASER RESEARCH AND TECHNOLOGY. SUPPLEMENT 1. HAZARDOUS CHEMICALS: FLUORINE (F2).	17-66
PLUTONIA AERODYNAMIC DISK (PAD), SUMMARY REPORT	13-15	SHIELDED SHIPPING CONTAINER FOR FISSION MATERIAL CLASS 1 OR LARGE QUANTITIES OF RADIOACTIVE MATERIAL SUPPLEMENT.	17-69
		SUPPLY WATER SUPPLY AT LOS ALAMOS DURING 1973.	11-34

SUPPORT COMPUTER OPERATIONS FOR SUPPORT OF PION RADIOTHERAPY AT LOS ALAMOS.	5-24	SUSPENSION OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE	5-29
NONDESTRUCTIVE ASSAY OF FISSILE MATERIAL SAMPLES IN SUPPORT OF NUCLEAR SAFEGUARDS.	26-49	SUSPENSIONS EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS	5-46
SURFACE MAGNETOTAIL'S SURFACE LAYER AND THE CLEFT.	1-17	SV40 QUANTITATIVE IMMUNOFLOURESCENCE MEASUREMENTS OF SV40 T ANTIGEN PRODUCTION	5-55
OBSERVATIONS OF THE MAGNETOTAIL SURFACE LAYER WITH THE VELA SATELLITES.	1-23	SWITCH METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH	5-29
CHAIRMAN'S CLOSING REMARKS, SESSION V: THE CELL SURFACE	5-18	DEVELOPMENT OF A HIGH EXPLOSIVE DRIVEN CROWBAR SWITCH	10-12
CHAIRMAN'S REMARKS, SESSION V: THE CELL SURFACE.	5-19	SWITCHING ENERGY STORAGE AND SWITCHING WITH SUPERCONDUCTORS	5-42
FLOW MICROFLUOROMETRIC STUDIES OF LECTIN BINDING TO MAMMALIAN CELLS. 2. ESTIMATION OF THE SURFACE DENSITY OF RECEPTOR SITES BY MULTIPARAMETER ANALYSIS.	5-47	DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	5-6
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49	RAPID SPIN STATE SWITCHING IN A LAMB SHIFT POLARIZED ION SOURCE	27-31
ISOLATION OF NATIVE CELL SURFACE HEPARAN SULFATE FROM CULTURED CELLS.	5-49	SYMMETRIC EQUILIBRIUM AND STABILITY OF LINEARLY HELD ALPHA SYMMETRIC FINITE BETA DIFFUSE PLASMAS	10-1
OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE	5-29	FUNCTIONALS ADDITIVE ON A SYMMETRIC SET	11-1
EXPERIMENTAL AND COMPUTER SIMULATED STUDIES OF CHANGING SURFACE MORPHOLOGY DURING FREE EVAPORATION.	9-8	SYMMETRY SYMMETRY AND STABILITY OF LASER INDUCED IMPLSIONS	20-11
SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR).	10-101	SYMMETRY OF LASER DRIVEN IMPLSIONS	20-14
FREE SURFACE ACCELERATION BY SHOCKS OF MODERATE STRENGTH	15-2	ABLATION SYMMETRY OF LASER INDUCED IMPLSIONS	20-1
MODIFIED DEFINITION OF THE SURFACE ENERGY IN THE LIQUID DROP FORMULA.	16-21	SYMPOSIUM ENGINEERING PROBLEMS OF FUSION RESEARCH: REPORT ON THE FIFTH SYMPOSIUM HELD AT PRINCETON, N.J., 3-9 NOVEMBER 1975	10-1
EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE.	18-9	PRACTICAL APPLICATIONS OF ACCELERATORS: 10 ⁶ SYMPOSIUM LOS ALAMOS, NM. PROCEEDINGS	11-1
STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS.	20-127	SYNCHRONIZED SYNTHESIS OF HETEROGENEOUS NUCLEAR INFORMOSOMAL MESSENGER LIKE AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS	11-9
SURFACE WAVE ABSORPTION.	20-131	EFFECTS OF IONIZING RADIATION ON RNA METABOLISM IN CULTURED MAMMALIAN CELLS. 2. PATTERNS OF PRECURSOR INCORPORATION INTO MESSENGER RELATED RNAs OF EXPONENTIALLY GROWING AND SYNCHRONIZED POPULATIONS	11-5
PORTABLE RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES.	26-25	OBSERVATIONS OF THE SURFACE OF SYNCHRONIZED CHINESE HAMSTER OVARY CELLS IN SUSPENSION CULTURE	11-9
SURFACES ARSENIC (0001) SURFACES: AUGER, LOSS AND PHOTOELECTRON SPECTROSCOPIC STUDIES.	9-1	SYNTHESES REDUCTIVE FLUORIDE ELIMINATION SYNTHESES OF TRANSITION METAL FLUORIDES: SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE	11-1
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE (APPROXIMATELY 110) VICINAL SURFACES.	9-11	SYNTHESES WITH STABLE ISOTOPES: ACETYLENE CARBON 13C2 AND LITHIUM ACETYLIDE CARBON 13C2 ETHYLENEDIAMINE COMPLEX	11-16
ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (0001) VICINAL SURFACES.	9-14	SYNTHESES WITH STABLE ISOTOPES: PYRIDINE NITROGEN 15N	11-17
MODEL FOR PREDICTING THE REDISTRIBUTION OF PARTICULATE CONTAMINANTS FROM SOIL SURFACES.	17-28	SYNTHESIS SYNTHESIS OF HETEROGENEOUS NUCLEAR INFORMOSOMAL MESSENGER LIKE AND POLYSOMAL MESSENGER RNA IN SYNCHRONIZED CHINESE HAMSTER CELLS	11-10
SURFACES OF REVOLUTION WITH VARIOUS NORMAL INTERSECTION PROPERTIES.	21-37	INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO AN IRRADIATED DNA	11-4
POTENTIAL ENERGY SURFACES FOR HEAVY ION COLLISIONS	25-91	INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS	11-6
SURGICALLY BIOLOGICAL RESPONSE TO SMALL DISCRETE HIGHLY RADIOACTIVE SOURCES 3. EFFECTS OF SURGICALLY IMPLANTED PLUTONIUM 238 DIOXIDE AND PLUTONIUM 239 DIOXIDE MICROSPHERES IN BEAGLES.	5-10	METABOLISM OF HISTONE FRACTIONS 7. PHOSPHORYLATION AND SYNTHESIS OF HISTONES IN LATE G1 ARREST	11-11
SURVEILLANCE PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA- AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLID ION.	2-14	REDUCTIVE FLUORIDE ELIMINATION SYNTHESES OF TRANSITION METAL FLUORIDES: SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	11-1
RECENT DEVELOPMENTS IN DISEASE SURVEILLANCE METHODS FOR POULTRY.	5-100	SYNTHESIS WITH STABLE ISOTOPES: METHANOL CARBON 13, METHANOL CARBON 13-D1 AND METHANOL CARBON 12	11-18
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1975	17-39	SYNTHESIS, STRUCTURE, AND PROPERTIES OF SOME ORGANOMETALLIC SULFUR CLUSTER COMPOUNDS	11-19
BIOLOGICAL TRANSFER PROCESSES IN ENVIRONMENTAL SURVEILLANCE.	17-5		
SURVEY SURVEY OF A 210 KJ DENSE PLASMA FOCUS (DPF 6).	10-102		
SURVEY OF LASER INITIATED FUSION RESEARCH.	20-132		
SUSCEPTIBILITY LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE.	1-12		

CHEMICAL SYNTHESIS AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF ADENOSYLCYTOBIALAMIN SELECTIVELY ENRICHED WITH CARBON-13	14-2	R MATRIX ANALYSIS OF THE OXYGEN-17 SYSTEM: VERSION IV OF ENDF/B	25-98
SYNTHESIS OF 3,3',5,5'-TETRANITRO-3,2'-AZOPYRIDINE AND SOME PIRYLAZO DERIVATIVES OF 3,5-DINITROPYRIDINE	15-12	ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM	26-2
PROCESS DEVELOPMENT STUDIES ON 1,5-DIACETYL-3,7-DINITRO-1,3,5,7-TETRAAZACYCLOOCTANE (DADO), AN INTERMEDIATE IN A NEW SYNTHESIS OF HMX	15-6	ERROR ANALYSIS OF A CALIFORNIUM-252 FUEL ROD ASSAY SYSTEM	26-7
SYNTHETIC RIGID DENSITIES OF NATURAL AND SYNTHETIC DNAs IN CESIUM CHLORIDE AND CESIUM SULFATE CONSIDERED AS SEQUENCE DEPENDENT PROPERTIES	5-12	APPLYING THE METRIC SYSTEM TO WELDING	30-4
SYSTEM ULTRAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM	1-10	SYSTEMS PORTABLE FLASH X-RAY SYSTEMS: TECHNIQUES AND APPLICATIONS	2-13
ITIH'S MODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM	3-34	SEMIANNUAL REPORT: SEROLOGIC TEST SYSTEMS DEVELOPMENT JULY THROUGH DECEMBER 1973	5-108
UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION	1-17	THEORY OF PRECIPITATION AND AGGLOMERATION REACTIONS IN IMMUNOLOGICAL SYSTEMS	5-112
DELTA V = 0 AND +1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF PROPYNE CYANIDE	4-8	CELL PREPARATION AND STAINING FOR FLOW SYSTEMS	5-17
METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH	8-20	MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE(2) AND IODINE + IODINE(2) SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS	6-10
COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS	8-1	THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (C* + METHANE) AND (C* + DEUTERIOMETHANE) SYSTEMS	6-16
THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES	9-18	THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (C* + METHANE) AND (C* + DEUTERIOMETHANE) SYSTEMS	6-16
SYLLIAC FEEDBACK STABILIZATION SYSTEM	10-86	COMPUTER MOVIE OF THE REACTION DYNAMICS OF THE HOT ATOM (C* + METHANE) AND (C* + DEUTERIOMETHANE) SYSTEMS	6-4
SYLLIAC MICRO-MAGNETOHYDRODYNAMIC FEEDBACK SYSTEM	10-87	ILLUSTRATION OF REACTION MECHANISM IN POLYATOMIC SYSTEMS VIA COMPUTER MOVIES	6-6
COMPARATIVE ANALYSIS OF LITHIUM BROMIDE ABSORPTION REFRIGERATION AND SOLAR RANKINE COOLING SYSTEM OPTIONS FOR A 6000-SQ-M AREA FOOT BUILDING IN LOS ALAMOS, NEW MEXICO	12-1	FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER	7-6
CONTROL SYSTEM DESIGN AND SIMULATION FOR SOLAR HEATED STRUCTURES	12-2	ON DIVALENT AMERCIUM IN MOLTEN SALT-MOLTEN PLUTONIUM SYSTEMS	7-7
BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES	13-1	LASER FUSION POWER PLANT SYSTEMS ANALYSIS	10-53
OVERVIEW OF A COMPREHENSIVE COMPUTERIZED PROJECT COST AND SCHEDULE EVALUATION SYSTEM	13-1	PREDICTION OF FAILURES IN CTR SYSTEMS	10-77
USE OF OPTICAL PROFILOMETER SYSTEM AT LASI	13-21	REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS	10-8
FISSION GAS AND VOID VOLUME MEASURING SYSTEM	13-24	STABILITY OF DIFFUSE HIGH BETA HELICAL SYSTEMS	10-26
ELECTRONIC MODULES DEVELOPED FOR A GAMMA RAY BARREL SCANNING SYSTEM	13-33	MODELING AND HYBRID SIMULATION OF SOLAR ENERGY SYSTEMS	12-5
HIGH EFFICIENCY NEUTRON DETECTION SYSTEM FOR PHOTOREACTION STUDIES	13-37	COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES	13-2
OPTICAL PERFORMANCE AND ANALYSIS OF A HIGH ENERGY SHORT PULSE CARBON DIOXIDE LASER SYSTEM	20-100	DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY	17-13
COMPUTATIONAL LASER SYSTEM STUDIES	20-23	DISSOLUTION OF PLUTONIUM-238 IN ENVIRONMENTAL AND BIOLOGICAL SYSTEMS	17-16
HIGH ENERGY AMPLIFIERS FOR THE LAST GLASS LASER SYSTEM	20-31	TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK HEPA FILTER SYSTEMS	17-74
HIGH ENERGY SHORT PULSE CARBON DIOXIDE LASER SYSTEM	20-5	SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-120
HIGH POWER NEODYMIUM GLASS LASER SYSTEM FOR FUSION RESEARCH	20-53	SOFT APERTURES FOR REDUCING DAMAGE IN HIGH POWER LASER AMPLIFIER SYSTEMS	20-121
LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES	20-68	WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS	20-147
LASER CUT SYSTEM STUDIES	20-69	ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT, PART 2: PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH ENERGY SYSTEMS	20-17
COMPUTERIZED INVENTORY DESIGN SYSTEM FOR GRAPHITE MOLDS	21-10	MULTISIDED ELECTRON BEAM EXCITED ELECTRICALLY PUMPED GAS LASER SYSTEMS	20-88
INTERACTIVE GRAPHICS SYSTEM FOR MECHANICAL DRAFTING AND DESIGN	21-28	CAMAC SERIAL SYSTEMS DESCRIPTION FOR LONG LINE, MULTIRATE APPLICATIONS	21-7
IDENTIFYING MOMENTUM SENSITIVE DETECTOR SYSTEM FOR NEGATIVE PIONS	22-20	RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	23-100
PRESSURE DEPENDENCE OF T ₀₂ IN THE OXYGEN-TITANIUM CARBIDE SYSTEM	23-75	SEPARABILITY IN DIRECTLY INTERACTING RELATIVISTIC PARTICLE SYSTEMS	23-106
R MATRIX ANALYSIS OF THE N-10-BORON-10 SYSTEM AT LOW ENERGIES	25-97	ANALYSIS OF PELLET-TO-PELLET DATA FROM NUCLEAR REACTOR FUEL ROD SCANNING SYSTEMS	26-1
		KIWI-B-B CONTROL SYSTEMS, TEST CELL A	30-18
		NUCLEAR PULSED PROPULSION SYSTEMS	30-26

APPROACH TO ENERGY SYSTEMS ANALYSIS AND CONSERVATION	40	INTENSE NEUTRON SOURCE FACILITY USING A SUPERNOVIE DET. TARGET	10
THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN + METHANE NUCLEAR PROPELLANT SYSTEMS	20	TARGETS	10
THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS + CHEMISTRY OF THE HOT ATOM $C^{12} + \text{METHANE}$ AND $C^{12} +$ DEUTERIOMETHANE SYSTEMS	6-10	THIN METAL WINDOWS FOR GAS TARGETS	10-11
THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS + CHEMISTRY OF THE HOT ATOM $C^{12} + \text{METHANE}$ AND $C^{12} +$ DEUTERIOMETHANE SYSTEMS	6-10	PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED CARBON M PENETRATORS FIRED AGAINST ARMOR PLATE TARGETS	11
COMPUTER MODEL OF THE REACTION DYNAMICS OF THE HOT ATOM $C^{12} +$ METHANE AND $C^{12} +$ DEUTERIOMETHANE SYSTEMS	6-11	FLUCTUATIONS OF LASER-INDUCED SPALL IN ALUMINUM TARGETS	10-11
COMPUTER MODEL OF THE REACTION DYNAMICS OF THE HOT ATOM $C^{12} +$ METHANE AND $C^{12} +$ DEUTERIOMETHANE SYSTEMS	6-11	TAYLOR	15
DOUBLY FIRST ORDER WAVE EQUATIONS $\nabla^2 \psi = P$ AND $\nabla^2 \psi = Q$	1	TAYLOR INSTABILITY IN SOLIDS	15
RELEVANCE OF SOME RECENT NEUTRON - PHOTON POLARIZATION DATA TO NUCLEAR AT INTERMEDIATE ENERGIES	10-11	TWO FREQUENCY NONLINEAR TAYLOR INSTABILITY	15-17
PRESSURE DEPENDENCE OF LOG IN THE OXYTHORIUM CARBIDE SYSTEM	10-12	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
OXYGEN - NEUTRON FLUENCE - NITROGEN - REACTION AND THE LOW CUTTING LEVELS OF MASS NO.	10-18	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
QUANTITATIVE IMMUNOFLOURESCENCE MEASUREMENTS OF SUBCELLULAR PRODUCTION	10-19	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATION FOR THE FILL OF SHELL TWO NEUTRON MATRIX	10-20	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TEST FOR EVAPORATION IN NEUTRON - NEUTRON SCATTERING	10-21	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TIME AND OVER VARIATIONS OF MINUTES OF POLYTOXIC ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS C^{12}	10-22	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLE	11	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLE OF CALCULATED NUCLEAR PROPERTIES	11	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLEAU	11-12	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLEAU DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CIRCUIT COEFFICIENTS OF $SU(2)$	11-12	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLES	11-13	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
BOOK REVIEW BROMETRY TABLES FOR STATISTICIANS VOL. 1 BY F. S. PEARSON AND H. G. HARTLEY	11-13	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLEAU	11-14	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
GENERAL PURPOSE COMPUTER PROGRAM FOR MANIPULATING AND ANALYZING TABLEAU DATA	11-15	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLEAU	11-16	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TACTICAL NUCLEAR WEAPONS OBJECTIVES AND CONSTRAINTS	11-17	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
COMPUTER SIMULATION OF TACTICAL NUCLEAR WEAPONS	11-18	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TABLEAU	11-19	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
PROPOSED TABLEAU FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT RIGUALS APPROXIMATELY 10 EARTH RADII DURING STORMS	11-20	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TAMPED	11-21	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TAMPED THERMONUCLEAR BURN OF DEUTERIUM - TITANIUM MICROSPHERES	11-22	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TANTALUM	11-23	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
IRON - 57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM NIOBIUM MAGNETIC TANTALUM AND TUNGSTEN	11-24	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TARGET	11-25	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
PROTOTYPE TESTS ON A 300 WATT FORCED CONVECTION LIQUID HYDROGEN DEUTERIUM TARGET	11-26	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TARGET COMPRESSION WITH ONE BEAM	11-27	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET	11-28	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS	11-29	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
LASER - TARGET INTERACTIONS	11-30	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
HIT A MONTE CARLO TARGET COVERAGE ROUTINE	11-31	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17
LIQUID HELIUM - II TARGET FOR PRECISION MEASUREMENTS OF PION CROSS SECTIONS	11-32	BOOK REVIEW THE CURVE OF BINDING ENERGY BY J. AMPORE AND NUCLEAR THEFT RISKS AND SAFEGUARDS BY M. WILLERBAND AND J. R. TAYLOR	15-17

PROGRESS REPORT USAE DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER THROUGH DECEMBER 31, 1973	8-29	HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES	28-4
HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLUSION HEATING EXPERIMENT	10-4	HIGH TEMPERATURE NUCLEAR REACTORS AS AN ENERGY SOURCE FOR HYDROGEN PRODUCTION	28-7
GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SILICONE DEVICES: A STATUS REVIEW	13-1	INTEGRAL EXPERIMENT DATA FOR HTGR (HIGH TEMPERATURE GAS-COOLED REACTOR) SAFETY STUDIES	28-6
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW EXCAVATION TECHNOLOGY	13-3	OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES	28-8
APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SILICONE PROGRAM	13-2	TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TITANATE	29
ROCK MELTING SUBSTITUTES: THEIR ROLE IN FUTURE EXCAVATION TECHNOLOGY	13-7	NOTES ON POWER, FLOW RATE, AND TEMPERATURE PROGRAMMING FOR KIWI REACTORS	30-25
SAFETY MANUAL 1, DIVISION LASER RESEARCH AND TECHNOLOGY SUPPLEMENT 1: HAZARDOUS CHEMICALS: FLUORINE (F ₂)	17-66	TEMPERATURES MELTING PRESSURE OF HELIUM-3 AT VERY LOW TEMPERATURES	30-4
QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING APRIL 30, 1967, PART 2	28-33	THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES	30-18
QUARTERLY STATUS REPORT ON ADVANCED REACTOR TECHNOLOGY (ART) FOR PERIOD ENDING JANUARY 31, 1967, PART 1	28-13	TEMPORAL TEMPORAL OBSERVATIONS OF THE LAMBDA 500 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 DUNE 1975 TOTAL SOLAR ECLIPSE: PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	30-32
APPLICATION OF TECHNOLOGY FROM THE ROVER PROGRAM AND RELATED DEVELOPMENTS	30-3	TENSILE TENSILE FATIGUE BEHAVIOR OF MOLYBDENUM AT 1150 DEGREES KELVIN	30-34
TELLURIDE EXTENSION RATIOS OF GALLIUM ARSENIDE AND CADMIUM TELLURIDE ELECTROOPTICAL MODULATORS	30-13	TENSOR VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN (DEUTERON, DEUTERON) HYDROGEN-3 ELASTIC SCATTERING AT 11.4 AND 13.4 MEV	30-12
TEMPERATURE SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	31-29	TERRESTRIAL INTERACTION OF PLUTONIUM-238 DIOXIDE HEAT SOURCES WITH SIMULATED TERRESTRIAL ENVIRONMENTS	31-26
SOLAR WIND HELIUM-3 TO HYDROGEN-1 TEMPERATURE RATIO	31-1	TEST PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION	31-14
QUIET CORONA TEMPERATURE AND TEMPERATURE GRADIENT	31-20	SEMIANNUAL REPORT: SEROLOGIC TEST SYSTEMS DEVELOPMENT: JULY THROUGH DECEMBER 1973	31-104
QUIET CORONA TEMPERATURE AND TEMPERATURE GRADIENT	31-20	THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE	31-106
EQUATION OF STATE FOR SOLIUM OVER AN EXTENDED TEMPERATURE AND DENSITY RANGE	31-6	THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE	31-106
LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE	31-32	MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTR)	31-55
ANAL REPORT: ELECTRONIC IDENTIFICATION AND TEMPERATURE MONITORING: JULY 1, 1973, THROUGH JUNE 30, 1974	31-4	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE	31-82
ELECTRONIC ANIMAL IDENTIFICATION AND TEMPERATURE MONITORING	31-41	SHOCK HEATING AND STAGING CIRCUIT FOR FTR (FUSION TEST REACTOR) TEST MODULE	31-92
CALIBRATED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEAR TIME REVERSAL AND PARITY EXPERIMENTS	31-8	VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER	31-11
SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM-3IN IN THE TEMPERATURE RANGE 4 TO 175 DEGREES KELVIN	31-31	INSTRUMENTATION FOR GRANITE TEST NO. 1	31-17
LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIOXIDE	31-12	INSTRUMENTATION FOR GRANITE TEST NO. 1	31-18
TEMPERATURE MEASUREMENTS ON ZrTi	31-104	GEOLOGY OF GEOTHERMAL TEST HOLE GT-2, FENTON HILL SITE: JULY 1974	31-9
EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO-STREAM INSTABILITY	31-13	LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING DC TRANSMISSION LINE	31-10
EQUILIBRIUM TEMPERATURE MEASUREMENTS IN CRYSTALLINE ROCKS	31-7	SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST: PHASE 1: LOW VELOCITY (HSA (HEAT SOURCE ASSEMBLY) IMPACT)	31-67
CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS	31-3	SAFETY TEST NO. S-6 LAUNCH PAD ABORT SEQUENTIAL TEST: PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT	31-67
IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM	31-13	SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U.S. ADULT FACIAL SIZES	31-68
LIQUID PHASE SINTERING OF TUNGSTEN-NICKEL-IRON IN A TEMPERATURE GRADIENT	31-15	SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST	31-70
THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS, WITH OR WITHOUT IRRADIATION DAMAGE	31-36	TEST METHODS AND EFFICIENCY STUDIES ON MULTI-BANK DEPA FILTER SYSTEMS	31-74
NDA (NONDESTRUCTIVE ANALYSIS) OF HTGR (HIGH TEMPERATURE GAS COOLED REACTOR) FUEL USING THE RANDOM DRIVER	31-17	TEST PROBLEMS FOR HYDROCODES	31-28
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF ANISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES	31-19	HYPERTRITON AS A TEST OF THEORETICAL HYPERON-NUCLEON POTENTIALS	31-19
SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL	31-18	IRRADIATION TEST OF SOME MAGNET COMPONENTS OF THE LAMPF LINEAR ACCELERATOR	31-22

TEST FOR T-VIOLATION IN NUCLEON - NUCLEON SCATTERING.	25-114	THEORETICAL AND EXPERIMENTAL STUDY OF (IRONXXIX) TO (IRONXXIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR	1-11
TEST OF PARITY CONSERVATION IN PROTON -PHOTON SCATTERING	25-115	THEORETICAL CALCULATION OF ATOMIC SPIN ORBIT PARAMETERS	1-19
TEST OF PARITY CONSERVATION IN PROTON -PROTON SCATTERING.	25-116	EXPERIMENTAL AND THEORETICAL LIGHT SCATTERING STUDIES ON SUSPENSIONS OF RED BLOOD CELL GHOSTS.	1-16
TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY.	25-117	THEORETICAL INVESTIGATIONS OF THE REACTION DYNAMICS OF POLYATOMIC SYSTEMS: CHEMISTRY OF THE HOT ATOM (C* + METHANE) AND (C* + DEUTEROMETHANE) SYSTEMS.	6-16
KIWI B-18 CONTROL SYSTEMS. TEST CELL A.	30-18	IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS	9-9
TESTIMONY GEOTHERMAL ENERGY (TESTIMONY)	11-10	HYPERTRITON AS A TEST OF THEORETICAL HYPERON - NUCLEON POTENTIALS	22-19
TESTING DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	12-3	SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950	30-18
APPLICATION OF SHIELDING BENCHMARK EXPERIMENTS TO THE TESTING OF NUCLEAR DATA. CALCULATIONAL METHODS AND PROCEDURES	25-10	THEORETICAL SPECIFIC IMPULSES OF HYDROGEN AND HYDROGEN - METHANE NUCLEAR PROPELLANT SYSTEMS	30-17
TESTS PROTOTYPE TESTS ON A 300 WATT FORCED CONVECTION LIQUID HYDROGEN-DEUTERIUM TARGET	8-30	THEORIES RENORMALIZED BRUECKNER-HARTREE-FOCK AND DENSITY DEPENDENT HARTREE-FOCK THEORIES OF FINITE NUCLEI	21-101
CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION	8-4	COMPARISON OF THE EXPERIMENTAL CROSS SECTION FOR KRYPTON (+ +) + NEON TO KRYPTON (+ +) + NEON (+ +) WITH SOME SIMPLE THEORIES	21-27
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES	11-14	THEORY RELATIVISTIC TERMS IN NONLINEAR PULSATION THEORY	1-28
INTEGRAL TESTS OF FISSION PRODUCT DATA FILES.	16-19	PHYSICAL EXAMPLE OF THE HEDENHARN-GAMBA THEORY OF LEVEL SPLITTINGS.	1-39
EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20	THEORY OF ELECTRON CORRELATION IN METALS	1-50
DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -190, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	THEORY OF ELECTRON INTERACTION IN METALS	1-51
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5	ZERO ORDER PSEUDOATOMS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY.	1-60
TETRABORIDE EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.	21-7	THEORY OF PRECIPITATION AND AGGLOUTINATION REACTIONS IN IMMUNOLOGICAL SYSTEMS	5-117
EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.	21-7	IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN - 1 THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-11
FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.	21-9	HYDRODYNAMIC THEORY CORRELATION FOR 72 HELIUM EVAPORATORS	8-16
TETRABORIDES FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM	21-9	MEAN FIELD THEORY OF SOME MAGNETIZED ANTIFERROMAGNETS	8-18
TETRACHLORIDE INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	1-28	THEORY OF A MAGNETIC COOLING SYSTEM AT VERY LOW TEMPERATURES	9-18
LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE.	1-32	THEORY AND SIMULATION OF HIGHER ORDER CYCLOTRON DAMPING	10-105
TETRACYANIDE POTENTIAL CONSTANTS OF THE TETRACYANIDE IONS OF NICKEL, PALLADIUM, AND PLATINUM.	1-40	PRESENT STATUS OF NUCLEAR FISSION THEORY	16-26
TETRAFLUORIDE REDUCTIVE FLUORIDE ELIMINATION SYNTHESSES OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE	7-14	CALCULATION OF IONIZATION IN HYDRODYNAMIC CODES - 1 THEORY	18-1
TETRAFLUORIDES GAS PHASE COMPOSITION AND STRUCTURE OF METAL OXIDE TETRAFLUORIDES.	1-21	APPROXIMATE SPHERICAL BLAST THEORY AND LASER INITIATED PELLET MICROEXPLOSIONS	20-12
TETRANITRO SYNTHESIS OF 3,4,5,6-TETRANITRO-2,2'-AZOPYRIDINE AND SOME PHTHALAZO DERIVATIVES OF 3,5-DINITROPYRIDINE.	15-12	APPROXIMATE SPHERICAL BLAST THEORY WITH SOLID MASS	20-13
THEFT BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-3	THEORY OF DRIFT CONE MODES OF COLLISIONLESS PLASMA IN CYLINDRICAL GEOMETRY.	20-17
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHEE, AND NUCLEAR THEFT RISKS AND SAFEGUARDS, BY M. WILLRICH AND T. B. TAYLOR.	26-4	KINETIC THEORY OF THE ARGON ION LASER DISCHARGE.	20-61
THEOREM GENERALIZED PYTHAGOREAN THEOREM.	21-26	LINEAR THEORY OF A COLD RELATIVISTIC BEAM PROPAGATING ALONG A MAGNETIC FIELD.	20-78
MULTIPLICITY REDUCTION THEOREM: SU(3) CONTAINS SO(3).	21-33	LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79
		THEORY OF PION SCATTERING BY NUCLEI II	22-57
		NEW THEORY FOR IMPURITY DIFFUSION IN METALS.	21-22
		ON THE THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS.	21-23
		THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS	21-25

THEORY OF HIGH TEMPERATURE INTERCRYSTALLINE FRACTURE UNDER STATIC OR FATIGUE LOADS WITH OR WITHOUT IRRADIATION DAMAGE	23-36
THEORY OF SOLUTE CLUSTERING IN BINARY ALLOYS	23-37
LS SUBSONIC OPERATOR METHOD IN TRANSPORT THEORY	24-4
MODELS BASED ON MULTICHANNEL R-MATRIX THEORY FOR EVALUATING LIGHT ELEMENT REACTIONS	25-70
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY	27-16
ELECTRIC CONDUCTIVITY AND LINEAR RESPONSE THEORY: A NUMERICAL EXPERIMENT	27-5
QUARTERLY REPORT: TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974	28-13
QUARTERLY REPORT: TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY, JULY 1 THROUGH SEPTEMBER 30, 1974	28-13
THERAPEUTIC RADIATION PROGRAM LEADING TO THERAPEUTIC TRIALS	3-11
THERAPY: MESON FACTORIES, PION MESON DELIVERY, AND PION MESON DOSIMETRY FOR CANCER THERAPY	5-69
THERMAL UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION	6-19
LOW TEMPERATURE THERMAL EXPANSION OF MANGANESE DIOXIDE	9-12
SENSITIVITY OF NEUTRON MULTIGROUP CROSS SECTIONS TO THERMAL BROADENING OF THE FUSION PEAK	10-80
HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS	11-14
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR	11-21
VISCOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS	11-33
INVARIANT DECOMPOSITION OF THE EQUATIONS GOVERNING HYDRODYNAMIC FLOW AND THERMAL CONDUCTIVITY	16-13
CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS	19-1
ANOMALOUS THERMAL CONDUCTIVITY PRODUCED BY ELECTRON SCATTERING OFF OF ION DENSITY FLUCTUATION	1-110
PLASMA INSTABILITIES IN THE PRESENCE OF A LARGE THERMAL FLUX	20-107
EVIDENCE OF ANOMALOUSLY REDUCED ELECTRON THERMAL CONDUCTION IN LASER PRODUCED PLASMAS	20-41
INDICATIONS OF STRONGLY FLUX LIMITED ELECTRON THERMAL CONDUCTION IN LASER TARGET EXPERIMENTS	20-56
MEASUREMENT OF THE THERMAL EXPANSION AND DYNAMIC ENERGY RESPONSE IN HAFNIA-TITANIA COMPOSITIONS	24-16
TSAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES	27-19
THERMOCHEMICAL QUARTERLY REPORT: THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, JANUARY 1 THROUGH MARCH 31, 1974	7-10
FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER	7-6
QUARTERLY REPORT: THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER, APRIL 1 THROUGH JUNE 30, 1974	7-9
THERMOCOUPLE EXIT GAS THERMOCOUPLE RESPONSE IN KIWI REACTORS	30-12
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING APRIL 30, 1983	30-36
QUARTERLY STATUS REPORT OF THE LASL PLASMA THERMOCOUPLE DEVELOPMENT PROGRAM FOR PERIOD ENDING JANUARY 30, 1983	30-37
THERMODYNAMIC THERMODYNAMIC PROPERTIES OF ACTINIDE CARBIDES	7-20
THERMODYNAMICS STATISTICAL THERMODYNAMICS OF OLIGOMER-POLYMER INTERACTIONS	5-107
THERMOELECTRIC SNAP 19/VIKING RTG (RADIOISOTOPE THERMOELECTRIC GENERATOR) SOLID PROPELLANT FIRE TEST	17-70
THERMONUCLEAR PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS	10-69
CONCEPTUAL LASER CONTROLLED THERMONUCLEAR REACTOR POWER PLANT	10-7
PHYSICS PROBLEMS OF THERMONUCLEAR REACTORS	10-70
PROGRESS REPORT: LASL CONTROLLED THERMONUCLEAR RESEARCH PROGRAM FOR A 12 MONTH PERIOD ENDING DECEMBER 1973	10-79
TAMPED THERMONUCLEAR BURN OF DEUTERIUM-TRITIUM MICROSPHERES	20-135
THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM-TRITIUM MICROSPHERES	20-138
THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM-TRITIUM SPHERES	20-139
ENGINEERING DESIGN CONSIDERATIONS FOR LASER CONTROLLED THERMONUCLEAR REACTORS	20-40
LASER CONTROLLED THERMONUCLEAR REACTOR DESIGN PROBLEMS	20-66
LASER CONTROLLED THERMONUCLEAR REACTOR MATERIALS REQUIREMENTS	20-67
LASER CONTROLLED THERMONUCLEAR REACTOR SYSTEM STUDIES	20-68
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION	20-81
SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950	20-48
THETA SUPPLEMENT TO PROPOSAL FOR THE CONSTRUCTION OF A SCYLLA IV P CONFINEMENT STUDIES THETA PINCH	10-100
SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR)	10-102
TECHNICAL ASSESSMENT OF A REFERENCE THETA PINCH REACTOR (RTPR)	10-103
THETA PINCH FTR (FUSION TEST REACTOR) TEST MODULE	10-106
DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT	10-11
TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR)	10-111
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR): A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1970	10-114
VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH	10-115
VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH	10-116
ELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS	10-13
EFFECT OF BERYLLIUM (X-2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS	10-14
ELECTRICAL INSULATOR STUDIES FOR THE THETA PINCH FUSION REACTOR	10-17
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR)	10-19
ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR): A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION	10-20
ENVIRONMENTAL IMPACT STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR)	10-22
ERGONIC OPTIMIZATION AND PARAMETER STUDY OF THE RTPR (REFERENCE THETA PINCH REACTOR) BURN CYCLE	10-25
ESTIMATION OF LASER-PLASMA INTERACTIONS IN THE SCYLLA-1C THETA PINCH	10-26

EVALUATION OF MAJOR MATERIAL PROBLEMS ANTICIPATED FOR THE REFERENCE THETA PINCH REACTOR (RTPR)	10-27	THORIUM DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6
EXPERIMENTS IN THE STAGED THETA PINCH EXPERIMENT.	10-28		
FIRST WALL FLAVES IN A THETA PINCH FEASIBILITY/DETERIUM THORIUM EXPERIMENT.	10-31	DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6
FUSION REACTOR APPLICATIONS OF THE HIGH DENSITY LINEAR THETA PINCH	10-35	PROSPECTS FOR CONVERTING THORIUM -232 URANIUM -235 IN A LINEAR THETA PINCH.	10-81
HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39	PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27
BONDARENKO FORMALISM APPLIED TO THETA PINCH REACTOR NUCLEONICS.	10-4	PRESSURE DEPENDENCE OF T _{CC} IN THE YTTRIUM-THORIUM CARBIDE SYSTEM.	24-25
ROLE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49	THRESHOLDS DAMAGE THRESHOLDS AT 10.6 MICRONS FOR SODIUM CHLORIDE AND POTASSIUM CHLORIDE.	20-27
MEASUREMENTS OF PLASMA DENSITY DISTRIBUTION AND CURRENT SHEATH STRUCTURE IN THE IMPLOSION PHASE OF A THETA PINCH DISCHARGE	10-58	THROUGHOUT NUCLEAR EXPLOSION 16 JULY 1945. HEALTH PHYSICS REPORT ON RADIOACTIVE CONTAMINATION THROUGHOUT NEW MEXICO FOLLOWING THE NUCLEAR EXPLOSION.	17-39
MINI-D SNOWTLOW BOUNCE MODEL FOR SHOCK HEATING IN A STAGED THETA PINCH	10-60	THRUSTER FLIGHT QUALIFIED PULSED ELECTRIC THRUSTER FOR SATELLITE CONTROL.	30-13
NUMERICAL STUDY OF THE ROTATING THETA PINCH.	10-62		
PARAMETER STUDY OF THETA PINCH PLASMA PHYSICS REACTOR EXPERIMENT.	10-66	THULIUM SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM -169 AND LUTETIUM -175 GAMMA RAYS.	25-105
PLASMA EXPERIMENTS ON THE LINEAR SCYLLAC THETA PINCH.	10-73	DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -180, LUTETIUM -175, AND TUNGSTEN -184.	25-36
PROSPECTS FOR CONVERTING THORIUM -232 URANIUM -235 IN A LINEAR THETA PINCH.	10-81	GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	27-5
RADIAL PLASMA STRUCTURE OF THE SCYLLAC THETA PINCH IMPLOSION: FLUTE INSTABILITIES.	10-82	THYMIDINE MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-47
SCALING LAWS FOR THE LINEAR THETA PINCH. 2. CIRCULATING POWER IN A HIGH FIELD REACTOR.	10-85	THYMIDYLATE DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
SCYLLAC THETA PINCH EXPERIMENTS.	10-88	THYMINE DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91	THYMINE DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
STAGED THETA PINCHES WITH IMPLOSION HEATING.	10-98	TIME MOTION OF MAGNETOSPHERIC PARTICLE CLOUDS IN A TIME DEPENDENT ELECTRIC FIELD MODEL.	1-23
STUDY OF CAPACITIVE ENERGY STORAGE FOR A THETA PINCH PTR COMPRESSION COIL.	10-99	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-30
DISCRETE ORIGINATES NEUTRONIC ANALYSIS OF A REFERENCE THETA PINCH REACTOR (RTPR)	21-3	SPECTRA MEASUREMENTS OF A COSMIC GAMMA RAY BURST WITH FAST TIME RESOLUTION.	3-31
MEASUREMENT OF THE DEPOLARIZATION PARAMETER D(THETA) FOR PROTON + NITROGEN -14 SCATTERING NEAR 16 MEV.	25-65	COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3
THICK APPLICATION OF THICK FILM AND BULK COATING TECHNOLOGY TO THE SUBTERRENE PROGRAM.	11-2	COMPUTATION OF STEADY NOZZLE FLOW BY A TIME DEPENDENT METHOD.	18-7
THICKNESS FILM THICKNESS MEASUREMENTS ON THE FLOWING SUPERFLUID HELIUM FILM.	8-13	TIME RESPONSE OF PLASTIC SCINTILLATORS.	19-22
THIN THIN METAL WINDOWS FOR GAS TARGETS.	13-20	ASYMPTOTIC TIME BEHAVIOR OF RESONANT ABSORPTION WEIGHT PROFILE MODIFICATION.	20-14
THINGS SOME FUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD.	21-55	TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140
THINNING PROLONGED TAILWARD FLOW OF PLASMA IN THE THINNED PLASMA SHEET OBSERVED AT R EQUALS APPROXIMATELY 18 EARTH RADII DURING SUBSTORMS.	1-28	TIME OF FLIGHT MEASUREMENTS AT THE LAMPF LOW ENERGY PION CHANNEL.	22-58
THINNING ASSOCIATION OF PLASMA SHEET THINNING WITH NEUTRAL LINE FORMATION IN THE MAGNETOTAIL.	1-3	SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THULIUM -169 AND LUTETIUM -175 GAMMA RAYS.	25-105
THIRD PERIODIC SOLUTIONS OF THIRD ORDER PREDATOR - PREY EQUATIONS SIMULATING AN IMMUNE RESPONSE.	5-84	TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY.	25-117
THOMAS-FERMI THOMAS-FERMI CALCULATION OF POTENTIAL BETWEEN ATOMS.	4-52		
THOMSON THOMSON SCATTERING ON SCYLLAC.	10-107		

DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM -180, THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-36	PLASMA EQUILIBRIUM AND STABILITY IN THE SCYLLAC TOROIDAL SECTOR EXPERIMENTS.	10-72
APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM -180.	25-9	STABILITY OF THE ZT-1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS.	10-95
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRV) WITH THULIUM -169, LUTETIUM -175, AND TUNGSTEN -184.	25-5	STABILITY OF THE ZT-1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS.	10-97
TIME-INVARIANT PROJECTION OPERATORS FOR LAPLACE DYNAMICS.	26-4	TORUS BETA DEPENDENCE OF AXIAL AND RADIAL PLASMA EQUILIBRIUM IN THE SCYLLAC TORUS.	10-1
TIN TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	4-53	WZ CURRENT MEASUREMENTS IN THE SCYLLAC TORUS.	10-44
SELF FIELD CRITICAL CURRENT MEASUREMENTS OF COMMERCIAL DIFFUSION PROCESSED NIOBIUM-TITANIUM IN THE TEMPERATURE RANGE 4 TO 17.5 DEGREES KELVIN.	8-31	PLASMA COLUMN MOTION IN THE SCYLLAC TORUS.	10-71
TISSUE DOSE DISTRIBUTION DUE TO NEUTRONS AND PHOTONS RESULTING FROM NEGATIVE PION CAPTURE IN TISSUE.	5-34	TOTAL ABSOLUTE INTENSITIES AND POLARIZATION OF THE OUTER CORONA FROM THE JUNE 30, 1973 TOTAL SOLAR ECLIPSE.	3-1
IN VIVO TISSUE ANALYSIS USING MU-MESIC X RAYS.	5-54	TEMPORAL OBSERVATIONS OF THE LAMBDA 5003 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-42
TITANIUM (99.93 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39	NONRELATIVISTIC SCF ATOMIC PROGRAM TO COMPUTE ONE - ELECTRON ENERGIES, TOTAL ENERGIES, AND SLATER INTEGRALS.	4-17
TITUS-BODE LAW AND THE POSSIBILITY OF RECENT LARGE SCALE EVOLUTION IN THE SOLAR SYSTEM.	3-31	TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118
TLD STACK EFFLUENT MONITOR.	17-75	TOTALITY TEMPORAL OBSERVATIONS OF THE LAMBDA 5003 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION.	3-42
ANALYSIS OF ZPPR/PTR-2 TLD MEASUREMENTS USING ENDF-B-III DATA.	25-4	TOWARD PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94
TNT KIWI - TNT EXPLOSION.	30-17	TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN.	20-111
DESCRIPTION OF THE KIWI - TNT EXCURSION AND RELATED EXPERIMENTS.	30-9	TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER.	20-142
TOKAMAK TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-108	TOWARD CONTROL OF SELF FOCUSING.	20-143
EQUILIBRIA AND MHD (MAGNETOHYDRODYNAMIC) STUDIES FOR A HIGH BETA TOKAMAK.	10-23	TOWER FAILURE OF COOLING TOWER LOB-CT-1.	13-4
ULF-WAVE HEATING OF TOKAMAK PLASMAS.	10-30	TOXIC TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	30-59
HIGH BETA TOKAMAK.	10-40	TRACE MODIFIED CUPFERON EXTRACTION AND SPECTROGRAPHIC METHOD FOR THE DETERMINATION OF TRACE IMPURITY ELEMENTS IN PLUTONIUM.	1-12
KINK INSTABILITIES IN A HIGH BETA TOKAMAK WITH ELLIPTIC CROSS SECTION.	10-50	RAY TRACE ACOUSTICS IN UNSTEADY FLOW.	18-22
TOOL USE OF MU-MESIC X RAYS AS A MEDICAL TOOL.	5-115	TRACHEOBRONCHIAL STUDIES OF PLUTONIUM IN HUMAN TRACHEOBRONCHIAL LYMPH NODES.	5-108
PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL.	5-94	UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114
TOP QQ SEPARATIONS IN TYPE B BAND ENVELOPES OF ASYMMETRIC TOP MOLECULES.	1-42	TRACING L = 1-24 CONJUGATE MAGNETIC FIELD LINE TRACING EXPERIMENTS WITH BARIUM SHAPED CHARGES.	1-15
TOPICAL NUCLEAR PROCESS HEAT APPLICATIONS. 1974 1ST NATIONAL TOPICAL MEETING, LOS ALAMOS, NM. PROCEEDINGS.	26-7	TRADE DESIGN OPTIONS AND TRADE OFFS IN SUPERCONDUCTING MAGNETIC ENERGY STORAGE WITH IRREVERSIBLE SWITCHING.	8-6
TORNADO NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS.	18-18	TRAJECTORIES MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE ₂ YIELDS HYDROGEN BROMIDE + BROMINE.	6-12
TORNADO-LIKE NUMERICAL SOLUTION OF THE FLOW STRUCTURE IN TORNADO-LIKE VORTICES.	18-20	TRAJECTORY MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE: EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11
STRUCTURAL ANALYSIS OF TORNADO-LIKE VORTICES.	18-26	TRANSDUCER DESIGN AND DEVELOPMENT OF A COMBINATION PULSE TRANSDUCER.	19-6
TOROIDAL TOROIDAL KINK MODE STABILITY OF A FINITE BETA, ARBITRARY CROSS SECTION, TOKAMAK PLASMA.	10-108		
DESIGN OF THE SCYLLAC TOROIDAL THETA PINCH EXPERIMENT.	10-11		
IMPROVED STABILITY OF THE ZT-1 TOROIDAL PINCH BY PROGRAMMING.	10-45		

TRANSFER		TRANSFORMER	
ELECTRON TRANSFER IN COLLISIONS OF DOUBLY CHARGED RARE GAS IONS AND RARE GAS ATOMS FOR PRIMARY ION ENERGIES BELOW 100 EV.	4-11	TRANSFORMER FOR INJECTION EXPERIMENTS.	10-109
EXCITATION TRANSFER IN NEON + NEON ⁺ COLLISIONS.	4-17	TRANSIENT	
POTENTIAL CURVES, RADIATIVE PROPERTIES, AND RESONANT ENERGY TRANSFER CROSS SECTIONS IN NEON.	4-41	PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES.	3-21
SEMI-CLASSICAL MULTI-STATE CURVE CROSSING MODEL FOR ASSOCIATIVE IONIZATION AND EXCITATION TRANSFER IN HELIUM.	4-44	TRANSIENT COSMIC GAMMA AND X-RAY SOURCES. 1973. CONFERENCE, LOS ALAMOS, N.M. PROCEEDINGS.	3-35
MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER.	6-11	EVIDENCE FOR A GALACTIC ORIGIN OF TRANSIENT GAMMA RAY BURSTS.	3-9
TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR O + H ₂ YIELDS OH + H.	6-17
METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20	SPONTANEOUS IGNITION: FINITE ELEMENT SOLUTIONS FOR STEADY AND TRANSIENT CONDITIONS.	15-11
METHODS OF ENERGY TRANSFER FROM A MAGNETIC ENERGY STORAGE SYSTEM USING A TRANSFER CAPACITOR AND A SUPERCONDUCTING SWITCH.	8-20	TRANSITION	
POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT.	8-23	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-13
HEAT TRANSFER THROUGH A REFERENCE THETA PINCH REACTOR (RTPR) COOLING LAYER.	10-39	ELECTRONIC STRUCTURE AND OPTICAL PROPERTIES OF SOME FIRST ROW TRANSITION METAL OXYHALIDES.	4-14
INDUCTIVE ENERGY STORAGE WITH CAPACITIVE OR HOMOPOLAR TRANSFER.	10-46	KINETICS FOR POPULATION INVERSION ON THE 357.7 NM (0.18) TO (0.10) TRANSITION IN ATOMIC OXYGEN.	4-20
MAGNETIC ENERGY TRANSFER AND STORAGE (METS) PROGRAM SCHEDULES FOR A FUSION TEST REACTOR (FTL).	10-55	REDUCTIVE FLUORIDE ELIMINATION SYNTHESIS OF TRANSITION METAL FLUORIDES. SYNTHESIS OF MOLYBDENUM PENTAFLUORIDE AND MOLYBDENUM TETRAFLUORIDE.	7-13
ON CTR BREAKDOWN INCLUDING ENERGY TRANSFER AND RECOVERY EFFICIENCIES.	10-64	DEPENDENCE OF THE COBALT DISULFIDE SUPERCONDUCTING TRANSITION ON PREPARATION.	8-5
REVERSIBLE MAGNETIC ENERGY TRANSFER AND STORAGE SYSTEMS.	10-83	BONDING IN MID TRANSITION METAL CYANIDES. THE CRYSTAL STRUCTURE OF DI-CESIUM MAGNESIUM IRON HEXACYANIDE.	9-2
AIR VOLUME AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN AQUIFER.	11-1	BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM CYANIDE (M = CHROMIUM, IRIDIUM).	9-3
HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14	ELECTROMAGNETIC TRANSITION RATES IN POLONIUM-215.	25-13
INITIATIVES OF THE LOS ALAMOS SCIENTIFIC LABORATORY IN THE TRANSFER OF A NEW ENCAVATION TECHNOLOGY.	11-16	TRANSITIONS	
NUMERICAL SOLUTION OF MELT FLOW AND THERMAL ENERGY TRANSFER FOR THE LITHOTHERMODYNAMICS OF A ROCK MELTING PENETRATOR.	11-21	4P660D - 4P650DES TRANSITIONS IN RUTHENIUM, RHODIUM, AND PALLADIUM.	4-1
VISCIOUS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR. LITHOTHERMODYNAMICS.	11-33	TRANSITIONS IN HIGHLY IONIZED TIN SPECTRA FROM A LASER PRODUCED PLASMA.	1-53
BIOLOGICAL TRANSFER PROCESSES IN ENVIRONMENTAL SURVEILLANCE.	17-5	NUMERICAL STUDY OF TURBULENCE TRANSITIONS IN CONVECTIVE FLOW.	13-21
TRANSFER TECHNIQUE FOR ELECTRON MICROSCOPY OF MEMBRANE FILTER SAMPLES.	17-76	CALIBRATED DERIVATIVE THERMAL ANALYSIS APPARATUS FOR DETECTING PHASE TRANSITIONS IN HIGH TEMPERATURE MATERIALS.	13-1
NEW PROCEDURE FOR THE DETERMINATION OF NEUTRON MULTIGROUP TRANSFER MATRICES.	24-32	EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES.	22-14
LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-60	TRANSLATION	
POLARIZATION AND POLARIZATION TRANSFER IN THE DEUTERON (DEUTERON, NEUTRON) HELIUM-3 REACTION AT 16 MEV.	25-85	TRANSLATION ROTATION ENERGY TRANSFER: MOLECULAR BEAM DYNAMICS OF KRYPTON + CARBON DISULFIDE.	6-18
POLARIZATION AND POLARIZATION TRANSFER IN THE REACTION HYDROGEN-3 (PROTON, NEUTRON) HELIUM-3 AT 5.97 AND 9.9 MEV.	25-86	TRANSLATIONS	
POLARIZATION TRANSFER IN HELIUM-3 (DEUTERON, DEUTERON) HELIUM-3 ELASTIC SCATTERING.	25-87	NATIONAL TRANSLATIONS CENTER.	30-22
POLARIZATION TRANSFER IN PROTON - HELIUM-3 ELASTIC SCATTERING AT 16 MEV.	25-88	TRANSMISSION	
POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM-3 REACTION.	25-89	PROGRESS REPORT. USAEC/DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974.	6-25
PROTON POLARIMETER FOR POLARIZATION TRANSFER EXPERIMENTS.	25-91	PROGRESS REPORT. USAEC/DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974.	6-26
TRANSFORM		PROGRESS REPORT. USAEC/DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1974.	6-27
RELL. TRANSFORM.	21-3	CONDUCTOR TESTS FOR DC SUPERCONDUCTING POWER TRANSMISSION.	8-4
		DEVELOPMENT PROJECT FOR A DC SUPERCONDUCTING POWER TRANSMISSION LINE.	8-7
		TRANSMISSION SPECTROSCOPY OF LASER PRODUCED PLASMAS	10-110
		LABORATORY TEST APPARATUS FOR A SUPERCONDUCTING LC TRANSMISSION LINE.	11-10
		METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME.	15-4

TRANSMUTATION		
TRANSMUTATION AND ATOM DISPLACEMENT RATES IN A REFERENCE THETA PINCH REACTOR (RTPR).	10-11	
TRANSPORT		
MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-29	
STORM RUNOFF AND TRANSPORT OF RADIONUCLIDES IN DP CANYON, LOS ALAMOS COUNTY, NEW MEXICO.	17-72	
NEW TRANSPORT METHODS AND CODES.	18-17	
TRANSPORT EQUATION IN AN ACCELERATED MATERIAL. LIGENDRE MOMENTS AND A DIFFUSION APPROXIMATION.	18-29	
TRANSPORT EQUATION IN MODIFIED EULERIAN COORDINATES.	18-30	
ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS.	20-39	
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. APRIL 1 - JUNE 30, 1974.	21-39	
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. JANUARY 1 - MARCH 31, 1974.	21-40	
QUARTERLY REPORT. TRANSPORT CODE DEVELOPMENT AND CODE COORDINATION PROGRAM. OCTOBER 1 THROUGH DECEMBER 31, 1973.	21-41	
TRANSPORT EQUATION DIFFERENCE SCHEMES ON MESH CELLS CONTAINING MATERIAL INTERFACES.	24-11	
LS SUB-N OPERATOR METHOD IN TRANSPORT THEORY.	24-4	
MODIFIED DIFFERENCE SCHEMES FOR THE TRANSPORT EQUATION SOLUTION.	24-7	
ELASTIC AND INELASTIC CROSS SECTION FOR E - MERCURY SCATTERING FROM MERCURY TRANSPORT DATA.	25-40	
TRANSPORT PROCESSES IN SOLIDS AND LINEAR RESPONSE THEORY.	27-18	
QUARTERLY REPORT. TRANSPORT THEORY, REACTOR THEORY, AND REACTOR SAFETY. JULY 1 THROUGH SEPTEMBER 30, 1974.	28-13	
TRANSPORTATION		
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2R CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-7	
INVESTIGATION OF DOT (DEPARTMENT OF TRANSPORTATION) SPECIFICATION 2H CONTAINERS TO MEET SPECIAL FORM CERTIFICATION.	13-8	
TRANSURANIC		
IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG.	5-53	
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES	17-29	
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. APRIL - JUNE 1974.	30-32	
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JULY - SEPTEMBER 1973.	30-33	
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. OCTOBER - DECEMBER 1973.	30-34	
QUARTERLY REPORT. TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS. JANUARY - MARCH 1974.	30-35	
TRANSVERSE		
OBSERVATION OF TRANSVERSE CONDUCTANCE DISCONTINUITY DURING DESTRUCTION OF SUPERCONDUCTIVITY BY CURRENT.	8-22	
TRAP		
COLD TRAP FOR REMOVAL OF IMPURITIES FROM INERT GAS SYSTEMS USED WITH SHIELDED DRY BOXES.	13-2	
TRAVERSE		
EFFECTS OF CAFFEINE ON RADIATION INDUCED PHENOMENA ASSOCIATED WITH CELL CYCLE TRAVERSE OF MAMMALIAN CELLS.	5-37	
TREAT		
HIGH TEMPERATURE FUEL FOR TREAT CONVERTER STUDIES.	26-4	
TREATMENT		
AN INTRIO POTENTIAL CURVES FOR THE NEON GAS - NEON INTERACTION WITH SEMIEMPIRICAL TREATMENT OF SPIN ORBIT COUPLING.	4-2	
SOME PROBLEMS OF TREATMENT PLANNING FOR PION BEAMS.	5-106	
TECHNIQUES FOR VISUALIZING PION TREATMENT PORTS AT LAMPF.	5-111	
PREPARATION OF NUCLEAR MEMBRANES FROM CULTURED CHINESE HAMSTER CELLS BY HEPARIN TREATMENT.	5-90	
EFFECT OF BERYLLIUM (N 2N) MULTIGROUP TREATMENT ON THETA PINCH BLANKET NUCLEONICS.	10-14	
MONTE CARLO TREATMENT OF HEAT FLOW THROUGH A NEUTRAL-GAS LAYER.	10-61	
HEAT TRANSFER AND THERMAL TREATMENT PROCESSES IN SUBTERRANEAN PRODUCED GLASS HOLE LININGS.	11-14	
MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	23-17	
METHODS OF TREATMENT OF DISPLACEMENT INTEGRAL EQUATIONS.	24-6	
TREATMENT OF NIOBIUM PENTACHLORIDE ROVER PROJECT WASTE.	30-54	
TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	30-59	
TREES		
MOLECULAR SEQUENCE METRIC AND EVOLUTIONARY TREE.	5-73	
TRIALS		
BIOMEDICAL PROGRAM LEADING TO THERAPEUTIC TRIALS.	5-11	
TRIAMINO-S-TRIAZINE		
CRYSTAL STRUCTURE REFINEMENTS WITH GENERALIZED SCATTERING FACTORS. 2. MELAMINE, 2,4,6- TRIAMINO-S-TRIAZINE.	9-5	
TRIFLUORIDE		
REPLY TO: COMMENT ON MOLECULAR BEAM KINETICS: DEUTERIUM + CHLORINE TRIFLUORIDE, BY HELLMUT HABERLAND AND KONRAD SCHMIDT.	6-14	
TRIGGERED		
TIME BEHAVIOR OF ARC FORMATION IN DISCHARGES TRIGGERED BY LASER INDUCED PLASMAS.	20-140	
TRINUCLEON		
TRINUCLEON BOUND STATE PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-119	
TRINUCLEON PROPERTIES FROM A COMPLETE SOLUTION OF THE FADDEEV EQUATIONS WITH THE REID SOFT CORE POTENTIAL.	25-120	
TRIOXIDE		
TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE.	29-3	
TRIPHOSPHATE		
EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS.	5-40	
TRIPLET		
TRIPLET.	21-58	
TRITIUM		
DETERMINATION OF CARBON, HYDROGEN, AND TRITIUM IN IRRADIATED REACTOR FUELS AND CLADDING MATERIALS.	2-3	
NUMBER OF ATOMS FORMED PER ION PAIR IN TRITIUM GAS. CORRELATION WITH MOLECULAR PROCESSES.	4-38	
FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-31	
TRITIUM ION BEAM FOR AN INTENSE NEUTRON SOURCE. INS.	13-21	
DISPERSION AND MOVEMENT OF TRITIUM IN A SHALLOW AQUIFER IN MORTANDI CANYON AT THE LOS ALAMOS SCIENTIFIC LABORATORY.	17-15	
THERMONUCLEAR BURN CHARACTERISTICS OF COMPRESSED DEUTERIUM - TRITIUM MICROSPHERES.	20-136	
THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL, UNIFORM DEUTERIUM - TRITIUM SPHERES.	20-139	
BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-17	
BURN CHARACTERISTICS OF MARGINAL DEUTERIUM - TRITIUM MICROSPHERES.	20-18	
HYDRODYNAMICS AND BURN OF OPTIMALLY IMPLoded DEUTERIUM - TRITIUM SPHERES.	20-54	

LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER.	20-70	TSAAS	
NEUTRONIC ANALYSIS OF A TRITIUM PRODUCTION INTEGRAL EXPERIMENT.	24-9	TSAAAS: FINITE ELEMENT THERMAL AND STRESS ANALYSIS OF AXISYMMETRIC SOLIDS WITH ORTHOTROPIC TEMPERATURE DEPENDENT MATERIAL PROPERTIES.	27-19
TOTAL CROSS SECTIONS OF TRITIUM, HYDROGEN, AND HELIUM FOR FAST NEUTRONS.	25-118	TSUNAMIS	
POLARIZATION TRANSFER IN THE TRITIUM (DEUTERON, NEUTRON) HELIUM-3 REACTION.	25-89	NUMERICAL SIMULATION OF TSUNAMIS.	18-19
TRITON		TUBE	
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON) FISSION, (HELIUM-3, DEUTERON) FISSION, (PROTON, PROTON) FISSION, AND (TRITON, ALPHA) FISSION STUDIES.	16-10	FAST BARIUM PLASMA FLUX TUBE INTERACTION WITH AUBORAL ELECTRON FLUX BEYOND EARTH RADII.	1-9
FISSION BARRIERS FOR DOUBLY EVEN ACTINIDE NUCLEI FROM (TRITON, PROTON) FISSION, (HELIUM-3, DEUTERON) FISSION, (PROTON, PROTON) FISSION, AND (TRITON, ALPHA) FISSION STUDIES.	16-10	SEALED TUBE DISSOLUTION METHOD FOR DETERMINATION OF NITRIDE NITROGEN IN BORON CARBIDE.	2-15
MEASUREMENTS OF GAMMA-FA, GAMMA-NA USING (HELIUM-3, DEUTERON) FISSION AND (HELIUM-3, TRITON) FISSION REACTIONS.	16-21	TUMOR	
(TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1	DETECTION OF HETEROPOID TUMOR CELLS.	5-28
STRONTIUM-88 (TRITON, PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM-80.	25-108	AUTOMATED ANALYSIS OF DEOXYRIBONUCLEIC ACID (DNA), PROTEIN AND NUCLEAR TO CYTOPLASMIC RELATIONSHIPS IN TUMOR CELLS AND GYNEOLOGICAL SPECIMENS.	5-8
STRUCTURE OF KRYPTON-86 DERIVED FROM THE KRYPTON (TRITON, PROTON) KRYPTON-86 REACTION.	25-109	TUMOUR	
STUDY OF NEON-22 WITH THE NEON-20 (TRITON, PROTON) REACTION.	25-110	DISTRIBUTION IN THE CELL CYCLE OF NORMAL CELLS AND OF IRRADIATED TUMOUR CELLS IN MICE.	5-43
STUDY OF THE MAGNESIUM-24 (HELIUM-3, TRITON) ALUMINUM-24 REACTION AT E (HELIUM-3) = 0.52 MEV.	25-111	TUNABLE	
STUDY OF THE NEON-20 (TRITON, ALPHA) FLUORINE-19 REACTION.	25-112	SPIN - FLIP RAMAN LASER AS A TUNABLE INFRARED SOURCE.	20-126
CHARGE DEPENDENCE AND ASYMMETRY EFFECTS IN THE REACTION HELIUM-3 PLUS GAMMA GOES TO DEUTERON PLUS PROTON AND TRITON PLUS GAMMA GOES TO DEUTERON PLUS NEUTRON.	25-23	TUNELP	
ELEMENTARY MODES OF EXCITATION IN THE LEAD-204 (TRITON, PROTON) LEAD-206 REACTION.	25-14	TUNEP OF THE LAMPF LOW ENERGY PION CHANNEL.	22-50
EVIDENCE FOR CHARGE EXCHANGE COUPLING IN LEAD-206 (TRITON, PROTON) LEAD-208.	25-45	TUNGSTEN	
FORMALISM FOR THE TRITON (DEUTERON, NEUTRON) HELIUM-4 AND HELIUM-3 (DEUTERON, PROTON) HELIUM-4 REACTIONS.	25-47	IRON-57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN.	9-10
KRYPTON-80 (TRITON, PROTON) KRYPTON-86 AND KRYPTON-86 (TRITON, PROTON) KRYPTON-88 REACTIONS.	25-55	ANOMALOUS SINTERING BEHAVIOR IN THE 95 PERCENT TUNGSTEN - 3.5 PERCENT NICKEL - 1.5 PERCENT IRON COMPOSITE.	25-1
KRYPTON-84 (TRITON, PROTON) KRYPTON-86 AND KRYPTON-86 (TRITON, PROTON) KRYPTON-88 REACTIONS.	25-55	LIQUID PHASE SINTERING OF TUNGSTEN - NICKEL - IRON IN A TEMPERATURE GRADIENT.	23-15
LEVELS OF SELENIUM-84 FROM THE SELENIUM-82 (TRITON, PROTON) SELENIUM-84 REACTION.	25-57	DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM-180, THULIUM-169, LUTETIUM-175, AND TUNGSTEN-184.	25-46
ANALYZING POWER MEASUREMENTS IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-6	MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON, NEUTRON) HELIUM-4 REACTION.	25-67
LONGITUDINAL POLARIZATION TRANSFER IN THE TRITON (PROTON, NEUTRON) HELIUM-3 REACTION.	25-60	GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM-169, LUTETIUM-175, AND TUNGSTEN-184.	27-5
MAGNESIUM-26 (TRITON, HELIUM-3) REACTION AND A SPHERICAL SHELL MODEL DESCRIPTION OF SODIUM-26.	25-61	IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS.	30-15
MEASUREMENTS OF NEUTRON AND GAMMA RAY SPECTRA FROM IRON AND TUNGSTEN SPHERES BOMBARDED WITH NEUTRONS FROM THE HYDROGEN-2 (TRITON, NEUTRON) HELIUM-4 REACTION.	25-67	TUNNELING	
OXYGEN-16 (TRITON, HELIUM-3) NITROGEN-16 REACTION AND THE LOW LYING T=1 LEVELS OF MASS 16.	25-83	ROCK MELTING APPLIED TO EXCAVATION TUNNELING.	11-26
TRIV		TURBULENCE	
GAMMA - GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIV) WITH THULIUM-169, LUTETIUM-175, AND TUNGSTEN-184.	27-5	NUMERICAL STUDY OF TURBULENCE TRANSITIONS IN CONVECTIVE FLOW.	18-21
TRIVALENT		TURBULENT	
CATION EXCHANGE BEHAVIOR OF LANTHANIDES AND TRIVALENT ACTINIDES IN ETHANOL - HYDROCHLORIC ACID.	2-2	MONTE CARLO SIMULATION OF THE TURBULENT TRANSPORT OF AIRBORNE CONTAMINANTS.	17-29
BONDING IN TRIVALENT TRANSITION METAL CYANIDES. CRYSTAL STRUCTURES OF CESIUM LITHIUM CYANIDE (M = CHROMIUM, IRIDIUM).	9-3	TWENTY	
		CELL CYCLE ANALYSIS IN TWENTY MINUTES.	5-14
		TWENTY-THREE	
		RADIATIVE AND CONDUCTIVE OPACITIES FOR TWENTY-THREE STELLAR MIXTURES.	3-27
		TWILIGHT	
		MONTE CARLO STUDIES OF THE SKY RADIATION AT TWILIGHT.	1-19
		TWO	
		BIDIRECTIONAL ANISOTROPY IN SOLAR PROTON FLUXES DURING TWO GEOMAGNETIC STORMS.	1-4
		IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM, AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10
		TWO SPECIES VLASOV CONFINEMENT EQUILIBRIA.	10-112
		TWO STREAM INSTABILITY STUDIED WITH FOUR ONE DIMENSIONAL PLASMA SIMULATION MODELS.	10-113
		EFFECTS OF FINITE BETA AND TEMPERATURE ANISOTROPY ON THE MODIFIED TWO STREAM INSTABILITY.	10-15

MHD (MAGNETOHYDRODYNAMIC) STABILITY OF DIFFUSE TWO DIMENSIONAL EQUILIBRIA.	10-59	UNDERGROUND INVESTIGATIONS OF UNDERGROUND EXPLOSIONS IN NEVADA SANDY SOILS.	30-16
TWO FREQUENCY NONLINEAR TAYLOR INSTABILITY.	18-41	UNDERSEA REACTOR POWER PLANT FOR UNDERSEA APPLICATIONS.	28-16
DETONATION INDUCED TWO DIMENSIONAL FLOWS.	18-7	UNDERWATER EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE.	18-9
TWO DIMENSIONAL COMPUTER SIMULATION OF A HIGH POWER LASER BEAM IMPINGING ON A FLAT TARGET.	20-141	UNEXPLAINED UNEXPLAINED PARADOX: THE THERMAL RATE COEFFICIENTS FOR THE HYDROGEN + DEUTERIUM CHLORIDE TO HYDROGEN CHLORIDE + DEUTERIUM EXCHANGE REACTION.	6-19
COLLECTIVE ION ACCELERATION VIA THE TWO STREAM INSTABILITY.	20-22	UNFOCUSING PULSE UNFOCUSING WITHIN LASER FUSION REACTORS.	20-115
LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79	UNIFIED UNIFIED MODEL OF SOLAR SYSTEM AND GALAXY FORMATION BASED ON EXPLOSIVE FRAGMENTATION.	1-17
ON THE USE OF FAST POISSON SOLVERS TO IMPLEMENT TWO A STABLE MARCHING PROCEDURES FOR PARABOLIC PROBLEMS.	21-37	UNIFORM UNIFORM DEPTH DOSE DISTRIBUTIONS FROM MONOENERGETIC NEGATIVE PION BEAMS.	5-111
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	22-8	METHOD FOR PRODUCTION OF UNIFORM MICROSPHERES.	5-71
STRONTIUM -87 (TRITON,PROTON) REACTION AND THE TWO PARTICLE ONE HOLE STATES OF STRONTIUM -89.	25-108	UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION.	9-19
COMPARISON OF METHODS OF SCATTERING FROM TWO POTENTIALS.	25-26	THERMONUCLEAR BURN CHARACTERISTICS OF VERY SMALL UNIFORM DEUTERIUM - TRITIUM SPHERES.	20-159
COORDINATE SPACE STUDY OF KOWALSKI'S THREE TERM SEPARABLE APPROXIMATIONS FOR THE FULL OFF-SHELL TWO NUCLEON T-MATRIX.	25-29	UNIT DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-5
RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES.	27-13	DESIGN AND TESTING OF A STRUCTURALLY INTEGRATED STEEL SOLAR COLLECTOR UNIT BASED ON EXPANDED FLAT METAL PLATES.	1-13
TWOTRAN-II		UNITED POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES.	11-22
TWOTRAN II.	21-59	UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	9-41
U ENGINEERING DESIGN STUDY OF A REFERENCE THETA PINCH REACTOR (RTPR). A JOINT REPORT PREPARED FOR THE U. S. ATOMIC ENERGY COMMISSION.	10-20	UNIVERSAL DEVELOPMENT OF A MOBILE ROCK MELTING SUBTERRANEAN FIELD UNIT FOR UNIVERSAL EXTRUDING PENETRATORS.	11-5
SELECTION OF RESPIRATOR TEST PANELS REPRESENTATIVE OF U. S. ADULT FACIAL SIZES.	17-68	UNIVERSES SETS, NUMBERS, AND UNIVERSES. SELECTED WORKS.	21-49
SPONTANEOUS DECAY OF THE 3(SIGMA)(1++) STATE OF XENON -2.	25-107	UNSTEADY RAY TRACE ACOUSTICS IN UNSTEADY FLOW.	18-22
LAST STATUS REPORT TO THE U. S. NUCLEAR DATA COMMITTEE.	25-56	UNUSUAL UNUSUAL PITCH ANGLE DISTRIBUTIONS OF LESS THAN 1 MEV SOLAR PROTONS OBSERVED IN THE MAGNETOSHEATH.	1-14
U. S. ENERGY AND PRIORITIES.	30-60	UNUSUALLY CARBON -13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE.	14-1
UF PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH4UF6(5), AMMONIUM PENTAFLUORO URANATE(IV).	9-15	UPDATE UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR). A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1970.	10-114
ULTRALOW COMPUTERIZED SYSTEM FOR ULTRALOW TEMPERATURE POLARIZED NUCLEI TIME REVERSAL AND PARITY EXPERIMENTS.	8-3	UPDATING DISTRIBUTION OF AN ARBITRARY STANDARDIZED RESIDUAL AND THE EFFECTS OF UPDATING IN MULTIPLE REGRESSION.	21-18
ULTRAVIOLET ACCUMULATION OF INCOMPLETE PARTICLES AFTER ULTRAVIOLET LIGHT INDUCTION OF HAEMOPHILUS INFLUENZAE LYSOGENIC FOR BACTERIOPHAGE HPIC1.	5-2	UPON DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION: 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-36
DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION: 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27	UPPER UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-15
INDUCTION OF STABLE LINKAGE BETWEEN THE DEOXYRIBONUCLEIC ACID (DNA) DEPENDENT RIBONUCLEIC ACID (RNA) POLYMERASE AND DNA-TIN BY ULTRAVIOLET LIGHT.	5-55	UPSTREAM HOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH.	10-115		
PARAMETRIC STUDY OF AN ULTRAVIOLET PREIONIZED CARBON DIOXIDE LASER.	20-103		
UNBALANCED EXACT AND APPROXIMATE TESTS FOR UNBALANCED RANDOM EFFECTS DESIGNS.	21-20		
UNCERTAINTY SENSITIVITY OF RTPR (REFERENCE THETA PINCH REACTOR) AFTERHEAT AND RADIOACTIVITY TO NIOBIUM -94 CROSS SECTION UNCERTAINTY.	10-91		

UPTAKE KINETICS OF RELATIVELY INSOLUBLE PARTICLES BY TRACHEOBRONCHIAL LYMPH NODES.	5-114	URANIUM ENRICHMENT.	20-145
STUDIES OF THE APPARENT SOLUBILITY OF PLUTONIUM DIOXIDE MICROSPHERES IN AN AQUATIC ENVIRONMENT AND THE UPTAKE OF PLUTONIUM FROM A SOIL MATRIX CONTAINING PLUTONIUM DIOXIDE.	11-73	NEUTRONS PRODUCED BY 740 MEV PROTONS ON URANIUM.	22-44
URANATE PREPARATION AND SINGLE CRYSTAL STRUCTURE OF BETA - NH ₄ UO ₂ (F _{0.5}), AMMONIUM PENTAFLUOROURANATE(IV).	9-15	IMPURITY EFFECTS ON LOW TEMPERATURE PHYSICAL PROPERTIES OF URANIUM.	23-14
URANIUM IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	MECHANICAL FABRICATION, HEAT TREATMENT, AND MACHINING OF URANIUM ALLOYS.	23-17
IMPROVED TWO COLUMN ION EXCHANGE SEPARATION OF PLUTONIUM, URANIUM AND NEODYMIUM IN MIXED URANIUM - PLUTONIUM FUELS FOR BURNUP MEASUREMENT.	2-10	SMALL SCALE PREPARATION OF HIGH DENSITY URANIUM DIOXIDE CYLINDERS.	23-30
SPECTROPHOTOMETRIC MEASUREMENT OF URANIUM IN PLUTONIUM DIOXIDE.	2-16	SOME MECHANICAL PROPERTIES OF URANIUM - MOLYBDENUM ALLOYS.	23-31
DETERMINATION OF SELECTED RARE EARTHS IN URANIUM ALLOYS BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.	2-5	STEADY STATE IRRADIATION BEHAVIOR OF SODIUM BONDED URANIUM - PLUTONIUM CARBIDE.	23-11
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	URANIUM - MOLYBDENUM ALLOY FUELS FOR PULSED REACTORS.	23-38
DETERMINATION OF URANIUM AND THORIUM IN CARBON AND SILICON CARBIDE COATED URANIUM - THORIUM CARBIDE FUEL BEADS.	2-6	URANIUM (0.8) WEIGHT PERCENT TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING.	23-39
ELECTRONIC STRUCTURE OF URANIUM HEXAFLUORIDE.	4-15	EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE.	24-7
INTERACTION POTENTIALS FOR URANIUM HEXAFLUORIDE WITH ITSELF AND WITH RARE GAS ATOMS.	4-26	FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND THE TETRABORIDES OF LANTHANUM AND LUTETIUM.	24-9
INTERPRETATION OF THE ABSORPTION SPECTRUM OF SINGLE CRYSTAL URANIUM TETRACHLORIDE.	4-28	BARR URANIUM (80) CARBON (70) ASSEMBLY.	24-1
LOW TEMPERATURE MAGNETIC SUSCEPTIBILITY OF URANIUM TETRACHLORIDE.	4-32	CROSS SECTIONS OF URANIUM -235 AND PLUTONIUM -239 FOR NEUTRONS PRODUCING GAMMA RAYS.	25-32
NEW SOURCE OF ATOMIC URANIUM FOR ABSORPTION AND OTHER APPLICATIONS.	4-36	MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238.	25-63
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLUORIDE.	4-58	NEUTRON INDUCED FISSION CROSS SECTION OF URANIUM -237.	25-71
ANALYTICAL EXPRESSION FOR ENTHALPY AND HEAT CAPACITY FOR URANIUM PLUTONIUM DIOXIDE.	7-1	NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE.	25-77
LEED (LOW ENERGY ELECTRON DIFFRACTION) STUDIES OF URANIUM DIOXIDE APPROXIMATELY 110 VIRTUAL SURFACES.	9-11	NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE.	25-77
FISSION OF URANIUM -238, BISMUTH -209 AND GOLD -197 WITH INTERMEDIATE ENERGY HELIUM IONS.	16-11	GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE.	26-11
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	IN-LINE AND OFF-LINE MONITORS OF URANIUM CONCENTRATION IN PROCESS SOLUTIONS.	26-12
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238.	16-16	MEASUREMENTS OF URANIUM HEXAFLUORIDE CYLINDERS WITH PORTABLE INSTRUMENTS.	26-14
INDEPENDENT FISSION YIELDS OF BARIUM AND CESIUM FROM URANIUM -235 INDUCED BY FISSION SPECTRUM NEUTRONS.	16-17	NDA (NONDESTRUCTIVE ANALYSIS) MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE.	26-16
METHOD TO ESTIMATE THE SPECIFIC FISSIONS IN URANIUM -235 USING A SODIUM IODIDE CRYSTAL.	16-22	ASSAY OF THE URANIUM CONTENT OF ROVER SCRAP WITH THE RANDOM SOURCE INTERROGATION SYSTEM.	26-2
PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27	URANIUM HEXAFLUORIDE ENRICHMENT MONITOR: OPERATING PROCEDURES MANUAL.	26-28
PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239.	16-27	CONTINUOUS IN LINE MONITOR FOR URANIUM HEXAFLUORIDE ENRICHMENT.	26-6
EQUILIBRIUM SPECTRUM OF DELAYED NEUTRONS FROM FAST FISSION OF URANIUM -235.	16-6	SECOND STATUS REPORT ON HIGH TEMPERATURE IRRADIATION OF MOLYBDENUM URANIUM DIOXIDE FUEL.	26-18
ECOLOGICAL CONSIDERATIONS OF DEPLETED URANIUM MUNITIONS.	17-17	STATUS REPORT ON IRRADIATION STUDIES OF MOLYBDENUM -40 V/O URANIUM DIOXIDE CERMET FUEL.	26-20
PARTICLE SIZE DISTRIBUTION OF FRAGMENTS FROM DEPLETED URANIUM CANNISTERS FIRED AGAINST ARMOR PLATE TARGETS.	17-34	URANIUM DIOXIDE EQUATION OF STATE FOR LIQUID (LIQUID METAL) FUELED BREEDER REACTOR EXCURSION ANALYSIS.	26-21
URANIUM -235 ENRICHMENT DETERMINATION USING HELIUM -3 PROPORTIONAL COUNTERS.	19-21	DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED URANIUM PLUTONIUM DIOXIDE FUEL PINS.	26-4
		DISTRIBUTIONS OF CESIUM -134 AND CESIUM -137 IN THE AXIAL URANIUM DIOXIDE BLANKETS OF IRRADIATED URANIUM PLUTONIUM DIOXIDE FUEL PINS.	26-1
		IMPROVED PERFORMANCE OF TUNGSTEN BASED URANIUM DIOXIDE FUEL MATERIALS.	30-15
		URIDINES ISOLATION FROM RIBONUCLEIC ACID (RNA) OF SUBSTITUTED URIDINES CONTAINING ALPHA AMINOBUTYRATE MOIETIES DERIVED FROM METHIONINE.	5-39

URINE PRESERVATION AND STORAGE OF URINE SAMPLES FOR THE DETERMINATION OF MERCURY	17-45	VANADIUM IRON-57 IMPURITY ATOM LATTICE DYNAMICS IN HOST METALS VANADIUM, NIOBIUM, MOLYBDENUM, TANTALUM, AND TUNGSTEN	9-10
USAEC PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, APRIL 1 THROUGH JUNE 30, 1974	8-25	VAPOR MAGNESIUM FLUORIDE METAL ATOM OXIDATION LASER FROM EXPLOSIVELY GENERATED METAL VAPOR	20-40
PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974	8-26	HIGH RATE PHYSICAL VAPOR DEPOSITION OF REFRACTORY METALS	24-12
PROGRESS REPORT, USAEC DAT (DIVISION OF APPLIED TECHNOLOGY) DC SUPERCONDUCTING POWER TRANSMISSION LINE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973	8-27	METAL VAPOR CONFINEMENT IN VACUUM	27-10
PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, JANUARY 1 THROUGH MARCH 31, 1974	8-28	VARIABLES RELATIVISTIC CENTER OF MASS VARIABLES FOR COMPOSITE SYSTEMS WITH ARBITRARY INTERNAL INTERACTIONS	25-100
PROGRESS REPORT, USAEC DIVISION OF APPLIED TECHNOLOGY SUPERCONDUCTING MAGNETIC ENERGY STORAGE PROJECT AT LASL, OCTOBER 1 THROUGH DECEMBER 31, 1973	8-29	RATIONAL APPROXIMANTS FOR INVERSE FUNCTIONS OF TWO VARIABLES	27-14
USAEC WORKSHOP ON PERSONNEL NEUTRON DOSIMETRY	17-77	VARIANCE SITUATION IN WHICH THE ESTIMATION OF THE INTERACTION VARIANCE IS THE PURPOSE OF AN EXPERIMENT	21-51
USAGE REMOTE JOB ENTRY SIMULTANEOUS WITH STAND ALONE USAGE OF A POP 11-20	21-46	VARIATIONS SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS	1-30
USES OVERVIEW OF REACTOR APPLICATIONS FOR HIGH TEMPERATURE INDUSTRIAL PROCESS HEAT USES	28-8	TEMPORAL OBSERVATIONS OF THE LAMBDA 500 EMISSION LINE PROFILE DURING THE 74 MINUTE TOTALITY FROM THE CONCORDE SST AT THE 30 JUNE 1973 TOTAL SOLAR ECLIPSE. PRELIMINARY INTENSITY VARIATIONS ABOVE AN ACTIVE REGION	5-12
UTILIZING LUNAR ELEMENTAL ANALYSIS UTILIZING THE APOLLO GAMMA RAY REMOTE SENSING SYSTEM	1-16	HRE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-1)	5-99
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION	20-71	VAVILOV LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION	25-78
UV INVESTIGATIONS OF A UV PREIONIZED ELECTRICAL DISCHARGE AND CARBON DIOXIDE LASER	20-59	VECTOR UNIFORM VECTOR DISTRIBUTION FOR ACCURATE SPATIAL INTEGRATION	9-10
VACANCIES INCREASED EFFICIENCY OF A DISLOCATION LINE AS A SINK FOR VACANCIES WHEN IT OSCILLATES	23-14	MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT	22-28
VACANCY THEORY FOR SOLUTE VACANCY BINDING ENERGIES IN BINARY ALLOYS	24-45	MESON COUPLINGS FROM CONSERVED VECTOR CURRENT AND PARTIALLY CONSERVED AXIAL VECTOR CURRENT	22-28
VACUUM VACUUM ULTRAVIOLET EMISSION FROM A NEON SEEDED THETA PINCH	10-75	VECTOR AND TENSOR ANALYZING POWER MEASUREMENTS FOR HYDROGEN (DEUTERON, DEUTERON) HYDROGEN-3 ELASTIC SCATTERING AT 11.4 AND 11.4 MEV	25-125
BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES	13-1	VEHICLE DEVELOPMENT OF IMPROVED REENTRY VEHICLE NOSE TIP GRAPHITES FROM COMMERCIAL RAW MATERIALS. FINAL REPORT FOR PERIOD 1 OCTOBER 1972 TO 30 SEPTEMBER 1973	20-10
VACUUM POLARIZATION IN HIGH Z, FINITE SIZE NUCLEI	25-121	VELA OBSERVATIONS OF THE MAGNETOSPHERIC SURFACE LAYER WITH THE VELA SATELLITES	1-24
METAL VAPOR CONFINEMENT IN VACUUM	27-10	VELA AND IMP PLASMA FLOW OBSERVATIONS	1-86
VALIDITY LIMITS OF VALIDITY OF THE VAVILOV ENERGY STRAGGLING CALCULATION	25-78	CORRELATIONS OF VELA SATELLITE AND AIRCRAFT SUBSTORM OBSERVATIONS	1-6
VALUE CARBON-13 NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY OF CARBOXYMETHYLCOBALAMIN, AN ACETIC ACID DERIVATIVE WITH AN UNUSUALLY HIGH PK VALUE	11-1	PRELIMINARY CATALOG OF TRANSIENT COSMIC GAMMA RAY SOURCES OBSERVED BY THE VELA SATELLITES	5-25
INITIAL VALUE PROBLEMS OF THE RAYLEIGH-TAYLOR INSTABILITY TYPE	18-10	VELOCITY HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND	1-10
VALUES ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS	16	HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS	1-11
VAN DE GRAAFF DETECTION OF THE STABLE ISOTOPES OF CARBON USING A 100 MA VON DE GRAAFF AND THE APPLICATION TO ENVIRONMENTAL AND BIOLOGICAL STUDIES	5-29	SAFETY TEST NO. 8-6 LAUNCH PAD ABORT SEQUENTIAL TEST PHASE 1: LOW VELOCITY HSA (HEAT SOURCE ASSEMBLY) IMPACT	17-62
LOS ALAMOS THREE STAGE VAN DE GRAAFF FACILITY	27-8	VENTILATION DESIGN OF VENTILATION AND AIR CLEANING SYSTEMS FOR THE NEW LOS ALAMOS PLUTONIUM FACILITY	17-13
VAN DER WAALS MODIFIED STATISTICAL METHOD FOR INTERMOLECULAR POTENTIALS COMBINING RULES FOR HIGHER VAN DER WAALS COEFFICIENTS	1-54	VENTILATION DESIGN MODIFICATIONS AT LOS ALAMOS SCIENTIFIC LABORATORY MAJOR PLUTONIUM OPERATIONAL AREAS	17-78
VAN DER WAALS INTERACTIONS OF CARBON DIOXIDE	1-55	VENUS OBSERVATIONS AT VENUS ENCOUNTER BY THE PLASMA SCIENCE EXPERIMENT ON MARINER 10	1-78
		VERSATILE FAST VERSATILE PREAMPLIFIER FOR USE IN PARTICLE PHYSICS	22-15

VERSION IMPROVED VERSION OF GROUP THEORETICAL ANALYSIS OF LATTICE DYNAMICS	9-9	TEST OF SIMULTANEOUS PARITY AND TIME REVERSAL VIOLATION IN GAMMA DECAY	24-117
R-MATRIX ANALYSIS OF THE OXYGEN-17 SYSTEM: VERSION IV OF ENDF-B	25-98	DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE IN GAMMA RAYS OF METASTABLE HAFNIUM-180, THULIUM- 180, LUTETIUM-175, AND TUNGSTEN-181	25-10
STANDARD INTERFACE FILES AND PROCEDURES FOR REACTOR PHYSICS CODES, VERSION III	28-19	MEASUREMENT OF PARITY VIOLATION IN PROTON-PROTON SCATTERING AT 15 MEV	25-63
VIBRATION MONTE CARLO QUASICLASSICAL TRAJECTORY STUDY OF BROMINE + HYDROGEN BROMIDE AND HYDROGEN + HYDROGEN BROMIDE. EFFECT OF REACTANT VIBRATION AND ROTATION ON REACTION RATES AND ENERGY TRANSFER	6-11	APPARENT ABSENCE OF ELECTROMAGNETIC OR STRONG INTERACTION TIME REVERSAL VIOLATION IN THE DECAY OF METASTABLE HAFNIUM-180	25-9
VIBRATIONAL FORCE FIELD OF CYANOGEN FROM VIBRATIONAL SPECTRA OF ISOTOPIC SPECIES	1-19	GAMMA-GAMMA DIRECTIONAL CORRELATION TESTS FOR VIOLATION OF TIME REVERSAL INVARIANCE (TRIG) WITH THULIUM-180, LUTETIUM-175, AND TUNGSTEN-181	25-5
INTERATOMIC FORCES IN MOLECULES FROM VIBRATIONAL SPECTRA	4-27	VIOLET DELTA V = 0 AND + 1 SEQUENCE BANDS OF THE CYANOGEN VIOLET SYSTEM OBSERVED DURING THE FLASH PHOTOLYSIS OF BROMINE CYANIDE	1-8
SINGLE CRYSTAL POLARIZED RAMAN SCATTERING AND VIBRATIONAL ASSIGNMENTS FOR DIETHYL LITHIUM METAL HEXACYANIDES - Li + CHROMIUM, MANGANESE, IRON, COBALT, RHODIUM, AND IRIDIUM	4-45	VIRUS FLOW MICROFLUOROMETRY ANALYSIS OF DNA CONTENT IN CHINESE HAMSTER CELLS FOLLOWING INFECTION WITH SIMIAN VIRUS 40	5-18
VIBRATIONAL ANALYSIS USING CRYSTALLINE MODELS: VIBRATIONAL SPECTRA AND POTENTIAL CONSTANTS FOR CESIUM LITHIUM FERROCYANIDE	1-56	APPLICATION OF CELL ANALYSIS AND SORTING TECHNIQUES TO DISEASE DETECTION: RAPID DIFFERENTIAL DIAGNOSIS OF NEWCASTLE DISEASE VIRUS	5-6
VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE	1-57	VISCOS VISCOS MELT FLOW AND THERMAL ENERGY TRANSFER FOR A ROCK MELTING PENETRATOR: LITHOTHERMODYNAMICS	11-33
VIBRATIONAL SPECTRUM AND FORCE FIELD OF URANIUM HEXAFLORIDE	1-58	STOCHASTIC ANALOG SIMULATOR FOR VISCOUS, INCOMPRESSIBLE FLUID FLOW	18-25
MONTE CARLO CLASSICAL DYNAMICAL STUDY OF THE CHLORINE + CHLORINE + AND IODINE + IODINE + SYSTEMS: VIBRATIONAL RELAXATION AND ATOM EXCHANGE REACTIONS	6-10	VISIBILITY CHAMBER STUDIES OF VISIBILITY REDUCING AEROSOLS	17-6
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMINE CYANIDE IN EXCESS KRYPTON	6-20	VISUALIZING TECHNIQUES FOR VISUALIZING FLOW TREATMENT PORTS AT LAMPE	5-111
OPTIMUM VIBRATIONAL EXCITATION OF CARBON MONOXIDE MOLECULES IN CARBON MONOXIDE-NITROGEN MIXTURES	20-101	VITRO CHROMOSOME BANDING ANALYSIS OF IN VITRO CELL POPULATIONS	5-21
ELECTRON TRANSPORT COEFFICIENTS AND VIBRATIONAL EXCITATION RATES FOR ELECTRICALLY EXCITED CARBON DIOXIDE GAS LASERS	20-89	INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO A IRRADIATED DNA	5-56
VIBRATIONS APPROXIMATE ESTIMATE OF THE FORM OF MOLECULAR VIBRATIONS	1-1	INITIATION OF IN VITRO RNA SYNTHESIS WITH DEOXYRIBOSYL OLIGOMERS	5-57
VIBRAL LEFT-LOW-ENERGY-ELECTION DIFFRACTION STUDIES OF URANIUM DIOXIDE APPROXIMATELY 110 VIBRAL SURFACES	9-11	VIVO EVALUATION OF LIVER FUNCTION BY OXIDATION OF CARBON-11 OR CARBON- 13 LABELED GALACTOSE IN VIVO	5-14
ORDERED STEP ARRAYS ON EVAPORATED ARSENIC (110) VIBRAL SURFACES	9-14	EVALUATION OF LIVER FUNCTION BY OXIDATION OF GALACTOSE CARBON-11 OR CARBON-13 IN VIVO	5-15
VIBRA NONE VIEW OF HIGH-ENERGY HADRON-NUCLEUS COLLISIONS	22-30	IN VIVO DETECTION OF TRANSURANIC ELEMENTS IN THE HUMAN LUNG	5-51
VIEWED VUV EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THIAT PUNCH	10-116	IN VIVO TISSUE ANALYSIS USING MICROSCOPIC X-RAYS	5-53
VIEWPOINT ELECTRON BEAM CONTROLLED GAS LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT: PART 2: PROBLEMS IN THE ELECTRICAL DESIGN OF VERY HIGH-ENERGY SYSTEMS	20-17	VLASOV TWO-SPECIES VLASOV CONFINEMENT EQUILIBRIA	10-112
ELECTRON BEAM CONTROLLED LASERS: DISCUSSION FROM THE ENGINEERING VIEWPOINT: PART 1: DESIGN OF THE LASER KJ AND 10 KJ CARBON DIOXIDE LASERS	20-18	APPLICATION OF THE VLASOV FLUID MODEL TO THE SCREW PINCH	10-2
VIRING SWAP-PAVING, LTD. CARBONFIBRE THERMOELECTRIC GENERATING SOLID PROPELLANT FIRE TEST	17-50	VOLU FISSION GAS AND VOLUME MEASURING SYSTEM	11-6
VOLATING EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESON TRANSITIONS IN PARITY VIOLATING NUCLEAR PROCESSES	22-11	VOLCANIC ARTIFICIAL GEOTHERMAL RESERVOIRS IN HOT VOLCANIC ROCK	11-1
SEARCH FOR A PARITY VIOLATING CONTRIBUTION TO NEUTRON-NEUTRON SCATTERING	25-103	VOLTAGE DESIGN OF A HIGH VOLTAGE GENERATOR FOR THE LASL IMPLOSION HEATING EXPERIMENT	10-10
VOLATION RELEVANCE OF SODIUM-NEUTRON-PROTON POLARIZATION DATA TO 1 VIOLATION AT INTERMEDIATE ENERGIES	22-52	HIGH VOLTAGE TECHNOLOGY FOR THE LASL IMPLOSION HEATING EXPERIMENT	10-11
SEARCH FOR VIOLATION OF TIME REVERSAL INVARIANCE IN THE Li-6 + AND Li-7 + Li-7 GAMMA RAYS	25-105	VOLUTHERIA NUMERICAL METHODS FOR NONLINEAR VOLUTHERIA INTEGRO-DIFFERENTIAL EQUATIONS	21-15
		VOLUME FISSION GAS AND ENERGY TRANSFER THROUGH TEST HOLES AND ATMOSPHERIC PRESSURE EFFECTS ON THE MAIN ACQUER	11-1
		FISSION GAS AND VOLUME MEASURING SYSTEM	11-6

METHOD FOR MITIGATING BLAST AND SHOCK TRANSMISSION WITHIN A CONFINED VOLUME	15-4	WATER	
VORTEXES		DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
NUMERICAL SOLUTION OF THE FLOW STRUCTURE IN TORNADO-LIKE VORTEXES	18-20	QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. JANUARY 1 THROUGH MARCH 31, 1974.	7-10
STRUCTURAL ANALYSIS OF TORNADO-LIKE VORTEXES	18-26	FUNDAMENTAL ASPECTS OF SYSTEMS FOR THE THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER.	7-6
SPACE FIXED VS BODY FIXED AXES IN ATOM-DIATOMIC MOLECULE		QUARTERLY REPORT. THERMOCHEMICAL PRODUCTION OF HYDROGEN FROM WATER. APRIL 1 THROUGH JUNE 30, 1974.	7-9
SCATTERING: SUDDEN APPROXIMATIONS	4-46	WATER SUPPLY AT LOS ALAMOS DURING 1973.	11-34
JOULE LOSSES IN LINEAR THETA PINCHES: LASER VS MAGNETIC HEATING.	10-49	PHOTON - OXYGEN -17 SPIN - SPIN COUPLING CONSTANT IN LIQUID WATER.	14-4
VIA		SPIN RELAXATION IN OXYGEN -17 ENRICHED WATER.	14-5
VIA EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH	10-116	PLUTONIUM -238 INCORPORATED IN FISH LIVING IN WATER CONTAINING PLUTONIUM -238 DIOXIDE.	17-40
WALL		EXPERIMENTAL OBSERVATIONS OF UNDERWATER DETONATIONS NEAR THE WATER SURFACE.	18-9
SURFACE EFFECTS AT THE FIRST WALL OF THE REFERENCE THETA PINCH REACTOR (RTPR)	10-101	LASER INDUCED RECOVERY OF DEUTERIUM OR TRITIUM FROM WATER	20-76
UPDATE OF FIRST WALL INSULATOR REQUIREMENTS FOR THE REFERENCE THETA PINCH REACTOR (RTPR) (A SUMMARY REVIEW OF MATERIAL REPORTED SINCE APRIL 1974)	10-114	ANTIMONY - BERYLLIUM NEUTRON SOURCE FOR THE LASL WATER BOILER REACTOR.	28-2
DIELECTRIC BREAKDOWN OF POTENTIAL RTPR (REFERENCE THETA PINCH REACTOR) FIRST WALL MATERIALS	10-113	PRELIMINARY STUDY OF THE QUALITY OF WATER IN THE DRAINAGE AREA OF THE GOMEZ RIVER AND RIO GUADALUPE.	30-20
FIRST WALL FLUXES IN A THETA PINCH FEASIBILITY/DEUTERIUM - TRITIUM EXPERIMENT.	10-11	WATT	
FIRST WALL MATERIALS PROBLEMS IN FUSION REACTORS.	10-12	PROTOTYPE TESTS ON A 20 WATT FORCED CONVECTION LIQUID HYDROGEN/DEUTERIUM TARGET	8-10
POTENTIAL FATIGUE PROBLEMS IN FIRST WALL LASER CONTROLLED FUSION REACTORS	10-74	WAVE	
REVIEW OF SEX FTR FIRST WALL RESEARCH AND DEVELOPMENT PROGRAM AT LASL	10-84	POSSIBLE ALFVEN WAVE GENERATION MECHANISM IN INTERPLANETARY SPACE	1-27
LASER FUSION REACTOR CONCEPT UTILIZING MAGNETIC FIELDS FOR CAVITY WALL PROTECTION	20-73	FAST WAVE HEATING OF TOKAMAK PLASMAS.	10-30
MAGNETICALLY PROTECTED FIRST WALL FOR A LASER INDUCED THERMONUCLEAR REACTION	20-81	NUMERICAL MODEL OF EDGE WAVE GENERATION FOR A DISTURBANCE NEAR A SHORELINE.	11-20
WALLS		MOTION OF AN EXPLOSIVE INDUCED PLANE SHOCK WAVE	18-14
FERMAT FUNCTIONS AND THE GENERAL WALLS PRODUCT	21-23	STANDING WAVE PUMPED PARAMETRIC INSTABILITIES	20-128
WALLS		SURFACE WAVE ABSORPTION	20-131
CALCULATION OF MAGNETIC FIELDS WITH GIVEN, NEARLY CYLINDRICAL, CONDUCTING WALLS	10-5	NONLINEAR MODIFICATION OF INHOMOGENEOUS PLASMA PROFILES BY AN INTENSE ELECTROMAGNETIC WAVE	20-91
WARFARE		BIASING FIRST ORDER WAVE EQUATIONS - 1, 2, 3, 4, AND 5	22-3
COMPUTER SIMULATION OF TACTICAL NUCLEAR WARFARE	10-7	WAVELENGTH	
WASTE		MEASUREMENTS ON HALF WAVELENGTH HELIX RESONATORS	19-15
GAMMA RAY ASSAY OF LOW ENRICHED URANIUM WASTE	20-11	WAVELENGTHS	
ANALYTICAL/EMPIRICAL ANALYSIS/MEASUREMENT OF LOW LEVEL URANIUM AND PLUTONIUM WASTE	20-16	WAVELENGTHS, ENERGY LEVELS, AND ANALYSIS OF THE SECOND SPECTRUM OF CHLORINE (CHLORINE-35)	4-59
IMPACT OF AEC MONITORING OPERATIONS OF THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) LIQUID WASTE MANAGEMENT GROUP	10-14	WAVES	
QUARTERLY REPORT: TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS: APRIL - JUNE 1974	10-12	SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29
QUARTERLY REPORT: TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS: JULY - SEPTEMBER 1974	10-13	STABILITY ANALYSIS OF BKG WAVES	10-93
QUARTERLY REPORT: TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS: OCTOBER - DECEMBER 1974	10-14	STABILITY OF PLASMA AND SURFACE WAVES WHICH OCCUR IN THE LINEAR MODE CONVERSION PROCESS	20-127
QUARTERLY REPORT: TRANSURANIC SOLID WASTE MANAGEMENT RESEARCH PROGRAMS: JANUARY - MARCH 1974	10-15	WAY	
TREATMENT OF NIOBUM PENTACHLORIDE ROVER PROJECT WASTE	10-58	SOME FUNNY THINGS HAPPENED ON THE WAY TO THE LIMIT OF ERROR STANDARD	21-55
WASTES		WEIGHT	
GUIDELINES FOR THE INTERIM STORAGE OF AEC GENERATED SOLID TRANSURANIC WASTES	1-20	DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-57 AIRCRAFT	10-8
POTENTIAL RADIOACTIVITY MONITOR FOR LIQUID EFFLUENTS, SURFACE CONTAMINATIONS, AND BULK SOLID WASTES	20-75	WEAK	
STUDIES ON SORTING AND CHARACTERIZATION OF PLUTONIUM PROCESS AND ROOM GENERATED WASTES	20-55	EXCHANGE CURRENT CONTRIBUTIONS FROM WEAK RADIATIVE MESONIC TRANSITIONS IN PARTIALLY VIOLATING NUCLEAR PROCESSES	22-14
TREATMENT OF TOXIC CHEMICAL WASTES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	10-59	K ⁰ TO PH ⁰ GAMMA - GAMMA DECAY IN A CURRENT CURRENT OF ARG MODEL AND A UNIFIED APPROACH TO WEAK RADIATIVE KAON DECAYS	22-77

WEAPONS		SOLAR WIND HEAVY ION ABUNDANCES	1-17
COUPLED NEUTRON - GAMMA MULTIGROUP MULTITABLE CROSS SECTIONS FOR 26 MATERIALS PERTINENT TO NUCLEAR WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION.	25-30	SOLAR WIND HELIUM(2+) TO HYDROGEN(1+) TEMPERATURE RATIO	1-33
SHORT ACCOUNT OF LOS ALAMOS THEORETICAL WORK ON THERMONUCLEAR WEAPONS, 1946-1950.	30-38	UPPER LIMITS FOR THE SOLAR WIND HELIUM CONTENT AT 1 AU.	1-35
TACTICAL NUCLEAR WEAPONS: OBJECTIVES AND CONSTRAINTS.	30-56	BOW SHOCK PERTURBATION OF THE UPSTREAM SOLAR WIND PROTON COMPONENT.	1-5
UNITED STATES NATIONAL SECURITY POLICY AND NUCLEAR WEAPONS.	30-61	NUMERICAL ANALYSIS OF TORNADO WIND LOADS ON BUILDINGS	18-18
WEIBEL		CALCULATIONS OF COMPRESSIBLE WIND FLOW OVER SIMPLE MARCHIAN OBSTACLES.	18-5
LINEAR THEORY OF THE RELATIVISTIC WEIBEL AND TWO STREAM INSTABILITIES.	20-79	WINDOW	
WEIBULL		WINDOW LIMITATIONS FOR CARBON DIOXIDE LASER FUSION SYSTEMS	20-117
FITZWEIR: A PROGRAM TO FIT FAILURE DATA TO WEIBULL PROBABILITY PARAMETERS	10-33	WINDOWS	
WEIGHT		THIN METAL WINDOWS FOR GAS TARGETS	11-20
HIGH MOLECULAR WEIGHT HEPARAN SULFATE FROM THE CELL SURFACE.	5-49	WIRE	
URANIUM (0.83 WEIGHT PERCENT) TITANIUM ALLOY: COOLING RATES OF GAMMA QUENCHED ALLOY, RESULTING MICROSTRUCTURE AND RESPONSE TO AGING	23-39	IMPROVED HOT WIRE ELECTROEXPLOSIVE DEVICES	15-1
WELD		WNR	
BRAZE WELD JOINTS FOR VACUUM SYSTEM ASSEMBLIES.	13-1	FIGURE OF MERIT COMPARISON BETWEEN WNR AND ORELA FACILITIES	27-4
WELDABILITY		WORKER	
ELECTRON BEAM WELDABILITY OF 21-6-9 STAINLESS STEEL.	23-5	RELATIONSHIP BETWEEN AIR SAMPLING DATA FROM GLOVE BOX WORK AREAS AND INHALATION RISK TO THE WORKER.	17-60
WELDING		WORKING	
APPLYING THE METRIC SYSTEM TO WELDING	30-4	PREPARATION OF WORKING CALIBRATION AND TEST MATERIALS FOR INTRA AND INTERLABORATORY SURVEILLANCE OF NUCLEAR MATERIALS MEASUREMENT METHODS: PLUTONIUM NITRATE SOLUTION	2-14
WELL		WORKS	
IMMUNODIFFUSION IN GELS CONTAINING ERYTHROCYTE ANTIGEN. 1. THEORY FOR DIFFUSION OF ANTISERUM FROM A CIRCULAR WELL.	5-51	SETS, NUMBERS, AND UNIVERSES: SELECTED WORKS	21-49
GEOTHERMAL WELL TECHNOLOGY AND POTENTIAL APPLICATIONS OF SUBTERRANEAN DEVICES: A STATUS REVIEW	11-13	WORKSHOP	
WESTERN		USAEC WORKSHOP ON PERSONNEL NEUTRON DOSIMETRY	17-77
POTENTIAL FOR HOT DRY ROCK GEOTHERMAL ENERGY IN THE WESTERN UNITED STATES	11-22	WOUND	
WHISTLERS		PLUTONIUM CONTAMINATED WOUND EXPERIENCE AND ASSAY TECHNIQUES AT THE LOS ALAMOS SCIENTIFIC LABORATORY	17-43
PARAMETRIC INSTABILITIES OF WHISTLERS.	10-68	X	
WHOLE		PORTABLE FLASH X RAY SYSTEMS: TECHNIQUES AND APPLICATIONS.	5-11
ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-12	X RAY SPECTROGRAPHIC DETERMINATION OF IRIIDIUM IN LITHIUM HYDRIDE OR LITHIUM DEUTERIDE.	2-18
DEVELOPMENT OF A LASL WHOLE AIR SAMPLER FOR WB-37F AIRCRAFT	19-8	REVIEW OF COSMIC GAMMA RAY AND X RAY BURSTS	3-20
WICK		TRANSIENT COSMIC GAMMA AND X RAY SOURCES: 1951 CONFERENCE, LOS ALAMOS, NM. PROCEEDINGS	17-5
PERFORMANCE TESTS OF GRAVITY ASSIST HEAT PIPES WITH SCREEN WICK STRUCTURES	11-14	MEASUREMENTS OF X RAY SCATTERING AT 90 DEGREES IN SELECTED BERYLLIUM FOILS AT FLUORESCENT ENERGIES FROM 0.332 TO 10.532 KEV	4-11
WILLBACH		COHERENT AND INCOHERENT X RAY SCATTERING BY BOUND ELECTRONS IN FIVE ELECTRON ATOMS	4-6
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHREE, AND NUCLEAR THEFT: RISKS AND SAFEGUARDS, BY M. WILLBACH AND T. B. TAYLOR	26-3	USE OF MU-MESIC X RAYS AS A MEDICAL TOOL.	5-115
BOOK REVIEW: THE CURVE OF BINDING ENERGY, BY J. MCPHREE, AND NUCLEAR THEFT: RISKS AND SAFEGUARDS, BY M. WILLBACH AND T. B. TAYLOR	26-4	DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 1. LOSS OF ULTRAVIOLET ABSORPTION OF SOLUTIONS OF THYMINE OR THYMINE DERIVATIVES UPON X IRRADIATION.	5-26
WIND		DEGRADATION OF NUCLEIC ACID IN AQUEOUS SOLUTION BY IONIZING RADIATION. 2. ANALYSIS OF THE CONTRIBUTION OF VARIOUS WATER RADICALS TO THE LOSS OF ULTRAVIOLET ABSORPTION BY THYMIDYLATE SOLUTIONS DURING X IRRADIATION.	5-27
ABUNDANCE DIFFERENCES IN SOLAR WIND DOUBLE STREAMS.	1-1	EFFECTS OF X IRRADIATION ON DNA PRECURSOR METABOLISM AND DEOXYRIBONUCLEOSIDE TRIPHOSPHATE POOLS IN CHINESE HAMSTER CELLS	5-40
HELIUM AND HYDROGEN VELOCITY DIFFERENCES IN THE SOLAR WIND.	1-10	ELEMENTAL ANALYSIS OF WHOLE BLOOD USING PROTON INDUCED X RAY EMISSION.	5-42
HELIUM COMPONENT OF SOLAR WIND VELOCITY STREAMS	1-11	IN VIVO TISSUE ANALYSIS USING MU-MESIC X RAYS.	5-54
INTERPENETRATING SOLAR WIND STREAMS	1-12	INITIATION OF IN VITRO RNA SYNTHESIS BY COVALENT ATTACHMENT TO X IRRADIATED DNA.	5-56
INTERPENETRATING SOLAR WIND STREAMS.	1-13	MATHEMATICAL ANALYSIS OF THE DESTRUCTION OF THE BASE MOIETIES OF THYMIDINE 5'-MONOPHOSPHATE AND POLYDEOXYTHYMIDYLATE IN SOLUTION BY X IRRADIATION.	5-67
SOLAR WIND ELECTRON TEMPERATURE DEPRESSIONS FOLLOWING SOME INTERPLANETARY SHOCK WAVES: EVIDENCE FOR MAGNETIC MERGING	1-29		
SOLAR WIND ELECTRON VARIATIONS IN HIGH SPEED STREAMS	1-30		
SOLAR WIND ELECTROSTATIC POLARIZATION POTENTIAL AT 1 AU.	1-31		

PROGRESS TOWARD USING MU-MESIC X RAYS AS A DIAGNOSTIC TOOL	5-94	YIELDS	
RHE AND OER VARIATIONS OF MIXTURES OF PLUTONIUM ALPHA PARTICLES AND X RAYS FOR DAMAGE TO HUMAN KIDNEY CELLS (T-D)	5-99	MONTE CARLO TRAJECTORIES: THE REACTION HYDROGEN + BROMINE(2) YIELDS HYDROGEN BROMIDE + BROMINE	6-12
METHOD FOR THE ACCURATE MEASUREMENT OF LATTICE COMPRESSIONS OF LOW Z MATERIALS AT PRESSURES UP TO 12 GIGAPASCAL BY X RAY DIFFRACTION	9-11	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $D + H_2$ YIELDS $OH + H$	6-17
A RAY STUDY OF HELIUM - 4 CLOSE PACKED STRUCTURES AT HIGH PRESSURE	9-29	TRANSIENT OXYGEN ATOM YIELDS IN HYDROGEN - OXYGEN IGNITION AND THE RATE COEFFICIENT FOR $D + H_2$ YIELDS $OH + H$	6-17
SOFT X RAY SOURCE	13-19	FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238	16-26
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS BY SPECTROSCOPIC AND IMAGING TECHNIQUES	20-38	INDEPENDENT FISSION YIELDS OF RUBIDIUM AND CESIUM FROM URANIUM -238 INDUCED BY FISSION SPECTRUM NEUTRONS	16-17
OPTICAL AND X RAY DIAGNOSTICS OF LASER PRODUCED PLASMAS	20-39	INDEPENDENT YIELDS OF XENON -135M, XENON -135G, XENON -135M AND XENON -135G FROM FISSION	16-18
EVIDENCE FOR HIGHER SHAPE DEFORMATIONS IN MUONIC X RAYS	22-43	MASS YIELDS FROM SPONTANEOUS FISSION OF CALIFORNIUM -254	16-20
COMPARISON OF MUONIC - ATOM AND ELECTRONIC X RAY ISOTOPE SHIFTS IN LEAD	22-9	PROMPT AND DELAYED NEUTRON YIELDS FROM LOW ENERGY PHOTOFISSION OF THORIUM -232, URANIUM -235, URANIUM -238 AND PLUTONIUM -239	16-27
RINX - RUD INTERPRETATION OF NEUTRON X SECTIONS	25-17	ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS	16-7
LINX - LIBRARY INTERPRETATION OF NEUTRON X SECTIONS	25-59	ESTIMATED VALUES OF FRACTIONAL YIELDS FROM LOW ENERGY FISSION AND A COMPILATION OF MEASURED FRACTIONAL YIELDS	16-7
MULTIPLE SCATTERING ENHANCEMENT OF X RAYS	25-71	PROCESS MU - 4 LITHIUM - 6 YIELDS HYDROGEN - 3 + HYDROGEN - 1 + NI WITH FINAL STATE INTERACTIONS	22-44
FISSIONABLE MATERIAL ASSAY USING MU-MESIC X RAYS	26-9	NEUTRON YIELDS FROM URANIUM ISOTOPES IN URANIUM HEXAFLUORIDE	25-77
XENON		YOUNG	
VIBRATIONAL INVERSION OF CYANOGEN PRODUCED BY FLASH PHOTOLYSIS OF BROMIUM CYANIDE IN EXCESS XENON	6-29	DIRECT USE OF YOUNG TABLEAU ALGEBRA TO GENERATE THE CLEBSCH-GORDAN COEFFICIENTS OF $SU(2)$	21-16
ATX EMISSION FROM ARGON, KRYPTON, AND XENON IN A RADIAL VIEWED THETA PINCH	10-116	YTTRIUM	
FRACTIONAL CUMULATIVE YIELDS OF SOME KRYPTON AND XENON NUCLIDES FROM FISSION SPECTRUM NEUTRON INDUCED FISSION OF URANIUM -235 AND URANIUM -238	16-16	OCULAR HAZARD FROM PICOSECOND PULSES OF NEODYMIUM - YTTRIUM ALUMINIUM - GARNET LASER RADIATION	17-42
INDEPENDENT YIELDS OF XENON -135M, XENON -135G, XENON -135M AND XENON -135G FROM FISSION	16-18	PRESSURE DEPENDENCE OF T(C) IN THE YTTRIUM-THORIUM CARBIDE SYSTEM	21-25
INDEPENDENT YIELDS OF XENON -135M, XENON -135G, XENON -135M AND XENON -135G FROM FISSION	16-18	EVIDENCE FOR FERROMAGNETISM IN ALLOYS FORMED BETWEEN URANIUM TETRABORIDE AND YTTRIUM TETRABORIDE	21-7
INDEPENDENT YIELDS OF XENON -135M, XENON -135G, XENON -135M AND XENON -135G FROM FISSION	16-18	OBSERVATION OF THE E3 ISOMER OF YTTRIUM -93	25-41
INDEPENDENT YIELDS OF XENON -135M, XENON -135G, XENON -135M AND XENON -135G FROM FISSION	16-18	YUKAWA	
EFFICIENT HIGH ENERGY DENSITY MOLECULAR XENON LASER	20-44	CALCULATION OF FISSION BARRIERS WITH THE DROPLET MODEL AND FOLDED YUKAWA SINGLE PARTICLE POTENTIAL	16-2
EFFICIENT HIGH POWER XENON AND XENON - RARE GAS MIXTURE LASERS	20-45	LOWEST NONNEGATIVE SOLUTION OF THE YUKAWA HAMILTONIAN	21-29
EFFICIENT HIGH POWER XENON AND XENON - RARE GAS MIXTURE LASERS	20-45	Z	
SPONTANEOUS DECAY OF THE 3d5/2m1/2+1 STATE OF XENON -12	25-107	ENERGY AND PRESSURE BALANCE CONSIDERATIONS IN Z PINCHES	19-18
BRANCHING RATIO FOR THE DECAY OF IODINE -135 TO THE ISOMERS OF XENON -135	25-118	IZO CURRENT MEASUREMENTS IN THE SCYLLAC TORUS	19-44
XIN		PRESSURE BALANCE LIMITATIONS IN Z PINCHES WITH DIFFUSION HEATING	19-78
THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIN) TO IRON(XIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR	3-33	STABILITY OF THE ZT1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS	19-97
XSMOD		VACUUM POLARIZATION IN HIGH Z, FINITE SIZE NUCLEI	25-121
XSMOD: A CODE FOR THE MODIFICATION OF THE LOS ALAMOS MASTER DATA FILE	21-69	ZERO	
XNIV		ZERO ORDER PSEUDOPOTENTIALS AND THE GENERALIZED PSEUDOPOTENTIAL THEORY	4-60
THEORETICAL AND EXPERIMENTAL STUDY OF IRON(XIN) TO IRON(XIV) SOLAR FLARE SPECTRA AND ISOELECTRONIC SPECTRA IN SULPHUR	3-33	POOL BOILING HEAT TRANSFER TO LIQUID HELIUM AND LIQUID NITROGEN IN A NEARLY ZERO GRAVITY ENVIRONMENT	8-23
YIELD		TOWARD A LASER POWER AMPLIFIER WITH ZERO SMALL SIGNAL GAIN	20-41
CROSS SECTION FOR THE DELAYED NEUTRON YIELD FROM THE BERYLLIUM -9 (NEUTRON, PROTON) LITHIUM -9 REACTION AT NEUTRON ENERGIES OF (14.5 AND) 14.9 MEV	25-31	TOWARD A ZERO SMALL SIGNAL LASER POWER AMPLIFIER	20-142
MASS YIELD DISTRIBUTIONS IN THE REACTION OF KRYPTON -87 IONS WITH URANIUM -238	25-63	ZERON	
		SOME COMPUTATIONS OF EXPECTED NUMBER OF REAL ZEROS OF RANDOM POLYNOMIALS	21-54
		ZINC	
		VIBRATIONAL SPECTRA OF POTASSIUM ZINC CYANIDE, POTASSIUM CADMIUM CYANIDE, AND POTASSIUM MERCURY CYANIDE	4-57

ZIRCONIUM (TRITON, PROTON) REACTION TO THE LOW LYING LEVELS OF THE ZIRCONIUM ISOTOPES.	25-1
TEMPERATURE DEPENDENCE OF THE ELECTRIC QUADRUPOLE INTERACTION IN LEAD ZIRCONIUM TRIOXIDE.	29-3
ZPPR ANALYSIS OF ZPPR/FTR-2 TLD MEASUREMENTS USING ENDF/B-III DATA.	25-4
ZT-1 TEMPERATURE MEASUREMENTS ON ZT-1.	10-104
IMPROVED STABILITY OF THE ZT-1 TOROIDAL PINCH BY PROGRAMMING.	10-45
MAGNETIC FIELD PROGRAMMING IN ZT-1.	10-56
PRESENT STATUS AND FUTURE PROGRAM OF THE ZT-1 EXPERIMENT.	10-77
STABILITY OF THE ZT-1 TOROIDAL Z PINCH AT REDUCED TOROIDAL CURRENTS.	10-97