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Radiation Laboratory**

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UCRL-10000
Vol. 1960

UNIVERSITY OF CALIFORNIA

Lawrence Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

INDEX OF BERKELEY UCRL REPORTS
ISSUED IN 1960

Technical Information Division

April 1962

UNIVERSITY OF CALIFORNIA

Lawrence Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

ERRATA

TO: Recipients of UCRL-10000
FROM: Technical Information Division
SUBJECT: Index of Berkeley UCRL Reports Issued in 1960 by Technical
Information Division, dated April 1962

Please make the following corrections on your copy of subject
report.

Section I

1. Page 12, Ref. 071: logitudinal should be longitudinal.
2. Page 30, Ref. 173: should be listed in Electronics and Instruments
Category with first edition of the same report
(UCRL-9298)
3. Page 38, Ref. 220: lamda should be lambda.
4. Page 62, Ref. 369: lamda should be lambda.

Section II (Index)

5. Page 31: lamda should be lambda (twice)

Note:

Pages 55, 56: Smith's are not in alphabetic sub-order.

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INTRODUCTION

This is a list and index of unclassified UCRL Reports published by the Lawrence Radiation Laboratory, University of California at Berkeley, California in 1960. It does not include (1) Reports published by the Laboratory at Livermore, California, (2) Reports prepared for intra-Laboratory distribution only, or (3) Security classified reports.

Translations made or ordered made by Lawrence Radiation Laboratory Berkeley, are included and are indicated by the abbreviation "Trans" in the report number.

Reports included in this volume are those which were cited in the 1960 issues of "Unclassified Reports Title List" (UCRL-12000, Vol. 2). Since there is a slight lag between the date when a report is published and the date when its title appears in UCRL-12000, a few reports published in late 1959 appear in this index and similarly a few published in late 1960 do not appear. Frequently the date of the report (the one shown on the report) is considerably earlier than the date of publication (distribution).

This index is divided into two sections. The first section consists of the complete report citation arranged under broad subject divisions (see Table of Contents) and subarranged within the divisions by report number. Slight changes have been made in some titles to verbalize symbols or to suit limited punctuation facility of the computer used to prepare this index. Please note in some cases when a title is poor or meaningless for a subject approach (Keyword-In-Context), it has been necessary to add words or phrases

to best describe the subject content of the report. These words or phrases are enclosed in parentheses and added to the line below the original title. The information given in parenthesis is not to be confused in a citation with the report title. The second section of this list is a subject-author and report number index to the citations appearing in the first section. This index is prepared on the IBM 1401 by the arrangement of authors and words within the report title in alphabetical order. These words and names are shifted alphabetically to a central position on the page. In addition to the entry title word or author's name each line of the index contains the remainder of the entry up to a total of sixty characters and spaces. About 350 recurring non-significant words that may appear in report titles are not included as index entries.

Section I of this list can be used for scanning purposes, and Section II for the location of specific information by author, subject, or report number.

In Section I all citations are assigned a consecutive serial number. The same serial number is assigned to each index entry for a given report. The first three digits of the serial number are the identifying figures for a particular report. For example 099 60, ... 099 is the reference number for the 99th report in Section I; the last two digits, 60, refer to the 1960 volume of this index series.

In order to accomodate computer limitations, some titles have been edited to verbalize certain symbols and characters to substitute for certain marks of punctuation, to avoid confusing alpha-numeric notations, or to expand titles made up of words insufficiently descriptive of the subjects treated.

This volume is the first one of a new series. If it meets needs as expected and is well received, we intend to publish a 1961 volume soon and then perhaps one for 1959. Suggestions for improvements are welcome and should be addressed to the Information Division, Lawrence Radiation Laboratory, Berkeley.

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UCRL-9009 STUDIES ON THE YEAST NUCLEUS. URANYL NITRATE AS AN ELECTRON STAIN. W. BIRNBAUM, JR. AND T. L. HAYES

DECEMBER 14, 1959 8P

SUBMITTED FOR PUBLICATION IN THE JOURNAL OF BIOPHYSICAL AND BIOCHEMICAL CYTOLOGY

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UCRL-9012 RADIATION EFFECT ON THE PERMEABILITY OF YEAST CELLS TO SODIUM AND POTASSIUM IONS. K. HSU

DECEMBER 14, 1959 101P

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UCRL-9022-ABSTRACT RADIATION EFFECTS ON THE PERMEABILITY OF YEAST CELLS TO POTASSIUM AND SODIUM IONS. K. HSU.

JANUARY 6, 1960 1P

FOR PRESENTATION AT FOURTH ANNUAL MEETING OF BIOPHYSICS SOCIETY, PHILADELPHIA, FEBRUARY 24-26, 1960

010 60

UCRL-9032-ABSTRACT RESPONSES OF FROG SCIATIC NERVE TO HIGH-ENERGY ALPHA PARTICLES AND DEUTERONS. C. T. GAFFEY

JANUARY 1960

FOR PRESENTATION AT THE MEETING OF THE BIOPHYSICAL SOCIETY, PHILADELPHIA, PENNSYLVANIA, FEBRUARY 25-27, 1960

011 60

UCRL-9033 DYNAMICS OF THE PHOTOSYNTHESIS OF CARBON COMPOUNDS PART 1. CARBOXYLATION REACTIONS. J. A. BASSHAM AND M. KIRK

JANUARY 1960 35P

SUBMITTED FOR PUBLICATION IN BIOCHIMICA ET BIOPHYSICA ACTA.

012 60

UCRL-9040 THE CHEMICAL, PHYSICAL, AND BIOLOGICAL PROPERTIES OF HUMAN SERUM PHOSPHOLIPIDES. G. J. NELSON

JANUARY 1960 80P

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UCRL-9041, UCRL-9135, UCRL-9208, UCRL-9408 BIO-ORGANIC
CHEMISTRY. QUARTERLY REPORTS.

DECEMBER 21, 1959 - SEPTEMBER 1960
FOR SEPTEMBER 1959 TO AUGUST 1960

014 60

UCRL-9073 THE PHOTOSYNTHETIC CYCLE. RELATIONSHIPS OF GLUTAMIC
ACID AND GLUTAMINE. H. SIMON
FEBRUARY 1960 17P
SUBMITTED FOR PUBLICATION IN ARCHIVES OF BIOCHEMISTRY AND
BIOPHYSICS.

015 60

UCRL-9108 BIOLOGICAL MIXTURES, SOME BIOPHYSICAL PROBLEMS,
AND THE STABLE FLOW FREE BOUNDARY METHOD. H. C. MEL
FEBRUARY 26, 1960 36P
FOR PRESENTATION AT THE BIOPHYSICAL SOCIETY ANNUAL MEETING,
PHILADELPHIA, FEBRUARY 26, 1960.

016 60

UCRL-9131 ABSTRACT EFFECT OF DEHYDRATION AND ANOXIA ON YEAST
RADIOSENSITIVITY TO DENSELY IONIZING PARTICLES. T. R. MANNEY,
T. BRUSTAD, J. BARR, AND C. A. TOBIAS
APRIL 1960 1P
FOR PRESENTATION AT THE 8TH RADIATION RESEARCH SOCIETY ANNUAL
MEETING, SAN FRANCISCO, MAY 1960.

017 60

UCRL-9132 ABSTRACT DOSE EFFECT RELATIONS IN HAPLOID AND
DIPLOID SPERM OF THE WASP MORMONIELIA. R. K. MORTIMER AND
R. C. VONBORSTEL
APRIL 1960 1P
FOR PRESENTATION AT THE 8TH RADIATION RESEARCH SOCIETY ANNUAL
MEETING, SAN FRANCISCO, MAY 1960.

018 60

UCRL-9133 ABSTRACT MUTATION INDUCTION IN SACCHAROMYCES USING
RADIATIONS OF DIFFERENT LINEAR ENERGY TRANSFER. R. K. MORTIMER
AND T. BRUSTAD
APRIL 1960 1P
FOR PRESENTATION AT THE 8TH RADIATION RESEARCH SOCIETY ANNUAL
MEETING, SAN FRANCISCO, MAY 1960.

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019 60

UCRL-9134 ABSTRACT POSTIRRADIATION PROTECTION OF MICE WITH LIPIDS. J. K. ASHIKAWA

APRIL 1960 1P

FOR PRESENTATION AT THE 8TH RADIATION RESEARCH SOCIETY ANNUAL MEETING, SAN FRANCISCO, MAY 1960.

020 60

UCRL-9153 ELECTRON SPIN RESONANCE STUDIES ON PHOTOSYNTHETIC MATERIALS. P. B. SOGO, L. A. CARTER, AND M. CALVIN

MAY 11, 1960 8P

SUBMITTED FOR PUBLICATION IN THE PROCEEDINGS OF THE SYMPOSIUM ON FREE RADICALS IN BIOLOGICAL SYSTEMS.

021 60

UCRL-9170 SOME PHOTOCHEMICAL AND PHOTOPHYSICAL REACTIONS OF CHLOROPHYLL AND ITS RELATIVES.

M. CALVIN

APRIL 11, 1960 64P

FOR PRESENTATION AT THE MCCOLLUM-PRATT SYMPOSIUM ON LIGHT AND LIFE, JOHNS HOPKINS UNIVERSITY, MARCH 28-31, 1960.

022 60

UCRL-9185 ELECTRON MICROSCOPE OBSERVATIONS ON SACCHAROMYCES CEREVISIAE. J. K. KOEHLER

APRIL 25, 1960 17P

SUBMITTED FOR PUBLICATION IN THE JOURNAL OF BACTERIOLOGY.

023 60

UCRL-9186 PROGRAM AT THE DONNER LABORATORY AND LAWRENCE RADIATION LABORATORY. D. C. VAN DYKE

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TALK TO BE GIVEN BY D. C. VAN DYKE AT 9TH INTERNATIONAL CONF. OF NUCLEAR MEDICINE IN ROME

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UCRL-9205 BONE MARROW ACTIVITY IN VITRO UNDER THE INFLUENCE OF ANEMIC SERUM AND HUMAN ERYTHROPOIETIN.

J. S. BECK

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UCRL-9226 ELECTRON MICROSCOPE OBSERVATIONS OF RADIATION
INDUCED HELA GIANTS. J. K. KOEHLER

MAY 23, 1960 17P

SUBMITTED FOR PUBLICATION IN RADIATION RESEARCH.

026 60

UCRL-9233 A STUDY OF THE MECHANICAL IMPEDANCE TO FLOW
IN THE FEMORAL PERIPHERAL VASCULAR BED OF THE DOG. H.
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JULY 7, 1960 28P

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UCRL-9255 SUPERIMPOSED OPTICAL AND GAMMA RAY SCANNER
IMAGES. H. O. ANGER AND G. M. TISLJAR-LENTULIS

JUNE 6, 1960 9P

SUBMITTED FOR PUBLICATION IN AMERICAN JOURNAL OF ROENT-
GENOLOGY.

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UCRL-9256 THE INFLUENCE OF A SINGLE DOSE OF I-131
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P. W. DURBIN, G. D. BARR, M. H. WILLIAMS, N. JEUNG, AND
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JUNE 6, 1960 42P

SUBMITTED FOR PUBLICATION IN RADIATION RESEARCH.

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UCRL-9256 REV. ESTIMATION OF RADIATION DOSAGE DELIVERED
BY A SINGLE MASSIVE INJECTION OF I-131 IN THE RAT. P. W.
DURBIN, G. D. BARR, M. H. WILLIAMS, N. JEUNG, AND M. E.
JOHNSTON

JUNE 6, 1960 33P

SUBMITTED FOR PUBLICATION IN RADIATION RESEARCH.

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UCRL-9284 QUANTITATIVE ASPECTS OF MATING BEHAVIOR IN
DROSOPHILA. P. E. HILDRETH

JUNE 24, 1960 33P

SUBMITTED FOR PUBLICATION IN EVOLUTION.

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UCRL-9290 - FURTHER STUDIES ON STERILITY PRODUCED IN MALE MICE BY DEUTERIUM OXIDE. A. M. HUGHES, E. L. BENNETT, AND M. CALVIN

JUNE 1960 - 12P

SUBMITTED FOR PUBLICATION IN BOOKLET BY THE NEW YORK ACADEMY OF SCIENCES.

032 60

UCRL-9323 - DYNAMICS OF THE PHOTOSYNTHESIS OF CARBON COMPOUNDS, PART 2. AMINO ACID SYNTHESIS. D. C. SMITH, J. A. BASSHAM, AND M. KIRK

JULY 1960 - 29P

SUBMITTED FOR PUBLICATION IN BIOCHEM AND BIOPHYS. ACTA.

033 60

UCRL-9375 - A NEW TRAPEZOIDAL WAVE ELECTROMAGNETIC BLOOD FLOWMETER AND ITS APPLICATION TO THE STUDY OF BLOOD FLOW IN THE DOG. H. M. YANOF

AUGUST 25, 1960 - 72P

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UCRL-9383 - PHOTOSYNTHESIS. J. A. BASSHAM

AUGUST 1960 - 13P

FOR PUBLICATION J. CHEM. EDUCATION

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UCRL-9384 - THERAPY WITH HIGH-ENERGY PARTICLES.

G. P. WELCH

AUGUST 1960 - 27P

FOR PUBLICATION. CHAPTER B. III-3 OF ENCY. FOR MEDICAL RADIOLOGY.

036 60

UCRL-9412 - PHOTOSYNTHESIS. J. A. BASSHAM

SEPTEMBER 1960 - 11P

SUBMITTED FOR PUBLICATION IN CHEMISTRY IN CANADA.

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UCRL-9448 STUDIES OF THE GRAFT-HOST INTERACTION IN THE MOUSE. J. MCRAE

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UCRL-TRANS-520 OXYGEN SUPPLY OF AN ORGANISM UNDER CONDITIONS OF EXTREMELY GREAT RAREFACTIONS OF THE ATMOSPHERE, STUDIES MADE ON ANIMALS. D. I. IVANOV AND G. G. STURUA

1959 14P

TRANSLATED FROM BIOFIZIKA 4.243-9 1959 BY R. B. MUDGE.

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UCRL-TRANS-521 RELATIONSHIP BETWEEN POST IRRADIATION REVIVIFICATION REACTIONS AND THE DENSITY OF THE CELLULAR SUSPENSION, TEMPERATURE AND OXYGEN TENSION. V. I. KORO-GODIN, R. N. TARUSOV, AND A. K. TAMBIEV

1959 8P

TRANSLATED FROM BIOFIZIKA 4.224-7 1959 BY R. B. MUDGE, JANUARY 1960.

040-60

UCRL-TRANS-527 ON THE PROPERTY OF CHLOROPHYLL OF PHOTO-SENSITIZING REDOX REACTIONS UNDER HETEROGENEOUS CONDITIONS. V. B. EVSTIGNEEV AND V. A. GAVRILOVA

1959 15P

TRANSLATED FROM BIOFIZIKA 4.641-9 1959 BY M. KASSATKIN.

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UCRL-TRANS-560 ELECTRON PARAMAGNETIC RESONANCE SPECTRA OBSERVED WHEN LEAVES OF PLANTS ARE ILLUMINATED, AND THE PHOTOREDUCTION REACTIONS OF CHLOROPHYLL AND ITS ANALOGUES. N. N. BUBNOV

1960 13P

TRANSLATION BY R. B. MUDGE, IRL OF BIOFIZIKA 5,235-8 1960

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UCRL-TRANS-561 THE EFFECT OF OXYGEN ON THE EPR OF
SPECTRA OF LYOPHILIZED TISSUES. G. K. MOROZOVA AND
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1960 8P

TRANSLATION BY R. B. MUDGE LRL OF BIOFIZIKA 5.235-8 1960.

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UCRL-TRANS-562 EFFECT OF CAROTENE ON THE PHOTOCHEMICAL
PROPERTIES OF CHLOROPHYLL. A. A. KRASNOVSKII, N. N.
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1960 26P

TRANSLATION BY R. B. MUDGE OF BIOKIMIYA 25,288-95
1960

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UCRL-TRANS-605 THE DIRECT EFFECT OF X-RAYS ON PROTEINS,
PEPTIDES AND AMINO ACIDS. PART 1. EXAMINATION OF
PROTEINS. IRRADIATION OF LYSOZYME. A. CAPUTO AND K.
DOSE

1957 14P

TRANSLATION BY TRANSLATIONS, INC. FROM ZEITSCHRIFT
FUR NATURFORSCHUNG 12B, 172-80 1957.

045-60

UCRL-TRANS-606 THE DIRECT EFFECTS OF X-RAYS UPON
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UCRL-3515 STABILITY CONSTANTS OF ALPHA-HYDROXY-
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B. G. ODENHEIMER AND G. R. CHOPPIN

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MARCH 1960 42P

SUBMITTED FOR PUBLICATION IN JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY.

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UCRL-8642 PART 1. NUCLEAR SPECTROSCOPIC STUDIES IN THE HEAVIEST ELEMENT REGION PART 2. AN ACCELERATING ELECTRON SPECTROGRAPH. R. G. ALBRIDGE, JR.

APRIL 1960 149P

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MAY 1960 73P

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FEBRUARY 1960 12P

FOR PRESENTATION AT THE 8TH INTERNATIONAL SPECTROSCOPE COLLOQUIM, LUCERNE, SEPTEMBER 1959.

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UCRL-8869-REVISED CRYSTAL FIELD SPLITTING OF ENERGY
LEVELS OF THULIUM ETHYLSULFATE. J. B. GRUBER AND
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JANUARY 1960 13P

SUBMITTED FOR PUBLICATION IN THE JOURNAL OF
CHEMICAL PHYSICS.

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UCRL-8879 CHEMISTRY OF SOME HYDROLYZED CR
VALENCE-3. E. FINHOLT

APRIL 16, 1960 66P

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UCRL-8910 ELECTRON SPIN RESONANCE AND CHEMICAL STUDIES OF
RADIATION DAMAGE OF CHOLINE CHLORIDE AND SOME OF ITS
ANALOGS. R. O. LINDBLOM

OCTOBER 19, 1959 122P

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UCRL-8928 THE FABRICATION OF RADIOACTIVE SOURCES

A. E. SALO AND N. B. GARDEN

OCTOBER 1959 31P

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UCRL-8977 CRYSTAL STRUCTURE AND ENTROPY OF SODIUM
SULFATE DECAHYDRATE. H. W. RUBEN, D. H. TEMPLETON,
R. D. ROSENSTEIN, AND I. OLOVSSON

AUGUST 1960 23P

SUBMITTED FOR PUBLICATION IN JOURNAL OF AMERICAN CHEMICAL
SOCIETY.

058 60

UCRL-8979 THE BIOSYNTHESIS OF OPIUM ALKALOIDS PART-1

THE INTERRELATIONSHIP AMONG MORPHINE, CODEINE AND
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NOVEMBER 1959 33P

SUBMITTED FOR PUBLICATION IN JOURNAL OF THE AMERICAN
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UCRL-8996 STATES OF EVEN-EVEN NUCLEI IN THE NEAR
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F. S. STEPHENS, F. ASARO, AND I. PERLMAN.
FEBRUARY 1960 35P
SUBMITTED FOR PUBLICATION IN THE PHYSICAL REVIEW

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UCRL-9025 CHEMICAL PROPERTIES OF ASTATINE. E. H. APPELMAN
JANUARY 1960 113P
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UCRL-9042 LUMINESCENCE SPECTRUM OF PMCL-3. J. G.
CONWAY AND J. B. GRUBER
JANUARY 1960 3P
SUBMITTED FOR PUBLICATION IN JOURNAL OF CHEMICAL
PHYSICS, LETTERS TO THE EDITOR.

062 60

UCRL-9045 THE MERCURY SENSITIZED PHOTOLYSIS AND RADIOLYSIS
OF METHANE. G. J. MAINS AND A. S. NEWTON
JANUARY 1960 4P
SUBMITTED FOR PUBLICATION IN JOURNAL OF CHEMICAL PHYSICS.

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UCRL-9045 REV. THE MERCURY-SENSITIZED RADIOLYSIS AND
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MAY 1960 21P
SUBMITTED FOR PUBLICATION IN JOURNAL OF CHEMICAL PHYSICS.

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UCRL-9051 HYDROGEN BONDING IN ZIRCONIUM SULFATE TETRAHY-
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JANUARY 1960 2P

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UCRL-9056 RADIOLYSIS OF ORGANIC LIQUIDS CONTAINING
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DECEMBER 1959 6P
SUBMITTED FOR PUBLICATION IN JOURNAL OF PHYSICAL CHEMISTRY.

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FEBRUARY 2, 1960 81P
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UCRL-9079 IONIC MASS TRANSPORT BY FREE CONVECTION TO
HORIZONTAL ELECTRODES. E. J. FENECH
APRIL 1960 81P
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UCRL-9085 TRANSITION PROBABILITIES FOR ELECTRONIC
SPECTRA OF C-2 MOLECULE. E. CLEMENTI
FEBRUARY 1960 16P

069 60

UCRL-9093 CHEMISTRY DIVISION SEMIANNUAL REPORT:
(NUCLEAR REACTION STUDIES, NUCLEAR FISSION,
RADIOACTIVITY AND NUCLEAR PROPERTIES, METALS AND
HIGH TEMPERATURE THERMODYNAMICS SPECTROSCOPY, SECOND
VIRIAL COEFFICIENT OF FLUIDS, SOLID STATE AND LOW
TEMPERATURE THERMODYNAMICS, INORGANIC CHEMISTRY,
REACTIVE COLLISIONS IN CROSSED MOLECULAR BEAMS, HIGH
PRESSURE CHEMISTRY STUDIES, CHEMICAL ENGINEERING
STUDIES, PROCESS CHEMISTRY STUDIES)
FOR JUNE TO NOVEMBER 1959

070 60

UCRL-9101 ABSTRACT THE CRYSTAL STRUCTURE OF HYDROGEN PEROXIDE
DIHYDRATE. I. OLOVSSON AND D. H. TEMPLETON
FEBRUARY 1960 1P
FOR PRESENTATION AT INTERNATIONAL CONGRESS OF THE INTERNATIONAL
UNION OF CRYSTALLOGRAPHY, CAMBRIDGE, ENGLAND, AUGUST 15-24, 1960.

071 60

UCRL-9112 LOGITUDINAL DISPERSION IN TWO PHASE CONTINUOUS FLOW
OPERATIONS. SOLUTION AND TABLES FOR COCURRENT FLOW. T. MIYAUCHI,
A. K. MCMULLEN, AND T. VERMEULEN
MARCH 14, 1960 24P

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072 60

UCRL-9114 A SIMPLE AUTOMATIC VALVE FOR CONSTANT VOLUME COLLECTION
IN COLUMN CHROMATOGRAPHY. G. J. NELSON
MARCH 1960 12P
SUBMITTED FOR PUBLICATION IN ANALYTICAL CHEMISTRY.

073 60

UCRL-9115 PREPARATION AND CRYSTAL STRUCTURE OF AMERICIUM
METAL. D. B. MCWHAN, J. C. WALLMANN, B. B. CUNNINGHAM, L.
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APRIL 1960 6P
SUBMITTED FOR PUBLICATION IN THE JOURNAL OF INORGANIC AND
NUCLEAR CHEMISTRY.

074 60

UCRL-9116 ABSORPTION SPECTRUM OF PM^{+3} IN D_2O , DCL .
J. B. GRUBER AND J. G. CONWAY
MARCH 1960 7P
SUBMITTED FOR PUBLICATION IN THE JOURNAL OF INORGANIC
AND NUCLEAR CHEMISTRY.

075 60

UCRL-9120 ELECTRICAL PROPERTIES OF ORGANIC SOLIDS.
PART 1. KINETICS AND MECHANISM OF PHOTOCONDUCTIVITY OF
METAL-FREE PHTHALOCYANINE. PART 2. EFFECTS OF ADDED
ELECTRON ACCEPTORS AND DONORS. D. R. KEARNS
MARCH 25, 1960 121P
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076 60

UCRL-9137 ABSTRACT ON THE RADIATION CHEMISTRY OF PEPTIDES IN
AQUEOUS SOLUTION. W. M. GARRISON
MARCH 16 1P
FOR PRESENTATION AT THE RADIATION RESEARCH SOCIETY EIGHTH ANNUAL
MEETING, SAN FRANCISCO, MAY 1960.

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UCRL-9145 DIFFUSION COEFFICIENTS IN MULTICOMPONENT
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UCRL-9187 ANALYSIS OF CURRENT DISTRIBUTION IN ELECTROLYTIC
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B. V. DERIAGIN AND P. S. PROKHOROV

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LIVERMORE PINCH PROGRAM. BERKELEY PINCH PROGRAM. ION MAGNETRON. THEORETICAL RESEARCH. BASIC EXPERIMENTAL RESEARCH. ENGINEERING AND TECHNOLOGICAL DEVELOPMENT.)

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FEBRUARY 1960 1P
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C. J. MASON, N. A. NICKOLS, AND F. M. SMITH
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FEBRUARY 1960 1P

FOR PRESENTATION AT THE MEETING OF AMERICAN PHYSICAL SOCIETY,
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MARCH 15, 1960 33P

SUBMITTED FOR PUBLICATION IN THE REVIEW OF SCIENTIFIC
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UCRL-9264 AN EFFECTIVE RANGE FORMULA FOR PHOTOPION
PRODUCTION FROM PIONS. H. WONG

JUNE 14, 1960 10P

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KENNEY

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UCRL-9282 NEGATIVE PION PROTON ELASTIC SCATTERING AT
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JULY 1960 14P

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F. ASARO, M. THOMPSON, AND I. PERLMAN
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THOMPSON, STEPHENS, AND I. PERLMAN
AUGUST 1960
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M. CROWE
AUGUST 4, 1960 12P
SUBMITTED FOR PUBLICATION IN PHYSICAL REVIEW LETTERS.

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UCRL-9314 FLUCTUATIONS OF NUCLEAR CROSS SECTION IN THE
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JULY 1960 5P
SUBMITTED FOR PUBLICATION IN PHYSICAL REVIEW LETTERS.

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PROTACTINIUM-233. R. MARRUS, W. A. NIERENBERG, AND
J. WINOCUR
JULY 19, 1960 36P
SUBMITTED FOR PUBLICATION IN NUCLEAR PHYSICS.

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UCRL-9319 ANTIPROTON ANNIHILATIONS IN PROPANE. S.
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H. WONG

JULY 14, 1960 8P

SUBMITTED FOR PUBLICATION IN THE PHYSICAL REVIEW LETTERS.

366 60

UCRL-9333 REV. EFFECTS OF THE PION-PION RESONANCE
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NEUTRAL PION DECAY. H. WONG

SEPTEMBER 14, 1960 10P

SUBMITTED FOR PUBLICATION IN THE PHYSICAL REVIEW.

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AUGUST 16, 1960 20P

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AUGUST 11, 1960 22P

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AND W. B. FOWLER

AUGUST 11, 1960 14P

SUBMITTED FOR PUBLICATION IN PHYSICAL REVIEW LETTERS.

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R. J. EDEN

AUGUST 11, 1960

FOR PRESENTATION AT THE INTERNATIONAL CONFERENCE ON HIGH
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NOVEMBER 8, 1960

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NOVEMBER 1960 9P

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ISSINSKII AND K. P. MYZNIKOV

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441 60

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 427 60 BUTTON, P. EBERHARD, G. R. KALBFLEISCH, J. E. LANNUTTI, B. C. M
 220 60 BUTTON, P. EBERHARD, G. R. KALBFLEISCH, J. E. LANNUTTI, G. R. L
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 384 60 J. BUTTON, P. EBERHARD, G. KALBFLEISCH, J. LANNUTTI, G. LYNCH,
 376 60 NIHILATION. J. BUTTON, G. KALBFLEISCH, J. LANNUTTI, S. LAMENTA
 473 60 S. A. E. GLASSGOLD, A. N. KAUFMAN, AND K. M. WATSON
 075 60 CEPTORS AND DONORS. D. R. KEARNS
 274 60 MEV. L. K. GOODWIN, R. W. KENNEY AND V. PEREZ-MENDEZ
 246 60 , T. L. JENKINS, AND R. W. KENNEY
 341 60 , T. L. JENKINS, AND R. W. KENNEY
 342 60 , T. L. JENKINS, AND R. W. KENNEY
 397 60 , T. L. JENKINS, AND R. W. KENNEY
 426 60 , L. K. GOODWIN, AND R. W. KENNEY
 408 60 ROGEN. D. C. GATES, R. W. KENNEY, AND W. P. SWANSON
 202 60 BEAMS. D. C. GATES, R. W. KENNEY, D. A. MCPHERSON, AND W. P. S
 425 60 ARIS, L. K. GOODWIN, R. W. KENNEY, V. PEREZ-MENDEZ, AND W. A. P
 340 60 ARIS, L. K. GOODWIN, R. W. KENNEY, V. PEREZ-MENDEZ, AND W. A. P
 240 60 0 MEV. J. C. CARIS, R. W. KENNEY, V. PEREZ-MENDEZ, AND W. A. P
 324 60 1 MEV. J. C. CARIS, R. W. KENNEY, V. PEREZ-MENDEZ, AND W. A. P
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 144 60 ING FIELD EMISSION. Q. A. KERNS AND G. C. COX
 146 60 DELAYS. A. BJERKE, Q. A. KERNS, AND T. NUNAMAKER
 149 60 RIMENT. S. C. BAKER, Q. A. KERNS, F. A. KIRSTEN, D. A. MACK, AN
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 147 60 RIMENT. S. C. BAKER, F. A. KIRSTEN, D. A. MACK, AND C. WIEGAND
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 390 60 J. BUTTON, J. LANNUTTI, G. LYNCH, B. MAGLIC, M. L. STEVENSON, A
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