

Lawrence Berkeley National Laboratory

Recent Work

Title

LIST OF REPRINTS AVAILABLE IN THE TECHNICAL INFORMATION DIVISION (Received July through Dec. 1957)

Permalink

<https://escholarship.org/uc/item/1qc9h3dj>

Author

Lawrence Berkeley National Laboratory

Publication Date

1958-01-08

UNIVERSITY OF
CALIFORNIA

*Radiation
Laboratory*

TWO-WEEK LOAN COPY

*This is a Library Circulating Copy
which may be borrowed for two weeks.
For a personal retention copy, call
Tech. Info. Division, Ext. 5545*

BERKELEY, CALIFORNIA

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal 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. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

UCRL-8111

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

LIST OF REPRINTS AVAILABLE
IN THE TECHNICAL INFORMATION DIVISION

(Received July through December 1957)

January 8, 1958

Printed for the U. S. Atomic Energy Commission

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

The reprints listed on the following pages are available from this office in limited numbers. In requesting them please refer to the reprint number.

Technical Information Division
January 8, 1958

LIST OF REPRINTS AVAILABLE
IN THE TECHNICAL INFORMATION DIVISION

(Received July through December 1957)

Radiation Laboratory
University of California
Berkeley, California

January 8, 1958

Reprint
Number

- 1957-105 R. L. Belford, M. Calvin, and G. Belford; Bonding in Copper (II) Chelates: Solvent Effects in their Visible Absorption Spectra; J. Chem. Phys. 26, No. 5, 1165-74 (May 1957) (UCRL-3491)
- 1957-106 E. L. Dobson; Homeostatic Regulation of Body Fluid Volumes: The Role of a Blow-Flow-Dependent Control Mechanism Operating in Conjunction with Aldosterone and Antidiuretic Hormone; Fed. Proc. 16, No. 1 (March 1957)
- 1957-107 Luis W. Alvarez; Excerpts from a Russian Diary, Part I; Phys. Today 10, No. 5, 24-32 (May 1957)
- 1957-108 Melvin P. Klein and Bert E. Holder; Determination of the Sign of the He³ Nuclear Magnetic Moment; Phys. Rev. 106, No. 4, 837-8 (May 15, 1957) (UCRL-4826)
- 1957-109 Power B. Sogo, Ning G. Pon, and Melvin Calvin; Photo Spin Resonance in Chlorophyll-Containing Plant Material; Proc. of the Nat'l. Acad. of Sci. 43, No. 5, 387-93 (May 1957) (UCRL-3713)
- 1957-110 Luis W. Alvarez; Excerpts from a Russian Diary, Part II; Phys. Today 10, No. 6, 22-32 (June 1957)
- 1957-111 Robert H. Good, Larry Oswald, and Wilson Powell; High-Pressure Expansion-Diffusion Cloud Chamber; Rev. Sci. Instr. 28, No. 6, 472-3 (June 1957) (UCRL-3668)
- 1957-112 Saul Barshay; Isobar Model for Meson Production in Proton-Proton Collisions; Phys. Rev. 106, No. 3, 572-85 (May 1, 1957) (UCRL-3591, Part II)
- 1957-113 L. W. Alvarez, Hugh Bradner, Paul Falk-Vairant, J. D. Gow, A. H. Rosenfeld, F. T. Solmitz, and Robert D. Tripp; K⁻ Interactions in Hydrogen; Il Nuovo Cimento, Serie X, 5, 1026-46 (1957) (UCRL-3583)
- 1957-114 Dan F. Bradley; Phosphate Transients in Photosynthesis; Arch. Biochem. Biophys. 68, No. 1, 172-85 (May 1957) (UCRL-3242)

- 1957-115 J. A. Jungerman and H. M. Steiner; Photofission Cross Sections of U²³⁵, U²³⁸, Th²³², Bi²⁰⁹, and Au¹⁹⁷ at Energies of 150 to 500 Mev; Phys. Rev. 106, No. 3, 585-90 (May 1, 1957) (UCRL-3258 Rev.)
- 1957-116 Kenneth C. Bandtel, Wilson J. Frank, and Burton J. Moyer; Comparison of the Reactions $p + d \rightarrow H^3 + \pi^+$, $p + d \rightarrow He^3 + \pi^0$ as a Test of Charge Independence; Phys. Rev. 106, No. 4, 802-8 (May 15, 1957) (UCRL-3571)
- 1957-117 Myron L. Good; Relation Between Scattering and Absorption in the Pais-Piccioni Phenomenon; Phys. Rev. 106, No. 3, 591-5 (May 1, 1957) (UCRL-3566)
- 1957-118 F. S. Crawford, Jr.; The "Clock Paradox" of Relativity; Nature 179, 1071-2 (May 25, 1957)
- 1957-119 William Grasberger; Hydrogen Lines in an Atmosphere with Near Thermodynamic Equilibrium; Astrophysical Jour. 125, No. 3, 750-70 (May 1957) (UCRL-4582)
- 1957-120 S. Amiel, A. Chetham-Strode, Jr., G. R. Choppin, A. Ghiorso, B. G. Harvey, L. W. Holm, and S. G. Thompson; Production and Properties of the Nuclides Fermium-250, 251, and 252; Phys. Rev. 106, No. 3, 553-4 (May 1, 1957) (UCRL-3610)
- 1957-121 Alvin H. Davis; The Kinetic Temperature of an Atmosphere Supported by Radiation. I.; Astrophysical Jour. 125, No. 3, 771-87 (May 1957) (UCRL-4741)
- 1957-122 John M. Brabant, Burton J. Moyer, and Roger Wallace; Lead Glass Cerenkov Radiation Photon Spectrometer; Rev. Sci. Instr. 28, No. 6, 421-4 (June 1957) (UCRL-3490 Rev.)
- 1957-123 Winston H. Bostick; Experimental Study of Plasmoids; Phys. Rev. 106, No. 3, 404-12 (May 1, 1957) (UCRL-4768)
- 1957-124 Chung Ying Chih and W. M. Powell; Neutron-Proton Scattering at 90 Mev; Phys. Rev. 106, No. 3, 539-44 (May 1, 1957)
- 1957-125 Glen T. Seaborg; Obituary: Prof. Joseph W. Kennedy; Nature 179, 1220-1 (June 15, 1957)
- 1957-126 Hardin B. Jones; Estimation of Effect of Radiation upon Human Health and Life Span; Proc. Health Phys. Soc. 114-26 (June 1956)
- 1957-127 R. K. McCombs; Proton Irradiation of the Pituitary and its Metabolic Effects; Radiology 68, No. 6, 797-811 (June 1957)
- 1957-128 R. H. Capps; Photon Scattering from Protons and Deuterons; Phys. Rev. 106, No. 5, 1031-42 (June 1, 1957) (UCRL-3572)
- 1957-129 James L. Olsen, Lloyd G. Mann, and Manfred Lindner; Internal Bremsstrahlung and Decay Scheme of Sb¹¹⁹; Phys. Rev. 106, No. 5, 985-90 (June 1, 1957) (UCRL-4786)

- 1957-130 Harris B. Levy; New Empirical Equation for Atomic Masses; Phys. Rev. 106, No. 6, 1265-70 (June 15, 1957) (UCRL-4767)
- 1957-131 T. Darrah Thomas, Robert Vandenbosch, Richard A. Glass, and Glenn T. Seaborg; Decay Properties of Pu²³⁵, Pu²³⁷ and a New Isotope Pu²³³; Phys. Rev. 106, No. 6, 1228-32 (June 15, 1957) (UCRL-3661)
- 1957-132 R. D. Lawson and J. L. Uretsky; Excited States in the Proton $f_{7/2}$ Shell; Phys. Rev. 106, No. 6, 1369-70 (June 15, 1957) (UCRL-3760)
- 1957-133 Carol H. Dauben; Crystal Structures of Transition Metal Silicides; Jour. of the Electrochem. Soc. 104, No. 8, 521-3 (Aug. 1957) (UCRL-3602)
- 1957-134 E. L. Dobson, G. F. Warner, C. R. Finney, M. E. Johnston, and D. M. Adamson; Measurement of Regional Sodium Turnover Rates and their Application to the Estimation of Regional Blood Flow; Amer. Jour. of Physiol. 189, No. 2, 269-76 (May 1957)
- 1957-135 Joseph B. Rechen and John C. Jordan; Use of Iron Filings in a High-Viscosity Medium for Mapping Approximate Magnetic Field Shapes; Rev. Sci. Instr. 28, No. 7, 584 (July 1957)
- 1957-136 Amos S. Newton; Note on the Helium-Ion Radiolysis Products of Liquid Acetic and Propionic Acids; J. Chem. Phys. 26, No. 6, 1764-5 (June 1957) (UCRL-3655)
- 1957-137 M. Abraham, C. D. Jeffries, R. W. Kedzie, and J. C. Wallman; Paramagnetic Resonance Hyperfine Structure of Np²³⁹; Phys. Rev. 106, No. 6, 1357-8 (June 15, 1957)
- 1957-138 B. V. Siegel, Ann M. Hughes, and B. M. Tolbert; Acetate Metabolism in Experimental Virus-Induced Disease; Amer. Jour. of Physiol. 189, No. 2, 358-60 (May 1957) (UCRL-3316)
- 1957-139 H. Paul Hernandez, John W. Mark, and Robert D. Watt; Designing for Safety in Hydrogen Bubble Chambers; Rev. Sci. Instr. 28, No. 7, 528-35 (July 1957) (UCRL-3508)
- 1957-140 William L. Linlor, Q. A. Kerns, and John W. Mark; Bubble Chamber Pressure Gauge; Rev. Sci. Instr. 28, No. 7, 535-41 (July 1957) (UCRL-3173)
- 1957-141 J. F. Garcia, R. W. Belknap, and S. F. Cook; Increase in Red Cell Volume in Response to Long Exposure to Cold; Proc. Soc. Exp. Biol. and Med. 95, 242-3 (1957)
- 1957-142 R. L. Dobson and M. M. Chupp; Effect of Small Measured Doses of Radiation on Lymphocyte Morphology in Man; Soc. Exp. Biol. and Med. 95, 360-1 (1957)

- 1957-143 Frank Asaro and I. Perlman; Isomeric State of Uranium-235; Phys. Rev. 107, No. 1, 318-9 (July 1, 1957) (UCRL-3774)
- 1957-144 J. W. Kury, Z. Z. Hugus, and W. M. Latimer; The Complexing of Cerium III, Lanthanum III, and Gadolinium III by Fluoride Ions in Aqueous Solution; J. Phys. Chem. 61, 1021 (1957) (UCRL-3678)
- 1957-145 A. N. Contopoulos, R. K. McCombs, J. H. Lawrence, and M. E. Simpson; Erythropoietic Activity in the Plasma of Patients with Polycythemia Vera and Secondary Polycythemia; Blood, XII, No. 7, 614-9 (July 1957)
- 1957-146 J. O. Rasmussen, F. L. Canavan, and J. M. Hollander; Energy Levels of Np²³⁷ Populated by the Beta Decay of U²³⁷; Phys. Rev. 107, No. 1, 141-54 (July 1, 1957) (UCRL-3695)
- 1957-147 Edward Knapp, William Imhof, Robert W. Kenney, and Victor Perez-Mendez; Small-Angle Photoproduction of Positive Mesons from Hydrogen; Phys. Rev. 107, No. 1, 323-4 (July 1, 1957) (UCRL-3748)
- 1957-148 Frank S. Crawford, Jr. and M. Lynn Stevenson; S-Wave Pions in the Reaction $p + p \rightarrow \pi^+ + d$; Phys. Rev. 107, No. 1, 331-2 (July 1, 1957) (UCRL-3762)
- 1957-149 G. O. Brink, J. C. Hubbs, W. A. Nierenberg, and J. L. Worcester; Spins of Thallium-197, -198m, 199, -204 and the Hyperfine-Structure Splitting of Thallium-204; Phys. Rev. 107, No. 1, 189-95 (July 1, 1957) (UCRL-3643)
- 1957-150 Burton J. Moyer and Robert K. Squire; Characteristics of π^0 Production from Proton-Proton Collisions Near Threshold; Phys. Rev. 107, No. 1, 283-90 (July 1, 1957) (UCRL-3137 Rev.)
- 1957-151 Richard H. Capps; Optical Model of Sigma Particles Production Nuclei by Negative K Mesons; Phys. Rev. 107, No. 1, 239-48 (July 1, 1957) (UCRL-3707)
- 1957-152 Francis C. Gilbert, Charles E. Violet, and R. Stephen White; Capture of Negative K Particles by Bound and Free Protons in Emulsion; Phys. Rev. 107, No. 1, 228-38 (July 1, 1957) (UCRL-4814)
- 1957-153 M. N. Rosenbluth, W. M. MacDonald, and D. L. Judd; Fokker-Planck Equation for an Inverse-Square Force; Phys. Rev. 107, No. 1, 1-6 (July 1, 1957) (UCRL-3375)
- 1957-154 Bruce Cork, Glen R. Lambertson, Oreste Piccioni, and William A. Wenzel; Cross Sections for Antiprotons in Hydrogen, Beryllium, Carbon and Lead; Phys. Rev. 107, No. 1, 248-56 (July 1, 1957) (UCRL-3650)

- 1957-155 N. K. Freeman, F. T. Lindgren, Y. C. Ng, and A. V. Nichols; Serum Lipid Analysis by Chromatography and Infrared Spectrophotometry; *J. Biol. Chem.* 227, No. 1, 449-64 (July 1957) (UCRL-3500)
- 1957-156 Edwin M. McMillan; The "Clock Paradox" and Space Travel; *Science* 126, No. 3270, 381-4 (Aug. 30, 1957)
- 1957-157 E. H. Strisower, O. de Lalla, J. W. Gofman, and B. Strisower; Serum Lipoprotein Concentration in a Schizophrenic Population; *Amer. Jour. of Psychiatry* 114, No. 3, 263-5 (Sept. 1957)
- 1957-158 Henry P. Stapp; Some Experimental Tests of the Lüders Theorem; *Phys. Rev.* 107, No. 2, 634-5 (July 15, 1957) (UCRL-3773)
- 1957-159 P. Linko, J. A. Bassham, D. Holm-Hansen, and M. Calvin; Formation of Radioactive Citrulline During Photosynthetic $C^{14}O_2$ -Fixation by Blue-Green Algae; *J. Exp. Botany* 8, No. 22, 147-56 (Feb. 1957) (UCRL-3504)
- 1957-160 Ingrid Fogelström-Fineman, Osmund Holm-Hansen, Bert M. Tolbert, and Melvin Calvin; A Tracer Study with O^{18} in Photosynthesis by Activation Analysis; *J. Applied Rad. and Isotopes* 2, 280-6 (1957) (UCRL-3790)
- 1957-161 Denham Harman; Prolongation of the Normal Life Span by Radiation Protection Chemicals; *J. of Gerontology* 12, No. 3, 257-63 (July 1957)
- 1957-162 Henry P. Stapp; Theory of High-Energy Deuteron Scattering; *Phys. Rev.* 107, No. 2, 607-15 (July 15, 1957) (UCRL-3657)
- 1957-163 S. A. Colgate and R. L. Aamodt; Plasma Reactor Promises Direct Electric Power; *Nucleonics* 15, No. 8, 50-5 (Aug. 1957)
- 1957-164 Henry P. Stapp; Charge-Exchange Scattering of K^0 Beams as a Test of the Parity-Doublet Proposals; *Phys. Rev.* 107, No. 2, 585-7 (July 15, 1957) (UCRL-3575)
- 1957-165 W. A. S. Lamb and Ross E. Hester; Radiative Capture of Protons in Carbon from 80 to 126 keV; *Phys. Rev.* 107, No. 2, 550-3 (July 15, 1957) (UCRL-4803)
- 1957-166 William M. MacDonald, M. Rosenbluth, and Wong Chuck; Relaxation of a System of Particles with Coulomb Interactions; *Phys. Rev.* 107, No. 2, 350-3 (July 15, 1957)
- 1957-167 J. M. Brabant, Robert W. Kenney, and Roger W. Wallace; Electron Pair-Production Cross Sections at 2.5 BeV; *Phys. Rev.* 107, No. 2, 604-6 (July 15, 1957) (UCRL-3718)
- 1957-168 Joseph Garcia; Radioiron Time-Distribution Studies at Various Ages in the Normal Male Rat; *Amer. Jour. of Physio.* 190, No. 1, 31-6 (July 1957)

- 1957-169 Joseph Garcia; Erythropoietic Response to Hypoxia as a Function of Age in the Normal Male Rat; Amer. Jour. of Physio. 190, No. 1, 25-30 (July 1957)
- 1957-170 J. C. Hubbs, W. A. Nierenberg, H. A. Shugart, H. B. Silsbee, and R. J. Sunderland; Hyperfine-Structure Separations and Magnetic Moments of Rb⁸¹, Rb⁸², Rb⁸³, and Rb⁸⁴; Phys. Rev. 107, No. 3, 723-7 (Aug. 1, 1957) (UCRL-3708)
- 1957-171 Bruce Cork, W. A. Wenzel, and C. W. Causey, Jr.; Elastic Proton Proton Scattering at 2.24, 4.40 and 6.15 Bev; Phys. Rev. 107, No. 3, 859-67 (Aug. 1, 1957) (UCRL-3750)
- 1957-172 Stephen Gasiorowicz and Malvin A. Ruderman; Uniqueness of Solutions to Dispersion Relations for Potential Scattering; Phys. Rev. 107, No. 3, 868-70 (Aug. 1, 1957) (UCRL-3727)
- 1957-173 Walter H. Barkas, Peter C. Giles, Harry H. Heckman, Fred W. Inman, and Frances M. Smith; μ Meson Polarization in a Strong Magnetic Field; Phys. Rev. 107, No. 3, 911-2 (Aug. 1, 1957) (UCRL-3498)
- 1957-174 Jack Sandweiss and Saul Barshay; Identity and Parity of K Mesons and the Parity of Hyperons from a Strong Reaction; Phys. Rev. 107, No. 3, 913 (Aug. 1, 1957) (UCRL-3809)
- 1957-175 James E. Faulkner; An SCF LCAO MO Study of Li₂; Jour. of Chem. Phys. 27, No. 2, 369-73 (Aug. 1957) (UCRL-4763)
- 1957-176 Joseph Garcia; Changes in Blood, Plasma and Red Cell Volume in the Male Rat as a Function of Age; Amer. Jour. of Physio. 190, No. 1, 19-24 (July 1957)
- 1957-177 P. W. Durbin, Marilyn Williams, Nylan Jeung, Marshall Parrott, and J. G. Hamilton; Relationships Between Radiation Damage and Endocrine Deficiency Following Massive Doses of I-131 in Rats; Rad. Res. 7, No. 3 (Sept. 1957)
- 1957-178 Francis R. Halpern; Method of Moments in Quantum Mechanics; Phys. Rev. 107, No. 4, 1145-7 (Aug. 15, 1957) (UCRL-3721 Rev.)
- 1957-179 F. S. Stephens, Jr., Frank Asaro, and I. Perlman; Odd-Parity Rotational Bands in Even-Even Nuclei; Phys. Rev. 107, No. 4, 1091-4 (Aug. 15, 1957) (UCRL-3722)
- 1957-180 Baruch S. Jacobson; Effects of Dose Fractionation on Lethality in Chlamydomonas; Rad. Res. Soc. 7, No. 3 (Sept. 1957)
- 1957-181 W. M. Garrison; Radiation Chemistry; Ann. Rev. Phys. Chem. 8, 129-54 (1957)
- 1957-182 Robert H. Good; Continuously Sensitive Bubble Chamber; Phys. Rev. 107, No. 4, 1201 (Aug. 15, 1957) (UCRL-3813)

- 1957-183 Marvin H. Mittleman; Alpha³ Corrections to the Hyperfine Structure of the 1S and 2S States of Hydrogen; Phys. Rev. 107, No. 4, 1170-80 (Aug. 15, 1957) (UCRL-4703)
- 1957-184 R. Gatto and R. D. Tripp; On the Question of Possible Charge Properties of Weak Interactions; Il Nuovo Cimento, Serie X, Vol. 6, 367-70 (Aug. 1957) (UCRL-3726)
- 1957-185 Virginia S. Shirley, Warren G. Smith, and John O. Rasmussen; Conversion-Electron and Photon Spectra of Gd¹⁴⁷ and Gd¹⁴⁹; Nuclear Physics 4, 395-407 (1957) (UCRL-3594 Rev.)
- 1957-186 S. Bludman; Some Theoretical Consequences of a Particle Having Mass Zero; Phys. Rev. 107, No. 4, 1163-8 (Aug. 15, 1957)
- 1957-187 E. Segrè; Antinucleons; Amer. Jour. of Phys. 25, No. 6, 363-9 (Sept. 1957)
- 1957-188 D. F. Abell, N. A. Bonner, and W. Goishi; Kinetics of Complex Isotopic Exchange Reactions; Jour. of Chem. Phys. 27, No. 3, 658-60 (Sept. 1957) (UCRL-4877)
- 1957-189 A. F. Wickersham, Jr.; Interactions of 28-Mev Protons with Helium-4; Phys. Rev. 107, No. 4, 1050-5 (Aug. 15, 1957) (UCRL-2662 Rev.)
- 1957-190 G. Tollin and Melvin Calvin; The Luminescence of Chlorophyll-Containing Plant Material; Proc. of the Nat. Acad. of Sci. 43, No. 10, 895-908 (Oct. 1957) (UCRL-3863)
- 1957-191 E. L. Chupp, A. F. Clark, J. W. M. Dumond, F. J. Gordon, and Hans Mark; Precision Determination of the Low-Lying Energy Levels of W¹⁸², W¹⁸³, W¹⁸⁴ and W¹⁸⁶; Phys. Rev. 107, No. 3, 745-50 (Aug. 1, 1957) (UCRL-4871)
- 1957-192 Saul Barshay; Associated Production in Pion-Nucleon Collisions and Charge Independence; Phys. Rev. 107, No. 5, 1454 (Sept. 1, 1957) (UCRL-3834)
- 1957-193 Helmut Metzner, Helmut Simon, Barbara Metzner, and Melvin Calvin; Evidence for an Unstable CO₂ Fixation Product in Algal Cells; Proc. of Nat. Acad. of Sci. 43, No. 10, 892-5 (Oct. 1957)
- 1957-194 E. K. Hulet, R. W. Hoff, H. R. Bowman, and M. C. Michel; Thermal-Neutron Fission Cross Sections for Isotopes of Plutonium, Americium and Curium; Phys. Rev. 107, No. 5, 1294-5 (Sept. 1, 1957) (UCRL-4862)
- 1957-195 S. R. Gunn, H. G. Hicks, H. B. Levy, and P. C. Stevenson; A Calorimetric Determination of the Average Total Kinetic Energy of Fragments from Fission of U²³⁵; Phys. Rev. 107, No. 6, 1642-5 (Sept. 15, 1957) (UCRL-4804)

- 1957-196 F. S. Stephens, Jr., Frank Asaro, Saadia Amiel, and I. Perlman; Plutonium-237m, Another Case of E3 Isomerism for Neutron Number 143; *Phys. Rev.* 107, No. 5, 1456-8 (Sept. 1, 1957) (UCRL-3860)
- 1957-197 William H. Wade, Jose Gonzales-Videl, Richard A. Glass, and G. T. Seaborg; Spallation-Fission Competition in Heaviest Elements: Triton Production; *Phys. Rev.* 107, No. 5, 1311-3 (Sept. 1, 1957) (UCRL-3640)
- 1957-198 Allan Zalkin; The Crystal Structure of Tetra-n-Propyl Ammonium Bromide; *Acta Crystallographica* 10, Pt. 9, 557-60 (Sept. 1957) (UCRL-4745)
- 1957-199 Wallace D. Kilpatrick; Criterion for Vacuum Sparking Designed to Include Both rf and dc; *Rev. Sci. Instr.* 28, No. 10, 824-6 (Oct. 1957) (UCRL-2321 Rev.)
- 1957-200 J. H. Lawrence; Proton Irradiation of the Pituitary; *Cancer* 10, No. 4, 795-8 (July-Aug. 1957)
- 1957-201 Francis C. Gilbert and R. Stephen White; Elastic Scattering of a Σ^+ Hyperon from a Free Proton; *Phys. Rev.* 107, No. 6, 1685-6 (Sept. 15, 1957) (UCRL-4894)
- 1957-202 N. I. Berlin, M. Beeckmans, P. J. Elmlinger, and J. H. Lawrence; A Comparative Study of the Ashby Differential Agglutination, Carbon 14, and Iron 59 Methods for the Determination of Red Cell Lifespan; *The Jour. of Lab. and Clinical Medicine* 50, No. 4, 558-69 (Oct. 1957)
- 1957-203 C. J. Gallagher, Jr., Michael Sweeney, and J. O. Rasmussen; New 20-Hour Electron-Capturing Rhenium Isotope, Re^{181} ; *Phys. Rev.* 108, No. 1, 108-10 (Oct. 1, 1957) (UCRL-3754)
- 1957-204 Graeme Welch; Effects of Chronic Exposure to X-Rays on a Steady-State Population of *Saccharomyces Cerevisiae* (Abstract); *Rad. Res.* 7, No. 4 (Oct. 1957)
- 1957-205 Baruch S. Jacobson; Evidence for Recovery from X-Ray Damage in *Chlamydomonas*; *Rad. Res.* 7, No. 4, 394-406 (Oct. 1957) (UCRL-3893)
- 1957-206 Bernard Shore; C- and N-Terminal Amino Acids of Human Serum Lipoproteins; *Archives of Biochem. and Biophys.* 71, No. 1, 1-10 (Sept. 1957) (UCRL-3489)
- 1957-207 Allan Zalkin and William J. Ramsey; Intermetallic Compounds Between Lithium and Lead. III. The β' - β Transition in LiPb; *J. Phys. Chem.* 61, 1413-5 (1957) (UCRL-4860)
- 1957-208 R. K. Mortimer; X-Ray-Induced Homozygosis in Diploid Yeast; *Rad. Res.* 7, No. 4 (Oct. 1957)

- 1957-209 H. Bradner and William Isbell; Direction of Polarization Produced by Quasi-Elastic Scattering of 315 Mev Protons; Phys. Rev. 108, No. 2, 463-5 (Oct. 15, 1957) (UCRL-3656 2nd Rev.)
- 1957-210 Amos S. Newton; A Survey of the Radiation Chemistry of Some Aliphatic Ethers; Jour. of Physical Chem. 61, 1485-90 (1957) (UCRL-3694)
- 1957-211 S. Chandrasekhar, Allan N. Kaufman, and Kenneth Watson; Properties of an Ionized Gas of Low Density. III; Annals of Physics 2, No. 5, 435-70 (Nov. 1957)