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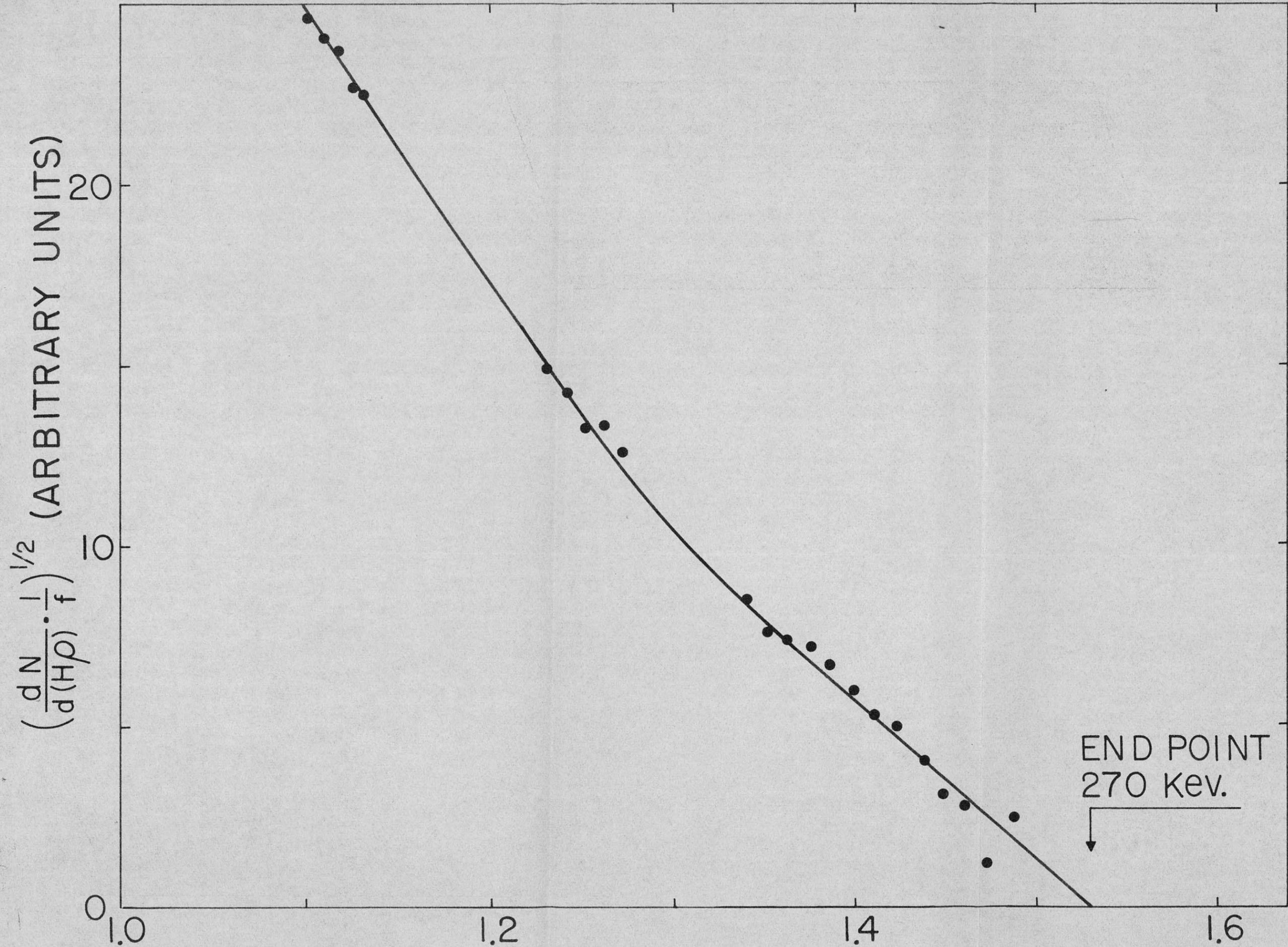
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LIST OF UNCLASSIFIED REPORTS RECEIVED IN THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF December 16-31, 1954

January 3, 1955

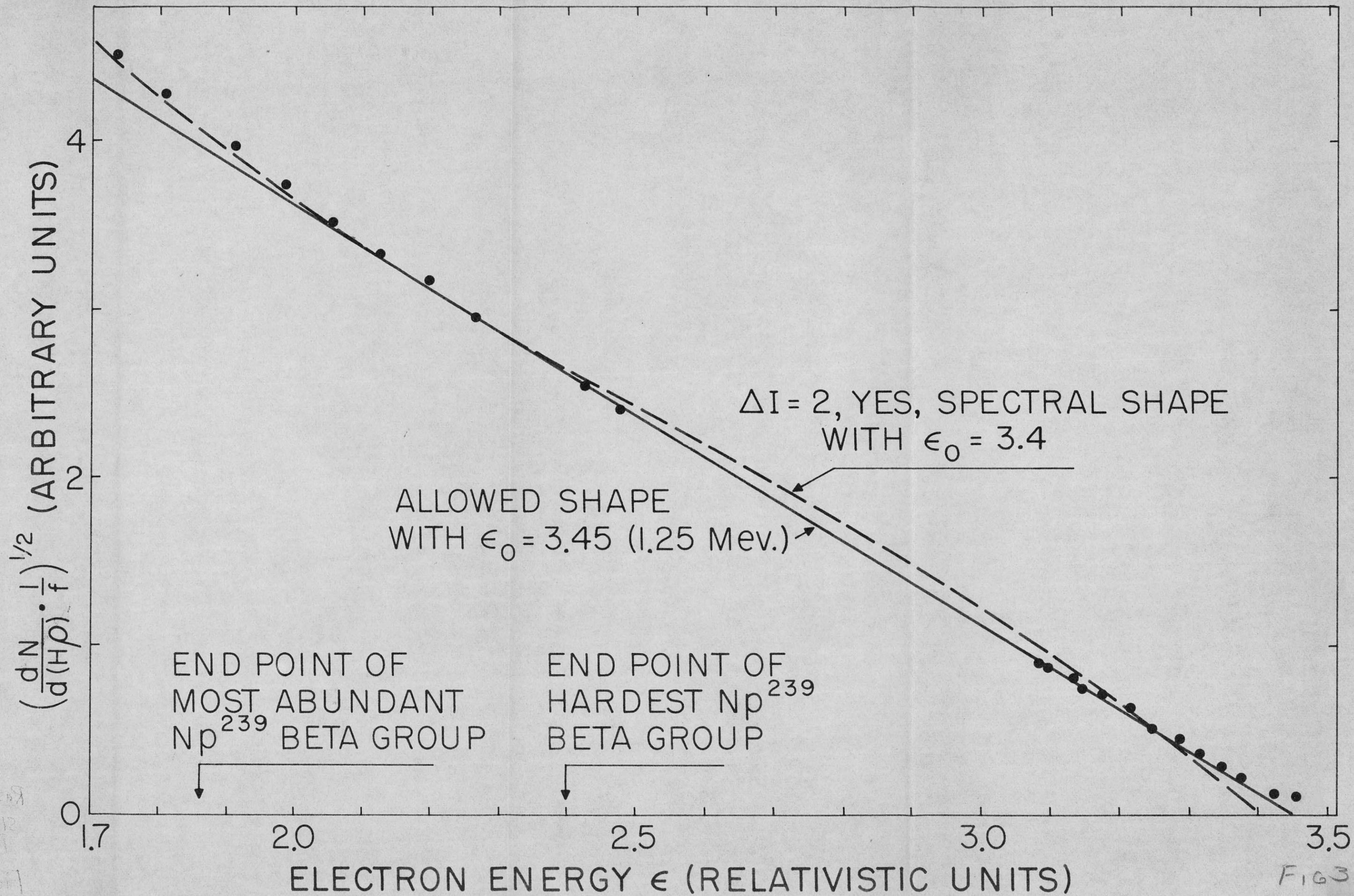
LIST OF CODES FOR REPORT NUMBERS

ACCO -American Cyanamid Co.  
AERE -Atomic Energy Research Establishment, Harwell, England  
AFCRC -Air Force Cambridge Research Center  
AMRL -Army Medical Research Lab., Fort Knox  
ANL -Argonne National Lab.  
ANP -Aircraft Nuclear Propulsion Project, Oak Ridge  
APEX -General Electric Co., Aircraft Gas Turbine Div.  
ASTIA -Armed Services Technical Information Agency  
BM -Bureau of Mines  
BM-II -Northwest Electrodevelopment Lab., Bureau of Mines,  
Albany, Oregon  
BMI -Battelle Memorial Institute  
BNL -Brookhaven National Lab.  
BRL -Ballistic Research Labs., Aberdeen Proving Grounds  
CEA -Commissariat à l'Énergie Atomique, France  
CEI, CRC, CRE, CRP, CRT and others  
-Chalk River Project, Canada  
CEPS -Commonwealth Edison Co.  
CERN -European Council for Nuclear Research  
CF -Oak Ridge National Lab., Central Files  
CU -Columbia University  
DC -General Electric Co., ANP Project  
DOW -Dow Chemical Co.  
DP -E. I. du Pont de Nemours and Co.  
FMPC -National Lead Co. of Ohio  
HW -Hanford Works, Richland, Wash.  
ISC -Iowa State College  
JENER -Jount Establishment for Nuclear Energy Research, Norway  
K -Carbide and Carbon Chemicals Co., K-25 Plant  
KAPL -Knolls Atomic Power Lab.  
KLX -Vitro Corp. of America  
LA, LADC, LAMS  
-Los Alamos Scientific Lab.  
LRL, LWS  
-California Research and Development Co.  
MIT -Massachusetts Institute of Technology  
MLM -Mound Lab.  
Monograph  
-Bell Telephone System  
MTA -California Research and Development Co.  
NAA -North American Aviation, Inc.  
NBS -National Bureau of Standards  
NM -Naval Medical Research Institute  
NRL -Naval Research Lab.  
ONRL -Office of Naval Research, London  
ORNL -Carbide and Carbon Chemicals Co., Oak Ridge National Lab.  
PR -Chalk River Project, Canada



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ELECTRON ENERGY  $\epsilon$  (RELATIVISTIC UNITS)



SEP -Sylvania Electric Products, Inc.  
TEI, TEM -U. S. Dept. of Interior, Geological Survey  
TID -Technical Information Service, Oak Ridge  
UCLA -Univ. of California at Los Angeles  
UR -Univ. of Rochester  
USNRDL -U. S. Naval Radiological Defense Lab.  
WAPD -Westinghouse Electric Corp., Atomic Power Division  
Y -Carbide and Carbon Chemicals Co., Y-12 Plant

Many prefixes used for research and development reports cover a number of installations. NP("Non-Project") numbers are assigned by the Technical Information Service at Oak Ridge to those reports which it receives from sources not under contract to the Atomic Energy Commission. The UCRL Information Division gives "Misc" numbers to any others received here that do not bear an identifying number. Many reports are grouped together under numbers corresponding to an AEC division or operations office. Some of these are as follows:

CO, COO -Chicago Operations Office  
IDO -Idaho Operations Office  
NYO, NYOO -New York Operations Office  
ORO -Oak Ridge Operations Office  
RMO -Raw Materials Division  
WASH -Atomic Energy Commission, Washington

In our semimonthly "List of Reports Received" the originating installation will be placed in the author column whenever the report code number does not indicate a specific laboratory, or is obsolete or not given in this list.

Two series of translations are currently received, one sponsored by the AEC (AEC-tr), the other by the National Science Foundation (NSF-tr).

LIST OF UNCLASSIFIED REPORTS RECEIVED IN THE UCRL INFORMATION  
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Radiation Laboratory, Department of Physics,  
University of California, Berkeley, California

January 3, 1955

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APEX-176	Miscellaneous Data for Shielding Calculations	J. Moteff, Aircraft Nuclear Propulsion Program	12-1 54
JENER PUB. -8	Chemical Dosimetry of Radiations Giving Different Ion Densities. An Experimental Determination of G Values for Fe <sup>2+</sup> - Oxidation	L. Ehrenberg, E. Saeland	1954
KAPL-1231	Determination of Efficiency of Kanne Chamber for Detec- tion of Radiogases	J. Fitzgerald, B. Borelli	11-8-54
NM-000-018.04 Memo Rpt. 54-8	Some Further Observations on the Interaction of Edta with the Myosin-ATP System	E. Friess, M. Morales, W. Bowen	8-17-54
NM-000-018.07 Memo Rpt. 54-9	A Splash Trap	G. Imirie	10-12-54
NM-005-048.02. 31	Effect of Snail Maintenance Temperatures on Develop- ment of Schistosoma Mansoni	M. Stirewalt	8-17-54
NM-006-012.04. 70	Dose Dependence and Sequential Changes in Mouse Small Intestinal Weight Induced by Ionizing Radiation	R. Conard	9-21-54

NP-5419	Quarterly Progress Report No. 13 Radiation of Experimental Animals; Effects, Animal Susceptibility and Protective Measures.	Airforce Radiation Lab. Univ. of Chicago	10-15-54
NYO-474	X Irradiation of the Frog Embryo: Gross Effects	R. Rugh Radiological Res. Lab. Columbia Univ.	9-1-54
NYO-4604	Analysis for Long-Lived Products in Soil	N. Sax, J. Gabay, D. Revinson, et al.	9-1-54
UCLA-316	Bibliography of Syntheses with Carbon Isotopes	J. Nevenzel, R. Riley, D. Howton, et al.	12-17-54
UCLA-317	The Effects of Calcium and Phosphate in Foods on Radiostrontium Accumulation	N. MacDonald, P. Spain, F. Ezmirlan, et al	12-13-54
UCLA-318	Installation and Calibration of a Streaming Birefringence Apparatus	J. Rowen R. Dickinson	12-15-54
UR-355	Studies on Flash Burns: The Influence of Exposure Time and Irradiance on the Thermal Protective Qualities of Two Fabric Assemblies	G. Mixter, Jr., H. Pearse	11-16-54
UR-365	On the Mechanism of Skeletal Fixation of Radium	W. Neuman, J. Hursh, E. Boud, et al.	11-16-54
UR-367	A Universal Spectrophotometer for the Measurement of the Relative Spectral Distribution on the Carbon Arc Source	L. Krolak, T. Davis	11-10-54

USNRLD-TR-14	The Effect of Bone-Marrow Injection on the Incorporation of Formate-Carbon-14 Into Desoxyribonucleic Acid Purines on X-Irradiated Rats	C. Erickson, K. Main, L. Cole	10-15-54
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CHEMISTRY

AERE C/M-206	Some Analytical Aspects of Gamma Spectroscopy	L. Salmon	5-29-54
AERE C/R-1451	A Simple Microcalorimeter for Heat of Solution Measurements	W. Hutchinson, A. White	6-54
AERE C/R-1465	Analytical Applications of the Barker Square-Wave Polarograph	D. Ferrett, G. Milner	7-27-54
AERE C/R-1469	The Preparation of Polonium Metal and Polonium Dioxide	K. Bagnall, R. D'Eye	7-6-54
AERE C/R-1471	The Determination by Radioactivation of Small Quantities of Rubidium and Cesium in Sea-Water and Related Materials of Geochemical Interest	A. Smales L. Salmon	7-12-54
AERE C/R-1480	Notes on the International Spectroscopic Conference Held in Lund, Sweden, July 1-5, 1954	L. Bovey	7-15-54
AERE ED/R-1392	Some Experiments with a High Speed Refrigerating Cyclone	C. Robinson, F. Sterry	6-3-54
ISC-520	A Titrimetric Determination of Thorium	J. Ford, J. Fritz, Ames Laboratory	6-54
K-1179	The Microwave Spectrum and Molecular Structure of Bromine Trifluoride	D. Magnuson	12-9-54

K-1180	Microwave Dielectric Constant Measurements on Hydrogen Fluoride Vapor	D. Magnuson	12-9-54
MISC-1954-58 Vol. 4 Nos. 2, 3, and 4	Isotopics Announcements of the Isotopes Division	Isotopes Div., AEC	10-54
MISC-1954-149	Properties of Solutions in the Neighborhood of the Critical Temperature of the Solvent Fourth Technical Report Period Covered: 1 August, 1953-30, November, 1954	S. Benson, C. Copeland, P. Allen, et al. Univ. of Southern Calif.	12-1-54
MLM-859	Decay and Growth Tables for the Naturally Occurring Radioactive Series	H. Kirby	7-1-53
Monograph 2298	Hydrothermal Growth of Quartz Crystals	A. Walker	8-54
Monograph 2341	Gasometric Method for Determination of Hydrogen in Carbon	W. Guldner, A. Beach	7-54
NAA-SR-1050	Theory of the Reaction Between Alkali Metal and Alkali Halides with Application to the System K-KCl	D. Westervelt	12-15-54
NBS-3819	Fluorine Substitution in Hydrous Silicates and Related Minerals September, 1954	A. Valkenburg, G. Rynders	
ORNL-1811	Distribution of Rare-Earth Nitrates Between Tributyl Phosphate and Nitric Acid	A. Topp, B. Weaver	10-15-54
TEI-450	The Photometric Determination of Aluminum in Phosphate Materials with Ferron	M. Delevaux, R. Smith, F. Grimaldi Geological Survey	8-54
TID-82 (Suppl. 2)	Gmelin's Handbook of Inorganic Chemistry System No. 55 Uranium and its Isotopes	Tec. Info. Service, AEC	11-54

Y-725	The Electromagnetic Concentration of the Isotopes of Hafnium	L. Love, W. Bell, Oak Ridge Nat'l Lab.	2-5-51
Y-742	Concentration of the Stable Isotopes of Chromium by the Electromagnetic Process	C. Ketron, W. Bell, L. Love, Oak Ridge Nat'l Lab.	3-7-51

ENGINEERING

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HE-150-125	Base Pressure Studies in Rarefied Supersonic Flows	L. Kavanau Institute of Eng. Res. Univ. of Calif. Berkeley, Calif.	11-1-54
HE-150-126	Experimental Investigation of the Flow About the Leading Edge of a Flat Plate	J. Laurmann Institute of Eng. Res. Univ. of Calif. Berkeley, Calif.	10-15-54

METALLURGY AND CERAMICS

AECU-2779	Report on the Physical Behavior of Zircaloy-2 Plate Material Produced by the Park Works of the Crucible Steel Company of America from Ingot No. 710D640P72BK	L. Bledsoe Newport News Shipbuilding and Dry Dock Company, Eng. Tech. Department	6-8-54
AERE Inf/Bib 94	Liquid Metal Coolants	J. Terry, N. Skeats	7-54

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MISC-1954-150	Investigations of the Oxidation of Chromium and Nickel- Chromium Steels Summary Technical Report	H. Yearian, Purdue Univ.	6-54
MISC-1954-151	An Investigation of Scaling of Zirconium at Elevated Temperatures Quarterly Status Report No. 6 September 2 to December 2, 1954	W. Baldwin, Jr., D. Garibotti, H. Green, Case Inst. of Tech.	12-7-54

MISC-1954-152	Summary Report on a Metallurgical Study of Molybdenum to Office of Naval Research Navy Department	S. Case Battelle Memorial Institute	10-15-54
MISC-1954-155	Piezoelectric Titanate Ceramics with Low Temperature Coefficients Tech. Rpt. No. 2	D. Berlincourt, Brush Lab. Co.	11-30-54
MISC-1954-156	I. Deformation Studies of Metals at Elevated Temperatures II. The Iron-Chromium-Nickel Ternary System III. Effect of Structure and Composition on the Strength Properties of Stainless Steel Periodic Status Report No. 9 September, 1954, November, 1954	N. Grant, H. Chang, F. Monkman, et al., Mass. Institute of Tech. Dept. of Metallurgy	
MISC-1954-157	Effects of Impurities and Imperfections on Mechanical Properties of Metals Thirteenth Technical Report	E. Parker, J. Washburn Institute of Eng. Res. Univ of Calif. Berkeley, Calif.	11-54
Monograph-2323	Stress Systems in the Solderless Wrapped Connection	W. Mason, O. Anderson	5-54
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NYO-6296	Study of Metal-Ceramic Interactions at Elevated Temperatures Quarterly Progress Report for the Period Ending October 1, 1954	W. Kingery F. Norton, Mass. Institute of Technology	11-54

NYO-6323	Application of Chemical Thermodynamics to the Study of Alloy Formation Progress Report for July 1, 1954 to October 1, 1954	W. Wallace, R. Cragi, T. Brotherton, et al., Pittsburgh Univ.	10-14-54
NYO-6446	The Measurement of Thermal Conductivity of Refractory Materials Quarterly Progress Report for the Period Ending October 1, 1954	W. Kingery, F. Norton Mass. Inst. of Tech.	11-54
NYO-6595	Lattice Imperfections and Grain Boundaries Progress Report for January - July, 1954	R. Smoluchowski, C. Coleman, Y. Li, et al., Carnegie Inst. of Tech.	9-13-54
NYO-7042	Solid Solutions and Grain Boundaries Progress Report No. 23	B. Averbach, M. Cohen, F. Herbstein, et al., Mass. Institute of Tech.	9-30-54
NYO-7072	Fundamentals of Cold Working and Recrystallization Progress Report No. 16	B. Averbach, M. Cohen, S. Allen, et al., Mass. Institute of Tech.	9-30-54

PHYSICS

AD-16777	Studies of Photoconductivity as a Fundamental Property of Phosphorescent Material Quarterly Progress Report No. 7 for December 15 to March 15, 1953	H. Kallmann New York Univ.	7-53
AERE C/R-1458	The Statistical Significance of Very Low Counting Rates	E. Crouch	7-21-54
AERE RP/R-1439	Oscillator Apparatus for the Measurement of Thermal Neutron Absorption Cross-Sections in B. E. P. O.	V. Small, A. Spurway	5-20-54

AERE T/M-112	Focusing System for the 600 Mev Proton Linear Accelerator	Mrs. M. Bell, W. Walkinshaw	8-54
ANL-5317	Physics Division Quarterly Report March and April, 1954	L. Turner	9-54
APEX-176	Miscellaneous Data for Shielding Calculations	J. Moteff Aircraft Nuclear Propulsion Program	12-1-54
CERN-PS/FG-1	General Considerations on the Power Supply for the Magnet of High-Energy Proton-Synchrotrons	European Council of Nuclear Research	12-54
ISC-499	Device for Detection and Identification of Charged Particles from Photonuclear Reactions	A. Snyder, D. Zaffarano, Ames Lab.	12-53
ISC-515	Radiations from Cerium <sup>141</sup>	J. Jones, Jr., E. Jensen, Ames Lab.	1-15-54
K-1182	The Transition from Localized to Mobile Adsorption	W. DeMarcus, J. Dyer	12-1-54
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MIT-NS-TEC. RPT. 65	Technical Report No. 65 August 31, 1954 Tables of Radial Solutions of the Dirac Equation for the Scattering of High Energy Electrons by a Point Charge.	A. Glassgold, E. Mack Lab. for Nuclear Science and Eng. Mass. Institute of Tech.	

ML-240	A Study of Multi-Bev Linear Electron Accelerators	R. Kyhl Microwave Lab. Stanford Univ.	6-54
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NYO-3131	Radiation Effects in Solids Progress Report for January 1 to July 1, 1954	R. Smoluchowski, W. Leivo, H. Ingham, et al., Carnegie Inst. of Tech.	9-24-54
ORNL-1798	Semiannual Progress Report for Period Ending September 10, 1954	J. Fowler E. Wollan	12-14-54
T and A. M. Report No. 38	The Influence of Repeated Loads on the Residual Stresses in Inelastically Deformed Beams	T. Elsesser, H. Corton, Illinois Univ.	6-54
TID-5211	High-Voltage Problems	J. Trimmer, H. Pearlman Clinton Engineer Works Tenn. Eastman Corp.	1951
NRL-4385	Crystal Diode Ring Multipliers	R. Wilcox	6-18-54
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MISCELLANEOUS

ASTIA-U-64	Title Announcement Bulletin No. U-64	Armed Services Technical Info. Agency	11-19-54
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ASTIA-U-65	Title Announcement Bulletin No. U-65	Armed Services Tech. Info. Agency	11-29-54
K-1148	Portsmouth Technical Services Building An Industrial Atomic Laboratory	R. Ulm, W. Hamer, L. Rogers, et al.	11-29-54
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UCRL-2783	Least-Squares Fitting of a Gaussian Function and Evaluation of the Errors of the Coefficients	R. Mitchell, R. Madey	6-1-53
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