
Register of the Arthur Edward Ruark papers

Finding aid prepared by Hoover Archives Staff

Hoover Institution Library and Archives

© 2016

434 Galvez Mall

Stanford University

Stanford, CA 94305-6003

hoover-library-archives@stanford.edu

URL: <http://www.hoover.org/library-and-archives>

Title: Arthur Edward Ruark papers

Date (inclusive): 1885-1979

Collection Number: 80112

Contributing Institution: Hoover Institution Library and Archives

Language of Material: English

Physical Description: 56 manuscript boxes(22.4 Linear Feet)

Abstract: This collection contains writings, technical reports, reprints, lectures, correspondence, notes, and printed matter relating to physics.

Creator: Ruark, Arthur Edward, 1899-1979

Hoover Institution Library & Archives

Access

The collection is open for research; materials must be requested at least two business days in advance of intended use.

Publication Rights

For copyright status, please contact the Hoover Institution Library & Archives.

Acquisition Information

Acquired by the Hoover Institution Library & Archives in 1980.

Preferred Citation

[Identification of item], Arthur Edward Ruark papers, [Box no., Folder no. or title], Hoover Institution Library & Archives.

Biographical Note

American physicist; assistant and senior associate director of research, Atomic Energy Commission, 1961-1969.

1899 Born in Washington, D.C.

1921 Received A.B. cum laude from Johns Hopkins University

1923 Received A.M. from Johns Hopkins University

1927-1929 Worked as a physicist for Gulf Oil Co., Mellon Institute

1926-1927 Served as assistant professor of physics at Yale University

1924 Received Ph.D. from Johns Hopkins University

1922-1926 Served as a member of the Atomic Structure Section of the Bureau of Standards, Washington, D.C.

circa

1945-1956 Started the graduate program of physics at the University of Alabama

1934 Served as the head of the physics department at the University of North Carolina

1930-1934 Served as professor of physics at the University of Pittsburgh

1930 Served as chief of physics division for the Gulf Research Laboratory

1979 Died in Washington, D.C.

1930 Wrote *Atoms, Molecules, and Quanta* with Nobel Prize in Chemistry winner Harold Clayton Urey

1959 Wrote "Material for the McKinney Report - Progress Towards Fusion-Power"

Scope and Content of Collection

Writings, technical reports, reprints, lectures, correspondence, hand-written notes, and printed matter relating to physics.

Publications include *The Physical Review*, *American Journal of Physics*, *Physics Today*, the German language *Zeitschrift Für Physik*, and the French language *Le Journal de Physique et le Radium*. Also includes published reports from the United States Atomic Energy Commission.

Subjects and Indexing Terms

Physics

Nuclear energy -- United States

U.S. Atomic Energy Commission

Correspondence 1930-1977

box 1, folder 1 **A - F 1937-1975**

box 1, folder 2 **G - I 1930-1977**

box 1, folder 3 **J - L 1931-1970**

box 1, folder 4-5 **M 1966-1976**

box 1, folder 6, box 2, folder 1 box 2, folder 2-3 box 2, folder 4	N - S 1933-1972
	T - V 1943-1973
	W 1940-1968
	Speeches and Writings 1940-1975
box 2, folder 5	A-B 1965 "A Note on Classical Fields" 1964 "About Symmetry" undated "Addendum on Extended Form of Ehrenfest Paradox" 1973 "Advantages and Limitations of Fusion-Power" undated "Approximate Methods of Solving the Wave Equation" undated "Approximate Parameters of the Accelerator" undated "Background and History of the Sherwood Program" 1966
box 2, folder 6	C 1940 "CERN Proton Synchrotron" undated "The Chemistry of Tritium in Controlled Fusion Devices" 1965 "Composition of Mixed Vapors in the Cloud Chamber" 1940 "Cornell 10-ReV Electron Synchrotron" undated "Cosmic Ray File" 1969
box 3, folder 1	D undated "Directions to Tester" undated
box 3, folder 2-3	E 1953-1965 "Electromagnetic Interactions" 1968 "Electron-Like Kryptotrons" undated "Electron Microscope Bibliography" 1966 "Energy Loss and Scattering of Fast Ions and Electrons" 1953 "Experimental Investigations of Pair Production" undated
box 3, folder 4	F 1948-1967 "Fast Modulation Effects in the Optical Region" 1947 "The Foundations of the Quantum Theory" undated "Future Advances in Electron Microscopy" 1967
box 3, folder 5	G-I 1949 "General Properties of Frequency Distributions" undated "General Theory of Quantum Dynamics" undated "Geometry of n-Dimensional Space" undated "Improvement of Telegraphic Word-Speed by Use of High-Character Printing Systems" 1949 "Interaction Energy in Quantum Electrodynamics" undated
box 4, folder 1	K-L 1974 "LLL-Sohio Solar Process Heat Project" 1974
box 4, folder 2	M-O 1956-1975 "The Need for Controlled Thermonuclear Power" undated "On the Kinetic Energy of the Visible Universe" 1956
box 4, folder 3	P 1953-1968 "Permutations, Combinations" undated "The Possibility of Hitherto-Undiscovered Stable Particles" 1953 "Publications of Arthur E. Ruark" 1968
box 4, folder 4-5	R 1952-1969 "Radiation from a Very Hot Plasma" 1952 "Research Contracts" 1969 "Research Toward Power from Fusion of Hydrogen Isotopes" 1963
box 4, folder 6	Sc-Sp undated "Scattering of a Beam of Particles by a Ceter of Force" undated "The Science of Completely Ionized Matter" 1965 "Scientific Principles" undated "Scientific Problems" undated "Scientific Theology" 1967

	"Selected Phenomena in the Field of Oxide Hydration" 1966
	"Symmetry in a Curved Manifold" 1962
	"Symmetry in Chemistry" undated
box 5, folder 1-2	Sp
	"Special Topics in Spectroscopy" undated
	"Spectral Intensities" undated
box 5, folder 3	Ta-Ti 1951
	"The Theory of Discrimination and Reliability in Crowded Situations" 1951
box 5, folder 4	Tr-Ty 1949-1960
	"Trends in Project Sherwood" 1960
	"Typewriter Keyboards Carrying Both Letters and Very-Frequent Words" 1949
box 6, folder 1	U 1968
	"Ultimate Reserves" undated
	"UN-6" 1968
box 6, folder 2-3	W 1968
	"Where Do We Go From Here?" 1968
box 6, folder 5, box 7, folder 1-3	Untitled
box 7, folder 4	Glass Slides undated
box 7	Notes undated
box 8	Notes undated
box 9	Notes undated
box 10	Notes undated
box 11	Notes undated
box 12	Notes undated
box 13	Notes undated
box 14	Notes undated
box 15	Notes undated
box 16	Notes undated
box 17	Notes undated
box 18, folder 1-2	Photographs undated
	Printed Matter 1885-1979
box 18, folder 3-6, box 19, folder 1-3	Articles 1963-1978
box 19, folder 4-5, box 20, folder 1	Clippings 1971-1976
box 20, folder 2	Pamphlets 1942-1965
	Reports 1921-1979
box 20, folder 3-5, box 21, box 22, folder 1	A
	"An Absolute Frame of Reference for the Expanding Universe," 1965
	"An Amateur's View of Particle Physics," 1968
	"An Analogy Between Metric and Hertz Potentials," 1974
	"An Analytical Approach to the Ising Problem," undated
	"An Application of Information Theory to Multivariate Analysis," 1952
	"An Astrophysical Determination of the Average Life of an Excited Calcium Atom," 1924
	"An Atomic Beam Study of the Hyperfine Structure of the Metastable State of Indium," 1939
	"An Attempt to Detect a Magnetic Field as the Result of the Rotation of a Copper Sphere at High Speed," 1928
	"An Attempt to Detect a Neutral Particle of Small Mass," 1934
	"An Attempted Theory of Photosynthesis," 1937
	"A Brief History of Element Discover, Synthesis, and Analysis," 1963
	"A Brouwer Type Space to Replace the Conventional Physical Continuum When Particles are Regarded as Distinction Systems"

"A Class of Conserved Tensors in an Arbitrary Gravitational Field," 1962
"A Class of Representations of the Generalized Bondi-Metzner Group," 1966
"A Classification of Quadrics in Affine N-Space by Means of Arithmetic Invariants," 1932
"A Cloud Chamber Search for Free Magnetic Poles," undated
"A Cloud Chamber Search for Sub-Ionizing Particles," 1957
"A Cloud Chamber Study of the Compton Effect," 1936
"A Commutation Rule in Quantum Mechanics," 1930
"A Comparative Review of Recent Researches in Geometry," 1892
"A Comparison of the Eastlund Pulsar Model with the Frequency Dependent Pulse Width Data for CP1133," undated
"A Comparison of the Informational Capacities of Amplitude and Phase Modulation Communication Systems," 1952
"A Comparison of Transmission Systems," undated
"A Compilation of Pion-Nucleon Scattering Data," undated
"A Compilation of Potassium Nitrogen Reactions," 1969
"A Compton Scattered Laser Beam for the 82" Bubble Chamber," 1967
"A Contribution to the Mathematical Biophysics of Psychophysical Discrimination," 1938
"A Contribution to the Theory of the Brillouin-Wentzel-Kramers Method," 1935
"A Correspondence Principle in the Compton Effect," 1926
"A Critique of Operationalism in Physics," 1937
"A Demonstration of One-Atom Detection," 1977
"A Determination of All Invariant Tensors," 1927
"A Determination of the Masses and Velocities of Three Radium B Beta-Particles," 1940
"A Determination of the Rate of Change of G," 1976
"A Discussion of the Experiments Bearing on the Existence of a Medium for the Propagation of Electromagnetic Waves," 1962
"A Double Quantum Jump in CTR," 1975
"A Dynamical Model for Complex Atoms," 1926
"A Dynamical Model of a Crystal Structure," 1947
"An Eigen-Value Problem in the Generalized Theory of Gravitation," 1958
"An Electrical Quadrupole Moment of the Deuteron," 1940
"An Electromagnetic Effect of Importance in Solar and Terrestrial Magnetism," 1929
"An Energy Principle for Dissipative Fluids," 1969
"An Equation for a System with a Single Type of Transformation," 1947
"An Equation of State for a System with a Single Type of Transformation," 1947
"An Exploding Pellet Fusion Reactor," 1969
"An Extensible Model of the Electron," 1962
"An Extension of the Balmer Series of Hydrogen and Spectroscopic Phenomena of Very Long Vacuum Tubes," 1920
"An Extension of the Maxwell Theory," 1955
"An Extension of the Newtonian Law of Gravitation," 1958
"A Field Theory of Elementary Particles," 1939
"A Fusion-Fission Reactor," 1962
"A General Equation of State: Equations for Ammonia and Steam," 1949
"A Generalization of a Theorem of Jacobi," 1950
"A Generalization of Electrodynamics with Applications to the Structure of the Electron and to Non-Radiating Orbits," 1921
"A Generalization of the Einstein-Mayer Field Theory," 1935
"A Generalization of the Kaluza-Klein Field Theory," 1935
"A Geometric Approach to Nonrelativistic Spin Theory," 1953
"A Hundred Years of Entropy," undated
"An Improved Evaluation of 'Excitation-Heating of Advanced Pellet Fusion Fuel to Ignition,'" 1976

"An Indeterminacy Relation for Several Observables and its Classical Interpretation," 1934
"An Informational Theory of the Structure of Language," undated
"An Interaction Interpretation of Special Relativity Theory," undated
"An Interpretation of Dirac's Theory of the Electron," 1928
"An Interval Meter and Its Application to Studies of Geiger Counter Statistics," 1940
"An Investigation on Jets," 1953
"An Investigation of the Pair Creation by Gamma Rays in a Cloud Chamber," 1937
"An Investigation of the Production of Positive and Negative Electron Pairs in a Cloud Chamber," 1937
"An Intrinsic Transport Theorem," undated
"An Introduction to Spinors," 1953
"A Kinematical Interpretation of Electromagnetism," 1920
"A Literature Review and Interpretation of the Absorption of Water Vapor on Glass Surfaces," undated
"A Lorentz Invariant Theory for the Gravitational Light-Deflection Phenomena," 1965
"A Markovian Analysis of the Life of Newspaper Subscriptions," 1968
"A Mathematical Theory of Optical Illusions and Figural Aftereffects," 1973
"A Maximum-Complexity Theorem for Nondynamical Parity Tests," 1966
"A Mechanism of Acquirement of Cosmic-Ray Energies by Electrons," 1932
"A Method for the Construction of Minimum Redundancy Codes," undated
"A Method of Calculating Fluctuations," 1938
"A Metrical Theory and Its Relation to the Charge and Masses of the Electron Proton," 1931
"A Model of Unified Fields," 1970
"A Modification of Brillouin's Unified Statistics," 1934
"A New Class of Spectra Due to Secondary Radiation," 1928
"A New Conception of Superconductivity," 1937
"A New Cosmological Hypothesis," 1976
"A New Device for Obtaining X-Ray Diffraction Patterns from Substances Exposed to High Pressure," undated
"A New Look at Research and Development," 1963
"A New Method for the Measurement of the Bohr Magneton," 1937
"A New Model of Magnetic Storms and Aurorae," 1957
"A New Modification of Classical Electromagnetic Theory," 1953
"A New Radiation" 1928
"A New Regularity in the List of Existing Nuclei," 1930
"A New Rigorous Lower Bound on the Range of the Triplet Neutron Proton Interaction," 1953
"A New X-Ray Effect," 1940
"A Nonhomogenous Cosmological Model," 1949
"A Note on Atomic Binding Energies," 1951
"A Note on the Decomposition of the Scalar Product of Two Symmetric Tensors," 1954
"A Note on Imitative Behavior and Information," 1951
"A Note on Positron Theory and Proper Energies," 1936
"A Note on the Possible Effect of Screening in the Theory of Beta Disintegration," 1936
"A Note on Summation over Seynman Histories," 1957
"A Note on the Value of the General Constants of the Saha Equation," 1933
"A Novel Concept for Start-up of Controlled Fusion Reactions," 1969
"A Numerical Variational Method," 1951
"An Optical Study of Adsorbed Films," 1928

box 17, folder 2

"An Outline of Stability Studies Concerning the Density Build-up Project in the Colliding Beam Device Migma IV," 1978
"A Partial Wave Analysis of Single Pion Photoproduction," 1968
"A Peril and a Hope," 1978
"A Phase Shift Analysis of the Scattering of Protons by Deuterons," 1947
"A Photometric Procedure for Weight Determination of Submicroscopic Particles Quantitative Electron Microscopy," 1962
"A Physicist's Thoughts on the Formal Structure and Psychological Motivation of Theory and Observation," 1957
"A Practical Proposal for the Experimental Study of Born Rigid Motions," 1973
"A Precise Determination of the Magnetic Moment of the Positive Muon," 1969
"A Proposal for a Bubble Chamber Experiment with the Polarized Laser Induced Photon Beam," 1968
"A Proposal to the National Science Foundation: A Cloud Chamber Search for Free Magnetic Poles," undated
"A Quantitative Determination of the Neutron Moment in Absolute Nuclear Magnetons," 1940
"A Quantum Theory of Wheeler-Feynman Electrodynamics," 1969
"A Rational Interpretation of the Dirac Equation for the Electron," 1974
"A Recent Development in Communication Technique," 1952
"A Reconciliation of the Undulatory and Particulate Aspects of Radiation," 1974
"A Redetermination of the Newtonian Constant of Gravitation," 1927
"A Regional Air Pollution Analysis Model," 1971
"A Relation Between the Dirac Field of the Electron and Electromagnetic Fields," 1975
"A Relativistic Field Theory of the Electron," 1975
"A Reputation of Geochronometric Conventionalism," undated
"A Review of Fusion-Fission (Hybrid) Concepts," 1973
"A Search for an Electrostatic Analog to the Gravitational Red Shift," 1931
"A Search for Neutrinos from the Sun," 1968
"A Search for New Particles Produced by High Energy Photons," 1968
"A Simple Graphical Method in the Analysis of SU₃," 1965
"A Simple Picture of the Binding Energies of Hydrogen and Helium," 1939
"A Simplified Presentation of Einstein's Unified Field Equations," 1929
"A Singularity-Free Empty Universe," 1968
"A Spinor Formulation of Electromagnetic Theory in General Relativity," 1963
"A Study of Background in a Long Sensitive Time Wilson Cloud Chamber," 1958
"A Study of H.E. Ives on Relativity," undated
"A Summary of Communication Theory," undated
"A Symmetric-Tensor-Antisymmetric-Tensor Theory of Gravitation and Electromagnetism from a Quaternion Representation of General Relativity," 1968

box 22, folder 2-3

A-Ab

"A Test of Neutrino-Antineutrino Identity," undated
"A Theoretical Comparison Between Autocorrelation and Square Law Types of Detection," 1951
"A Theory of Gravitation," 1966
"A Theory of the Magnetic Field Associated with Sun-Spots," 1929
"A Theory of Relativistic Supermultiplets," 1969
"A Thermodynamic Theory of Solutions of Two Liquids at All Concentrations," 1942
"A Unified Einstein-Yukawa Theory," 1977
"A Unified Theory of Spontaneous Electrical Fluctuations in Thermionic Valves," 1947
"A Unified Treatment of the Kerr and Vaidya Solutions in General Relativity," 1970
"A Unified Variational Formulation of Classical and Quantum Dynamics," 1962

"A Universal Polarimeter," 1925
"An Upper Limit for the Cross Section for Scattering of Neutrinos by Hydrogen," 1947
"A Valuable Guide to the Theory of Scattering Processes," 1973
"Abnormal Nuclear States and Vacuum Excitations," 1974
"Absence of Effect of an Electric Field on the Magnetic Susceptibilities of HCl and NO," 1928
"Absolute Conservation Laws and Space-Time Symmetries," 1966
"Absolute Selection Rules for Meson Decay," 1950
"The Absolute Significance of Maxwell's Equations," 1921
"Absorption Coefficient for Slow Electrons in Alkali Metal Vapors," 1929
"The Absorption Coefficient of Hard Gamma Rays," 1930
"Absorption Curves and Ranges for Homogenous Beta Rays," 1937
"Absorption of the Beta Particles from Some of the Radioactive Substances by Air and Carbon Dioxide," 1915
"Absorption Problems in Radioactivity," undated
"Absorption Spectra of Mercury, Cadmium, and Zinc at High Pressure," 1927
"Abstract Mathematical Molecular Biology," 1961
"Abundances of the Elements," 1956

box 22, folder 4-5

Ac - An

"The Acceleration Formula for a Substratum and the Principle of Inertia," 1937
"Acoustic and Magnetic Surface Wave Ring Interferometers for Rotation Rate Sensing," 1974
"Action of Radiation and Perturbations on Atoms," 1927
"Action of Thromboplastinase on Human Brain Lipid Fractions," 1955
"Actinouranium and the Geologic Time Scale," undated
"The Activation Energy of Unimolecular Reactions," 1935
"Adsorption de l'eau sur une Face de Clivage de Chlorure de Sodium," 1963
"Advanced Fuels for Nuclear Fusion Reactors," 1975
"Advances in Knowledge of Nuclear Forces," 1953
"Advances in Nucleon-Nucleon Scattering Experiments and Their Theoretical Consequences," 1953
"Advances in X-Ray Analysis," 1963
"The Affine: Projective Field Laws," undated
"Affiliation to Optics of Certain Results and Methods of Information Theory," undated
"Age and Confinement of Cosmic Ray Nuclei," 1970
"Aggregates in One and Two Dimensional Random Distributions," 1945
The Algebra of Microscopic Measurement," 1959
"Algebraic Classification of Four-Dimensional Riemann Spaces," 1969
"Allergy Statistics," 1966
"Alpha-Particle and Fission Anisotropies from Oriented Actinide Nuclei," 1958
"The Amount of Information in Absolute Judgements," 1951
"Amplifier Response," 1946
"Analogy in Quantum Theory: From Insight to Nonsense," 1967
"Analogy Structure in a Thesaurus," undated
"Analysis of Conversion Ratio Requirements in an Expanding Nuclear Electric System," 1965
"Analysis of Energy Recovery Blankets for Controlled Fusion Systems," undated
"Analysis of Non-Commuting Vectors with Application to Quantum Mechanics and Vector Calculus," 1934
"Analysis of the Dirac Equation in Riemannian Space," 1967
"Angular Distribution of Electrons Scattered by Mercury Vapor," 1931
"Angular Distribution of Gamma Rays in Coulomb Excitation," 1955
"Angular Distribution of Intensity of Resonance Radiation," 1928
"Angular Distribution of Light Scattered in Liquids," 1941
"Angular Distribution of Pions from Theta Decay," 1955

"Angular Scattering of Electrons in Hydrogen and Helium," 1928
"Anomalous Prediction of Quantum Processes by Some Human Subjects,"
undated
"Anomalous Scattering of Fast Neutrons," 1940
"Anomalous Transmission of X-Rays in Copper Crystals," 1963
"Anwendung des Prinzips virtueller Verschiebungen auf die in eine Strahlung
versenkten Systeme," 1911
"Any Physics Tomorrow?," 1949

box 23, folder 1-2

Ap - Ar

"Apparatus for Viewing and Measuring Stereoscopic Cloud Chamber
Photographs," 1940
"Apparent Evidence of Polarization in a Beam of B-Rays," 1928
"The Apparent Existence of Easily Deflectable Positives," 1932
"The Application of the Absorption Method to the Determination of the Upper
Limits of Continuous Beta Ray Spectra," 1938
"Application of Adiabatic Functions to Nitrogen + Nitrogen Reactions," 1956
"Application of Liouville's Theorem to Electron Orbits in the Earth's Magnetic
Field," 1933
"Application of the Theory of Small Vibrations to Polyatomic Molecules," 1941
"The Applications of Fibre Bundles in Physics," 1967
"Applications of the Radioactive Elements in Chemistry," 1930
"Approaches to Infinity," undated
"The Approximate Equality of the Proton-Proton and Proton-Neutron
Interactions for the Meson Potential," 1939
"Approximate Nature of Physical Symmetries," 1958
"Approximately Relativistic Equations," 1938
"Approximately Relativistic Equations for Nuclear Particles," 1937
"Are Electrons Real?," 1965
"Are Pion-Pion Scattering Experiments Feasible?," 1967
"Are Photon-Photon Scattering Experiments Feasible?," 1967
"Are Quanta Unidirectional?," 1923
"Are There Particles in Nature Other Than Bosons and Fermions?," 1968
"Are We Machines?," 1968
"Are We Retrogressing in Science?," 1963
"Around the World Atomic Clocks," 1972

box 23, folder 3-4

As - Ba

"Aspects of the Scholarly Life," undated
"Aspects of the Turbulence Problem," 1952
"Association and the Equation of State," 1955
"Association and the General Equation of State of Gases, Liquids, and Solids,"
undated
"Association Theory and the Nature of the Critical State," 1972
"Association Theory: The Discontinuous Case and the Structure of Liquids and
Solids," 1970
"Asymmetries of Pressure Broadened Spectral Lines," 1933
"Asymptotic Properties of Fields and Space-Times," 1962
"The Atom in Man's Future," 1967
"Atomic Energy Commission High Intensity Neutron Generator," 1964
"Atomic Energy Relations," 1934
"Atomic Hydrogen and the Balmer Series Spectrum," 1922
"Atomic Synthesis and Stellar Energy," 1931
"The Atomic Weights of Radioactive Substances, Actinouranium, and the
Problem of Geologic Time," undated
"The Atmospheres of the Stars," 1934
"Attenuation of 14.1 Mev Neutrons in Water," 1957
"Bahnvalenz und Richtungseigenschaften in der Theorie der chemischen
Bindung," 1936

box 23, folder 5

"The Barnwell Addresses," 1934
"Basic Assumptions in Kinetic Theories of Fully Ionized Gases," 1964
"The Basic Ideas of Quantum Mechanics," 1969
"The Basic Principles Involved in the Glassy State," 1942
"Basic Theorems in Matrix Theory," 1962
"Basis for Special Relativity Theory Provided by Experiments in High Energy Physics," 1966
"The Basis of Our Measuring System," undated

Be - Br

"Beauty, the Ideal: Of the Arts, and the Sciences," 1954
"The Behavior of Particles in a Scattering and Absorbing Medium," 1947
"Beiträge zur Optik trüber Medien," undated
"Beiträge zur Optik trüber Medien, speziell kolloidaler Metalllösungen," 1908
"Bericht über Fragen der Kernphysik," 1934
"The 'Best' Straight Line among the Points," 1953
"The Beta and Gamma Rays of Actinium B and Actinium C," 1939
"Beta-Gamma Directional Correlation in Sb," 1966
"The Beta Rays of Actinium B and Actinium C Partial Spectra," 1938
"The Beta Ray Spectra of Lithium and Boron," 1937
"The Beta-Ray Type of Radioactive Disintegration," 1934
"Bethe-Salpeter Equation," 1967
"Big-Bang Model Without Singularities," 1973
"Bilateral Symmetry in Morphogenesis of Embryos," 1970
"Binding Energy of the Triton," 1947
"The Biophysics of Space and Time," 1935
"The Blue-Green Fluorescence of Mercury Vapor," undated
"Bohr's Theory of the Hydrogen Atom," undated
"Bonding Power of Electrons and Theory of Valence," 1931
"Bragg Reflection of Slow Neutrons," 1936
"Breakdown of Lorentz Invariance," 1967
"The Broglie Waves," 1977
"Brownian Motion in a Field of Force and the Diffusion Model of Chemical Reactions," 1940
"Brownian Motion of a Mirror in Superfluid Helium," 1958

box 24, folder 1

Ca

"The Calculation of Chemical Equilibrium from Spectroscopic Data," 1931
"Calculation of the Kinetic Energy in Flat Space-Time," undated
"Calculations on Classical Field Theory," 1942
"Calculation of Equilibrium Constants for Isotopic Exchange Reactions," 1947
"Calculation of Work at 90 Degrees," undated
"The Cambridge Physical Tracts," undated
"Can Equations of Motion Be Used in High-Energy Physics?," 1970
"Can One Derive the Schwarzschild Line-Element Without the Field Equations?," 1959
"Can Quantum-Mechanical Description of Physical Reality Be Considered Complete?," 1935
"Cantor's Continuum Hypothesis," undated
"Capture of Slow Neutrons," 1936
"Carnegie Institution: Report of the President," 1978
"CASPAR: Control Systems," 1960
"Catalysts, Stored Information, and Controlled Sequences of Chemical Events," undated
"Cauchy's Problem in General Relativity," 1953
"Causality and Modern Physics," 1931
"Causality Effects of Particles that Travel Faster than Light," 1967
"Causality in Natural Science," 1954
"Causality in the Physical World," 1923

box 24, folder 2-3

Ce - Ch

"Census of Oil Desulfurization to Achieve Environmental Goals," 1973
"Central Peaks Due to Microdomains, Impurities, or...?," 1976
"The Center for Particle Theory," 1971
"Center for Theoretical Studies," undated
"Cerenkov Radiation of Neutral Particles with a Magnetic Moment," 1956
"The CERN Separated Low-Momentum Antiproton Beam," 1963
"Characteristic Hypersurface in General Relativity," 1965
"Characteristics Features of Mathematics and of Its History," undated
"The Characteristics of Radio-Frequency Radiation in an Ionized Gas," 1949
"Characteristics of the 'Synchrotron Light' from the NBS MeV Machine," 1965
"Characteristics of Thermonuclear Plasmas," undated
"Charge Fluctuation Forces in Biological Systems," 1969
"Charge Fluctuation Interactions and Molecular Biophysics," 1965
"Charge Quantization and Non-Integrable Lie Algebras," 1968
"The Charging Effect Produced by the Rotation of a Prolate Iron Spheroid in a Uniform Magnetic Field," 1924
"Charts for Predicting Equilibria," undated
"Check List of Items for Future Consideration," 1969
"Chemical Reactions at Surfaces," 1931
"The Chi-Test and Curve Fitting," 1934
"Chronometric Relativity," 1973

box 24, folder 4-5

Ci - Cl

"Circuit Minimization: Algebra and Algorithms for New Boolean Canonical Expressions," 1954
"Civilian Nuclear Power," 1965
"Clarification on Two Important Questions in Rigid Body Mechanics," 1972
"Classical and Quantum Field Theories in the Lagrangian Formation," 1953
"The Classical Description of Charged Particles," 1962
"Classical Electrodynamics and the Conservation of Energy," 1931
"Classical Electrodynamical Equations of Motion with Radiative Reaction," 1959
"Classical Elementary Measurement Electrodynamics," 1968
"Classical Relativistic Mechanics of Interacting Point Particles," 1969
"Classical Theory of Radiating Electrons," 1938
"Classification of Many-Particle States," 1961
"Classification of the Harrison Metrics," undated
"The Clock Paradox and the Physics of Discontinuous Gravitational Fields," 1957
"Close Electron-Electron Collisions at High Energies," 1926
"Cloud Chamber Evidence Against the Existence of Heavy Beta-Particles," 1938
"Cloud Chamber Search for Particles Ionizing Less Than an Electron," 1958
"Cloud Chamber Study of Hard Collisions of Cosmic Ray Muons with Electrons," 1961

box 25, folder 1

Coh - Col

"Coherent Cerenkov Radiation Effects in High Intensity Electron Beam Experiments," undated
"Cohesion of Clean Surfaces and the Effect of Absorbed Gases," undated
"Coils for the Production of a Uniform Magnetic Field," 1939
"Coincidence Pi Electroproduction and the Pion Form Factor," undated
"Collision of Neutron and Proton," 1936
"The Collision of Two Particles: Relativistic Collisions, Collisions Between Quanta, and Material Particles," 1940
"Collision Mechanics," undated
"Collisions of the Second Kind Between Magnesium and Neon," 1935
"Collision of Two Light Quanta," 1934
"Collisional Effects and the Conduction Current in an Ionized Gas," 1953

box 25, folder 2

Com

"Cometary Collisions and Geological Periods," 1973
"Comments on the Incompatibility of Mach's Principle and the Principle of Equivalence in Current Gravitation Theory," 1973
"The Committee on Mathematical Biology," 1953
"Communication in the Presence of Additive, Gaussian Noise," 1952
"A Comparison of the Eastlund Pulsar Model with the Frequency Dependent Pulse Width Data for CP1133," undated
"Comparison of Effective Ranges of N-P and P-P Interactions," 1965
"Comparison of Electron-Proton and Positron Proton Elastic Scattering at Four Momentum Transfers," 1968
"Comparison of the Scattering of Positrons and Electrons from Nuclear Charge Distributions," 1961
"Complete Reduction of Fermion-Antifermion Bethe-Salpeter Equation with Static Kernel," 1975
"Complete Solutions of the Schrodinger Equation and/or the Dirac Equation," 1968
"The Complex Neutron," 1934
"Complex Orthogonal and Anti-Orthogonal Representation of Lorentz Group," 1960
"Complex Scattering Amplitudes in Elastic Electron Scattering," 1967
"Complex Structures and Representations of the Einstein Equations," 1974
"Composite Nature of the Physical Particles in Lagrangian Field Theory," 1976
"Composition and Origin of Cosmic Rays," 1968
"The Composition and Swelling Properties of Haemoglobin Crystals," 1946
"Composition of Mixed Vapors in the Cloud Chamber," 1940
"Compressibility of Solids and Tait's Law," 1966
"Compton-Modified Line Structure and Its Relation to the Electron Theory of Solid Bodies," 1929
"Computer Generated Motion Pictures of One-Dimensional Quantum Mechanical Transmission and Reflection Phenomena," 1966

box 25, folder 3-5

Con

"Concentration-dependent Diffusion Coefficient of Water in Glass," undated
"Concepts in Quantum Theory," 1928
"The Concept of 'Functions' in Algebra," undated
"The Concept of Existence," 1958
"The Concept of Order," 1958
"Concerning the Fluctuations of Current in a High Resistance," 1935
"Concerning the Formulation of Charge Independence of the Pion Nucleon Interaction," 1973
"Concerning the N-P Scattering Cross Section at 24 MeV," 1969
"Concerning the Scattering of Fast Electrons and of Cosmic-Ray Particles," 1939
"Concomitants of Quadratic Differential Forms," undated
"Condensation of Vapors by Compression," 1956
"Condensation Processes and the Origin of the Major and Terrestrial Planets," 1952
"Conditioning Circuits," 1938
"The Conditions for Identical Orbits in the Case of Two Charged Particles of Unequal Mass and Unequal Charge," 1931
"Conference on the Role of Gravitation in Physics," 1957
"Conformal and Geodesic Mapping," 1925
"Conformal Geometry and Elementary Particles," 1954
"Conformal Geometry and the Interpretation of the Weyl Tensor," 1965
"Conformal Tensors," undated
"Consciousness as a Construct in the Quantum Theory of Measurement," undated
"Conservation of Direction in the Impact of High Energy Particles," 1935
"Conservation of Energy in the Disintegration of Lithium," 1937

"Conservation of Energy and the Disintegration of RaE," 1951
"Conservation Theorems in Modified Electrodynamics," 1954
"Consequences of the Cosmic Ray Event 'Centaur': Do Higher Particle Families Exist?," 1974
"Considérations de Critique Historique sur la Théorie de la Relativité," 1924
"The Constant in the Compton Equation," 1934
"Construction of Singularity-Free Spherically Symmetric Space-Time Manifolds," 1967
"Contact Potential Between the Solid and Liquid Phases of Bismuth," 1928
"Contending Ideologies and Politico-Economic Philosophies Underlying Energy Policy in the United States," 1976
"Continued Search for Parity Violating Neutral Current Effects in Atomic Bismuth," 1977
"The Continuous Beta-Ray Spectrum," 1933
"The Continuous Spectrum of Mercury," 1928
"The Contraction of Gravitating Spheres," 1964
"Contrast of Single Atoms in an Aberration-Free Electron Microscope," 1966
"Contribution to a Theory of Photosynthesis," 1941
"Contribution to the Quantum Mechanical Theory of Radioactivity and the Dissociation by Rotation of Diatomic Molecules," 1930
"Contribution to the Mathematical Biophysics of Visual Perception with Special Reference to the Theory of Aesthetic Values of Geometrical Patterns," 1938
"Contributions of Optical Methods to Nuclear Physics," 1957
"Contributions to Quantitative Electron Microscopy," 1959
"Convariant Spinor Formulation of Relativistic Wave Equations under the Homogeneous Lorentz Group," 1957

box 26, folder 1-2

Cor - Cu

box 22, folder 1

"The Corpuscular X Ray Spectra of the Radio Elements," 1933
"Correlation Concepts and the Doolittle Method" 1943
"Correlation of Certain Collision Problems with Radiation Theory," 1935
"Correlation of Delta S and Delta V in Simple Activated Processes in Solids," 1957
"Correspondence Paradox in General Relativity," 1973
"The Correspondence Principle in the Statistical Interpretation of Quantum Mechanics," 1928
"Cosmic Neutrinos," 1963
"Cosmic Rays," 1951
"Cosmic Rays: Astronomy with Energetic Particles," 1974
"Cosmic X-Ray Sources," undated
"The Cosmological Constant and Cosmological Change," 1977
"Cosmological Theories," 1940
"Cosmology and Magic," 1962
"Coulomb Functions for Reactions of Protons and Alpha-Particles with the Lighter Nuclei," 1951
"The Coulomb Logarithm for Heavy Test Ions in Plasmas," 1969
"Coulomb Wave Functions," 1935
"Covariant Spinor Formulation of Relativistic Wave Equations under the Homogenous Lorentz Group," 1965
"Criteria for Scientific Choice," 1963
"Critique of a New Theory of Gravitation," 1965
"Critical Points in Modern Physical Theory," 1937
"Cross Section of Beryllium," 1952
"Cross Sections for Nucleosynthesis in Stars and Bombs," 1966
"Crystals and Photons," 1941
"Current Algebra at Small Distances," 1967

box 26, folder 3

D3 - Den

"D3He as a 'Clean' Fusion Reactor," 1976

"Das elektrische Dipolmoment des Pentaerythrits nach der Molekularstrahlmethode," 1929
"Das Positron," 1934
"Data Compilation of Antiproton-proton Reactions into Antihyperon-hyperon," 1969
"De Broglie Waves," 1977
"Deep Inelastic Electron Scattering and Pair Annihilation," 1970
"Definitions of Compound States," 1964
"Deflection of Electrons by a Magnetic Field on the Wave Mechanics," 1930
"The Deflection of Molecular Rays in an Electric Field: The Electric Moment of Hydrogen Chloride," 1933
"Degenerate Gravitational Fields with Twisting Rays," undated
"Degree of Advancement of Petroleum Exploration in the United States," 1967
"Delay Time and Transient Time in Electrical Filters with Phase Distortion," undated
"The Demand for Various Air Pollution Controls in the Power Industry," 1972
"Demonstrating Our Divine Possibilities," 1967
"Densities of Hydrogen Spectral Lines as a Function of the Electronic Velocity of Excitation," 1929
"Density Fluctuations and Specific Heat near the Critical Point," 1974

box 26, folder 4-5

Dep - Die

"Dependence of Compton Line Breadth on Primary Wavelength with the Multicrystal Spectrograph," 1931
"The Dependence of Nuclear Forces on Velocity," 1936
"Der Kausalbegriff in der Physik," 1932
"Der Ramaneffekt ein neuer von C.V. Raman entdeckter Strahlungseffekt," 1928
"The Derivation of Algebraic Invariants by Tensor Algebra," 1928
"Derivation of the Most General Relativistic Transformation Law of Quantum Fields," undated
"Descartes, Newton, and Snell's Law," 1975
"Design of Surface Mining Systems in Eastern Kentucky," undated
"Detection of the Free Neutrino," 1956
"Determinants of Biodegradability," 1978
"Determination of the Gyromagnetic Ratio of the Proton Gamma-P," 1976
"A Determination of all Invariant Tensors," 1927
"Determination of Solid Angle x Momentum Band Products for Experimental Beams," 1964
"A Determination of the Rate of Change of G," 1976
"Determination of the Total Photon-Proton Cross Section from Low Q² Muon-Proton Inelastic Scattering," undated
"Deuteron Disintegration by Electrons," 1941
"The Deuteron Problem with Gaussian Potentials," undated
"Development of Low-Expansion Class-Ceramic Materials," 1967
"The Development of the Sciences," undated
"The Development of the Space-Time View of Quantum Electrodynamics," 1966
"Devices for Slow Notch Bend Tests," 1942
"Dialog on Dualism," 1968
"Diamagnetic Layer of the Earth's Atmosphere and Its Relation to Diurnal Variation of Terrestrial Magnetism," 1928
"Diamagnetism and Drift Currents in the Solar Atmosphere," 1932
"The Diamond Cell Stimulates High-Pressure Research," 1976
"Did Einstein Understand the Special Theory of Relativity?," 1979
"Die Absorption, Streuung und Sekundärstrahlung harter Gamma-Strahlen," 1937
"Die Differentialgeometrie der Untermannigfaltigkeiten des R Konstanter Krümmung," 1935

"Die Diffusion von einer Punktquelle aus (Nachtrag zu der Arbeit 'Einige Diffusionsprobleme')," 1942
"Die Einzelstreuung von Elektronen über kleine Winkel," 1940
"Die Gamma-Strahlen," undated
"Die Lichtquantenhypothese," 1928
"Die strenge Berechnung von Neutronen-Bremslangen," 1948
"Die Temperaturstrahlung der ungefärbten Oxide im Sichtbaren," 1930
"Die Theorien des Compton-Effektes," 1925
"The Dielectric Coefficient of a Plasma," 1962

box 27, folder 1-2

Dif

"Differential Cross Section for 10 MeV Deuterons," 1947
"Differential Equations for the Probability Distribution of Events," 1944
"Differential Forms in General Relativity," 1970
"Differential Invariant Theory of Alternating Tensors," 1938
"Differential Scatter of Left and Right Circularly Polarized Light by Optically Active Particulate Systems," 1970
"The Differential-Space Theory of Quantum Systems," 1955
"Difficulty and Possibility of Kinetic Theory of Quantum-Mechanical Systems," 1969
"Diffraction by a Grating," 1926
"Diffraction Microscopy," 1951
"The Diffraction of Cathode Rays by Calcite," undated
"Diffraction of Electrons as a Search for Polarization," 1934
"The Diffraction of Electrons in Mercury Vapour," 1951
"The Diffraction of Neutrons by Crystals," 1944
"Diffraction of Neutrons by a Single Crystal," 1947
"Diffusion in Silica Glass Following Reaction with Tritated Water Vapour," 1963
"Diffusion in Solids," 1968
"Diffusion of Oxygen in Fused Silica," 1965
"Diffusion of Protons in SiO₂ + AlO₃ Glass in an Electrical Field," 1962
"Diffusion Studies in Glass," 1962

box 27, folder 3

Dim - Dis

"Dimensional Relations in Magnetohydrodynamics," 1954
"Dimensionality of Space-Time and the Properties of Nuclei and Elementary Particles," 1969
"Dirac Bracket Transformations in Phase Space," 1955
"Dirac Electron in Simple Fields," 1932
"The Dirac Field of an Electron Mapped on a Maxwell-Lorentz Field," 1968
"Dirac's Theory of Magnetic Poles," 1949
"Dirac's wellenmechanische Theorie des Elektrons und ihre feldtheoretische Ausgestaltung," 1930
"Direct Detection of the Angular Momentum of Light," 1935
"Direct Heat-to-Electricity Energy Converters," 1962
"Direct Interactions and Nuclear Reaction Mechanisms"
"Directional Correlations in the Decay of Iridium," undated
"Directional Correlations in the Decay of Pm," 1968
"Discovery and Early History of the Positive Electron," 1934
"Discretization in Galactic Structure and Cosmology," 1966
"Discussion of Cross Sections of Possible Contrast Mechanisms in the Electron Microscope," undated
"Disintegration by Slow Neutrons," 1935
"Dispersion Formula and Raman Effect for the Symmetrical Top," 1930
"Distance and Equivalence in Sequence Space," 1951
"Distinction Between Scattering and Absorption," 1930
"Distinguishable Equivalent Particles with Symmetrized Wave Functions," 1969
"The Distribution in Time of Counts Due to a Constant Source and Its Daughter in Equilibrium," 1937

-
- box 27, folder 4
- "Distribution of Cosmic-Ray Nuclear Disintegration in Time," 1933**
 - "The Distribution of Electrons Round Impurities in Monovalent Metals," 1952**
- Do**
- "Do Metric Standards Contract?," undated**
 - "Do Second-Class Currents Exist in Beta Decay?," 1971**
 - "Do the Equations of Motion Determine the Quantum Mechanical Commutation Relations?," 1930**
 - "Do We Know the World through Science?," 1970**
 - "Does a Gravitational Field Influence Chemical Equilibria?," undated**
 - "Does the Electron Have an Intrinsic Magnetic Moment?," 1947**
 - "Does the Fine-Structure Constant Vary with Cosmic Time?," 1967**
 - "The Domain of Dependence," 1969**
 - "The Donnan Equilibrium," 1952**
 - "Double Stern Gerlach Experiment and Related Collision Phenomena," 1932**
 - "Doublet-Intervals of Lithium, Boron, and Oxygen," 1948**
- box 27, folder 5
- Dr - Dy**
- "Dr. Ames's Notes on Relativity," undated**
 - "Duality of the Electron," 1971**
 - "Duration of Meta-Stable States, Neon," 1932**
 - "Dynamics of Cylindrical Electromagnetic Universes," 1965**
 - "The Dynamics of Fields of Higher Spin," 1976**
 - "Dynamics of Systems with Large Number of Degrees of Freedom and Generalized Transformation Theory," 1969**
 - "The Dynamics of Nuclear Reactors," 1947**
- box 27, folder 6
- Ef - Ei**
- "The Efficiency of Counters and Counter Circuits," 1937**
 - "Effect of a Gravitational Field, Due to a Rotating Body, on the Plane of Polarization of an Electromagnetic Wave," 1957**
 - "The Effect of an Impurity on the Critical Point of a Binary Liquid System as a Surface Phenomenon," 1976**
 - "Effect of Bombardment of Titanium by Energetic Deuterium Ions," 1962**
 - "The Effect of Charge Symmetry on Nuclear Reactions," 1952**
 - "The Effect of Crystal Symmetry and Chemical Composition on the Energy Levels of Solids," 1933**
 - "The Effect of Density-Gradient Terms in the Free Energy on Density Fluctuations Near the Critical Point," 1974**
 - "The Effect of Hyperfine Structure Due to Nuclear Spin on Polarization of Resonance Radiation," 1930**
 - "The Effect of Hyperfine Structure on the Polarization of Cadmium Resonance Radiation," 1931**
 - "Effect of Hyperfine Structure upon the Magnetic Rotation of the Plane of Maximum Polarization of Resonance Radiation," 1940**
 - "Effect of Nuclear Motion of the Hyperfine Structure of the Ground Term of Hydrogen," 1947**
 - "Effect of Polarized Light on the Pharmacological Properties of Some Drugs," 1927**
 - "The Effect of Presenting Various Numbers of Discrete Steps on Scale Reading Accuracy," 1951**
 - "Effect of Resolution on Error Rate in the Identification of Molecules by Electron Microscopy," 1966**
 - "Effect of Retardation on the Interaction of Two Electrons," 1929**
 - "The Effect of Small Angle Scattering on the Electron Absorption Coefficient," 1950**
 - "Effect of Target Thickness in the Search for Hydrogen," 1951**
 - "The Effect of the Annihilation of Matter on the Wavelength of Light from the Nebulae," 1930**
-

"Effect of the Density-Gradient Term in the Free Energy Expression on Critical Exponents," 1975
"Effects of Turbulent Air-Flow in Some Apparatus Used in Atmospheric-Electric Measurements," 1933
"The Effective Neutron Collision Radius," 1933
"Effects of a Rotation of the Universe on the Number Counts of Radio Sources," 1975
"Effects of Heat Exchange on Relativistic Fluid Flow," 1970
"Efficient Coding," undated
"Ein einfaches Projektionsverfahren der Erscheinungen der chromatischen Polarisation des Lichtes in konvergenten Strahlen," undated
"Eine Bemerkung zur Theorie des Neutrons," 1934
"Eine Untersuchung über den Zerfall des neutralen Pi-Mesons in drei Gammaquanten," 1967
"Einige Bemerkungen über statische Messungen," 1936
"Einige grundsätzliche Bemerkungen zur Wellenmechanik," 1929
"Einstein and Some Civilized Discontents," 1965
"Einstein on the Firing Line," 1972
"Einstein: Theory of Relativity," undated
"Einstein's Theory of Knowledge," 1949
"Einstein's Unified Field Theory"

box 28, folder 1

Ela - Electrom

"Elastic Ether Theory of Elementary Particles," 1960
"Elastic Scattering of Electrons Positrons by Screened Nuclei," 1966
"The Elastic Scattering of Fast Electrons," 1939
"The Electric Fields in Vibrating Polar Crystals," 1940
"Electric Polarizability of the Neutron," 1959
"The Electric Quadrupole and Magnetic Dipole Moments of Lithium and Nitrogen," 1939
"The Electrical Conductivity of an Ionized Gas in a Magnetic Field," 1944
"Electricity as a Natural Property of Riemannian Geometry," 1932
"Electrodynamic Damping in Pulsating Stars," 1930
"Electrodynamic Interactions," 1966
"Electrodynamics and the Mutual Annihilation of Positive and Negative Electricity," 1932
"Electrodynamics in the General Relativity Theory," 1925
"Electromagnetic Fields Derived from Non-Commuting Potentials," 1931
"Electromagnetic Mass, Mach's Principle, and the Cosmological Coincidences," undated
"The Electromagnetic Properties of Dirac Particles," 1952
"Electromagnetic Waves in Empty Space or in a Uniform Medium," undated

box 28, folder 2-3

Electron

"The Electron as a Vector Wave," 1927
"Electron-Electron Collisions in the Primary Energy Range from 1.3 to 2.6 Million Electron Volts," 1942
"Electron G-2 Measurement," 1968
"The Electron-Muon Puzzle and the Electromagnetic Coupling Constant," undated
"The Electron-Neutron Interaction," 1952
"Electron-Optical Systems with Helical Axis," 1950
"Electron Physics Tables," 1956
"The Electron Rest Mass as a Universal Mass Constant for Nuclei and Elementary Particles," 1969
"The Electron Rest Mass, the Shell Model of the Nucleus and the Theory of Elementary Particles," 1968
"Electron Scattering and Nuclear Charge Distributions," 1958
"Electron Scattering by Atoms," 1955

box 28, folder 4

"Electron Scattering in Atomic and Molecular Hydrogen," 1929
"Electron Theory," 1957
"Electronic G Factor of Rubidium," 1964
"Electrons and Positrons in a Time-Independent Electromagnetic Field," 1952
Electroo - Em
"Electrooptical Shutter: Its Theory and Technique," 1931
"Electrophoresis and the Diffuse Ionic Layer," 1931
"Electrostatic Engineering," 1967
"Elektrische Dipolmomente von organischen Molekülen," 1928
"The Elementary Basic Principles of the Unified Theory of Relativity," 1953
"Elementary Derivation of the Equivalence of Mass and Energy," 1935
"Elementary Particle Structure," 1953
"Elementary Particles," 1960
"Elementary Particles in a Homogenous, Isotropic Universe," 1976
"Elementary Particle Physics," 1977
"Elementary Spinor Theory," 1952
"Embedding and Local Characterisation of the Schwarzschild and
Reissner-Nordstrom Singularity," undated
"Emission of Energetic Secondary Electrons Produced by 1.3 MeV Electron
Bombardment," 1954

box 29, folder 1

En
"The End Points of the Beta Ray Spectra of Radium E and Uranium X," 1937
"Energy and Momentum in General Relativity," 1964
"Energy Distribution Curves of the Disintegration Electrons," 1932
"Energy Distribution of Gamma Rays from Pi Decay," 1955
"Energy Distribution of K Mesons Produced in Nuclei," 1955
"The Energy Distribution of Beta Rays from Atoms of Known Age," 1932
"The Energy Distribution of Neutrons Slowed by Elastic Impacts," 1935
"Energy from Fossil Fuels," 1950
"Energy Levels of Neon," 1939
"The Energy of a Moving Electron," 1915
"The Energy of the Ground State of Methane," 1932
"Energy R&D Goals Study," 1972
"Energy Relations in the Beta-Ray Type of Radioactive Disintegration," 1933
"Energy Research for Physicists," 1976
"Energy Resources for Power Production," 1970
"The Energy Situation in the USA," 1975
"Energy Transfer from Hot Ions to Cold Electrons in a Plasma," 1961
"Enquiry into Population Trends," 1966
"Entity Structure," 1958
"Entropy and the Absolute Rate of Chemical Reactions," 1934
"Entropy, Information Theory, and the Approach to Equilibrium of Coupled
Harmonic Oscillator Systems," 1969
"Entropy Oscillation and the H Theorem for Finite Segments of Infinite
Coupled-Harmonic-Oscillator Chains," 1969
"Environmental and Economic Cost Considerations in Electric Power Supply,"
1973
"Environmental Impact Statements on Power Plants and Associated Facilities in
the United States of America," 1975
"Enzyme Defect Associated with a Sex-Linked Human Neurological Disorder and
Excessive Purine Synthesis," undated

box 29, folder 2

Eq - Ev
"Equations of Motion for an Ideal Plasma," 1952
"Equations of Motion in General Relativity," 1970
"The Equations of the Quantum Theory," 1930
"The Equilibrium of Transmutations in Stars in Which Transmutations Are an
Important Source of Energy," 1933

"The Equilibrium Theory of the Abundance of the Elements: A Statistical Investigation of Assemblies in Equilibrium in Which Transmutations Occur," 1933

"Equivalence of Locality and Parolocality in Free Parafield Theory," 1966

"Ergebnisse der Exakten Naturwissenschaften," 1927

"Establishment of Radio Standards of Frequency by the Use of a Harmonic Amplifier," 1926

"Estimation of Oil and Gas Resources," 1972

"Evidence Against the Existence of Heavy Beta-Particles," 1938

"Evidence Concerning Equality of N-N and P-P Forces," 1950

"Evidence for a Point Source of High Energy Cosmic Gamma Rays," undated

"Evidence for a Spinning Photon," 1931

"Evidence for a Virtual Electron-Positron Theory of Nuclei and Elementary Particles," 1976

"Evidence for an Explosion in the Center of the Galaxy M82," 1963

"Evidence for the Existence of Fractional Charge on Matter," 1977

"Evidence of Space Quantization of Atoms upon Impact," 1932

box 29, folder 3

Ex

"Examples of Momentum Distribution in the Electromagnetic Field and in Matter," 1969

"Excitation in Baryon Resonances," 1967

"Excitation of a Chain of Neurones," 1938

"The Excited Systems Formed by the Absorption of Light," 1928

"Exciton Dynamics in Light-Harvesting Chlorophyll Systems," 1978

"Excluded Volume Effects as the Basis for a Molecular Cybernetics," undated

"The Exclusion Principle and Its Philosophical Importance," 1944

"Exhaustion Methods of Selecting Signals from Noisy Backgrounds," undated

"The Existence of a Neutron," 1932

"Experiment on Relativistic Rigidity of a Rotating Disk," 1973

"Existence of Dirac Generating Functions," 1955

"Expanding Universe, Gravitational Constant and Electron Mass," 1976

"Experimental Establishment of the Relativity of Time," 1932

"Experimental Proof of the Spin of the Proton," 1931

"Experimental Proof of the Statistical Character of the Radioactive Decay Law," 1926

"Experimental Search for Anisotropy in the Speed of Light," 1975

"Experimental and Theoretical Study of the Sign Preference in the Nucleation of Water Vapor," 1970

"Experimentelle Bestimmung der Reichweite homogener Beta-Strahlen," 1926

"Experiments on the Gamma Radiation for Lithium and Fluorine Bombarded with Protons," 1937

"Experiments on the Magnetic Moment of the Neutron," 1937

"Experiments on the Magnetic Properties of the Neutron," 1937

"The Exponential Law of Radioactive Disintegration," 1933

box 29, folder 4

Fa - Fi

"Factors Influencing Rates of Reaction in Solution," 1936

"Factors Involved in the Satisfactory Operation of Wilson Cloud Chambers," 1936

"Fall of Parity," 1957

"Families of Chain Configurations on the Quadratic Lattice and on Narrow Lattice Channels," 1966

"Fast Modulation Effects in the Optical Region," 1948

"Feasibility of Power by Nuclear Fusion," 1968

"The Federal Government and Higher Education," 1966

"The Fib Theory and Its Influence on Astronomical Observation Methods," 1963

"Field Emission from Metals into Alkali Halide Crystals," 1956

"Fields Nonlocal in Clifford Space," 1973

"Fields, Particles, and Quantum Theory," 1959
"Fierz-Pauli Theory of Particles of Spin 3/2," 1954
"Final States of Gravitational Collapse," 1971
"Finding a Better Value for G," 1971
"Fine Structure in the Mercury Singlet Terms," 1931
"The Fine Structure of Mercury Lines and the Isotopes," 1923
"Fine Structure of Optically Excited Spectrum Lines of Mercury," 1925
"The Fine Structure of Space-Time," 1973
"The Fine Structure of the Nuclear Ground Level of Lithium," 1938
"First European Biophysics Congress," 1971

box 29, folder 5

FI

"The Fluctuation Dissipation Theorem," 1963
"Fluctuation Phenomena in the New Quantum Statistics," 1928
"Fluctuations in Proportional Counters," 1950
"Fluid Dynamics of Electron Gases," 1973
"The Fluorescence and Absorption of a Mixture of Mercury and Zinc Vapors," 1928
"Fluorescent Excitation of Mercury by the Resonance Frequency and by Lower Frequencies," 1932
"Flux Quantization and Fractional Charges of Quarks," 1975
"Flux Quantization and Particle Physics," undated

box 30, folder 1

Fo - Fr

"Forces and Inertial Systems Defined Relative to the Distribution of Matter in the Universe," undated
"Form of the One-Pion Exchange Potential," 1960
"The Formation of Electron-Positron Pairs by Internal Conversion of Gamma Radiation," 1935
"Forms of Gauge Fields and Nonintegrable Phase Factors," 1976
"Formulation of Wave Propagation in Infinite Media by Normal Coordinates with an Application to Diffraction," 1957
"Fossil Fuels and Their Environmental Impact," 1974
"Foundation of Physics," undated
"The Foundations of a Generalization of Gravitation Theory," 1956
"Four Lectures on Biophysics," 1947
"Fracture and Comminution of Brittle Solids," 1944
"Fragen aus der Physik der Atomkerne und des Elektrons," 1936
"Free Charges, Polarization and Polarization Charges, Especially Those Produced When an Insulator Moves in a Magnetic Field," 1939
"Free Motion in the Wave Mechanics," 1927
"Fresnel Drag and the Principle of Relativity," 1974
"Frequency Modulation," 1940
"From Quantized Flux to a Free Precession Nuclear Gyro," undated
"Frontiers of a Hierarchical Universe," 1972

box 30, folder 2-3

Fu

"Fuel Resources and Availability for Civilian Nuclear Power," 1980
"Fundamental Aspects of Linear Multiplexing," 1952
"Fundamental Condition of Glass Formation," 1947
"The Fundamental Constants and Their Time Variation," 1972
"The Fundamental Importance of a Few Integers for Nuclei and Elementary Particles," undated
"Fundamental Natural Concepts of Information Theory," 1951
"Fundamental Theory of Matter," 1969
"Further Development of the Method of Obtaining Strong Magnetic Fields," 1927
"Further Development of the Ultimate Relativistic Foundations for Elementary Particle Symmetries," undated
"Further Evidence Against Heavy Beta Particles," 1938

"Further Remarks on the Second Law of Thermodynamics in General Relativity," 1928
"Further Studies on Light Scattering in Liquids at High Temperatures," 1928
"Further Study of the Inertia of the Electric Carrier in Copper," 1926
"Fusion Chain Reactions," undated
"The Fusion Torch: Closing the Cycle from Use to Reuse," 1969
"The Future Demand for Electric Power and Various Fuels," 1973
"The Future of Nonmetropolitan America," 1973
"The Future of Theoretical Physics," 1938

box 30, folder 4

Ga - Gh

"Gamma Radiation," 1932
"The Gamma Rays of Radium and of Thorium," 1934
"Gammastrahlen an Kaliumsalsen," undated
"Gaseous Diffusion as a Random Process," 1966
"The General Motion of a Spinning Uniformly and Rigidly Electrified Sphere," 1937
"General Nondynamical Formalism for Reactions with Particles of Arbitrary Spin," 1967
"General Nondynamical Formalism for Reactions with Particles of Arbitrary Spin: Rotation Invariance," 1966
"General Relativity and Flat Space," 1940
"General Solution of Einstein's Equations with Spherical Symmetry," undated
"General Theorems on the Equivalence of Group Velocity and Energy Transport," 1959
"General Theory," 1968
"The General Theory of Fluctuations in Radioactive Disintegration," 1936
"The General Theory of Relativity," 1966
"Generalized Invariant Imbedding Relation," 1960
"Generalized Riemann Spaces," 1955
"Generators of Information," undated
"The Genetic Code," 1963
"Geometric Basis of Phase Change," 1961
"Geometrical Description of Meson-Baryon Interactions," 1975
"Geometrical Significance of the Einstein-Maxwell Equations," 1959
"Georg Cantor's Concept of Transfinite Numbers," undated
"Ghost Images in a Universe with Inhomogeneous Mass Distribution," 1970

box 30, folder 5

Gr - Gy

"Gravitation and Electrodynamics," 1952
"Gravitation and Electromagnetism," 1954
"Gravitation, Magnetic Charge, and the Stability of Elementary Particle," 1973
"Gravitational Bounce in General Relativity," 1969
"Gravitational-Electromagnetic Torus Models of the Elementary Particles," 1955
"The Gravitational Fields of Electric and Magnetic Dipoles," 1957
"Gravitational Radiation," 1962
"Gravitational Radiation Experiments," 1970
"Gravitational Waves and the Creation of Mass," undated
"Gravitational Waves in General Relativity," 1962
"Gravity and Inertia: A Model Concept," 1970
"Group Theoretical Discussion of Relativistic Wave Equations," 1947
"Group Theory and the Energy Band Structure of Semiconductors," 1962
"Group Theory in Particle Studies," 1968
"The Growth of Localized Disturbances in a Laminar Boundary Layer," 1962
"Gyromagnetic Ratio in the Hyperfine Structure of Doublet States," 1954
"Gyromagnetic Ratios for Ferromagnetic Substances: New Determinations and a New Discussion of Earlier Determinations," 1940

box 31, folder 1

Ha - Hi

"The Half-Life of Actinouranium," 1934

"The Half-Life of Actinouranium and the Problem of Geologic Time," 1933
"Harmonic Analysis and the Quantum Theory," 1961
"Helium and Hydrogen of Mass 3," 1939
"The Helix-Coil Transition in Charged Macromolecules," 1960
"Hierarchical Universes," 1956
"Hierarchies of Descriptive Levels in Physical Theory," 1962
"High-Energy Fusion: A Quest for a Simple, Small, and Environmentally Acceptable Colliding-Beam Fusion Power Source," 1978
"High-Frequency Dielectric Constant," 1961
"The High-Frequency Spectrum of Mercury and the Fine Structures," 1931
"High-Order Limit of Para-Bose and Para-Fermi Fields," 1965
"High Resolution Electron Microscopy," 1968
"History of Petroleum Geology and Its Bearing Upon Present and Future Exploration," 1966

box 31, folder 2

Ho - Hy

"Holography: Photography Without Lenses in Three Dimensions," 1966
"How Can Man Live with Fission?," 1973
"How to Understand Special Relativity," 1966
"The Hydrogen Atom with a Spinning Electron in Wave Mechanics," 1927
"The Hydrogen Balmer Series and the Impossibility of Further Corrections to the Quantizing of Hydrogenic Atoms," undated
"The Hydrogen Line Red Shift of Radio Source Cygnus A," 1955
"Hydrogen Spectrum Lines in the Stars and in the Laboratory," 1926
"Hydrothermal Synthesis of Single Crystals," undated
"Hyperfiltration (Reverse Osmosis)," 1966
"Hyperfiltration with Dynamically-Formed Membranes," 1967
"Hyper-Fine Structure and Polarization of Mercury in Resonance Radiation," 1928
"Hyperfine Structure as a Test of a Linear Wave Equation in the Two-Body Problem," 1931
"The Hyperfine Structure of Certain Mercury Lines Hitherto Not Analysed," 1930
"The Hyperfine Structure of the Ground Term of Hydrogen," 1949
"Hypervirial Theorems for the Dirac Equation," 1976

box 31, folder 3

Id - Ine

"The Identification and Measurement of Low-Energy Electrons by Cloud Chamber Techniques: The Oxygen and Neon Auger-Electron Problem," 1968
"If-Then Relations in Paralogics," 1944
"The Ignition Parameter T_n and the Energy Multiplication Factor k for Fusing Plasmas," 1977
"Ignorable Coordinates and Steady Motion in Classical Mechanics," 1965
"Imaging of Single Atoms with the Electron Microscope by Phase Contrast," 1966
"Impacts of Fast Electrons and Magnetic Neutrons," 1932
"The Implementation of Mach's Principle," 1970
"Impotence Principles in Modern Physics," 1948
"Improved Counting Rate Meter," 1939
"Improved Limit on the Absence of Dispersion of the Velocity of Light," 1969
"Is the Quantum-Mechanical Description of Physical Reality Complete?," 1935
"Indeterminateness of Electrical Charge," 1927
"Inelastic Nuclear Interactions of High-Energy Electrons and Muons in Emulsion," 1968
"Inelastic Scattering of Fast Neutrons," 1947
"Inelastic Scattering of Quanta with Production of Pairs," 1935
"Inertial Rotation in a Weak Gravitational Field," 1962

box 31, folder 4-5

Inf - Inn

"Infilling for NUT Space," 1970

"Infinite Multiplets," undated
"The Influence of Foreign Gases on the Optical Excitation of Mercury," 1925
"Influence of Pressure on the Melting of Rare Gas Solids," 1973
"The Influence of Space-Time Curvature on the Electromagnetic Field of a Charged Particle," 1967
"Information and Thermodynamics," 1952
"The Information Bearing Elements of Speech," 1946
"Information, Measurement, and Quantum Mechanics," 1951
"Information Obtainable on Polarization and Asymmetry in Muonium Experiments," 1957
"Information Theory and the Approach to Equilibrium," 1969
"Initial Value Problem and Positive Definite Mass in General Relativity," 1967
"The Inner Field of an Electron," 1968

box 32, folder 1-3

Ins - Int

"Inspectional Analysis: A Method Which Supplements Dimensional Analysis," 1935
"Instantaneous and Asymptotic Conservation Laws for Classical Relativistic Mechanics of Interacting Point Particles," 1966
"The Intensities of Absorption Lines in Stellar Spectra and the Temperatures and Pressures in the Reversing Layers of Stars," 1923
"Interaction of Cosmic-Ray Muons in a Thick Pb Absorber," 1963
"The Interatomic Potential Curve and the Equation of State for Argon," 1941
"Interchange of Translation, Rotational, and Vibrational Energy in Molecular Collisions," 1931
"Interface Waves for a Flow-Excited Cavity in the Vicinity of Resonance," 1974
"Interfacial Tension near the Critical Point and the Density-Gradient Term in the Free Energy," undated
"Interference Phenomena in the Scattering of Slow Neutrons" 1940
"Interference Phenomena of Slow Neutrons," 1947
"Intermolecular Forces and Biological Specificity," 1963
"The Internal Conversion of the Gamma Rays and Nuclear Level Systems of the Thorium B and C Bodies," 1933
"The 'Internal Information' of English Words," undated
"Internal Structure of Spinning Particles," 1953
"Interpretation of Hyperfine Structure in Spectral Terms," 1929
"Interpretation of Quantum Mechanics and the Future of Physics," 1967
"The Interpretation of the Schwarzschild Metric and the Release of Gravitational Energy," 1964
"Interpretations and Misinterpretations of Modern Physics," 1938
"Interstellar Transport," 1968
"Intrinsic Fields of the Proton and the Neutron," 1977
"Introduction to 7-Year Technical Forecast," 1970

box 28, folder 2

Inv - J

"Invariance Principles of Nuclear Physics," 1958
"Invariant Theoretical Interpretation of Interaction," 1956
"Invariant Variational Principles," 1977
"Invariants of General Relativity and the Classification of Spaces," 1959
"The Inverse Square Law of Gravitation," 1936
"The Investigation of a Set of Weakened Field Equations for General Relativity," 1963
"Investigation of Compton Scattering of Visible Light by Free Electrons," 1955
"Invisibility of the Lorentz Contraction," 1959
"Ion Exchange in an Electric Potential Gradient," undated
"Ionization and Excitation Losses of Charged Particles of Intermediate Energies," 1953
"Ionization Measurements of the Radiations from Radioactive Substances," 1940

box 32, folder 4-5

"The Ionization of Atoms by Electron Impact," 1926
"Ionization Power of a Neutrino with Magnetic Moment," 1935
"Ionized Gases in Magnetic Fields," 1952
"Irreversibility and Generalized Noise," 1951
"Is Physical Space Unique or Optional?," 1975
"Is the Isotropy of the Speed of Light a Convention?," 1978
"Is the Universe Finite?," 1925
"Is the Universe Planned?," 1953
"Is There a Substitute for God?," 1970
"Is There an Upper Limit of 10^{28} eV for Cosmic Rays?," 1968
"Isotopic and Cosmic Chemistry," 1963
"The Isotope of Hydrogen," undated
"Isotope Shift in the X-Ray Spectra of Heavy Elements," 1955
"The Interaction Between Electromagnetic and Gravitational Waves," 1968
"Jets of Radiation," 1968
"The Johns Hopkins University Studies in Education," 1922

box 32, folder 6

K

"Kinematic Criterion for Meson Production in Fundamental Particle Collisions," 1954
"Kinematic Forces and Inertial Systems Defined Relative to the Distribution of Matter in the Universe," undated
"Kinematical Relativity," 1939
"Kinematics and World-Structure," 1935
"Kinematics, Dynamics, and the Scale of Time," 1937
"Kinematics of a Rigid Rotor," 1973
"Kinetic Energy of Nuclei in the Hartree Model," 1937
"Kinetics of Helium Using Resonance Ionization Spectroscopy," 1975

box 31, folder 1-2

La - Le

"La Thermodynamique Cachée des Particules," 1964
"La Thermodynamique Relativiste et la Thermodynamique Cachée des Particules," 1968
"Lagrangians Linear in the 'Velocities,'" 1955
"Lamb Shift in Hydrogen Like Atoms," 1969
"Large Angle Scattering and Energy Loss of Potassium Ions Scattered by Heavy Monatomic Gases," 1937
"Lattice Vibrations in Polar Crystals," 1938
"Law of Conservation of Muons," 1961
"The Law of Gravitation," 1936
"The Laws of Expanding Circles and Spheres in Relation to the Lateral Growth of Surface Films and the Grain Size of Metals," 1945
"Leptons, Mesons, and Baryons," 1969

box 33, folder 3

Li - Lu

"Life, Thermodynamics, and Cybernetics," 1949
"Light as a Fundamental Particle," 1975
"The Light-Cone at Infinity," 1962
"Light Pulse Propagation in Nonlinear Dispersive Medium," 1970
"Light Quanta and Interference," 1927
"Light Quanta and Wave Mechanics," 1928
"Limits on Cosmological Changes in Atomic and Nuclear Constants," 1976
"Limits on the Variation of Fundamental Atomic Quantities over Cosmic Time Scales," 1976
"Linear Differential Equations," 1938
"The Liquid Drop Model and Nuclear Moments," 1939
"The Logarithmic Derivative of the Function," 1954
"The Logic of Noncommutability of Quantum Mechanical Operators and Its Empirical Consequences," 1971
"The Logic of Scientific Discovery," 1959

-
- "The Logic of the Sciences and the Humanities,"** undated
"Logical and Philosophical Foundations of the Special Theory of Relativity,"
1955
"Lorentz and Clausius Processes," undated
"Lorentz Transformation and the Thomas Precession," 1962
"Los Alamos Scientific Laboratory," 1952
"Loschmidt's and Zermeld's Paradoxes Do Not Exist," 1972
"The Lost Dimension or the True Principle of Relativity," 1946
"Low Energy Yield and the Angular Distribution of the Emitted Protons," 1947
"The Lunar Electrosphere and Erosion on the Moon," undated
"The Lunar Electrosphere and Implications for Erosion on the Moon," 1973
- box 33, folder 4-5
- Mac - Mag**
"Mach's Critique of Newtonian Mechanics," 1966
"Mach's Principle and a Relativistic Theory of Gravitation," 1961
"Mach's Principle and Elementary Particles," 1967
"Mach's Principle and Invariance under the Transformation of Units," 1962
"Mach's Principle in Nonsymmetric Field Theories," 1976
"Magnetic Alloys of Iron, Nickel, and Cobalt," 1929
"The Magnetic Effect of Electric Displacement," 1902
"The Magnetic Field Inside a Ferromagnet," 1945
"The Magnetic Moment of the Electron," 1928
"Magnetic Moments of Odd Nuclei," 1940
"The Magnetic Moments of the Proton and the Deuteron," 1939
"The Magnetic Monopole," 1962
"Magnetic Resonance in Biology," 1970
"The Magnetic Scattering of Neutrons," 1938
"The Magnetic Spectra of the Beta Rays of Radium De and of Radium and Its Products, Determined by the Statistical Method," 1916
"The Magnetic Susceptibility of Molecular Hydrogen," 1935
- box 34, folder 1
- Mai - Mas**
"Many-Body Interactions in Atomic and Nuclear Systems," 1938
"Mapping the Logic of Models in Science and Theology," 1963
"Mass and Energy," 1932
"The Mass-Energy Relation," 1948
"Mass-Energy Relation in Quantum Theory," 1958
"Massive Spheres in General Relativity," 1964
- box 34, folder 2-3
- Mat**
"Materials by Metron," undated
"Mathematical Analysis of Random Noise," undated
"Mathematical Biophysics and Psychology," undated
"The Mathematical Theory of a New Relativity," 1934
"Mathematical Biophysics of Abstraction and Logical Thinking," 1945
"Mathematical Biophysics of Conditioning," 1937
"Mathematical Biophysics of Delayed Reflexes in Connection with the Theory of Error Elimination," 1936
"Mathematical Foundations of the Theory of Shocks in Gases," 1969
"Mathematical Theory of Elementary Particles," 1966
"Mathematical Theory of Noise," 1949
"Mathematical Theory of the Transmission of Excitation from One Tissue to Another," 1937
"Mathematics," 1949
"The Mathematics of Turbid Media," 1933
"Mathematics, the Scaffolding of Science," 1939
"Matter Through the Eye of the Association Theory Camera," 1972
- box 34, folder 4
- Max**
"Maximal Extension of Schwarzschild Metric," 1960
"Maximal Unitary Group for the Quark Model," 1964
-

"The Maximum Energy of the Beta Rays from Uranium X and Other Bodies," 1933

"Maxwell Equations and Metric, Mottler, Wien, Sitz," 1956

"Maxwell: Out of Newton, Coulomb, and Einstein," 1966

"Maxwell's Law of Distribution of Velocities and the Principle of Projective Covariance," 1922

box 34, folder 5-6

Me

"Meaning and Scientific Status of Causality," 1976

"The Meaning of Relativity," 1953

"The Meaning of Simplicity in Physics," 1937

"Measuring the Intensity of Molecular Beams," 1951

"Measurement of Correlation Functions of Modulated Carriers and Noise Following a Non-Linear Device," undated

"Measurement of K-Mesonic X-Ray Spectra of Medium and Heavy Elements," 1969

"Measurement of Neutron Cross Sections with a Crystal Spectrometer," 1947

"Measurement of the Cross-Section for the Reaction," undated

"Measurement of the Longitudinal Shift of Radiation at Total Internal Reflection by Microwave Technique," undated

"Measurement of the Magnetic Moment of the Hyperon," 1962

"The Measurement of Ultra-Short Time Intervals," 1947

"The Mechanism of Division of Small Liquid Systems Which Are the Seats of Physico-Chemical Reactions," 1934

"The Mechanisms of Some Elementary Surface Reactions," 1949

"Meson Mass Formula, the Quark Antiquark Interaction, and Its Dynamical Group," 1965

"Meson Resonances," 1967

"Meson Spectrum, Mass Formula, and the Quark-Antiquark Interaction," 1966

"Meson Theory of Nuclear Forces," 1939

"Mesonium and Antimesonium," undated

"Metaphysics of the Physical World," 1935

"Metastability of 2s States of Hydrogenic Atoms," 1959

"Metastability of Hydrogen and Helium Levels," 1940

"Method for Seeking Particles Which Ionize More Lightly than the Electron," 1956

"Methods for the Study of Radioactive and Cosmic Rays," circa 1930

box 35, folder 1-3

Mi - Mu

"The Microcoulomb Experiment" 1941

"Microscopy by Reconstructed Wave-Fronts," 1949

"Microstabilities," 1965

"Microwave Propagation Well Beyond the Horizon from Marconi to the Present," 1957

"Migmacell: A Low Gain 'Driven' Fusion Power Amplified as an Interim Energy Source," 1977

"The Mineral Resources of Texas," 1958

"Mirror Relations as Nondynamical Tests of Conservation Laws," 1968

"Miscellaneous Probability and Statistical Tables and Graphs," 1945

"Mixtures and Characteristic Functions," 1970

"Mnemonic Device for Relativistic Particle Kinematics," 1957

"Modality and Probability," 1937

"Model Experiments and the Forms of Empirical Equations," undated

"Model for the Derivation of Kinetic Theory," 1969

"Models of the Physical Universe," 1932

"Models of Space-Time," 1965

"Modern Crusades," 1964

"Modern Logic and the Task of the Natural Sciences," 1940

"Modified Ritz Method," 1934

"Modular Invariants Associated with Resistance Networks," 1952
"The Molecular Scattering of Light," undated
"The Molecular Scattering of Light in Liquid Mixtures," 1923
"Molecular Transport in Liquids and Glasses," 1959
"Molecular Viewpoints in Nuclear Structure," 1937
"Molten Salt Reactor Chemistry," 1969
"Momentum and Energy of Photon and Electron in the Cerenkov Radiation," 1944
"Momentum Distribution in Hydrogen-Like Atoms," 1929
"Monopoles and Other Undiscovered Things," 1974
"More Complete Discussion of the Time-Dependence of the Nonstatic Line Element for the Universe," 1930
"The Mossbauer Effect: A Versatile Tool for the Solid State Physicist," 1962
"The Motion and Structure of Singularities in General Relativity," 1969
"The Motion of an Electrical Doublet," 1918
"The Motion of Free Electrons in Black Body Radiation and the Interaction between Radiation and Matter," 1925
"Motion of Magnetic Lines of Force," 1958
"The Motion of Wavelets: An Interpretation of the Schrodinger Equation," 1972
"Multiple Electron Transitions and Primed Spectral Terms," 1925
"Multiple Scattering in the Compton Effect," 1930
"The Multiple Scattering of Waves," 1945
"Multivibrator Geiger Counter Circuit," 1938
"Muonium," 1966
"Multipole Particles in Equilibrium in General Relativity," 1968

box 35, folder 4

Na

"National Academy of Sciences Report on Energy Resources," 1965
"National Gas Survey," 1975
"Natural Law and Theodicy," 1952
"Natural Line Width for Transient Excitations," 1959
"Natural Units for Atomic Problems," 1931
"The Nature of Consciousness," 1970

box 35, folder 5-6

Ne

"Negative Resistance Interactions in Unipolar and Bipolar Semiconductor Junction Devices," 1973
"Neutrino Viscosity and the Isotropy of Primordial Blackbody Radiation," 1967
"Neutrinos and Weak Interactions," 1961
"Neutrino Theory of Photons," 1964
"The Neutron," 1931
"Neutron Capture and Nuclear Constitution," undated
"Neutron Cross Section Evaluation Group," 1966
"Neutron Decay: The Problem and the Experiments," 1951
"Neutron Polarization," 1947
"Neutron Scattering Cross Sections of Para and Orthohydrogen and of Nitrogen, Oxygen, and Water," 1938
"Neutron Spectrometry," 1967
"Neutron Studies of Order in Iron-Nickel Alloys," 1940
"New Approach to General Relativity," 1958
"New Approach to Relativity and Gravitation," 1973
"New Approaches to Statistical Dynamics of Gravitational Systems," 1973
"New Autoionizing Atomic Energy Levels in Helium and Neon," undated
"New Deductions of the Electromagnetic Equations," 1926
"New Developments in High Magnetic Field Research," 1962
"New Equation for the Influence of Pressure on Melting," 1973
"New Experimental Evidence for the Existence of a Neutrino," 1938
"New Four-Dimensional Symmetry," 1974
"New Measurement of the Magnetic Moment," 1965

"New Phenomena in X-Ray Scattering," 1930
"New Theory Sees Aging as Gene Directed Process," 1966
"New Type of Accelerator for Heavy Ions," 1966
"The New Vision of Science," 1929
"Newly Observed Structure in the Photoionization Continua of Krypton and Xenon Below 160 Å," undated
"Newtonian Cosmology," 1955

box 36, folder 1-2

No

"Non-Cantorian Set Theory," 1967
"Nondynamical Formalism and Tests of Time-Reversal Invariance," 1966
"Non-Dynamical Methods to Determine Parities and to Test Invariance Principles," 1965
"Non-Dynamical Structure of Photoproduction Processes," 1967
"Nondynamical Tests of the CPT Theorem and Related Symmetries," 1968
"Nonexistence of Parity Experiments in Multiparticle Reactions," 1965
"Non-Hamiltonian Dynamical Systems," 1957
"Nonlocality in Quantum Electrodynamics," 1967
"Nonstatic Model of Universe with Reversible Annihilation of Matter," 1931
"Normal States of Nuclear Three- and Four-Body Systems," 1937
"Note Concerning the Beta Particles of Very Small Energy," undated
"Note Concerning the Emission of Beta-Rays in Radioactive Change," 1929
"Note on a Relation in Dirac's Theory of the Electron," 1949
"Note on Active Nitrogen," 1928
"Note on Boson Resonances," 1964
"Note on Electron-Neutron Interaction," 1936
"Note on Heisenberg's Indetermination Principle," 1928
"Note on Integrability Conditions of Implicit Differential Equations," 1938
"Note on K-Electron Capture in Beryllium," 1938
"Note on Light Quanta and the Electromagnetic Field," 1931
"Note on Models of Multiple Meson Production at Extremely High Energy," 1957
"Note on the Analysis of the Gamma Rays of Radium," 1938
"Note on the Chain Photolysis of Acetaldehyde in Intermittent Light," 1940
"Note on the Interpretation of Operators in Dirac's Wave-Equation," 1931
"Note on the Lorentzian Electron," 1922
"Note on the Principle of Detailed Balancing," 1928
"Note on the Probability Associated with the Error of a Single Observation," 1928
"Note on the Production of Pairs by Charged Particles," 1935
"Note on the Robinson-Trautman Solutions," 1966
"Note on the Sturm-Liouville Eigenvalue-Eigenfunction Problem with Singular End-Points," 1933
"Note on the Theory of the Interaction of Field and Matter," 1930
"Notes on Charge-Neutral Self-Consistent Plasmas and Fields," 1970
"Notes on the Evolution of Comets," 1940
"The Notion of Self-Organization and the Notion of Level," 1960
"The Notions of State, Picture, Identity, and Relativistic Invariance," 1963

box 36, folder 3-4

Nu

"Nuclear Constituents and Structure," undated
"Nuclear Data in Science and Technology," 1973
"Nuclear Energy and the Fossil Fuels," 1956
"Nuclear Energy Centers Industrial and Agro-Industrial Complexes Summary Report," 1968
"Nuclear Energy: Developments in Use of By-Product Material," undated
"Nuclear Energy Levels and the Model of a Potential Hole," 1934
"Nuclear Fission and Atomic Energy," 1946
"Nuclear Forces and Polarization Phenomena," 1960
"Nuclear Magnetic Moments," 1933

"Nuclear Magnetic Moments from the Polarization of Resonance Radiation," 1934
"Nuclear Moments and Their Dependence upon Atomic Number and Mass Number," 1933
"Nuclear Moments of Inertia Due to Nucleon Motion in a Rotating Well," 1956
"Nuclear Motions Associated with Electron Transitions in Diatomic Molecules," 1928
"Nuclear Shells: Angular and Magnetic Momenta of Nuclei," 1935
"Nuclear Sizes and Density Distributions," undated
"Nuclear Spins and Magnetic Moments in the Hartree Model," 1936
"Nucleon Form Factors Above 6 GeV," 1967
"Nucleon Transfer Reactions," 1963
"The Number of Gamma Rays Emitted per Second from Radium B and C in Equilibrium with a Gram of Radium and the Number Emitted per Atom Disintegrating," 1924

box 36, folder 5

Oa - Of

"The Oak Ridge Program for High-Resolution Microscopy," 1969
"Observation of Stimulated Radiative Emission from Normal to Superconducting Metal Junctions," 1969
"Observations of the Visual Spectrum of the Gaseous Nebulae," 1976
"Of Inference and Inquiry," 1977

box 36, folder 6,
box 37, folder 1

On a - On S

"On a Generalization of Kaluza's Theory of Electricity," 1938
"On a Relation Between Coarse Graining and Diagonal Singularity," undated
"On a Symmetry in Weak Interactions," 1959
"On a Theory of Failure Applied to the Calculation of the Number of People in the State of New York That Ever Had a 1st Admission as Schizophrenic," 1975
"On Circavariant Matrices and Circa-Equivalent Networks," 1940
"On Covariant Formulations of the Maxwell-Lorentz Theory of Electromagnetism," 1962
"On Determination of Spin, Decay Parameters, and Density Matrix of Decaying States," 1967
"On Einstein's Unified Field Theory," 1951
"On Electric Charges of Disperse Systems Which Are the Seats of Physico-Chemical Reactions," 1935
"On Electrical Rectification by the Earth's Lower Atmosphere," 1933
"On Ferromagnetism and Related Problems of the Theory of Electrons," 1932
"On Gravitational Theories of Whitehead's Type," 1956
"On Gravitational Waves," 1937
"On Humanistic Aspects of Entropy," undated
"On Information and Sufficiency," 1951
"On Kramers' Formula for the Frequency Distribution of the Radiation Emitted by an Electron in a Parabolic Orbit," 1949
"On Metastable States of Equilibrium in Thermodynamics," 1947
"On Milne's Theory of World-Structure," 1936
"On Newtonian Frames of Reference," 1955
"On Norms of Vectors and Matrices," 1957
"On Physico-Chemical States of Equilibrium," 1938
"On Positive-Definiteness of Inertial Mass, Non-positive Definiteness of Electromagnetic Coupling and the Mach Principle from General Relativity," 1967
"On Relativistic Thermodynamics," 1958
"On Some Close Collisions of Fast B-Particles with Electrons, Photographed by the Expansion Method," 1932
"On Some of the New Ultra-Ionization Potentials of Mercury Vapor," 1931
"On Spinors in Dimensions," 1962

box 37, folder 2-3

"On Systems of Partial Differential Equations," 1948
On the A - On the D
"On the Absence of Polarization in Electron Scattering," 1939
"On the Activation Energy of Unimolecular Reactions," 1934
"On the Adiabatic Compression of a Light Packet," 1971
"On the Annihilation of Electrons and Positrons," 1934
"On the Annihilation of Electrons and Protons," 1930
"On the Annihilation Radiation of Positrons," 1935
"On the Anomalous Rotation of the Sun," 1930
"On the Astronomical Implications of the Desitter Line Element for the Universe," 1929
"On the Classical Approximation in the Quantum Statistics of Equivalent Particles," 1969
"On the Composition of the Sun's Atmosphere," 1929
"On the Consequences of Non-linearity in a Unified Theory of Fundamental Interactions," undated
"On the Consequences of the Symmetry of the Nuclear Hamiltonian on the Spectroscopy of Nuclei," 1936
"On the Continuos Spectrum of the Hydrogen Atom," 1929
"On the Contraction of Groups and Their Representations," 1953
"On the Convection of Light (Fizeau Effect) in Moving Gases," 1922
"On the Cosine Law of Radiation," undated
"On the Creation of Mass in an Expanding Universe," 1968
"On the Creation of Positive and Negative Electrons by Heavy Charged Particles," 1935
"On the Definition of Rate of Information in the Presence of Noise," undated
"On the Development of the Compound Nucleus Model," 1955
"On the Distribution in Time of the Scintillations Produced by the Alpha Particles from a Weak Source," 1930

box 37, folder 4

On the E - On the M
"On the Effect of Perturbing Electric Fields on the Zeeman Effect of the Hydrogen Spectrum," 1924
"On the Electrokinetic Energies of Convection Currents," 1967
"On the Electromagnetic Momentum of Convection Currents," 1967
"On the Energy and Entropy of Einstein's Closed Universe," 1928
"On the Energy-Momentum Tensor and the Creation of Matter in Relativistic Cosmology," 1954
"On the Equations of Electromagnetism," 1938
"On the Equilibrium Between Radiation and Matter in Einstein's Closed Universe," 1928
"On the Estimation of Distances in a Curved Universe with a Non-Static Line Element," 1930
"On the Evolution of a Rotationally Unstable Star," 1932
"On the Evolutionary Origin of the Solar System," 1932
"On the Extension of Thermodynamics to General Relativity," 1928
"On the Fermi Theory of Beta-Radioactivity," 1935
"On the Finiteness of Non-Derivative Nonpolynomial Lagrangians," 1972
"On the Forces Between Positive Ions and Neutral Molecules," 1941
"On the Foundations of Dynamics," 1936
"On the Foundations of Electrical Network Theory," 1944
"On the Generalized Goldberg-Sachs Theorem," 1969
"On the Generally Covariant Dirac Equation," 1975
"On the Gravitational Effects of Distant Rotating Masses," 1955
"On the Half-Lives of Potassium, Rubidium, Neodymium, and Samarium," 1935
"On the Hydrodynamical Theory of the Viscosity of Suspensions," 1938
"On the Influence of the Expansions of Space on the Gravitational Field Surrounding an Isolated Body," 1954

"On the Interaction of Two-Colloidal Particles Using the Complete Debye-Huckel Equation," 1939
"On the Interpretation of the Field Theoretical Potential in Terms of Phase Shifts," 1961
"On the Inversion of Alkali Doublets," 1939
"On the Kinematics of Particle Interactions," 1969
"On the Law of Conservaton of Heavy Particles," 1958
"On the Magnetic Effect of Electrical Convection," 1901
"On the Magnetic Effects of Turbulence in Ionized Gases," 1951
"On the Magnetic Moment of the Electron," 1928
"On the Mathematical Description of Light Nuclei by the Method of Resonating Group Structure," 1937
"On the Matrix Element in Fermi's Theory of Beta Decay," 1937
"On the Mean Distance Between Neighbouring Molecules in a Fluid," 1924
"On the Mean Value of Y for Keplerian Systems," 1937
"On the Mechanism of Sound Production in Organ Pipes," 1973
"On the Momentum Imparted to Electrons by Radiation," 1925
"On the Motion of a Sphere in a Perfect Fluid, with Application to Liquid Helium," 1969

box 37, folder 5,
box 38, folder 1

On the N - On the R

"On the Nature and the Limitations of Cosmical Inquiries," 1933
"On the Nature of Quantum Geometry," undated
"On the Nature of Thought and Its Limitation," 1930
"On the Observation of Magnetic Poles," 1958
"On the Origin and Maintenance of the Sun's Electric Field," 1934
"On the Origin of the Solar System," 1932
"On the Perihelion Motion According to Littlewood's Equations," 1954
"On the Possible Line Elements for the Universe," 1939
"On the Problem of Matching Lists by Samples," 1959
"On the Problem of the Entropy of the Universe as a Whole," 1931
"On the Production of Electron Pairs," 1936
"On the Quantization of Einstein's Gravitational Field Equations," 1950
"On the Quantum Mechanics of Chemical Reactions: Predisassociation and Unimolecular Decompositions," 1929
"On the Quantum Theory Explanation of the Anomalies in the 6th and 7th Periods of the Periodic Table," 1926
"On the Radial Limitation of the Sun's Magnetic Field," undated
"On the Radiation Field of Pulse Solutions of the Wave Equation," 1962
"On the Radiative Collision Between Fast Charged Particles," 1935
"On the Radioactive Decay of the Neutron," 1948
"On the Recombination of Iodine and Bromine Atoms," 1941
"On the Relation of Mathematics and Physics," 1944
"On the Relations of Stellar Electricity and Magnetism to the Phenomena of the Sun's Atmosphere," 1982
"On the Representation of the Lorentz Deformation," 1964
"On the Role of Eddies in Fluid Motion," 1963
"On the Role of Hydroxyl in the Diffusion of Hydrogen in Fused Silica," undated

box 38, folder 2

On the S - On the Z

"On the Scattering of Plane Waves by Soft Obstacles," 1951
"On the Shell Model for Nuclei," 1952
"On the Sociology of Science," 1963
"On the Stability of Spheres of Simple Mechanical Fluid Held Together by Newtonian Gravitation," 1939
"On the Statistical Theory of Errors," 1934
"On the Theory of Angular Correlation Phenomena," 1951
"On the Theory of Electrical Fluctuations," 1948

"On the Theory of Electron Scattering in Gases," 1929
"On the Theory of Noise in Conductors, Semiconductors, and Crystal Rectifiers," 1943
"On the Theory of Smekal-Raman Effect in Hydrogen-Like Atoms," 1929
"On the Theory of the Electron and Positive," 1934
"On the Theory of the Geometric Object," 1936
"On the Use of the Notion 'Probability' in Physics," 1957
"On the Use of the Energy Momentum Principle in General Relativity," 1930
"On the Use of the Entropy Principle in General Relativity," 1930
"On the Weight of Heat and Thermal Equilibrium in General Relativity," 1930
"On the Zero-Point Energy of an Activated Complex and the Reaction," 1936
"On the Zitterbewegung of the Dirac Electrons," 1952
"On Thermodynamic Equilibrium in a Static Einstein Universe," 1931
"On Unitary Representations of the Inhomogeneous Lorentz Group," 1937

box 38, folder 3

One - Ou

"One-Atom Detection Using Resonance Ionization Spectroscopy," 1977
"One-Dimensional Dislocations," 1949
"The Onion versus the Bootstrap," 1972
"Operational Aspects of Hidden Variable Quantum Theories," 1962
"Operational Experience with Sulfur Dioxide Scrubbing in the United States Power Industry," 1973
"Operator Algebras and Axioms of Measurements," 1971
"Operators and Observables in Isotopic Spin Space," 1954
"Optically Observed Inner Shell Electron Excitation in Neutral Krypton and Xenon," 1964
"Optics of Atmospheric Haze," 1941
"Optimal Experiments with Electrons," 1928
"Orbits in a Magnetic Universe," 1965
"The Origin and Abundance Distribution of the Elements," 1953
"The Origin and Development of the Earth and Other Terrestrial Planets: A Correction," 1952
"Origin of Life," 1959
"Origin of the Cosmological Coincidences," 1975
"The Origin of the Earth's Electric and Magnetic Phenomena," 1926
"Origin of the Violation of Gauge Invariance in Quantum Electrodynamics," undated
"Origins of Cosmic Rays," 1971
"The Orthogonal Group in Hilbert Space," 1952
"Oscillations in Ionized Gases," 1929
"Oscillations of an Electron Plasma," 1946
"Oscillations of a Turbulent Flow," 1964
"Outgassing of Gases," 1955
"Outline of a Mathematical Biophysics of Cellular Forms and Movements," 1938
"Outlook for Environmental Studies by the Organization for Economic Cooperation and Development in the Light of the Energy Squeeze," 1974

box 38, folder 4

Pa - Pe

"Paradox Concerning the Kinematics of Nonlocal Interactions," 1973
"Paramagnetism Independent of the Temperature and the Existence of Electronic Isomers in Polyatomic Ions," 1930
"Parametric Performance and Cost Analysis of the Proposed Sohio Solar Process Heat Facility," 1975
"Parity Nonconservation and the Group-Space of the Proper Lorentz Group," undated
"The Partial Structure of Glass and the Reconstructive Nature of Devitrification Processes," 1962
"Particle and Field Concepts in Biology," 1947
"Particle Storage Rings," 1966

"Particle Velocities Faster than the Speed of Light," 1971
"The Pattern of a New Science," undated
"Patterns and Algorithms," 1970
"Peaceful Uses of Atomic Energy," 1956
"The Penetration of High Energy Electrons in Aluminum," 1949
"Perspectives in Geometry and Relativity," undated
"Perspectives in Modern Physics," 1966
"Perturbation Methods for Dirac Radial Equations," 1949
"Perturbation Theory in Quantum Mechanics," 1929
"Perturbed Cosmological Models," 1955

box 39, folder 1-2

Ph

"Phase Equilibria in the Systems," 1958
"Phase Microscopy," 1946
"Phenomena in a Cloud Chamber Operated Without a Sweep Field," 1940
"Phenomenology and Physics," 1944
"Philosophical Analysis of the Special Theory of Relativity," 1962
"The Philosophical Concepts in Modern Physics," 1938
"Philosophical Implications of the New Cosmology," 1963
"The Philosophical Problem of the Existence of the Physical World," 1934
"Philosophical Problems of Forecasting and Organizing Union of Soviet Socialist Republics Science," 1969
"The Philosophical Significance of the Concept of Probability in Quantum Mechanics," 1936
"Photoelectric Determinations of Redshifts Beyond 0.2 c," undated
"The Photoelectric Effect of the Deuteron," 1936
"The Photoelectric Effect Without Photons," undated
"The Photographic Effects of Gamma Rays," 1931
"The Photographic Measurement of the Absorption Coefficients of Gamma Rays from Radium (B+C)," 1932
"The Photon and Symmetry of Three Triplets," 1966
"Photon Splitting in a Nuclear Electric Field," 1965
"Photon Theory and Compton Effect," 1936
"Physical Axiomatics," 1967
"Physical Conditions in the Initial Stages of the Expanding Universe," 1953
"Physical Demonology," 1959
"The Physical Description of Elementary Particles," 1957
"Physicochemical Aspects of Hydrogen Bonds and Their Application to Biology," 1963
"Physico-Mathematical Aspects of the Gestalt Problem," 1934
"Physics and Philosophy," 1930
"Physics and Reality," 1936
"Physics and the Method of Coincidences," 1932
"Physics Looks at Solar Energy," 1972
"The Physics of Semiconductor Radiation Detectors," 1961
"Physics, Probability, and Multi-Valued Logic," 1940

box 39, folder 3-4

Pi - Po

"Pictorial Representations of the Dirac Electron Cloud for Hydrogen-Like Atoms," 1931
"Pitch Characteristics of Short Tones," 1947
"The Place of Elementary Particle Research in the Development of Modern Physics," 1963
"The Place of Rigor in Mathematics," 1934
"Plane Polarized Waves in the General Theory of Relativity," 1937
"Plane Waves in an Ionized Gas with Static Electric and Magnetic Fields Present," 1948
"Planetary Motion in a Retarded Newtonian Potential Field," 1929
"Plasma Physics," 1966

"Polar and Tropical Aurorae," 1957
"Polarization Dependence of the Integrated Bremsstrahlung Cross Section," 1953
"Polarization Effects in the Ionization Loss of I-MeV Electrons in Carbon," 1948
"Polarization of Bremsstrahlung Radiation," 1953
"Polarization of Hard X-Rays," 1936
"Polyelectrons," 1946
"Polymer Chemistry of the Linear Siloxanes," 1952
"The Population Bomb," undated
"Positron Beams," 1969
"Positronium," 1945
"Possibilities in Relativistic Thermodynamics for Irreversible Processes without Exhaustion of Free Energy," 1932
"Possibilities of Heavy Ion Bombardment in Nuclear Studies," 1952
"Possibility of Faster-Than-Light Particles," 1967
"The Possibility of Hitherto-Undiscovered Stable Particles," 1953
"The Possibility of the Emission of Positive Electrons from the Nucleus by Gamma Rays," 1933
"Possible Anti-Matter Content of the Tunguska Meteor of 1908," 1965
"Possible Neutron Radiation Effects in Certain Large Scale Projects," undated
"Possible Stellar Origin of High Speed Ions," 1933
"Postulational Methods," 1934
"The Potential Concept in Nucleon-Nucleon Interactions and Limitations of Existing Models," 1959
"Power for Remote Areas," 1967

box 39, folder 5

Pra - Pri

"Practical Statistics for Practical Physicists," 1946
"Predictions of Variations of the Speed of Light Measured by Stable Clocks," 1976
"Pre-Experimental Assumptions as Determiners of Experimental Results," 1940
"Preliminary Federal Trade Commission Staff Report on Its Investigation of the Petroleum Industry," 1973
"Present Difficulties in the Theory of Hyperfine Structure," 1931
"Present Status of the Theoretical Predictions for the Solar-Neutrino Experiment," 1968
"The Present Status of US Physics," 1965
"Pressure Broadening of Spectral Lines," 1933
"Pressure Broadening of Spectral Lines and Van der Waals Forces," 1937
"Pressure Shift and Broadening of Spectral Lines," 1932
"Presymmetry," 1966
"Primary and Secondary Objects," 1959
"Primary Radio-Frequency Standardization by Use of the Cathode-Ray Oscillograph," undated
"The Primordial Field and the Birth of the Universe," 1973
"The Principle of General Relativity and Einstein's Theory of Gravitation," 1920
"Principle of Identity and the Exclusion of Quantum States," 1930
"The Principles of Cloud-Chamber Technique," 1951

box 40, folder 1-2

Pro - Pu

"Probability and Causality in Quantum Physics," undated
"Probability and Physics," 1939
"Probability, Frequency, and Reasonable Expectation," 1946
"Probability, Many-Valued Logics, and Physics," 1939
"Probable Error for Poisson Distributions," 1940
"Probing the Weak Force with Neutrinos," 1975
"The Problem of Infinite Matter in Steady-State Cosmology," 1965
"The Problem of Formulating a Problem," 1960
"The Problem of Symmetry in Quantum Mechanics," 1929

"Problems in Magnetiostatic Equilibrium," 1970
"Problems of Generating High Circulating Currents of Relativistic Electrons," 1959
"Proceedings of the American Academy of Arts and Sciences," 1912
"Proceedings of the First National Biophysics Conference," 1959
"Proceedings of the Fourth Berkeley Symposium on Mathematical Statistics and Probability," 1960
"Proceedings of the Royal Irish Academy," 1937
"Production from Hydrogen by 16 Gev Bremsstrahlung," 1968
"The Production of New Radiation by Light Scattering," 1929
"The Production of Positives by Nuclear Gamma-Rays," 1933
"Production of Secondary Electrons by Electrons of Energy," 1941
"Production of Secondary Electrons by Electrons of Energy Between 0.7 and 0.2 MeV," 1941
"Production of the Heaviest Elements by Multiple Neutron Capture," 1965
"Productset Populations for Reactions Involving Particles of Arbitrary Spin," 1966
"Progress in Holography," 1972
"Progress of Theoretical Physics," 1948
"Projective Relativity," 1930
"Propagation of Electromagnetic Polarization Effects in Anisotropic Cosmologies," undated
"Propagation of Radiation in a Scattering and Absorbing Medium," 1943
"Propagation of Schroedinger Waves in a Uniform Field of Force," 1928
"Properties of Pi Mesons," 1952
"Proposal for a Bubble Chamber Experiment with the Polarized Laser Induced Photon Beam," 1968
"Proposal for a Research Contract for a Modern Analog to the Michelson-Morley Experiment to Look for a Preferred Reference Frame in Space," 1964
"Prospects for Further Considerable Extension of the Periodic Table," 1969
"Pseudo-Mathematics in the Mental and Social Sciences," 1936
"Pulsar Radiation," 1968
"Pulse Widths and Time Dilatation," 1975
"Purkinje Cells in the Cerebellum: Their Responses to Postural Stimuli in Cats," 1958

box 40, folder 3-4

Q

"Quality Assurance," 1969
"Quantization in Generalized Coordinates," 1970
"Quantization of Einstein's Gravitational Field Equations," 1952
"Quantized Singularities in the Electromagnetic Field," 1931
"Quantum Electrodynamics at Small Distances," 1954
"Quantum Field Theory," 1966
"Quantum Field Theory and the Dynamical Role of Spin," 1964
"The Quantum Ladder," 1963
"The Quantum Laws and the Uncertainty Principle of Heisenberg," 1929
"Quantum Mechanical Motion of Free Electrons in Electromagnetic Fields," 1931
"Quantum Mechanics and Radioactive Disintegration," 1929
"Quantum Mechanics, Heredity and the Origin of Life," 1967
"Quantum Mechanics of Collision Processes," 1932
"Quantum Numbers and Masses of Mesons as Quark-Antiquark Systems," 1966
"Quantum Processes Predicted?," 1969
"Quantum Statistics of Interacting Particles," 1957
"The Quantum Theory of the Electron," 1928
"The Quantum Theory of X-Ray Reflection," 1941
"The Quark Hunters' Progress," 1968
"Quark Models of Baryon Resonances," 1967
"Quasars and the Schwarzschild Singularity," 1976

"Quasar Fluctuations and Size Limits," 1976
"Quasi-elastic Neutrino Scattering," undated
"Quaternion Approach to Elementary Particle Theory," 1962
"Quaternions, Bivectors, and the Lorentz Group," 1966
"The Quenching of Mercury Resonance Radiation by Hydrogen, Carbon Monoxide, and Nitrogen," 1934

box 40, folder 5

Ra

"Radiation and Absorption on Schrodinger's Theory," 1927
"Radiation from Relativistic Electrons," 1959
"Radiation Losses from High-Temperature Gas Discharges," 1963
"The Radiation of a Charge under the Influence of a Constant External Force," 1968
"Radiation Reaction and Radiative Frequency Shifts," 1973
"Radiation Reaction Forces and the Expanding Universe," 1935
"Radiation through a Foggy Atmosphere," 1905
"Radiative Loss by Electrons with Energies up to 2.4 Million Volts," 1938
"Radio Telemetry," 1950
"Radioactive Beta Decay and Nuclear Exchange Force as a Consequence of a Unitary Field Theory," 1936
"Radioactive Disintegration," 1931
"Radioactivity of Lithium," 1939
"Radiofrequency Emission from Plasmas Not in Thermodynamic Equilibrium," 1961
"The Radium-Uranium Ratio and the Number of Actinouranium Isotopes," 1934
"Random Sampling," 1931
"Range Energy Curves," 1949
"The Range-Velocity Curve for Electrons with Energy Above 100 KEV," undated

box 41, folder 1

Rea - Reg

"Reality in Physics: A Classroom Discussion," 1978
"Recent Advances in Neutron Physics," 1977
"Recent Developments in the Theory of the Electron," 1949
"Recent Work on Isotopes in Band Spectra," 1929
"Recently Discovered Auto-Ionizing States of Krypton and Xenon," 1964
"Recoil Electrons from Aluminum," 1927
"Rectangular Potential Well Problem in Quantum Mechanics," 1955
"Redshifts and Magnitudes of Extragalactic Nebulae," 1956
"Reduction of a Representation to Canonical Form," 1938
"Reduction of Unnecessary Medical Exposure," undated
"Refined Coal: An Energy Source of the Future," 1973
"Reflection and Refraction by a Crystal of Nickel," 1928
"Reflection of Electrons by a Crystal of Nickel," 1928
"The Reflection of Hydrogen Atoms from Crystals," 1928
"Reflection of X-Rays with Change of Frequency," 1940
"Reflection Spectra of Neutrons from Crystals," 1947
"The Refractive Index of an Ionized Medium," 1934
"Regarding Covariant Subtraction of Infinities," 1951
"Regarding the Early History of the Earth's Atmosphere," 1966
"Regeneration in Amphibians and Reptiles," undated

box 41, folder 2-3

Rel

"The Relation Between Statistical Mechanics and Thermodynamics," 1922
"The Relation Between the Intensity of Excitation and the Number of Neurones Traversed," 1938
"The Relation of Mathematical Biophysics to Experimental Biology," 1938
"Relations Among Systems of Electromagnetic Equations," 1970
"Relations Between Fundamental and Cosmological Constants," 1978
"The Relations Between Stefan's Radiation Law, Nernst's Heat Theorem and Maxwell's Formula for the Radiation Pressure," 1938

"Relationship of Flux Quantization to Charge Quantization and the Electromagnetic Coupling Constant," 1971
 "Relationship of the Foldy-Wouthuysen Transformation to Lorentz Transformations," 1964
 "Relative Intensities in Nuclear Spin Multiplets," 1929
 "Relativistic Astrophysics," 1966
 "Relativistic Correction to the Magnetic Moment of the Deuteron," 1947
 "Relativistic Corrections for High Energy Scattering," 1955
 "Relativistic Corrections to Magnetic Moments of Nuclear Particles," 1952
 "Relativistic Corrections to the Magnetic Moments of Nuclear Particles," 1953
 "Relativistic Corrections to the Polarization of Protons at High Energies," 1957
 "Relativistic Cosmology," 1933
 "Relativistic Cut-Off for Quantum Electrodynamics," 1948
 "Relativistic Electron-Pair Interpretation of the Pion-Pion Interaction and the Structure of Heavy Mesons," 1962
 "Relativistic Electron-Pair Systems and the Structure of Neutral Mesons," 1961
 "Relativistic Fluids in Cosmology," 1968
 "Relativistic Foundations for Elementary Particle Unitary Symmetry," undated
 "Relativistic Gravity in the Solar System," 1971
 "Relativistic Increase of Energy Loss by Ionization in Gases," 1957
 "Relativistic Kinematics of a Rotating Disk," undated
 "The Relativistic Linear Harmonic Oscillator," 1956
 "The Relativistic Problem of the Right-Angled Lever: The Correctness of the Laue Solution," 1968
 "Relativistic Precession of a Spinning Satellite," 1966
 "Relativistic Quantum Mechanics," 1962
 "Relativistic Theory of the Photoelectric Effect," 1931
 "Relativistic Time and the Principle of Caratheodory," 1969
 "Relativistic Rocket Theory," 1952
 "Relativistic Thermal Equilibrium Conditions in an External Gravitational Field," undated
 "Relativistic Wave Equations," 1955
 "Relativistic Wave Functions in the Continuous Spectrum for the Coulomb Field," 1937
 "Relativity," undated
 "Relativity and Aether Drift," 1930
 "Relativity and Nuclear Forces," 1936
 "Relativity and Quantum Theory," 1969
 "The Relativity of Physical Size," 1969
 "Relativity, the Fitzgerald-Lorentz Contraction, and Quantum Theory," 1941

Rem - Rez

"Remarks on the Polarization Effects in the Positron Theory," 1936
 "Remarks on the Theory of Fusion," undated
 "Remarks on Uncertainty Principles," 1929
 "Renormalization of a Distorted Gauge-Invariant Theory," 1977
 "Repair and Resistance of Tissue in Life Processes," 1942
 "Repetition of the Michelson-Morley Experiment Using Kennedy's Refinement," 1927
 "Replication of Double-Strand Nucleic Acids," 1965
 "Report of Ambient Air Quality Incidents and Inversions in 1972," 1974
 "Report on Notation for Spectra of Diatomic Molecules," 1930
 "Representation Constraint on Asymptotic Freedom in the High Symmetry Limit," undated
 "Representation of Leptons and Mesons and Baryons in Terms of Linked Quantized Flux Loops," undated
 "The Representation of Radiation Reaction in Wave Mechanics," 1934

box 41, folder 4,
 box 42, folder 1

"Representations of the Galilei Group," 1952
"Representation of the Spin in the Dirac Equation for the Electron," 1974
"Research Corporation Annual Report," 1952
"Research on Information Structures," 1961
"Research on the Electron Ring Accelerator," 1970
"The Resonance Levels of Neutrons in Silver Nuclei," 1936
"Resonance Spectra of Iodine," 1918
"Results from Cosmic Ray Experiments," 1961
"Results of the ZGS Beam Survey," 1965
"Reversibility of the Equations of Classical Dynamics," 1938
"Review of Certain Contributions to Cosmic Electricity and Magnetism," 1936
"Revisions of the Lorentz Transformation," 1951

box 42, folder 2

Ri - Ru

"Rigid Motion in a Gravitational Field," 1962
"Rigidity and Space-Time Metric: Proposed Experiment," undated
"Rival Principles of Causal Explanation in Psychology," 1939
"The Role of Definitions in Physical Science, with Remarks on the Frequency Definition of Probability," 1942
"The Role of the Carrier Frequency in Information Theory," undated
"Roles of Discrete and Continuous Theories in Physics," 1931
"Rotation in a Rarefied Gas from the Point of View of the Kinetic Theory," 1924
"Run-away Electrons," 1958

box 42, folder 3-4

Sa - Sc

"Salt Transport Across Cell Membranes," 1964
"Sargent Diagram and Comparative Half-Lives for Electron Capture Transitions," 1954
"Saturated Two-Photon Resonance Ionization of Helium," 1975
"Saturation in Triplet Models of Hadrons," 1966
"The Saturation Requirements for Nuclear Forces," 1938
"Scalar Tensor Gravitation and the Cosmic Fireball," undated
"Scattering and Polarization of Electrons," 1940
"Scattering and Splitting of Photons on the Non-linear Field Theory of Born and Infeld," 1938
"Scattering in the Near Infrared," 1937
"Scattering Matrix of Radioactive States," 1940
"The Scattering of 2.5 Mev Neutrons in Helium," 1940
"The Scattering of 50-Kilovolt Electrons by Aluminum," 1940
"Scattering of a Beam of Particles by a Center of Force," undated
"The Scattering of a Standing Electromagnetic Wave," 1929
"The Scattering of Beta-Rays," 1932
"The Scattering of Fast B-Particles by Electrons," 1932
"The Scattering of Fast B-Particles by Nitrogen Nuclei," 1936
"Scattering of Hard Gamma Rays and Annihilation Radiation," 1935
"Scattering of High-Energy Positive and Negative Muons on Electrons," 1968
"The Scattering of Light by Liquids at High Temperatures," 1927
"The Scattering of Light by Turbid Media," 1931
"The Scattering of Light in Amorphous Solids," 1927
"The Scattering of Neutrons by Protons," 1935
"Scattering of Neutrons in Polycrystals," 1947
"Scattering of Protons by Deuterons," 1946
"Scattering of Slow Electrons by Neutral Atoms," 1932
"The Scattering of Slow Neutrons by Bound Protons," 1947
"Scattering of Slow Neutrons by Paramagnetic Salts," 1938
"Scattering of Thorium C Gamma Radiation by Radiation G and Ordinary Lead," 1929
"The Scattering Theory of the Schrodinger Equation," 1951
"Schematic Treatment of Nuclear Resonances," 1946

box 42, folder 5-6

"Science and Government," undated
"Science and Society Test for Scientists: The Energy Crisis," 1974
"Science and the Advanced Society," 1966
"Science Reports of the Tokyo Bunrika Daigaku," 1935
"Screening Effects in Elastic Electron Scattering," 1964

Se

"Search for Electromagnetic Interactions Between Mesons and Electrons," 1955
"The Search for S-Matrix Axioms," 1964
"Secondary Effects in Ionization by Hard Gamma Rays," 1933
"Secondary Structure and Mosaic Structure of Crystals," 1932
"Selected Topics on Violation of CP Invariance," 1967
"Selection Rules for Parafields and the Absence of Para Particles in Nature," 1965
"Self-Consistent Formulation of Itinerant Electron Ferromagnet," 1974
"Self-Coupled Representations of the Lorentz Group and Infinite-Component Fields," 1967
"Self-Organizing Mechanisms as Model for Scientific Theories," 1961
"Semantio Information," undated
"Semiclassical Dispersion Theory of Lasers," 1969
"The Semiclassical Treatment of Some Quantum Problems," 1962
"The Separation of Isotopes by Centrifuging," 1938
"Separation of Rotational Coordinates from the Schrodinger Equation for N Particles," 1935
"Series of Emission and Absorption Bands in the Mercury Spectrum," 1927
"Seven Short Essays: An Epistemological Analysis of the Lorentz Transformation of the Chronometric Branch of Relativistic Physics," undated

box 43, folder 1-2

Sh - Si

"The Shallow Solar Pond Energy Conversion System," 1974
"Shape of the Beta-Ray Distribution Curve of Radium E at High Energies," 1937
"Short and Long Range Charge Independence," 1968
"Should Mach's Principle Be Taken Seriously?," 1978
"The Sign of the Magnetic Moment of the Neutron," 1937
"The Significance of Atomic Entities in Modern Atomic Structure," 1938
"The Significance of Physical Theory," 1954
"Simple Formulas for the Rest Masses of the Stable Elementary Particles in Terms of the Electron Rest Mass and the Conventional Quantum Numbers," 1976
"Simplified Derivation of the Properties of Elementary Transcendentals," 1952
"Simplifying Intersections of Surfaces," 1970
"Simply Transitive Subgroups G_4 of the Poincare Group," 1968
"Simultaneous Measurability in Quantum Theory," undated
"Single Scattering of Fast B-Particles in Argon," 1939
"Singular Integrals and the Principal Series," 1970
"Sixth Annual Asthma and Allergic Disease Centers Workshop," 1976
"Size Effect and Aging in Several Treatments of a Single Armor Steel," 1945
"Size Effects in Steels and Other Metals," 1948
"Size Effects in Steels and Other Metals from Slow Notch Bend Tests," undated

box 43, folder 3-4

So

"Solar Oblateness and Fluid Spin-Down," 1967
"The Solid State: Diffusion in Metals and Alloys," undated
"Solution of Maxwell's Equations in Terms of a Spinor Notation: The Direct and Inverse Problem," 1960
"The Solution of Steady-State Problems in Di-Electric, Magnetically Permeable, and Conducting Media," 1932
"Solvent Refined Coal Processing in the United States," 1974
"Some Aspects of Rashevsky's Theory of Delayed Reflexes," 1937
"Some Aspects of the Economics of Fusion Reactors," undated

"Some Aspects of the Quantum Theory of Measurements," 1965
"Some Considerations Pertaining to the Grammar of Science," 1934
"Some Cosmical Problems in Gas Dynamics," 1952
"Some Criteria for a Power Producing Thermonuclear Reactor," 1956
"Some Exact Solutions of the Electrodynamical Problem of Superimposed Positive and Negative Fluids," undated
"Some Experiments on the Production of Positive Electrons," 1934
"Some Experiments Upon the Relations Between Ether, Matter, and Electricity," 1901
"Some Fusion Perspectives," undated
"Some General Problems Relative to the Origin of Life on Earth or Elsewhere," 1966
"Some Observable Effects of the Quantum-Mechanical Fluctuations of the Electromagnetic Field," 1948
"Some Philosophical Reflections of a Biologist," 1939
"Some Principles Governing the Choice and Utilization of Permanent-Magnet Steels," 1927
"Some Problems of Information Theory," undated
"Some Recent Progress in the Understanding of Atomic Nuclei," 1938
"Some Remarks Concerning the Proton Structure," 1967
"Some Remarks on the Foundation of Thermodynamics and Statistical Mechanics," 1969
"Some Restrictions on Algebraically General Vacuum Metrics," 1974
"Some Spherical Gravitational Waves in General Relativity," 1961
"Some Statistical Aspects of Conversational Speech," undated

box 43, folder 5,
box 44, folder 1

Sp

"Spaces Conformal to a Class of Spaces in General Relativity," 1962
"Space-Time and Elementary Particle Groups," 1965
"Space, Time, and the Elementary Particles," 1970
"Space-Time Approach to Quantum Electrodynamics," 1949
"Space-Time Structure from a Global Viewpoint," undated
"Space-Time Symmetries," 1966
"Space-Times Containing Perfect Fluids and Having a Vanishing Conformal Divergence," 1967
"Special Relativity in the Quantum Domain," 1968
"Special Reports Issued by the Federal Power Commission," 1974
"Special Theories of Relativity," 1952
"The Specific Primary Ionization and Energy Loss of Fast Electrons in Matter," 1948
"Specificity of Charge Fluctuation Forces," 1958
"Specificity of the London-Eisenschwitz Wang Force," 1957
"Spectral Intensities of Radiation from Non-Harmonic and Aperiodic Systems," 1928
"Spectroscopy from the Point of View of the Communication Theory," 1951
"The Spectrum of Hydrogen Positive Rays," 1920
"The Specular Reflection of Plane Wave Pulses in Media of Continuously Variable Refractive Properties," 1943
"The Speed of Light as Measured by Two Terrestrial Stable Clocks," 1977
"Spezielle Relativitätstheorie und Quantenmechanik," 1931
"Spheroidal Functions," 1934
"Spin and Unitary-Spin Independence in a Paraquark Model of Baryons and Mesons," 1964
"Spinning Electrons and the Structure of Spectra," 1926
"The Spinning Nucleus in a Magnetic Field: A Source of Classroom Problems," 1950
"Spinning Shell as a Source of the Kerr Metric," 1968

"Spinor Theory and Relativity," 1955
"Spinor Theory of Four-Terminal Networks," 1953
"Spontaneous Deformation of Protocatechnic Acid Crystals," 1949
"Spontaneous Fluctuations of Electricity in Thermionic Valves Under Retarding Field Conditions," 1947
"The Spreading of Liquids on Low-Energy Surfaces," undated
"SPT Representation of the Twin Paradox," undated

box 44, folder 2-3

St

"Stability of the Atmosphere of a Rotating Star," 1931
"The Stability of the Helical DNA Molecule in Solution," undated
"Stability Properties of Hydrophobic Colloidal Solutions," 1940
"Static Magnetic Fields in General Relativity," 1953
"Static Solutions of Einstein's Field Equations for Spheres of Fluid," 1939
"The Static Spherically Symmetric Solutions in a Unified Field Theory," 1956
"Statistical Gravitational Fields in Second Approximation," 1969
"Statistical Analysis of Counter Data," 1936
"Statistical Analysis of the Counting Rate Meter," 1936
"Statistical Explanation in Physics: The Copenhagen Interpretation," 1970
"Statistical Mechanics of Strings," 1958
"The Statistical Method of Gibbs in Irreversible Change," 1950
"Statistical Methods for the Detection of Pulsed Radar in Noise," undated
"Statistical Model for High-Energy Events," 1955
"Statistics of Excited Energy States of Nuclei," 1941
"Status and Objectives of Tokamak Systems for Fusion Research," undated
"The Status and Outlook of the World Program in Controlled Fusion Research," 1969
"The Status of the Concept of Causality in the General Theory of Relativity," undated
"Status of the Gamma Ray Change," 1929
"Status of the Occultation Determination of G-Dot," 1976
"Stochastic Lorentz Observers and the Divergences in Quantum Field Theory," 1962
"The Strength of Metals," 1947
"Strong Conservation Laws and Equations of Motion in Covariant Field Theories," 1953
"Structural Reorganization through Ligand Interchange," 1962
"Structure and Function of Identified Nerve Cells in the Crayfish," 1970
"The Structure of Liquids," 1949
"The Structure of Nucleons," 1965
"The Structure of Radiation," 1925
"Structure of Soft X-Ray Lines," 1931
"Structure of the Electromagnetic Field," 1959

box 44, folder 4-5

Su

"SU2; SU3; SU6," 1966
"Suggested Explanation of the Contradiction Between the Rayleigh-Jeans Formula and Experiment," 1938
"Superthought," 1927
"Sulphur Oxides from Fuel Combustion 1972-1985: Some International Implications," 1975
"Summaries of the United States Atomic Energy Commission Research Program on Controlled Thermonuclear Reactions," 1965
"Summary of Work on Atomic Arrangement in Glass," 1941
"Sun's Radial Magnetic Gradient and Atmosphere," 1929
"Superconducting Devices," 1966
"Supertranslations in Flat Space-Time," 1965
"The Surface-Barrier Transistor," 1953
"Surface Energy of Liquids," 1931

box 45, folder 1

"Surface Mined Areas: Control and Reclamation of Environmental Damage," 1971
"Surface Mining and Reclamation of Mined Lands in Selected OECD Countries," 1977
"Surface Mining Control and Reclamation Act of 1975"
"Surface Phenomena," 1954
"The Surface Properties of Silica Powders," 1965
"Survey of World Energy Resources," 1973
"Survey Report on Turbulence," 1946
"The Survival of Physical Science," 1952

Sw - Sy

"S-Wave Proton-Proton Scattering from 0.2 to 40 MeV for the Yukawa and Gauss Error Potentials," 1949
"Symmetries Among the Strongly Interacting Particles," 1964
"Symmetries of the Einstein-Maxwell Equations," 1960
"Symmetrization Postulate and Its Experimental Foundation," 1964
"Symmetry and Affinity of Electromagnetic Fields, Charges, and Poles," 1949
"Symmetry and Conservation Laws," 1964
"Symmetry and Exact Dyon Solutions for Classical Yang-Mills Field Equations," 1976
"The Symmetry of the Stress-Tensor Obtained by Schroedinger's Rule," 1927
"Symmetry Properties and the Identity of Similar Particles," 1935
"Synchrotron Radiation: Light Fantastic," 1974
"Synchrotron Radiation Losses from Energetic Plasmas," 1962
"The Synthesis of Speech from Signals Which Have a Low Information Rate," undated
"Syntopic Measurements: A New Classification of Spacetime Measurement," 1977

box 45, folder 2

Ta - Te

"Tables of Gamma Spectra from Electron Hydrogen Atom Collisions," 1966
"Tachyons," 1968
"Tait Coefficients and Gamma Transition of Helium I and II," 1961
"The Tensorial Form of Dirac's Wave Equations," 1929

box 45, folder 3-4

The

"Theoretical Considerations Concerning the D+D Reactions," 1947
"Theoretical Continuous X-Ray Energy and Polarization," 1945
"Theoretical Expectations Concerning Double Beta-Decay," 1955
"Theoretical Frameworks for Testing Relativistic Gravity," 1971
"Theoretical Half-Lives of Forbidden Beta-Transitions," 1942
"Theoretical Limitations on the Rate of Transmission of Information," 1949
"Theoretical Physics: Program for Investigation of Nuclear Forces," undated
"The Theoretical Resolution Limit of the Electron Microscope," 1948
"The Theoretical Response of Living Cells to Contact with Solid Bodies," 1940
"Theory and Application of Dimensional and Inspectional Analysis to Model Study of Fluid Displacements in Petroleum Reservoirs," 1964
"Theory and Scientific Development," 1943
"Theory of Complex Spectra," 1929
"Theory of Disintegration of Nuclei by Neutrons," 1935
"Theory of Fine Structure of Helium," 1937
"The Theory of Gravitation Proposed by Fred Hoyle and J. V. Narlikar," 1964
"Theory of Hyperfine Structure Separations," 1931
"Theory of Isotope Shift," 1958
"Theory of Light Absorption in Simple Aromatic Compounds," 1940
"Theory of Matter with Super Light Velocity," undated
"The Theory of Positrons," 1949
"Theory of Pressure Effects of Foreign Gases on Spectral Lines," 1935
"Theory of Rectification of an Insulating Layer," 1948

"The Theory of Relativity and Electromagnetism," 1950
"Theory of Scale Models as Applied to the Study of Geologic Structures," 1944
"Theory of Scattering of Protons by Protons," 1936
"The Theory of the Electron," 1962
"Theory of the Energy Transmission in Collisions," undated
"Theory of the Fermi Interaction," 1958
"Theory of the Photodisintegration of the Deuteron and of Other Nuclei," 1968
"Theory of the Propagation of Sound in Scattering and Absorbing Media," 1946
"Theory of the Stark Effect in Hydrogenic Atoms," 1929
"The Theory of Unitrons," undated
"Thermal Diffusion and Other Physical Methods of Isotope Separation," undated
"Thermal Equilibrium in a General Gravitational Field," 1935
"Thermal Fluctuations in Conductors," 1957
"Thermal Radiation Characteristics of Some Glasses," 1951
"Thermodynamic Properties of Fluids Near the Critical Point, as Interpreted by a Simplified Renormalization Theory and the Self-Limitation of Fluctuations," 1975
"Thermodynamics," 1948
"Thermodynamics and Some Undecidable Physical Questions," 1964
"Thermoelectric Phenomena in Crystals and General Electrical Concepts," 1928
"Thermonuclear Power," 1965
"Thermonuclear Reaction Rate in a Discharge," undated
"Thermonuclear Reactions and Astrophysics," 1952

box 45, folder 5

Thi - Ti

"The Third Law of Thermodynamics," 1936
"Third Washinton Conference on Theoretical Physics," 1937
"This Question of Lattice Theory," undated
"Thomas Precession as Evidence for the Non-Euclidean Geometry of Atomic Orbits," 1971
"Three-Photon Annihilation of an Electron-Positron Pair," 1949
"The Three Spectroscopies," 1968
"Three Steps in the Structure of Matter," 1970
"Time Asymmetry and Quantum Equations of Motion," 1973
"Time Delay Circuit for Operating Wilson Cloud Chambers," 1937
"The Time Distribution of So-Called Random Events," 1939
"The Time of Formation of the Solar System Relative to Nucleosynthesis," 1962

box 46, folder 1-2

To - Ty

"To Protect the Public Interest: The Regulator's Quest," 1975
"Topics in Scattering Theory," 1951
"The Total Electromagnetic Energies Possessed by Convection Currents," 1967
"Toward a Fundamental Mechanics," 1975
"TPO Crystal Algebra," undated
"Transfer of Nuclear Particles," 1956
"Transformation of Relativistic Wave Equations," 1956
"Transformation of 'Spin Direction' by Ordinary Lorentz Transformation," 1958
"Transient Phenomena in Quantum Mechanical Systems," 1978
"Transition Probabilities: Their Relation to Thermionic Emission and the Photo-Electric Effect," 1926
"Translation Permutation Operator Algebra for the Description of Crystal Structures," undated
"Transmission of Slow Neutrons Through Crystals," 1939
"The Transmission of Slow Neutrons through Microcrystalline Materials," 1947
"The Transparency of Turbid Media," undated
"Transport Processes in the Primordial Fireball," 1967
"Transport Properties of Some Liquid Metals," undated
"Transverse Polarization in the Beta Decay of Tm," 1968
"The Trend of Thought in Natural Philosophy," 1934

"Trends in Research on Fundamental Particles," 1956
"The Triplets of Helium," 1929
"Tunnel Effect in the Motion of Deformable Wavelets," 1973
"Turbulent Flow," 1961
"Twistor Quantisation and Curved Space-Time," 1968
"Twistors, Symplectic Structure and Lagrange's Identity," undated
"Two-Component Wave Equations," 1949
"Two-Electron Excitation States in Helium," 1965
"Two-Nucleon Problem When the Potential Is Nonlocal but Separable," 1954
"Two-Pion Exchange Interaction," 1961
"Two Remarks on the Wave Theory of Mechanics," 1927
"Two Subgroups of the Lorentz Group and Their Physical Significance," 1965
"The Two Types of X-Ray Reflection in Crystals," 1940
"Type-Null Vacuum Solutions in General Relativity," 1967

box 46, folder 3-4

U

"The Ultra Violet Absorption Spectra of Certain Metallic Vapors and Their Mixtures," 1909
"Unaccelerated-Returning-Twin Paradox in Flat Space-Time," 1973
"Unconventional Accelerators," 1969
"Unidirectional Quanta in Wave Mechanics," 1927
"A Unified Einstein-Yukawa Theory," 1977
"Uniqueness of the Mass-surface Relative to Iron-56," 1965
"Unitary Irreducible Representations of the Lorentz Group," 1958
"United States Energy Through the Year 2000," undated
"Universal Conventionalism and Space-Time," 1967
"Universal Time versus Relativistic Time in Four-Dimensional Symmetry Framework," 1976
"Unstable Combinations Which Can Simulate Neural Mesons," undated
"Unsteady-State Separation Performance of Cascades," 1952
"Upper Limit for the Electric Dipole Moment of the Neutron," 1968
"The Upper Limit of Energy in the Beta-Ray Spectrum of Actinium B," 1933
"The Upper Limits of Energy in the Beta-Ray Spectra of Actinium B and Actinium C," 1929
"The Use of Isotopes in an Integral Equation Description of Metabolizing Systems," undated
"Use of the Radioactive Properties of Thorium for a Quantitative Study of Phagocytosis," 1940
"Uses of Isotopes in Agricultural Studies," 1956

box 46, folder 5

V

"Vacuum Polarization Effects in Proton-Proton Scattering," 1957
"The Vapor Pressure of Isotopes," 1938
"The Variation of the K Resonating Strength with Atomic Number," 1934
"Vector Mesons and Nucleon-Nucleon Spin-Orbit Interaction," 1964
"Velocity Analysis by Means of the Stern Gerlach Effect," 1937
"Velocity Analysis of Potassium Atoms Scattered by Magnesium Oxide," 1937
"Velocity-Dependent Features of a Static Nucleon-Nucleon Potential," 1958
"The Vibration Rotation Energies of Polyatomic Molecules," 1941
"Violations of Symmetry in Physics," 1965
"The Virial Theorem in Nuclear Problems," 1937
"The Viscosity and Thermal Conductivity of a Completely Ionized Gas," 1954

box 46, folder 6,
box 47, folder 1

W

"Wave Calculation of Elastic Scattering Cross Section," undated
"The Wave-Equation of the Electron in the General Relativity Theory," 1933
"The Wave Equations of the Electron," 1928
"Wave Function of Ionized Lithium," 1951
"Wave Functions for Large Arguments by the Amplitude Phase Method," 1937

	"Wave Mechanics," 1929
	"Wave Mechanics and Radioactive Disintegration," 1928
	"What Are the Fittest?," 1943
	"What Are Spinors?," 1966
	"What Can We Find? A Study of the Detection of Rare Particles," 1955
	"What Has Become of Reality in Modern Physics?," undated
	"What Have We Learned about Elementary Particles from Photon and Electron Interactions?," 1967
	"What Is Time?," undated
	"Where Is Physics Going?," 1934
	"Whitehead's Gifford Lectures," 1969
	"Why Is Space Three-Dimensional?," 1963
	"Wiggleworm Physics," undated
	"The Work Required to Produce an Electric Convection Current," 1967
	"Working Formulas for Number of Events in a Given Length of Track," undated
	"World Structure and the Expansion of the Universe," 1932
	"Wylers Expression for the Fine-Structure Constant," 1971
box 47, folder 2	X to Z
	"X-Ray Levels of Radioactive Elements with Applications to Beta and Gamma-Ray Spectra," 1935
	"X-Ray Linewidths of Nearly Perfect Copper Crystals," 1963
	"X-Ray Observations of Nearly Perfect Copper Single Crystals," 1962
	"X-Ray Transitions Probabilities with Special Reference to K Absorption in Lithium," 1952
	"X-Ray Wave-Lengths from Crystals and Ruled Gratings," 1934
	"X-Ray Wavelength Scales," 1935
	"The Zeeman Effect and Spherical Harmonics," 1927
box 43, folder 4	"Zeeman Effect of the Symmetrical Top According to the Wave Mechanics" 1927
	"Zur Frage der Messbarkeit der Elektromagnetischen Feldgrößen," 1933
	"Zur Frage nach der physikalischen Bedeutung der Relativitätstheorie," 1922
box 48, folder 1-3, box 47, folder 3-4	Untitled
box 48, folder 4	Serial Issues 1885-1979
	A-B 1969-1978
	<i>Aerospace</i>, 1969
	<i>Britannica Library Research Service</i>, undated
	<i>Bulletin of Mathematical Biophysics</i>, 1972
	<i>Bulletin of the American Physical Society</i>, 1978
	<i>Bulletin of the Atomic Scientists</i>, 1976
box 49, folder 1	D-H 1885-1976
	<i>Dover Children's Books</i>, 1972
	<i>Dover Publications</i>, 1971
	<i>Economics</i>, 1968
	<i>The February Scientific Monthly</i>, 1927
	<i>Fishing Facts</i>, 1976
	<i>Houghtaling's</i>, 1885
box 49, folder 2	J 1933-1979
	<i>Johns Hopkins Magazine</i>, 1976-1979
	<i>Journal de Physique</i>, 1937
	<i>Journal of Chemical Education</i>, 1963
	<i>Journal of the American Scientific Affiliation</i>, 1970
box 49, folder 3-4	P 1932-1979
	<i>Paperbacks in Print</i>, 1977
	<i>Philosophy</i>, 1968
	<i>The Pittsburgh Record</i>, 1932
	<i>Plenum</i>, 1978
	<i>Physical Review</i>, 1972-1979

box 50, folder 1	<p>Physics Today, 1977-1979</p> <p>S 1961-1970</p> <p><i>Schaum's Outline Series, undated</i></p> <p><i>Scientific American, 1961-1964</i></p> <p><i>Scientific and Technical Books, undated</i></p> <p><i>Scientific Tests Standards, 1970</i></p> <p><i>Studia Philosophica Gandensia, 1966</i></p>
box 50, folder 2	<p>T-U 1935-1978</p> <p><i>Topics in Applied Physics, 1978</i></p> <p><i>United States News and World Report, 1977</i></p> <p><i>University of Virginia Record Extension Series, 1935</i></p> <p><i>Zeitschrift für Physik, undated</i></p>
box 51, folder 1-2, box 50, folder 3-5 box 51, folder 3-5	<p>Miscellany 1927-1975</p> <p>Scope and Contents note</p> <p>Duplicates of existing material in other folders, untitled and anonymous papers, and other printed matter.</p>
box 52	<p>Miscellany 1927-1975</p> <p>Scope and Contents note</p> <p>Duplicates of existing material in other folders, untitled and anonymous papers, and other printed matter.</p>
box 53	<p>Miscellany 1927-1975</p> <p>Scope and Contents note</p> <p>Duplicates of existing material in other folders, untitled and anonymous papers, and other printed matter.</p>
box 54	Material not yet described
box 55	Material not yet described
box 56	Material not yet described
box 57	Material not yet described
box 58	Material not yet described
box 59	Material not yet described
box 60	Material not yet described
box 61	Material not yet described