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Guide to the Ugo Fano Papers 1925-1999



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Descriptive Summary

Identifier	ICU.SPCL.UFANO
Title	Fano, Ugo. Papers
Date	1925-1999
Size	13.5 linear feet (28 boxes)
Repository	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

Abstract Physicist Ugo Fano (1912-2001) was a pioneer in atomic theory and radiation physics. This collection consists of 13.5 linear feet of research material, lecture notes, correspondence, drafts and publications. The largest part of the collection contains research papers drafted for journal submission, often with correspondence between Fano and the editors, as well as Fano's own notes and research data. Correspondence in the collection represents discussions of technical details of physics and machines, between Fano and his friends, colleagues at other institutions, and former and current students. Other material in the collection documents Fano's work as a teacher and lecturer; his participation in conferences and professional organization; and his administrative activities at the University of Chicago.

Information on Use

Access

The collection is open for research, with the exception of materials in Series IX, Restricted. Materials in Box 27 are restricted for 30 years from date of record creation. Materials in Box 28 are restricted for 50 years from date of record creation. Materials in Box 29 are restricted for 80 years from date of record creation.

Citation

When quoting material from this collection, the preferred citation is: Fano, Ugo. Papers, [Box #, Folder #], Special Collections Research Center, University of Chicago Library

Biographical Note

Ugo Fano was born July 28, 1912 in Turin, Italy, to Gino Fano, a prominent mathematician. He earned his doctorate in mathematics from the University of Turin in 1934, worked at the University of Rome with Enrico Fermi, and the University of Leipzig with Werner Heisenberg. Fano then immigrated to the United States in 1939, with his wife and collaborator, Camilla "Lilla" Lattes Fano. He continued his work at several institutions, including the National Bureau

of Standards (now the National Institute of Standards and Technology) and the University of Chicago. Fano made lasting contributions to the fields of physics and chemistry, particularly in the theory of atomic and radiation physics.

With Enrico Fermi as a mentor, Fano's early work in the United States was in radiation biology, where his research on the effects of X-rays and neutrons helped to identify the biological hazards of radiation. Fano joined the National Bureau of Standards in 1946 as a theoretical physicist. In the next twenty years, Fano conducted seminal research in the physics of atoms, molecules and matter, as well as in radiation physics. His theoretical contributions formed the basis of future practical applications, such as the use of radiation for medical therapy and diagnosis, and the development of gas lasers. Fano's legacy is also remembered in the naming of phenomena such as the Fano resonance profile, Fano factor, Fano effect, and the Fano–Lichten mechanism

In 1966, Fano joined the University of Chicago as a professor in the Department of Physics and the James Franck Institute. Fano taught classes on atomic and quantum physics, and served as chair of the physics department from 1972 to 1974. Many of the graduate students he trained went on to leading positions in academia and research.

Fano was a member of the American Academy of Arts and Sciences, the National Academy of Sciences, the American Physical Society, the Accademia Nazionale dei Lincei, and the Royal Society of London. His achievements were recognized by awards from the U.S. Department of Commerce and the U.S. Department of Energy, as well as honorary degrees from the Université Pierre et Marie Curie in Paris, and Queen's University in Belfast.

Fano died February 13, 2001, in Chicago, Illinois at the age of 88. The Ugo Fano Fund to support graduate students was established in his memory.

Scope Note

This collection documents Fano's research, teaching and professional activities, and is arranged into eight series.

Series I: Research, contains Fano's work in the interactions of atoms with light, electrons, and each other. This includes article offprints from other researchers, Fano's own publications, handwritten research notes, and correspondence with others in the fields of atomic, molecular, and quantum physics. The research has been arranged by topic and then chronologically, beginning with Fano's most recent work. The majority of the information contained in this series involves research in atomic and quantum physics, though it also delves into early designs for lasers. Some of the topics include: Quantum Defect Theory, photoionization, Rydberg states, diamagnetism, and collision theory.

Series II: Correspondence, contains Fano's correspondence with his colleagues in atomic physics, and with former and current students. This series contains correspondence with other professionals in the field on various topics in physics, as well as some more personal correspondence. An interesting item included with his correspondence is a copy of the 1st generation of Edward Teller's "The Meson Song," presented at a 1948 Conference in Colorado.

Series III: Conferences, contains Fano's lecture materials for conferences. This includes lecture notes, graphs, transparencies, and literature from scientific organizations. Series III has been arranged chronologically, beginning with the most recent material.

Series IV: Teaching, contains Fano's lecture materials for classes. This includes notes used in classes, quizzes for courses, and course plans. Materials are arranged chronologically, beginning with the most recent material.

Series V: Organizations, contains literature from scientific organizations of which Fano was a member, as well as meeting minutes, correspondence and other administrative records of the University of Chicago's James Franck Institute and the Department of Physics. It also includes minutes from meetings, literature from organizations, and correspondence.

Series VI: Academic Employment, contains Fano's employment records and curriculum vitae, as well as some copies of Fano's publications. This series includes Fano's C.V., and reports and correspondence related to his employment at the University of Chicago and at the National Bureau of Standards.

Series VII: Personal, contains Fano's personal materials, including his memoirs, interviews, and memories of his colleagues. This series has been arranged chronologically, beginning with the most recent material, and includes a photograph of his father, Gino Fano.

Series VIII: Books, contains copies of books by Fano and others, with Fano's notes included. This series has been arranged chronologically.

Series IX: Restricted, contains personnel records, student evaluations and letters of recommendations, graded student work, and financial reports. Materials in Box 27 are restricted for 30 years from date of record creation. Materials in Box 28 are restricted for 50 years from date of record creation. Materials in Box 29 are restricted for 80 years from date of record creation.

Many of the documents in this collection are in Italian, with the majority of the remaining material in English.

Related Resources

The following related resources are located in the Department of Special Collections:

<http://www.lib.uchicago.edu/e/spcl/select.html>

Danos, Michael. Papers

Fermi, Enrico. Collection

Franck, James. Papers

Subject Headings

- Fano, Ugo
- University of Chicago. Department of Physics
- University of Chicago. James Franck Institute
- Atomic theory
- Radiation
- Physics
- Physicists

INVENTORY

Series I: Research

Series I contains Fano's research dating from 1928 to 1997 and includes notes, hand-written materials, articles, and correspondence related to his research interests. It is organized by topic, including fields such as "Molecular Collisions" and "Photoionization." Each topic is then arranged chronologically.

Box 1

Folder 1

"Stopping Power in Perspective," article reprint, 1997

Box 1

Folder 2

"Hyperspherical Harmonics," drafts, article offprints, correspondence, 1995

Box 1

Folder 3

"Multipole Radiation," draft, correspondence, 1995

Box 1

Folder 4

Density matrices, drafts, research notes, article offprints, and correspondence 1993-1994

Box 1

Folder 5

"Longitudinal Raman Process," drafts with correspondence, article offprints, 1993

Box 1

Folder 6

Twentieth Century Physics, Part 1, notes and correspondence on a book, article reprints, 1994-1997

Box 1

Folder 7

Twentieth-Century Physics, Part 2, notes and correspondence on a book, article reprints, 1991-1993

Box 1

Folder 8

Nonseparable dynamics, correspondence, article reprints, 1991-1992

Box 1

Folder 9

“Electron Polarization,” drafts, correspondence, background articles, 1991-1992

Box 1

Folder 10

“Fano-Sidky Diamagnetism,” draft with correspondence, graphs, and articles, 1991

Box 1

Folder 11

Introduction to Quantum Physics, Part 1, draft with correspondence, 1995-1996

Box 2

Folder 1

Introduction to Quantum Physics, Part 2, draft with correspondence, 1989-1994

Box 2

Folder 2

“Uncovering Symmetries,” draft, with research notes and correspondence, 1988-1989

Box 2

Folder 3

Collision amplitudes, draft with correspondence, 1988-1989

Box 2

Folder 4

Slow electrons in condensed matter, correspondence, article offprints, 1988

Box 2

Folder 5

“Half Scattering and Diamagnetism of Rydberg States,” drafts, research, correspondence, 1988

Box 2

Folder 6

“Quantum and Classical Treatments of Rydberg States,” drafts, article offprints, correspondence, notes, 1988

Box 2

Folder 7

“General Features of Collisions and Spectra,” drafts with graphs, 1987-1989

Box 2

Folder 8

Introduction to Theory, Symposium, drafts, 1987-1989

Box 2

Folder 9

“Sharp and Diffuse Interpolers,” drafts, article offprints, correspondence, 1987-1988

Box 2

Folder 10

Jeff Stephens collaboration, manuscripts with correspondence, 1987-1988

Box 2

Folder 11

Dissipation, draft, no date

Box 2

Folder 12

“New Quantum Numbers IV,” draft with correspondence, 1987

Box 2

Folder 13

“New Quantum Numbers III,” draft with correspondence, 1987

Box 2

Folder 14

“Short and Long Range Interactions of Slow Electrons,” manuscripts, correspondences, 1987

Box 2

Folder 15

“Generalized WKB and Milne Solutions,” draft with correspondence, 1986-1987

Box 2

Folder 16

“New Quantum Number,” draft with correspondence, 1985-1986

Box 3

Folder 1

“WKB Approach to Nonseparable Wave Equations,” manuscript with correspondence, 1985

Box 3

Folder 2

“Resonances in Electron Collisions,” draft with correspondence, 1985

Box 3

Folder 3

“Propensity Rules,” draft with correspondence, 1984-1985

Box 3

Folder 4

“Herzberg’s Impact on the Physics of Rydberg States,” Part 1, manuscript with correspondence, 1984

Box 3

Folder 5

“Herzberg’s Impact on the Physics of Rydberg States,” Part 2, article offprints, correspondence, graphs, 1984

Box 3

Folder 6

“Alternative Parameters of Channel Interactions,” Part 1, drafts with correspondence, 1983-1984

Box 3

Folder 7

“Alternative Parameters of Channel Interactions,” Part 2, research, drafts, correspondence, 1983-1984

Box 3

Folder 8

“Unified Treatment of Collisions II,” manuscript with correspondence and research notes, article offprints, 1983

Box 3

Folder 9

Spin correlation, draft with correspondence and research notes, 1982-1983

Box 3

Folder 10

“Pairs of Two-Level Systems,” draft with correspondence, 1982-1983

Box 3

Folder 11

“General Form of Quantum Defect Theory,” manuscript with correspondence and research notes, 1982

Box 4

Folder 1

“Evolution of Quantum Defect,” draft, research, no date

Box 4

Folder 2

Dynamics of resonant states, graph and transparencies, no date

Box 4

Folder 3

“Semianalytic Study of Diamagnetism,” manuscript, graphs, notes, article offprints, 1981-1988

Box 4

Folder 4

“Chain Relaxation,” draft and article offprints, 1981-1985

Box 4

Folder 5

“Correlations of Two Excited Electrons,” manuscript with correspondence and articles, 1978-1982

Box 4

Folder 6

“Motional Stark Effects on Lithium Vapor,” Part 1, research notes, transparencies, drafts, 1978

Box 4

Folder 7

“Motional Stark Effects on Lithium Vapor,” Part 2, article offprints, research notes, graphs, 1978

Box 4

Folder 8

“General Quantum Defect Theory,” research notes, manuscript, 1978

Box 4

Folder 9

Strong distortion of Rydberg spectra by external fields, article offprints, research, 1977

Box 4

Folder 10

Connection between configuration mixing and quantum defect theory, correspondence, research notes, 1977

Box 4

Folder 11

Manuscripts, correspondence, and notes, 1976-1994

Box 4

Folder 12

“Bloch-Floquet Molecules,” research notes, drafts, and correspondence, 1976-1991

Box 4

Folder 13

13 slides of experimental graphs

Box 5

Folder 1

Helium coincident experiment, drafts, notes, and graphs, 1976-1990

Box 5

Folder 2

Electron impacts, drafts, correspondence, and notes, 1976-1977

Box 5

Folder 3

Preliminary and illustrated material on xenon and krypton, photos and graphs, 1976

Box 5

Folder 4

Resonance, article offprint and notes, no date

Box 5

Folder 5

Unified treatment of multichannel spectra and collisions, graphs, no date

Box 5

Folder 6

“Dynamics of Electron Excitation by Collision,” article in Physics Today with correspondence, 1976

Box 5

Folder 7

“Diverse Manifestations of Barriers to Atomic Electrons,” draft with notes and article offprints, correspondence, 1975

Box 5

Folder 8

Correspondence, charts, and article reprints, 1974-1984

Box 5

Folder 9

Warnier diamagnetic, research notes, correspondence, graphs, 1974-1980

Box 5

Folder 10

“Excitation of Atoms to High States of Orbital Momentum,” draft, with notes and other manuscripts, 1974

Box 5

Folder 11

Article reprints, 1973-1995

Box 5

Folder 12

R-Matrix, drafts, notes, articles, 1973-1977

Box 6

Folder 1

Quantum defect theory, manuscripts, research notes, correspondence, article offprints, 1973-1976

Box 6

Folder 2

“Post-Adiabatic Analysis of Atomic Collisions,” drafts and notes, 1973-1976

Box 6

Folder 3

Transition matrices for the theory of spectra, research notes, 1973-1975

Box 6

Folder 4

Parity unfavoredness and the distribution of photofragments, graphs, no date

Box 6

Folder 5

“Quasi-Scaling of Electron Degradation,” Part 1, draft, research notes, and correspondence, graphs, 1974

Box 6

Folder 6

“Quasi-Scaling of Electron Degradation,” Part 2, drafts, research notes, papers, and correspondence, 1973

Box 6

Folder 7

“Quasi-Resonance Coupling of Atomic Shells,” draft with notes and correspondence, 1973

Box 6

Folder 8

“Multipole Waves in Periodic Lattices,” manuscript with notes, 1973

Box 6

Folder 9

“Impact Excitation and Polarization,” draft with notes and correspondence, article offprints, 1973

Box 7

Folder 1

Correspondence, charts, manuscripts, and reprints, 1972-1993

Box 7

Folder 2

Atomic physics, correspondence, articles, and notes, 1972-1990

Box 7

Folder 3

“Barrier to Electron Passage,” draft with notes, correspondence, and article offprints, 1972-1973

Box 7

Folder 4

Spectroscopy, article offprints, drafts, 1971-1975

Box 7

Folder 5

Electron-molecule collisions, manuscript with notes, correspondence, and article offprints, 1971-1972

Box 7

Folder 6

Theory of photodetachment, correspondence with notes, 1971

Box 7

Folder 7

“Spin Orbit,” manuscript with notes, correspondence, and article offprints, 1971

Box 8

Folder 1

Remarks on the theory of inelastic electron atom collisions, graph, 1970

Box 8

Folder 2

“Radiation Science,” correspondence, manuscript, symposium proceedings, 1969-1973

Box 8

Folder 3

Herzberg, quantum defect theory, notes and correspondence, 1969-1970

Box 8

Folder 4

“Quantum Defect Theory,” draft, correspondence, research notes, 1969

Box 8

Folder 5

Spectral distribution of atomic oscillator strengths, notes, articles, graphs, and correspondence, 1969

Box 8

Folder 6

Atomic potential wells, graphs, no date

Box 8

Folder 7

Photoelectron spectra, correspondence with graphs and data summaries, 1969

Box 8

Folder 8

He⁺ (Helium ion), articles, drafts, and notes, 1968-1974

Box 8

Folder 9

“Spin Orientation,” erratum and addendum, drafts, article offprints, notes, and correspondence, 1968-1969

Box 8

Folder 10

Graphs, 1968

Box 8

Folder 11

Photoionization, article offprints, drafts, 1967-1974

Box 9

Folder 1

Article reprints, 1966-1990

Box 9

Folder 2

Correlation in atoms, article offprints, drafts, 1966-1967

Box 9

Folder 3

“Interference in Photoionization of Molecules,” draft with notes, articles, 1965

Box 9

Folder 4

Many-Shell matrix elements, correspondence and notes, 1965

Box 9

Folder 5

Turner sum rules, drafts, reports, graphs, and correspondence, 1964-1965

Box 9

Folder 6

Line profiles, graphs, correspondence, 1964

Box 9

Folder 7

“Particle Precession,” drafts, no date

Box 9

Folder 8

Article Reprints 1963-87

Box 9

Folder 9

Forward scattering exclusion, article offprints, correspondence, and graphs, 1963-1964

Box 9

Folder 10

Review article for Annual Review of Nuclear Science, notes, presumably for an article; correspondence, 1963

Box 9

Folder 11

Pressure shifts and broadening, draft with research notes, 1962-1975

Box 10

Folder 1

Bonn, molecular collisions, article offprints, 1962-1969

Box 10

Folder 2

Racah Memorial, field configurations and parameters, notes and article offprints, 1962-1967

Box 10

Folder 3

Interactive matrix elements, floating parity group, correspondence, notes, 1962

Box 10

Folder 4

Pressure broadening, article offprints, drafts, 1961-1967

Box 10

Folder 5

Inelastic collisions with helium, line and continuum, research notes, correspondence, 1961

Box 10

Folder 6

Polarization in quantum mechanics, research notes, 1960

Box 10

Folder 7

I.I. Rabi, article reprint and memorial volume, 1959, 1988

Box 10

Folder 8

Collision theory literature, article offprints, 1959-1962

Box 11

Folder 1

Dipole interaction, research notes, correspondence, 1959

Box 11

Folder 2

Article Reprints 1957-1988

Box 11

Folder 3

Research notes and correspondence, 1957

Box 11

Folder 4

Reviews of Modern Physics colloquia papers, drafts, article offprints, correspondence, 1956-1992

Box 11

Folder 5

Raman Research Institute, article reprints, 1956-1957

Box 11

Folder 6

Density matrix, graph, correspondence, research notes, 1956

Box 11

Folder 7

Dielectric theory, graphs and correspondence, 1956

Box 11

Folder 8

Nuclear gamma ray scattering, report, three article offprints, research notes, 1955-1958

Box 11

Folder 9

Article reprints, 1954-1983

Box 11

Folder 10

Articles by Biedenharn, Rabi, Wolf, article reprints, photocopies, correspondence, 1953-1998

Box 11

Folder 11

“Structure of Tracks,” drafts, notes, and correspondence, 1953-1969

Box 11

Folder 12

Klein-Nishina polarization, research notes, no date

Box 11

Folder 13

Cathode-Luminescence, research notes, no date

Box 12

Folder 1

Article reprints, 1951-91

Box 12

Folder 2

“Penetration and Diffusion,” (National Bureau of Standards), Part 1, article offprints, some with related correspondence, 1950-1971

Box 12

Folder 3

“Penetration and Diffusion,” (National Bureau of Standards), Part 2, article offprints, some with related correspondence, 1950-1971

Box 12

Folder 4

Radiation science, article reprints and correspondence, 1947-1990

Box 12

Folder 5

“Penetration and Diffusion,” (non National Bureau of Standards), article offprints, some with related correspondence, 1947-1974

Box 12

Folder 6

“Straggling of Number of Ions,” article offprint, correspondence, 1946

Box 12

Folder 7

Article for Hollaender’s book, graphs, article offprint, 1944

Box 13

Folder 1

Articles by Biedenharn, Rabi, Wolf, 1937-1983

Box 13

Folder 2

Diffraction gratings, Kikuchi Envelopes, article offprints, correspondence, research paper abstract, 1935-1973

Box 13

Folder 3

Bremsstrahlung, deceleration radiation literature, article offprints, notes, 1934-1977

Box 13

Folder 4

Article reprints by Fermi, Amaldi, Gatto, Scheel, 1934-1972

Box 13

Folder 5

Literature on photoabsorption, article offprints, drafts, sets of graphs, 1932-1971

Box 13

Folder 6

Articles and manuscripts by Racah, Wick, 1932-1954

Box 13

Folder 7

Article reprints by Sommerfeld, Bethe, Feynman, 1931-54

Box 14

Folder 1

Articles by Rach, Wick, 1930-1949

Box 14

Folder 2

Molecular problems, Part 1, article offprints, drafts, 1967-1975

Box 14

Folder 3

Molecular problems, Part 2, article offprints, drafts, 1928-1966

Series II: Correspondence

Series II contains Ugo Fano's correspondence with colleagues in the field of physics, as well as conversations with his former and current students, ranging from 1966 to 1998. This series contains handwritten and typed correspondence, diagrams and brief notes on research. Materials are arranged alphabetically by correspondent. Edward Teller's poem, "The Meson Song," can be found in this subseries, as well as a letter for Niels Bohr inviting Fano to Copenhagen.

Box 15

Folder 1

Burke, P.G., 1966-1996

Box 15

Folder 2

Cavagnero, Michael, 1988-1995

Box 15

Folder 3

Chang, Tu-nan, 1973-1987

Box 15

Folder 4

Chang, E.S., 1970-1990

Box 15

Folder 5

Clark, Charles W., 1979-1993

Box 15

Folder 6

Dehmer, Joe, 1987-1996

Box 15

Folder 7

Dill, Dan, 1973-1979

Box 15

Folder 8

Giusti-Suzor, Annick, 1980-1987

Box 15

Folder 9

Greene, Chris H., 1980-1997

Box 15

Folder 10

Harmin, David, 1983-1996

Box 15

Folder 11

Knipp, Peter, 1990-1996

Box 16

Folder 1

Lee, C.M., 1974-1992

Box 16

Folder 2

Lee, Chun Woo, 1987-1993

Box 16

Folder 3

Lin, C.D., 1974-1996

Box 16

Folder 4

Lu, K.T., 1971-1997

Box 16

Folder 5

Macek, J.H. 1967-1997

Box 16

Folder 6

Meudon, France, 1980-1981

Box 17

Folder 1

O'Mahony, Patrick, 1985-1995

Box 17

Folder 2

Rau, ARP, 1988-1998

Box 17

Folder 3

Rau, ARP, 1971-1987

Box 17

Folder 4

Satrace, A.F., 1975-1997

Box 17

Folder 5

Sidkey, E.Y., 1993-1997

Box 17

Folder 6

Stephens, Jeff, 1987-1996

Box 18

Folder 1

Correspondence, "The Meson Song," 1946-1991

Box 18

Folder 2

Theodosiou, Constantine, 1977-1982

Box 18

Folder 3

Vinitsky, S., 1980, 1990

Box 18

Folder 4

Watanabe, Shinichi, 1988-1997

Box 18

Folder 5

Watanabe, Shinichi, 1981-1987

Box 18

Folder 6

Wick, G.C., 1937

Series III: Conferences

Series III contains Fano's lecture materials for conferences. Series III has been arranged chronologically. This series includes lecture notes, graphs, transparencies, and literature from conferences.

Box 19

Folder 1

Electron-Impact Symposium, 1995

Box 19

Folder 2

Conference on atomic spectra in external fields, 1987

Box 19

Folder 3

Symposium in honor of Ugo Fano, 1982

Box 19

Folder 4

Ravello Conference on many body problems, 1963

Box 19

Folder 5

Gatlinburg Conference, 1958-1960

Series IV: Teaching

Series IV: Teaching, contains a variety of course and lecture materials. This includes class lecture notes, quizzes, transparencies, and course plans. This series has been arranged chronologically.

Box 19

Folder 6

Physics 197, Spring 1982

Box 19

Folder 7

Physics 439, notes, Autumn 1980

Box 19

Folder 8

Physics 439, lectures, Autumn 1980

Box 19

Folder 9

Physics 234, Spring 1978; Physics 235, Autumn 1978

Box 19

Folder 10

Courses and outlines, 1971-1975

Box 20

Folder 1

Physics 236, Winter 1969

Box 20

Folder 2

Notes for courses, 1946-1956

Box 20

Folder 3

Lecture notes, 1949

Box 20

Folder 4

Lecture notes, Teoria di Born Dell'Urto

Box 20

Folder 5

Lecture notes, 1933

Box 20

Folder 6

Lecture notes, 1932-1933

Box 21

Folder 1

Lecture Notes, no date

Series V: Organizations

Series V contains material from scientific organizations of which Fano was a member, as well as administrative records from the University of Chicago's Franck Institute and the Department of Physics. Material in this series includes minutes from meetings, literature from organizations, and correspondence. This series is organized alphabetically by organization.

Box 22

Folder 1

Accademia Nazionale Dei Lincei, 1998

Box 22

Folder 2

Accademia Nazionale Dei Lincei, 1993-1995

Box 22

Folder 3

American Academy of Arts and Sciences, records, 1995-1998

Box 22

Folder 4

American Academy of Arts and Sciences, literature, 1975-1998

Box 22

Folder 5

Carnegie Institution of Washington, 1998

Box 22

Folder 6

National Academy of Sciences panel-Physics section, 1996-1997

Box 23

Folder 1

National Academy of Sciences, 1998-1999

Box 23

Folder 2

National Academy of Sciences, 1989-1995

Box 23

Folder 3

Physics and Astronomy classification scheme, 1993

Box 23

Folder 4

Radiology Physics, no date

Box 23

Folder 5

Royal Society, book, 1997

Box 23

Folder 6

Royal Society, literature, 1995-1998

Series VI: Academic Employment

Series VI contains Fano's academic employment records. This includes curriculum vitae, reprints of his academic papers, correspondence about his employment at the University of Chicago

and at the National Bureau of Standards, and hiring materials. This series has been arranged chronologically.

Box 24

Folder 1

National Bureau of Standards and earlier work, correspondence, awards, contracts, photos, correspondence regarding his loyalty in 1946-1949, 1939-1995

Box 24

Folder 2

Employment at the University of Chicago, 1966

Box 24

Folder 3

Ugo Fano's curriculum vitae, academic works, correspondence, article reprints, notes, 1974-1975

Box 24

Folder 4

Proposals, reports, research, 1975-1984

Box 24

Folder 5

Ugo Fano's curriculum vitae, 1990-1995

Series VII: Personal

Series VII contains Fano's personal materials. This includes his memoirs, photos, and publication notes for all his articles from 1934 to 1985. This series also includes a photograph of Ugo Fano's father, Gino Fano. Series VII has been arranged chronologically.

Box 25

Folder 1

Memoirs, notes, article offprints, 1998

Box 25

Folder 2

Interviews and anecdotes, 1982-1997

Box 25

Folder 3

Drawings and photos, 1979-1982

Box 25

Folder 4

Drawings and photos, 1947-1975

Box 25

Folder 5

Gino Fano, pictures, correspondence, book, 1934-1991

Box 25

Folder 6

Publication notes, 1976-1985

Box 25

Folder 7

Publication notes, 1968-1975

Box 25

Folder 8

Publication notes, 1953-1966

Box 25

Folder 9

Publication notes, 1934-1952

Series VIII: Books

Series VIII, Books, contains five books from Fano's library. Three are authored or co-authored by Fano himself; all include hand-written notes about the science presented in the books. This series has been arranged chronologically.

Box 26

Folder 1

Symmetries in Quantum Physics, 1996

Box 26

Folder 2

Basic Physics of Atoms and Molecules, 1954

Box 26

Folder 3

Irreducible Tensorial Sets, 1954

Box 26

Folder 4

Die Atomkerne, 1937

Box 26

Folder 5

Lezioni Di Calcolo Differenziale Assoluto, 1925

Series IX: Restricted

Series IX, Restricted, contains personnel records, student evaluations and letters of recommendations, graded student work, and financial reports. Materials in Box 27 are restricted for 30 years. Materials in Box 28 are restricted for 50 years. Materials in Box 29 are restricted for 80 years.

Box 27

Folder 1

Referee Reports, 1990-1998

Box 28

Folder 1

Employment at the University of Chicago, 1968-1981

Box 28

Folder 2

Employment at the University of Chicago, 1982-1998

Box 28

Folder 3

National Science Foundation Grant, Financial Materials, 1992-1999

Box 28

Folder 4

James Franck Institute, Hiring Materials and Personnel, 1990

Box 29

Folder 1

Physics 436, Winter 1987

Box 29

Folder 2

Students, pictures, admission materials, 1976-1996

Box 29

Folder 3

Physics 436, Winter 1972

Box 29

Folder 4

Physics 236, Winter 1971

Box 29

Folder 5

Physics 236, Winter 1970

Box 29

Folder 6

Physics 235, Autumn 1970

Box 29

Folder 7

Physics 235, Autumn 1969

Box 29

Folder 8

Physics 236, Winter 1969

Box 29

Folder 9

Physics 235, Autumn 1968

Box 29

Folder 10

Berkeley, 1968

Box 29

Folder 11

Physics 480, Spring 1968

Box 29

Folder 12

Physics 213, Autumn 1967

Box 29

Folder 13

Physics 436-7, Winter, Spring 1967

Box 29

Folder 14

NBS Course B10, 1948-1949

Box 29

Folder 15

B2 course, 1947-1948

Box 29

Folder 16

Minutes of Physics Department meetings, student evaluations, 1994-1999

Box 29

Folder 17

Minutes of Physics Department meetings, student evaluations, 1974-1993

Box 29

Folder 18

Student Letters of Recommendation, 1967-1989