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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 neurons 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
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
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
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
Box 3
Folder 7

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

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
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

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

13
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
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

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**

**Box 25**
**Folder 6**
Publication notes, 1976-1985

**Box 25**
**Folder 7**
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