

Steven Weinberg:

An Inventory of His Papers at the Harry Ransom Center

Descriptive Summary

- Creator:** Weinberg, Steven, 1933-2021
- Title:** Steven Weinberg Papers
- Dates:** 1933-2021 (bulk 1980-2021)
- Extent:** 155 document boxes (65.1 linear feet), 1 oversize box (osb), 1 oversize folder (osf), 104 electronic files. The acquisition also includes books.
- Abstract:** The papers of American theoretical physicist, professor, and Nobel laureate Steven Weinberg consist of research files, notes and calculations, correspondence, typescript drafts (including electronic files), page proofs, lecture notes, lecture slides, royalty statements, and other materials relating to his research, publications, lectures, and teaching.
- Call Number:** Manuscript Collection MS-54182
- Language:** English, German, Italian, and Russian
- Access:** Open for research. Original documents containing personal information, such as social security numbers and educational records, are restricted due to privacy concerns during the lifetime of individuals mentioned in the documents. When possible, redacted photocopies of these materials are provided in place of the original documents. Researchers must create an online Research Account and agree to the Materials Use Policy before using archival materials. To request access to electronic files, please email [Reference](#).
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Administrative Information

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Repository: [Harry Ransom Center, The University of Texas at Austin](#)

Biographical Sketch

Theoretical physicist and professor Steven Weinberg was born on May 3, 1933, in New York, New York, to Eva Israel and Frederick Weinberg. By the age of 15, Weinberg had decided to become a physicist and he entered the Bronx High School of Science, where he became friends with Gerald Feinberg and Sheldon Glashow. After graduating from high school in 1950, Weinberg and Glashow attended Cornell University, earning degrees in 1954. Weinberg then attended the University of Copenhagen's Institute for Theoretical Physics (now the Niels Bohr Institute) and began to do research in physics. He completed his graduate studies at Princeton University, earning his Ph.D. in 1957; his thesis was on the application of renormalization theory to the effects of strong interactions in weak interaction processes.

Weinberg then worked at Columbia University (1957-1959) and the Lawrence Berkeley Laboratory (1959-1960) before joining the faculty of University of California, Berkeley as an assistant professor in 1960, becoming a full professor there in 1964. Weinberg also became a member of the JASON scientific advisory group of government defense consultants in 1960. Weinberg joined the faculty of Massachusetts Institute of Technology (MIT) in 1969, and in 1973 he became the Higgins Professor of Physics at Harvard University. He was also a Senior Scientist at the Smithsonian Astrophysical Observatory from 1973 until 1983, at which time he became a Senior Consultant. In 1982, Weinberg joined the physics and astronomy department of The University of Texas at Austin as the Jack S. Josey-Welch Foundation Chair in Science and Regental Professor of Physics, and he founded and was director of the Theory Research Group there.

Focusing on astrophysics in the early 1960s, Weinberg wrote his first book, *Gravitation and Cosmology: Principles and Applications of the General Theory of Relativity* (1972). During that decade, he worked on current algebra, broken symmetries, and renormalization theory, and in 1967 he proposed the electroweak theory, a unified theory of electromagnetic and weak interactions, for which he received the Nobel Prize in Physics in 1979, shared with Sheldon Glashow and Abdus Salam. Weinberg presented his model—which used the spontaneous symmetry breaking to explain the mass of force carriers, predicted the Higgs boson, and led to development of the full standard model of elementary particle theory—in his paper "A Model of Leptons" (1967), one of the most cited theoretical papers in high-energy physics. Weinberg wrote hundreds of papers, primarily in the areas of effective field theory, electroweak unification, and symmetry-related topics, as well as seventeen books, including nine for general readers. Among his technical books are those resulting from lectures he developed for the classes he taught, including *Cosmology* (2008), *Foundations of Modern Physics* (2021), *Lectures on Astrophysics* (2019), *Lectures on Quantum Mechanics* (2012), and three volumes of *The Quantum Theory of Fields* (1995-2000). His books for popular readers include *Dreams of a Final Theory* (1993), *The First Three Minutes: A Modern View of the Origin of the Universe* (1977), and collections of published essays, such as *Facing Up: Science and Its Cultural Adversaries* (2001) and *Lake Views: The World and the Universe* (2010). Besides the Nobel Prize, Weinberg was awarded numerous other prizes

and honors for his work in elementary particle physics and cosmology, including the National Medal of Science (1991).

Weinberg married law professor Louise Goldwasser on July 6, 1954, and their daughter Elizabeth was born in 1963. Louise Weinberg joined the faculty at the University of Texas School of Law in 1980, and the Weinbergs permanently moved to Austin when Steven Weinberg accepted his position at the University in 1982. In Austin, the Weinbergs were members of the Headliners Club (Weinberg served on the board of governors of the Headliners Foundation from 1994 to 2017), the Philosophical Society of Texas, the Tuesday Club (founding members, 1986), a book group, a poetry group, and other organizations. Steven Weinberg died on July 23, 2021, in Austin, Texas.

Sources:

In addition to material found within the Steven Weinberg Papers, the following sources were used:

"Steven Weinberg". *The Royal Society*, 2022, <https://royalsociety.org/people/steven-weinberg-12503/>.

"Steven Weinberg: Biographical". *NobelPrize.org*, Nobel Prize Outreach AB 2023, 2023, <https://www.nobelprize.org/prizes/physics/1979/weinberg/biographical>.

Scope and Contents

The papers of American theoretical physicist, professor, and Nobel laureate Steven Weinberg consist of research files, notes and calculations, correspondence, typescript drafts (including electronic files), page proofs, lecture slides, class lecture notes, royalty statements, and other materials relating to his research, publications, lectures, and teaching. The papers date from 1933 to 2021 (bulk 1980-2021), with copies of published versions of works by others dating from 1897, and are arranged in five series: I. Subject Files, 1974-2021; II. Books and Publishing Files, 1963-2021; III. Teaching Files, 1975-2021; IV. Personal Materials, 1933-2021; and V. Louise Weinberg, 1968-2021. The Index of Correspondents in this finding aid contains box and folder locations for all correspondence in the collection. The Index of Manuscript Works by Others contains box and folder locations for all manuscript works by others except for works co-authored by Weinberg, which are described in the Container List.

Series I. Subject Files forms the bulk of the papers, with 124.5 document boxes of files containing preprints, reports, and published versions of journal articles by Weinberg and others; drafts by Weinberg and others; notes; class lecture notes; lecture slides; referee's reports, publication submission information, and correspondence associated with Weinberg's work. The majority of the files reflect Weinberg's interests in particle physics, unification of fundamental interactions, and cosmology. Subject files are related to Weinberg's research, papers, talks, teaching, books, essays, organizations, awards, and

general interest topics. Because most of the files date from 1980 on, they represent his later work rather than his early work leading up to his 1967 electroweak theory. Weinberg's file titles have been retained (although acronyms, abbreviations, and symbols have been spelled out) and are indicated by single quotes.

The files have been arranged in alphabetical order by the Ransom Center, but files about the same subject can be scattered throughout the series. For example, the file titled 'Quantum Cosmic Correlation' is filed under the letter Q, but the file titled 'Cosmological Correlations' is filed under the letter C. Most files contain reports, preprints, and published versions of journal articles by other scientists; some of these have markings or annotations by Weinberg, and these are noted in folder descriptions. Enclosure notes or inscriptions written to Weinberg by the author are not noted unless they are extensive, in which case they are included in the Index of Correspondents at the end of this finding aid.

Although Weinberg's early work leading to his electroweak unification theory is not represented, heavily revised typescripts of his four Bampton lectures "On the Art of Science" include discussions of his early discoveries, as do his memoirs (located in Series IV). A file on "The Making of the Standard Model" contains correspondence, typescripts, and other materials relating to Weinberg's historical review at a 2003 CERN symposium as well as his statement about the future. The file on "The Conceptual Basis of the Standard Model" includes a typescript of Weinberg's concluding lecture at a 50th anniversary symposium held at Case Western Reserve University in 2018.

Work at Harvard on properties of the axion in the late 1970s is reflected in a file titled 'Axions' that contains handwritten drafts, typescripts, and correspondence relating to Weinberg's articles "A New Light Boson?" (early title "Instantons Without Axions: Further Comments on the Problem of CP Nonconservation") and the unpublished "A Current-Algebraic Description of the Axion" (co-authored with Michael Peskin), as well as works by others.

In 1979, Weinberg reworked his electroweak unification theory to incorporate renormalization, which led to the development of a theory of quantum gravity, and those topics are represented in the subject files. Weinberg's work from 1980 until his death in 2021 is well represented, including his last published articles, "Massless Particles in Higher Dimensions" and "On the Development of Effective Field Theory". Weinberg's 'Correspondence' files date from 2011 to 2021 and also contain references to and drafts of later works such as "Models of Lepton and Quark Masses".

Some subject files relate to a specific paper published by Weinberg and can include correspondence about its publication or discussions with other physicists. For example, the 'Adiabatic Correspondence' file regarding "Adiabatic Modes in Cosmology" contains pre-publication correspondence about comments and input on Weinberg's work by other scientists, while the "In-In Formalism" file includes correspondence regarding Weinberg's questions about other scientists' work. Correspondence can include enclosures of printouts of LaTeX files of proofs or comments sent as part of the exchange. Correspondence about an article's publication, usually with Physical Review Letters, is often present; for example, the file 'CP and ΔB in Cosmology' holds Weinberg's correspondence about his article "Cosmological Production of Baryons", including his responses to referee's reports and changes made for publication. All

correspondence is listed in this guide's Index of Correspondents.

Weinberg usually published solo journal articles but occasionally co-authored works with others, and some subject files relate to those collaborations. For example, the 'Gomis (Joaquim)' files contain Weinberg's correspondence with Gomis as well as typescript drafts of research articles they wrote together. Similarly, the 'D'Hoker (Eric)' file contains not only correspondence, typescripts, notes, and printout data regarding Weinberg and D'Hoker's 1994 article "General Effective Actions", but also referees' reports and correspondence with each other and with *Physical Review Letters* and *Physical Review D* about its submission and publication.

Although materials relating to Weinberg's books and teaching are also located in Series II and Series III, subject files often relate to the development of his lecture material in preparation for teaching or publishing. For example, the 'Cosmic Microwave Background Ionizing and Polarization' file includes articles by others and correspondence consulting with others during preparation for Weinberg's PHY 396T Cosmology course. The 'Vafa – Witten Supersymmetry Breaking' file consists of research articles used as references and correspondence with Cumrun Vafa seeking clarification or understanding of topics during the process of writing *The Quantum Theory of Fields, Volume II*.

Other subject files pertain to Weinberg's essays, talks, projects, and various subjects of interest to Weinberg. For example, Weinberg was involved with the Superconducting Super Collider (SSC) particle accelerator, and files relating to that project and its cancellation, as well as to his essays about science funding, "The Crisis of Big Science" (2012) and "The Missions of Astronomy" (2009), and an opinion editorial about funding for 'Manned Space Flight' (2010), are also present. Many files represent Weinberg's interest and writing about the history of science. The state of Israel was also of interest to Weinberg, and a file relates to his 2009 Trinity College debate justifying Israel's actions in Gaza.

Series II. Books and Publishing Files consists of material primarily relating to publication of Weinberg's books, both technical and for general readers, but also regarding proposed books and reprints of his essays. Included are typescripts, page proofs, corrections and updates, advertisements, publishing agreements, royalty statements, reviews, marketing questionnaires, and correspondence, all dating from 1963 to 2021. Because many of Weinberg's books were textbooks that grew out of lecture notes for courses he taught, the files can also include lecture notes, syllabuses, problem sets, and similar class materials. Compilations of published versions of works by Weinberg conclude the series; the numbered articles correlate to Weinberg's lists of his publications that are located in folder 13.8 and 150.10. Additional typescripts and materials relating to Weinberg's books may also be found scattered throughout Weinberg's subject files in Series I and in his teaching files in Series III.

Series III. Teaching Files comprises class lecture notes, problem sets, homework solutions, exams, syllabuses, evaluations, rosters, grade sheets, and handwritten notes dating from 1975 to 2021 and arranged alphabetically by course title. Many of the lecture notes have a table of contents and are numbered by chapters and sections. Additional lecture notes and teaching materials are scattered throughout Weinberg's subject files in Series I and are also located with Series II files for books that were based on the lectures.

Series IV. Personal Materials dates from 1933 to 2021 and includes documents, business cards, membership cards, cultural entertainment ephemera, snapshots and paper copies of photographs, and typescript chronologies and drafts of Weinberg's memoirs, which were written with Louise Weinberg's assistance. Among materials filed with memoirs are the Weinbergs' curricula vitae, a photoduplicate of Weinberg's high school graduation program, correspondence, and a typescript and proofs of Weinberg's 2001 University of Texas commencement speech in which he criticized the lack of legislative funding to make the university a top research institution.

Series V. Louise Weinberg consists of her passport, notes, household receipts, printouts of Steven Weinberg's obituaries, and class materials, all dating from 1968-2021. The class materials include handwritten lecture notes from courses taught by Professor Trautman at Harvard Law School and lecture notes, readings, and syllabuses from her own Admiralty Law teaching at the University of Texas. Correspondence and other materials relating to Louise Weinberg may be found scattered in other series. Business cards, membership cards, her CV, and typescript essays she wrote are located in Series IV, and the published version of her essay "Is It All Right to Read Trollope?" (1993) is located in the 'Rochester 1962' subject file in Series I. Louise Weinberg assisted Steven Weinberg with his memoirs, located in Series IV, and also provided editorial assistance to him on other writings, so her comments and revisions are present on drafts of his works throughout the papers.

An explanation of terms used in the finding aid to describe materials:

- **annotations**--marginalia; handwritten notes, usually mathematical notes, calculations, or figures, but can include a citation of where the paper was published or prose notes; located in margins or sometimes on versos
- **correspondence**--includes printouts of email
- **lecture notes**--class handouts and teaching notes; Weinberg variously called these handouts, class notes, and lecture notes; some served as class textbooks, with later versions being the basis of his published books
- **lecture slides**--includes printouts, transparencies, and viewgraphs
- **markings**--usually handwritten lines underlining, circling, or otherwise marking particular passages in a text or entries in a list of references; can also be a handwritten "x" or a question mark in a margin
- **notes**--usually pages of mathematical notes or calculations
- **preprints**—articles or papers not yet published in peer-reviewed journals, sometimes disseminated through an institutional repository or in later years on preprint servers like arXiv; also includes talks, lectures, or conference papers that were later published in conference proceedings or elsewhere
- **published versions**--used in lieu of version of record; refers to the peer-reviewed version of a paper that was published in a refereed scholarly journal, either in print or online. Early ones can be the original or photoduplicated printed texts, reprints or offprints, while later ones are usually printouts from electronic journals or electronic platforms

- **reports**--technical reports describing and communicating scientific research prior to its publication; distributed internally or wider by an organization (companies, universities, or government laboratories) and usually created using federal funds; reports that were later published are sometimes referred to as preprints
- **review copy typescripts**--reviewers' copies of typescripts submitted to a journal; those with review copy stamps on them are included in folder descriptions, but other reports or typescripts have numbers and a date of receipt and are likely also review copies
- **revisions**--handwritten corrections or revisions of any extent
- **tearsheets**--photoduplicated or original pages removed from periodicals, usually general interest or news articles
- **typescripts**--used in lieu of the term working papers; no distinction is made between printouts and typescripts or between photoduplicates and originals except when needed to indicate whether any handwriting present is original or prior to photoduplication

Note on physical processing: Paper clips were replaced with paper sleeves. Staples were removed when they bound together original manuscripts, correspondence, or fragile materials or as needed to prevent damage due to rust or sharp points.

Related Material

The Arno A. Penzias Papers at the Library of Congress contain Steven Weinberg correspondence.

Weinberg-related holdings at The Niels Bohr Library & Archives at the American Institute of Physics include lecture notes from a physics class on Elementary Particles – Weak Interactions taught by Weinberg in March 1959; transcripts and audio recordings of oral history interviews of Weinberg conducted by Alan P. Lightman on 5 and 10 May 1988 (as part of a Cosmology Interview Project series), by Finn Aaserud on 28 June 1991, and by David Zierler on August 20, 2020; a video recording of a conference titled "QFT and QCD: Past, Present, and Future," 18 and 19 March 2005; and similar recordings.

Separated Material

Bound volumes include Weinberg's books and anthologies in which his writing appeared.

Index Terms

People

Bahcall, John N.
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Fischler, Willy.
Flauger, Raphael.
Georgi, Howard.
Ghirardi, G. C.
Glashow, Sheldon L.
Gomis, Joaquim
Henneaux, Marc.
Holton, Gerald James.
Hooft, G. 't.
Jackiw, Roman W.
Komatsu, Eiichirō.
Matzner, Richard A. (Richard Alfred), 1942- .
Polchinski, Joseph Gerard.
Preskill, John.
Salam, Abdus, 1926-1996.
Silvers, Robert B.
Sokal, Alan D., 1955- .
Susskind, Leonard.
Weinberg, Louise.
Wheeler, John C.
Vafa, Cumrun.
Vilenkin, A. (Alexander).

White, Martin.

Wilczek, Frank.

Witten, E.

Organizations

Cambridge University Press.

Harvard University. Press.

Janklow & Nesbit Associates.

University of Texas at Austin. Department of Physics.

Subjects

Arab-Israeli conflict.

Astrophysics.

Cosmology.

Particles (Nuclear physics).

Physics.

Physicists--United States.

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Document Types

Book reviews.

Business cards.

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Textbooks.

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Typescripts.

Series I. Subject Files, 1974-2021, undated (with published materials dating from 1897)

- '1/ N .' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); photocopy handwritten manuscript by Mark Wise; correspondence, 1974-1981 **Container** 1.1-2
- '1/ N and Quantum Chromodynamics (QCD).' Published versions of journal articles by others; revised typescript of "36.4 The Pion Problem" for proposed book The Quantum Theory of Fields, Volume IV by Weinberg, 1978-1979, circa 2010 **Container** 1.3
- '1/ N_c and Baryons.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); published version of "Algebraic Structure of Superconvergence Relations" by Weinberg; handwritten notes; correspondence, 1969, 1979, 1983-1994 **Container** 1.4-5
- '(2 + ϵ) -Dimensional Gravity 1997.' Reports, preprints (hep-th), and published versions of journal articles by others (one with markings by Weinberg), 1991-1997 **Container** 1.6
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- 'Adiabatic and Michael V. Berry.' Published versions of journal articles by others (some with annotations by Weinberg); handwritten notes (on folder), 1928, 1984, undated **Container** 1.8
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- Alpha Decay. Published versions of journal articles by others (one with annotations by Weinberg); printout Wikipedia online article with notes; typescript by Walter Loveland with annotation by Weinberg; handwritten notes; department emails, 1908-1989 **Container** 2.6
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- 'American Vacuum Society Lecture Aug 2021.' Correspondence, 2020-2021 **Container** 3.1

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Reports, preprints (including hep-ph), and published versions of journal articles by others (some with annotations by Weinberg); typescripts of "Are Nonrenormalizable Gauge Theories Renormalizable?" by Weinberg and J. Gomis (1995) and "General Effective Actions" by Weinberg and E. D'Hoker (1994); handwritten notes; faxed handwritten notes by A. Duncan; database search results; correspondence, 1972-1996 **Container**
3.5-7

'Anomalies and Gauginos.' Reports, preprints (including hep-ph and hep-th), published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes (on folder); correspondence, 1978-1999 **Container**
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'Anomalies and Instantons 2.' Reports, preprints, published book excerpt, and published versions of journal articles by others; handwritten notes, 1980-1984 **Container**
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'Anomalies and Instantons 3.' Reports, preprints, published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg); photocopy revised typescript by P. Frampton and T. Kephart; handwritten notes (including on folder), 1971-1984 **Container**
4.3-4

'Anthropic Principle and γ .' Reports, preprints, published book excerpt, and published versions of journal articles by others (one with markings by Weinberg); tearsheets; published version of "Anthropic Bound on the Cosmological Constant" by Weinberg 1987; handwritten notes (on folder); correspondence, 1957-1988 **Container**
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'Anthropic Stuff.' Reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); revised typescript page of [section 8.1 "Linear Perturbations after Recombination"] "6.5 After Last Scattering" from Weinberg's book Cosmology, 1986, 1997-2004 **Container**
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'Anthropics and Λ / Bubbles.' Reports, preprints, and published versions of journal articles by others; tearsheets; published version of "Likely Values of the Cosmological Constant" by Weinberg, H. Martel, and P. Shapiro, 1987-2007 **Container**
5.1

'Anti de Sitter / Conformal Field Theory (AdS/CFT)' Report, preprints (arXiv), and published versions of journal articles by others; typescript of "Conformal Symmetry for Timelike Separations" lecture notes by Weinberg; correspondence, 1981, 2000-2012 **Container**
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Asymptotic Safety (for a talk at a 2010 gravity conference on general relativity). Reports, preprints (including arXiv), and published versions of journal articles by others (one with annotations by Weinberg); typescript by M. Niedermaier with markings by Weinberg; typescript of "Asymptomatically Safe Inflation" by Weinberg; preprint (arXiv) of "Effective Field Theory for Inflation" by Weinberg with annotations; handwritten notes (including on folder); correspondence, 1977-1995, 2001-2010	Container 7.3-5
"Asymptomatically Safe Inflation" by Weinberg. Reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes (including on folder); correspondence, 2003-2010	Container 7.6
"At Last –What Sort of World Is This?" by Weinberg. Published version in whole issue of Forbes ASAP: The Big Issue, 2 December 1996	Container 155.8

'Atlas Shrugged.' Revised typescripts of "Review of Ayn Rand's Atlas Shrugged" by Weinberg; editorial comments, possibly by Louise Weinberg; tearsheets; printout online articles; correspondence, 2007-2012. With travel and contact information, undated	Container 7.7
Atoms and Ions / Dissipation. Preprint (arXiv) and published versions of journal articles by others (one with annotation), 1995-2015	Container 7.8
'Auxiliary Fields.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg), 1977-1983	Container 8.1
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- 'Brane Inflation.' Reports, preprints (arXiv), and published versions of journal articles by others (some with markings by Weinberg), 1966, 1983, 1998-2007 **Container** 10.11, 11.1
- 'Brane Worlds.' Reports, preprints (arXiv), and published versions of journal articles by others (one with markings by Weinberg), 1999-2000 **Container** 11.2
- 'Breakthrough Prize.' Revised draft and final press release; clippings and printouts of online news articles; prize documents; correspondence, 2020. With typescript first draft and second version of a script by Molly Murphy, undated **Container** 11.3
- 'Breakthrough Prize Nominations' for the Selection Committee for the 2022 Breakthrough Prize. Correspondence, 2020-2021 **Container** 11.4
- 'Chaos.' Preprint and published version of article by others, 1984 **Container** 11.5
- 'Chew Memorial.' Typescripts (one with revisions) of "Interactions with Geoff Chew" contribution by Weinberg to Geoffrey Chew: Architect of the Bootstrap; correspondence, 2020 **Container** 11.6

'Chiral Effective Quantum Field Theory (EQFT).' Reports, preprints (hep-ph, nucl-th), and published versions of journal articles by others; correspondence, 1995-1997	Container 11.7-9, 12.1
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'Collapse Anthology' (proposed Weinberg contribution to a Wavefunction collapse anthology by Shan Gao). Preprints (including arXiv) and a published version of a journal article by others; printouts of Wikipedia online articles; typescripts (2013, two with annotations) of an early version of "Quantum Mechanics Without State Vectors" by Weinberg, titled "Seeking Departures from Quantum Mechanics" and "Collapse of the Density Matrix"; annotated typescript of section 6.8 "Rabi Oscillation and Ramsey Interferometers" from Lectures on Quantum Mechanics by	Container 13.8

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'Commencement Talk at The University of Texas, 12/11/88: Sources.' Typescript commencement speeches by others; published versions of journal articles by others; typescript book review by Yu-Chi Ho; newsletters and bulletins; press release on Bobby Ray Inman's speech; tearsheets; clippings; handwritten notes (including an outline of Weinberg's speech, on folder); correspondence, 1986-1989

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"The Conceptual Basis of the Standard Model" (concluding remarks by Weinberg at SM@50: The Standard Model at 50 Years: A Celebratory Symposium at Case Western Reserve University, Ohio, 1-4 June 2018). Preprint (arXiv) of "Memories of Murray and the Quark Model" by George Zweig; published versions of journal articles by others; tearsheets; printout of Wikipedia online article; typescript by William A. Press and Ann K. Finkbeiner (with annotations by Weinberg); typescript of Weinberg's lecture (filename lectures.cwru); published versions of "Feynman on God and His Granny" (review of The Meaning of It All by Richard Feynman), "Hierarchy of Interactions in Unified Gauge Theories" (with H. Georgi and H. R. Quinn), "The Laws of Nature," "Likely Values of the Cosmological Constant" (with Hugo Martel and Paul Shapiro), and "Non-Abelian Gauge Theories of the Strong Interactions" by Weinberg; transcript of interview of Weinberg by István Hargittai, 1971-2018. With clipping of "George S. Gotrocks Hears the Call of the Wild" by Sue Brandt McBee and snapshot photographs of Weinberg hunting at Bucksrag Hunting Club with Frank McBee, 1985, and printout of Austen Riggs Center biography of Elizabeth Weinberg, 2012 (see also 'Standard Model Book')

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'Conformal Field Theory (CFT)' for PHY 396T, Topics in Quantum Field Theory, Spring 2010. Reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes; revised typescript of "Outline of a Proof of Scale and Conformal Invariance for Renormalizable Massless Theories with a Wilsonian Fixed Point" by Weinberg; correspondence, 1956-2010	Container 16.1-4
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- 'Consistency Conditions.' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg); typescript of "General Effective Actions" by Weinberg and E. D'Hoker; correspondence, 1971-1995 **Container**
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- 'Constrained Hamiltonian Systems.' Published versions of journal articles and a published book excerpt by others, 1964-1989 **Container**
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- 2011-2016. Correspondence; published versions of journal articles by others; typescripts by Andrew B. Abel, John H. Dee, and Robert B. Scott; published version of "The Thirteen Best Science Books for the General Reader" by Weinberg with typescript letter of correction from Weinberg; typescript of [section 4.4] "3.4 Spiral Arms" from Lectures in Astrophysics and revised typescript page of "12.3 Quantum Computation" from Lectures in Quantum Mechanics by Weinberg; list of blurbs for To Explain the World; prospectus for Tunnel Visions (a film about the SSC) by Katie Folger and Jacques Colimon **Container**
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- Reports, preprints, and published versions of journal articles by others (one with corrections); published book excerpt by S. W. Hawking and W. Israel; tearsheets; photocopy published text of Shelter Island II, edited by Weinberg and others; correspondence, 1932, 1948, 1974-1988 **Container** 20.7
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- '1982-83.' Reports, preprints, and published versions of journal articles by others; tearsheets; typescript (two copies, one with revisions) of "Anthropic Bound on the Cosmological Constant" by Weinberg titled "Anthropic Estimate of the Cosmological Constant" (1987); list of references handwritten by Paul ____; handwritten lecture notes on "Cosmons: J. Solá, C. Wetterich,"; correspondence, 1963-1987 **Container** 21.5-6, 22.1
- '1980s.' Reports, preprints, and published versions of journal articles by others (one with marking by Weinberg); tearsheets; published version of "Anthropic Bound on the Cosmological Constant" by Weinberg; typescript by Sidney Coleman and Kimyeong Lee; review copy typescript by E. T. Tomboulis with Weinberg's referee's report and Tomboulis's reply; withdrawn review copy typescript by Milan B. Mijić; correspondence, 1983-1991 **Container** 22.2-4
- ' Λ (Cosmological Constant) and Anthropic 1997.' Reports, preprints (including arXiv, astro-ph, gr-qc, hep-ph, nucl-th), and published versions of journal articles by others; tearsheets; preprints of "Theories of the Cosmological Constant" by Weinberg; published versions of "Anthropic Bound on the Cosmological Constant" by Weinberg and "Likely Values of the Cosmological Constant" by Weinberg, H. Martel, and P. Shapiro (with annotations by Weinberg), 1987, 1995-2000 **Container** 22.5-6
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'Georgi-Quinn-Weinberg Calculations.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); referee's report on and published version of "Hierarchy of Interactions in Unified Gauge Theories" by Weinberg, H. Georgi, and H. R. Quinn; handwritten notes; photocopy handwritten manuscript by Bill Marciano and A. Sirlin; correspondence, 1974-1982	Container 41.5-7, 42.1
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'Jerusalem Lectures on Strings.' Reports, preprints, and published versions of journal articles by others (one with annotation by Weinberg); correspondence, 1986-1989 **Container**
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' ν (Neutrino) Masses' ' ν (Neutrino) Oscillations.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); clipping; tearsheets; typescripts by John Bahcall, F. P. Calaprice, D. Großer; R. P. Feynman and P. Vogel, J. LoSecco and P. Frampton, S. Nandi (with calculations by Weinberg on verso), and S. P. Rosen; photocopies of handwritten transparencies by R. J. N. Phillips; correspondence, 1953, 1969, 1972-1982. With grocery list, undated	Container 65.6-7, 66.1-4
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'New – Age of Universe.' Abstract, preprints (including arXiv), and published version of journal article by others; tearsheets, 1998-2003	Container 66.6
'New – Anthropic.' Preprints (including arXiv) and published versions of journal articles by others, 2000-2003	Container 66.7
'New – Baryonsynthesis.' Reports, preprints (arXiv), and published versions of journal articles by others (some with markings by Weinberg); tearsheets; marked published version of "Cosmological Production of Baryons" by Weinberg, 1978-2004	Container 66.8, 67.1
'New – Cosmic Microwave Background (CMB).' Preprints (arXiv) and published versions of journal articles by others (one with markings by Weinberg); tearsheets, 1984-2003	Container 67.2
'New – Cosmic Microwave Background (CMB) Fluctuations.' Reports, preprints (including arXiv), and published versions of journal articles by others (some with annotations by Weinberg); tearsheets; printout figure with handwritten additions; typescript course notes by Edmund Bertschinger, 1983-2002	Container 67.3-6
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'New – Dark Matter.' Reports, preprints (arXiv, hep-ph), and published versions of journal articles by others (some with markings by Weinberg); tearsheets; handwritten notes, 1996-2004	Container 68.1-5
'New – Distances.' Preprints (arXiv) and published versions of journal articles by others; tearsheets, 1982-2004	Container 68.6-7
'New – Fractal Structure.' Reports, preprints (arXiv, astro-ph), and published versions of journal articles by others; whole issue of New Scientist; correspondence, 1996-2002	Container 69.1
'New – Galaxy Formation.' Preprints (including arXiv) by others; figures by J. Bullock; tearsheets, 1993-2002	Container 69.2
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'New – Quintessence.' Reports, preprints (arXiv), and published versions of journal articles by others, 2000-2002	Container 70.4
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- Non-Gaussianity and Adiabatic Lectures. Lecture slides (some with revisions), including inflation PowerPoint slides, 'nongauss08.tex' file, and lecture at Texas A&M University; typescript (filename 'so/vay.2') of Comments by Steven Weinberg; typescript 'corrected version' and preprint (arXiv) of "Non-Gaussian Correlations Outside the Horizon II: The General Case" by Weinberg (2008); handwritten notes (on folder), circa 2007-2008 **Container** 72.6
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74.1-3
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74.4
- 'Nuclear Power'
- Tearsheets and clippings (some with annotations by Weinberg); printout news articles; Department of Energy report, 2011-2014, 2017, 2019 **Container**
74.5-6
- '2019.' Clipping, undated **Container** 74.7
- "On the Art of Science" (lectures by Weinberg at Columbia University as part of the Bampton Lectures in America, December 1983)
- 'Bampton Lectures.' Typescript pages (some with revisions); transcripts of speaker introductions, lectures, and question and answer sessions, undated **Container**
74.8
- 'Bampton Originals.' Handwritten drafts and revised typescripts; revised transcript pages; correspondence, 1983-1984 **Container**
75.1
- 'Bampton Talk Materials.' Report and published versions of journal articles by others; marked typescript by Arthur Jaffe; published version of "Recent Progress in Gauge Theories of the Weak, Electromagnetic and Strong Interactions" by Weinberg; handwritten notes; correspondence, 1934-1984 **Container**
75.2-3
- Typescripts with revisions; transcript of speaker introduction, August 1984, undated **Container**
75.4
- "On the Development of Effective Field Theory" by Weinberg
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'Rutherford to LHC 2011.' Typescripts (one with revisions) of the original lecture, titled "From Rutherford to the LHC"; typescripts of the article (some with revisions or editor's comments); typescript of the text box on "Effective Field Theories"; proofs; published version; correspondence, 2011	Container 76.5
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'Path Integral.' Reports, preprints, and published versions of journal articles by others; typescript by Joseph Polchinski; photocopy handwritten notes in unidentified hand; correspondence, 1951, 1978-1981	Container 77.4-5
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- Time Reversal and Lindblad Equation. Published version of a journal article by Pearle and others; correspondence, 2013 **Container** 78.1
- 'Peris (Santiago), Pelaez (José) on Tetraquarks.' Preprint and a published version of a journal article by others; diagrams; typescripts of "Tetraquark Mesons in Large- N Quantum Chromodynamics" (filename 'exotics') by Weinberg; correspondence, 2004-2013 (see also 'Tetraquarks') **Container** 78.2
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- 'Philosophy.' Published versions of journal articles and published book excerpts by others (some with markings by Weinberg); tearsheets; clippings (some with markings); printout library catalog and database search results; typescript by A. A. Penzias; revised transcript of Weinberg's Albert Einstein Memorial Lecture on "The Beautiful Theories," 1954-1991 **Container** 78.4-5
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- 'Poems.' Published versions of poems by others, 2009-2010 **Container** 79.2
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82.6-8
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- Preprints and published versions of journal articles by others; published book excerpt (with notes on verso by Weinberg); printout Wikipedia online article; typescript of "Collapse of the State Vector" by Weinberg; handwritten notes; correspondence, 1966-2011 **Container**
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'Quasi-Riemannian.' Reports, preprints, and published versions of journal articles by others (some with annotations); typescripts by Casey Blood and S. P. de Alwis; typescript by K. S. Viswanathan and B. Wong with typescript referee's report; photocopy handwritten notes on "Varieties of Geometry" by Weinberg; revised typescript notes by Larry Biedenharn about brown bag seminar questions; correspondence, 1953-1989	Container 85.1-4
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'Religion Article.' Published version of "Catholic Judges and Cooperation in Sin" by Edward A. Hartnett; tearsheets and clippings (some with markings); printouts of online news articles and website pages; pamphlets; typescript by Benjamin Beit-Hallahmi; typescript and handwritten notes; transcript of Weinberg's testimony on Texas biology textbooks at a Texas State Board of Education hearing, 1997-2013	Container 86.4
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- Saslow (Wayne). Published versions of journal articles by Wayne M. Saslow about thermodynamics history; correspondence, 2020 **Container** 87.4
- 'Seiberg (Nathan).' Reports, preprints (hep-ph, hep-th), and published versions of journal articles by Nathan Seiberg and others; printout database search results, 1983-1999 **Container** 87.5
- 'Seiberg (Nathan) – Witten (Edward).' Reports, preprints (including hep-th), and published versions of journal articles (some with markings by Weinberg); annotated typescript page of section 29.5 from The Quantum Theory of Fields, Volume III; handwritten notes; printout database search results; correspondence, 1977-1999 **Container** 87.6-8
- 'Semiclassical and Induced Gravity.' Reports, preprints and published versions of journal articles by others (one with annotations by Weinberg), 1975-1983 **Container** 87.9, 88.1-2
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- 'Slovak Academy Talk.' Correspondence, 2019 **Container** 89.6
- 'Smolin (Lee)' for "Living in the Multiverse" by Weinberg. Preprints (arXiv) and published versions of journal articles by Lee Smolin; typescript by Leonard Susskind; correspondence, 1992-2005 **Container** 89.7
- Soft Bremsstrahlung. Abstracts, preprints (arXiv), published book excerpts, and published versions of journal articles by others; handwritten notes (including on folder); correspondence, 1929-2018 **Container** 90.1-2
- "Soft Bremsstrahlung" by Weinberg. Typescripts; handwritten notes; referee's reports; resubmittal and response to referee reports; correspondence, 2018-2020 **Container** 90.3
- 'Soft π (pion) -1990.' Published versions of journal articles by others; correspondence, 1980-1992 **Container** 90.4

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- 'Solar ν (neutrino) Detection.' Reports, preprints, and published versions of journal articles by others (one with calculations by Weinberg); handwritten notes; message from Katie Freese; correspondence, 1974-1988 **Container** 90.7-8, 91.1
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- 'Space Policy Article 2013.' Typescript and proofs by Robert J. Rovetto; typescripts and proofs of "Response: Against Manned Space Flight Programs" by Weinberg; publication correspondence, 2013 **Container** 91.5
- 'Spin.' Reports, preprints, published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg); handwritten manuscripts and revised typescript of "Limits on Massless Particles" by Weinberg and E. Witten (1980), with correspondence about corrections and publication in Physics Letters B and a list of preprint recipients; handwritten notes (on folder); telephone message; correspondence, 1939, 1961-1981 **Container** 91.6, 92.1
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- Spiral Structure. Published versions of journal articles by others (some with markings by Weinberg); typescript by Joshua Barnes, 1936-2013 **Container** 92.4
- 'Standard Model Book' (contribution by Weinberg to proposed book The Standard Model at 50, edited by Harsh Mathur and Glenn Starkman). Transcripts of Weinberg's lecture "The Problems of Quantum Mechanics" at SM@50: The Standard Model at 50 Years: A Celebratory Symposium at Case Western Reserve University; typescript of "Lindblad Decoherence in Atomic Clocks" by Weinberg; typescript notes for talk; correspondence, 2020 **Container** 92.5
- 'Steven Weinberg Follow-Ups' [on his work by others]

- '1990-92.' Reports, preprints, and published versions of journal articles by others (one with figures by hand and one with markings by Weinberg); typescripts by Vineer Bhansali and by S. D. Odintsov and I. L. Shapiro, 1983, 1990-1992 **Container** 92.6
- '1993-94.' Reports, preprints, and published versions of journal articles by others (one with an annotation by Weinberg on the verso); review copy typescripts by C. Goneru and by S. Ferrara and M. Porrati; typescript by Nicholas Maxwell, 1990-1994 **Container** 92.7, 93.1
- '1995-97.' Reports, preprints (including hep-ph and hep-th), and published versions of journal articles by others; correspondence, 1992-1998 **Container** 93.2-4
- 'Steven Weinberg on BRST Cohomology.' Typescripts (one with revisions) of "General BRST Cohomology" (withdrawn article) by Weinberg; revised typescript of chapter 17 "Renormalization of Gauge Theories" (titled "16.5 BRST and Gauge Theory Renormalization") from *The Quantum Theory of Fields, Volume II* by Weinberg; handwritten notes; correspondence, 1995 **Container** 93.5
- 'Steven Weinberg on Cosmology.' Published versions of "*A Priori* Probability Distribution of the Cosmological Constant," "Adiabatic Modes in Cosmology," "Conference Summary" of 20th Texas Symposium on Relative Astrophysics, "Cosmological Fluctuations of Small Wavelength," "Curvature Dependence of Peaks in the Cosmic Microwave Background Distribution," "Dumping of Tensor Modes in Cosmology," "Fluctuations in the Cosmic Microwave Background. I. Form Factors and Their Calculation in the Synchronous Gauge," "Fluctuations in the Cosmic Microwave Background. II. C_ℓ at Large and Small ℓ ," "Likely Values of the Cosmological Constant" (with H. Martel and P. Shapiro), and other journal articles by Weinberg (some with annotations by Weinberg); preprint (arXiv) of version 1 of "The Cosmological Constant Problems" with annotations by Weinberg; typescript of section "8.4. An Anthropic Calculation" originally for Weinberg's book *Cosmology* but possibly used for "Living in the Multiverse"; typescript lecture notes on "1980 Euphoria→Dismay" (filename Kitp04.txt); lecture slides on "Best Fit Cosmological Parameters" (filename toront04), with revisions), "Inflation" (filename atast04.tex), "Perturbations Are in a Goldstone Mode" (filename pascos04), and "Perturbed Robertson-Walker Metric: (Newtonian Coordinates)," 1987-2004 **Container** 93.6
- 'String Classics' 'String Anomalies.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); published book by P. Ginsparg; photocopy handwritten notes by Bryce DeWitt; handwritten notes (on folder); typescript calculation; correspondence, 1978-1993 **Container** 93.7, 94.1-3
- 'String Cosmology.' Reports and preprints (arXiv) by others (some with markings by Weinberg), 2007; handwritten notes (on folder) **Container** 94.4
- 'String Duality 1995-96.' Reports and preprints (hep-th) by others, 1993-1997 (see also 'Dual Strings') **Container** 94.5-6

'String Lectures'

Reports, preprints, and published versions of journal articles by others (one with annotation by Weinberg); photocopy revised typescript preliminary draft by Philip Nelson, 1985-1988 **Container**
94.7,
95.1-3

'Complex Manifolds.' Reports and preprints by others, 1987-1988 **Container**
95.4

'String Loops.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg), 1969-1986 **Container**
95.5-6,
96.1-2

'String Math.' Reports, preprints, and published versions of journal articles by others; typescript table of contents and introduction to work by I. B. Frenkel et al., 1979-1985 **Container**
96.3-4

'String Phenomenology Reviews.' Reports, preprints, and published versions of journal articles by others, 1985-1986 **Container**
96.5

'String Vertex Operators.' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg), 1985-1986 **Container**
96.6

'String Xeroxes.' Photocopy handwritten lecture notes by Orlando Alvarez, David Gross, Philip Nelson, and in unidentified hand; including the spring 1985 String Seminar lecture outline, 1984-1985 **Container**
96.7, 97.1

'Strings'

Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); photocopy handwritten manuscript "We parameterize the torus..."; published version of "Coupling Constants and Vertex Functions in String Theories" by Weinberg; handwritten notes (on folder), 1966-1985 **Container**
97.2-4

Report and published versions of journal articles by others; photocopy handwritten notes on Spinors in Higher Dimensions, 1969-1985 **Container**
97.5-6

'Classics.' Reports, preprints, and published versions of journal articles by others; tearsheets (one with mathematical notes and grocery list on verso); published version of "Causality, Antiparticles, and the Spin-Statistics Connection in Higher Dimensions" by Weinberg, 1970-1994 **Container**
97.7,
98.1-2

'1995-96.' Reports, preprints (including hep-ph and hep-th), and published versions of journal articles by others, 1992-1995 **Container**
98.3

'1997.' Reports, preprints (including hep-ph and hep-th), and published versions of journal article by others; tearsheets, 1995-1997 **Container**
98.4-6

'Strings and Becchi-Rouet-Stora (BRS).' Reports, preprints, and published versions of journal article by others, 1983-1986	Container 98.7, 99.1
'Strings and Particles 1990-92.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); typescript preliminary draft by Joseph Polchinski with annotations by Weinberg; handwritten notes, 1980-1992	Container 99.2-6
'Strings at $E \gg M_p$.' Reports, preprints, and published versions of journal articles by others, 1987-1988	Container 99.7
'Strong Interactions 1999 August.' Reports and preprints (including hep-ph, nucl-th) by others, 1998-1999	Container 100.1
'SU(3) Holonomy.' Preprint and published versions of journal articles by others, 1984-1986	Container 100.2
Sudetenland. Printout news article, 2011	Container 100.3
'Sum Rules and Large N_c .' Reports, preprints, and published versions of journal articles by others; typescript by W. Broniowski et al.; published version of "Axial Vector Coupling of the Quark" by Weinberg; handwritten notes; correspondence, 1991-1994	Container 100.4
'Superconducting Super Collider (SSC)' Report by Michael Chanowitz; photocopy of annotated typescript by P. W. Anderson; typescript by Leon Lederman with annotations by Weinberg; tearsheets; clippings; typescript page about Austin Chalk; typescript timeline, notes and quotations, and table of contents for Dreams of a Final Theory; annotated SSC Laboratory tour maps; published copy of To the Heart of Matter: The Superconducting Super Collider, 1970-1991	Container 100.5
'Subpanel Background.' Reports and published journal articles by others (some with markings); tearsheets; clippings; handout for Carlo Rubbia's paper at 1989 CERN seminar; HEPAP subpanel memos, lists, draft agenda; committee report, 1988-1989	Container 100.6-8
'Talks – Background.' Reports, preprints, and published versions of journal articles by others; tearsheets; published version of "Newtonianism, Reductionism and the Art of Congressional Testimony" by Weinberg; typescript of Weinberg's 1987 testimony to U. S. Congressional committees; typescript page about Austin Chalk; photocopy and original handwritten notes; photocopy notes on "SSC Talk" in unidentified hand; overhead transparencies, 1985-1988	Container 101.1
'1989 Testimony.' Congressional hearings testimony by others; committee news release; tearsheets; correspondence, 1987-1989	Container 101.2

'Superconductivity'

Published versions of journal articles and published book excerpt by others; correspondence, 1959-1972 **Container**
101.3

Reports, preprints, published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg, one with annotations by Carlos _____); typescript by J. Polchinski; typescript by R. Shankar with annotations by Weinberg; revised typescript of "Effective Action and Renormalization Group Flow of Anisotropic Superconductors" by Weinberg titled "Free Energy and Renormalization Group Flow of Anisotropic Superconductors" (1993); handwritten notes; two sets of photocopy handwritten notes on "Superconductivity in General"; correspondence, 1957-1993 **Container**
101.4-6

'Supercurrent.' Preprint, published book excerpt, and published versions of journal articles by others; marked printout of database search results, 1975-1998 **Container**
102.1

'Supergraphs.' Reports, preprints and published versions of journal articles by others (some with annotations by Weinberg); typescript rough draft by W. Fischler et al.; correspondence, 1975-1983 **Container**
102.2-4

'Supergravity'

Published versions of journal articles by others (some with annotations by Weinberg); typescript pages "30.2 Weak Fields: The Energy-Momentum Superfield" of The Quantum Theory of Fields, Volume III by Weinberg, 1941-1982 **Container**
102.5

'Miscellaneous.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); typescript lectures by J. Wess; handwritten notes; correspondence, 1970, 1976-1983 **Container**
102.6-8,
103.1

'Phenomenology.' Reports, preprints, and published versions of journal articles by others (some with annotations); typescript by R. M. Barnett et al.; typescript by Glennys R. Farrar with annotations by Weinberg, 1983 **Container**
103.2-3

'Superstring Phenomenology.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes (on folder), 1983-1986 **Container**
103.4-7

'Superstring Scales.' Report, preprint, and published versions of journal articles by others (one with annotation by Weinberg), 1985 **Container**
104.1

'Superstrings I.' Reports, preprints, and published versions of journal articles by others (one with annotation by Weinberg), 1978-1985 **Container**
104.2-4

'Supersymmetry (SUSY)'

Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); typescripts by D. H. Tchrakian, 1945, 1971-1982	Container 104.5-8
'1990-92.' Reports and published versions of journal articles by others; tearsheets; typescript of "Supersymmetry and Unification" by R. Arnowitt and P. Nath, 1990-1992	Container 105.1
'1998.' Reports, preprints (hep-ph, hep-th), and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes; correspondence, 1979-1998	Container 105.2-6
'July 1999.' Reports, preprints (hep-ex, hep-ph, hep-th), published book excerpt, and published versions of journal articles by others; photocopy handwritten notes; correspondence, 1972-1999	Container 106.1-3
'August 1999.' Reports, preprints (hep-ph, hep-th), and published versions of journal articles by others (some with annotations by Weinberg); typescript by M. J. Duff, 1981-1999	Container 106.4-7
'Classics.' Published versions of journal articles by others, 1971-1974	Container 107.1
'Cosmology.' Preprints (astro-ph, hep-ph) by others, 1997	Container 107.2
'CP Violation.' Reports, preprints (including hep-ph), and published versions of journal articles by others (some with annotations by Weinberg); published version of "Larger Higgs-Boson-Exchange Terms in the Neutron Electric Dipole Moment" by Weinberg; correspondence, 1979-1998	Container 107.3-5
' ΔB .' Reports, preprints, and published versions of journal articles by others, 1982-1983	Container 107.6
'Experiment.' Reports, preprints (including astro-ph and hep-ph), and published versions of journal articles by others, 1996-1998	Container 107.7-8
'Grand Unified Theory (GUT).' Reports, preprints, and published versions of journal articles by others (one with annotations); preliminary typescript by C. S. Aulakh and R. N. Mohapatra; typescripts by M. Dine and W. Fischler and Jihn E. Kim; 'superpreliminary' typescript by S. Dimopoulos and F. Wilczek with handwritten notes by Weinberg on verso; photocopy handwritten manuscript by T. W. Kephart, 1980-1982	Container 107.9, 108.1
'Grand Unified Theories (GUTS).' Reports, preprints (including hep-ph), and published versions of journal articles by others (one with a marking), 1981-1997	Container 108.2
'Graphs.' Preprint (hep-ph) by others, 1997	Container 108.3

'Introduction.' Reports and preprints (including hep-ph) by others (one with a marking by Weinberg), 1985-1997	Container 108.4
'Kaluza-Klein (KK).' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg); typescript by P. C. West; photocopy handwritten manuscript by M. Duff, 1977-1983	Container 108.5-7
'Models.' Reports, preprints (including hep-ph), published book excerpts, and published versions of journal articles by others (some with markings by Weinberg), 1983-1997	Container 108.8-9, 109.1
'Models of Supersymmetry Breaking.' Reports, preprints (hep-ph), and published versions of journal articles by others, 1982-1999	Container 109.2-3
'Phenomenology.' Reports, preprints, and published versions of journal articles by others; typescript by R. M. Barnett and K. S. Lackner; typescript by Glennys R. Farrar with annotations by Weinberg; photocopy handwritten seminar notes labeled 'Raby 9/13/83'; correspondence, 1982-1983	Container 109.4-6
'Proton Decay.' Reports, preprints (hep-ph), and published versions of journal articles by others (one with annotations by Weinberg); published versions of "Baryon- and Lepton-Nonconserving Processes" and "Varieties of Baryon and Lepton Nonconservation" by Weinberg; marked printout database results; correspondence, 1979-1998	Container 109.7-8
'Read Spring 1999.' Reports, preprints (astro-ph, hep-ph, hep-th), published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg); photocopy handwritten manuscript by J. Gomis; annotated typescript pages on "Noether Charge and Symmetry Transformations" (1999); revised typescripts of sections 29.5 "The Seiberg-Witten Solution" and 32.3 "p-Branes" from The Quantum Theory of Fields, Volume III by Weinberg; handwritten notes (including on folder); printout database search results; correspondence, 1974-1999. With air flight information, 1999	Container 110.1-6
'Solving Supersymmetry Gauge Theory.' Reports, preprints (including hep-th), and published versions of journal articles by others (some with markings by Weinberg); handwritten notes (on folder); correspondence, 1975-1999	Container 110.7, 111.1
'Standard Model.' Reports, preprints (hep-ph), and published versions of journal articles by others (one with notes by Weinberg on verso); correspondence, 1984, 1991-1998	Container 111.2-3
'Supersymmetry at Finite Temperature (T).' Published versions of journal articles by others; printout of database search results with markings, 1981-1989	Container 111.4

- 'Supersymmetry in Arbitrary Dimensions.' Reports, preprints (including hep-th), and published versions of journal articles by others (one with annotations by Weinberg); tearsheets; photocopy handwritten lecture notes by J. Gomis; Gomis's typescript comments on Weinberg's draft of chapter 31 in *The Quantum Theory of Fields*, Volume III, with annotations by Weinberg; correspondence, 1976-1998 **Container** 111.5-7
- 'Vacuum Energy and Inflation.' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg); handwritten manuscripts by Don Page; correspondence, 1980-1983 **Container** 111.8, 112.1
- 'Supersymmetry and Cosmological Constant.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg); published version of "Supergravity as the Messenger of Supersymmetry Breaking" by Weinberg, L. Hall, and J. Lykken; handwritten notes (on folder), 1983-1988 **Container** 112.2
- 'Supersymmetry, Strings, and Cosmological Constant.' Reports, preprints (arXiv, astro-ph, gr-qc, hep-ph), and published versions of journal articles by others, 1999-2000 **Container** 112.3
- 'Technicolor.' Reports, preprints and published versions of journal articles by others (some with Weinberg's annotations); typescript by Edward Farhi and L. Susskind with mathematical calculations on verso by Weinberg, 1979-1987 **Container** 112.7, 113.1-2
- 'Technicolor' 'Dynamical Symmetry Breaking.' Reports, preprints, and published versions of journal articles by others (some with annotations by Weinberg and Kenneth Lane); typescript by Philip D. Mannheim; review copy typescript by L. Susskind with annotations by Weinberg; published versions of "The Future of Unified Gauge Theories" and "Implications of Dynamical Symmetry Breaking" by Weinberg; annotated photocopy handwritten manuscript by Kenneth Lane; correspondence, 1976-1983 **Container** 113.3-7, 114.1
- ' $T \neq 0$ (Temperature other than absolute zero) Quantum Field Theory (QFT)' for PHY 396T, Topics in Quantum Field Theory, Spring 2010 course. Preprints (arXiv), published book excerpt, and published versions of journal articles by others; published version of "Gauge and Global Asymmetries at High Temperature" by Weinberg; correspondence, 1960, 1974, 1990-2009 **Container** 114.2-3
- 'Tetraquarks.' Reports, preprints (arXiv) and published versions of journal articles by others (one with annotations by Weinberg); correspondence, 1990-2013 (see also 'Peris (Santiago), Pelaez (José) on Tetraquarks.')
- 'Tetraquarks' 'Exotics and Large N .' Reports, preprints (arXiv) and published versions of journal articles by others; typescript of "Tetraquark Mesons in Large- N Quantum Chromodynamics" by Weinberg; handwritten notes; correspondence, 1977-2013 **Container** 114.5

- "t Hooft Foreword 2013' (Foreword by Weinberg for Time in Powers of Ten by Gerard 't Hooft and Stefan Vandoren). Typescript of Introduction; typescripts of Foreword by Weinberg; publisher's brochure; correspondence, 2013 (see also Third Thoughts) **Container** 114.6
- 'Three-gluon Operator.' Reports, preprints, and published versions of journal articles by others; review copy typescripts by Eric Braaten et al. and Hai-Yang Cheng; annotated typescript and review copy typescript by Probir Roy; typescripts, preprint, and published version of "Unitarity Constraints on CP Nonconservation in Higgs-Boson Exchange" by Weinberg, 1990; published version of "Larger Higgs-Boson-Exchange Terms in the Neutron Electric Dipole Moment" by Weinberg, 1989; handwritten notes; correspondence, 1985-1990 **Container** 114.7-8
- 'Three-nucleon (NNN) and NN π .' Reports, preprints, and published versions of journal articles by others; typescript referee's report on "Chiral Lagrangians and Nuclear Forces" by C. Ordóñez and U. van Kolck; correspondence, 1973-1992 **Container** 115.1-2
- 'Times Op Ed Sept. 2009.' Typescripts (one with revisions) and clipping of the published version of "Change Course" contribution by Weinberg to "College Advice from People Who Have Been There Awhile"; agreement; correspondence, 2009, undated **Container** 115.3
- 'Top Quark.' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg); tearsheets; handwritten notes, 1979, 1989 **Container** 115.4
- 'Town and Gown Talk.' Correspondence, 2020 **Container** 115.5
- 'Trinity College Debate (arguing for justification of Israel's actions in Gaza) 2009.' Tearsheets; clippings; printout news articles; transcripts of talks about Israel and Palestine; handwritten and typescript notes; typescripts of remarks by Weinberg; correspondence, 2006-2009 **Container** 115.6-8
- "The Trouble with Quantum Mechanics" by Weinberg. Reports, preprint by J. Bricmont and S. Goldstein, and published versions of journal articles by others; tearsheets; published version (with markings) of "Non-Abelian Gauge Theories of the Strong Interactions" by Weinberg; correspondence, 1955-2019 **Container** 124.5
- 'UCLA 4/27/2021' ("Massless Particles" talk by Weinberg for the Mani L. Bhaumik Institute Distinguished Lecture series). Lecture slides; published version (with markings) of "Essay: Half a Century of the Standard Model" by Weinberg; typescript preprint of "Massless Particles in Higher Dimensions" by Weinberg; correspondence, 2018, 2020, 2021 **Container** 115.9
- "Upper Bound on Gauge Fermion Masses" by Weinberg. Revised version typescript of report; original and photocopy handwritten notes, 1982, undated (removed from binder) **Container** 115.10

User guides to University of Texas email, voicemail, Netscape, hep-ph e-print software, LaTeX, Mathematica, UTSLIP, and other software; Wolfram Research Technical Report; keyboard overlay, 1990-1998	Container 125.3-4
'UT History.' University of Texas Centennial brochures and programs, 1981, 1983; with photocopies of research material	Container 116.1
'Vafa – Witten Supersymmetry Breaking' (for The Quantum Theory of Fields, Volume II). Published versions of journal articles by C. Vafa, D. Weingarten, and E. Witten; correspondence, 1983-1995	Container 116.2
"Varieties of Supergravity" by Weinberg. Revised typescript; handwritten notes and draft pages; correspondence, 1981-1982 (removed from binder)	Container 116.3
"Varieties of Symmetry" by Weinberg (article based on a talk at a symmetry conference, Technical University of Budapest, August 2009)	
'Symmetry Article Comments 2011.' Typescript of Weinberg's reply to Jeremy Bernstein's letter to the editor; agreement; correspondence, 2011	Container 116.4
'Symmetry Journal 2011.' Typescript and page proofs; correspondence, 2010-2012	Container 116.5
'Vertex Operators (Tree).' Reports, preprints and photocopies of journal articles by others, 1985-1988	Container 116.6
'Vilenkin (Alexander) 1999.' Preprint (astro-ph) and published versions of journal articles by A. Vilenkin and others (some with markings by Weinberg); typescript by A. Vilenkin and J. Garriga; typescripts (two with annotations) of " <i>A Priori</i> Probability Distribution of the Cosmological Constant" by Weinberg; handwritten notes; article submission printouts; correspondence, 1983-2000	Container 116.7-8
' $W_L Z_L$ as Goldstone Bosons.' Reports, preprints and photocopies of journal articles by others (one with markings by Weinberg); correspondence, 1985-1990	Container 116.9
'Weak Lensing'	
Preprints (arXiv) and published versions of journal articles by others (some with annotations by Weinberg), 1991-2004	Container 117.1
Reports, preprints (arXiv), abstracts (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); tearsheets; handwritten notes, 1990-2006	Container 117.2-3
'Wise (Mark).' Report, preprint, and photocopies of journal articles by others; handwritten notes; correspondence, 1984-1988	Container 117.6

'WZH.' Reports, preprints, and published versions of journal articles by others (one with annotations by Weinberg); tearsheets, 1978-1983 **Container**
117.7

Works by Weinberg (various)

Typescripts of "Can Missile Defense Work?" (titled "The Missile Defense Debate") and "Nuclear Terror: Ambling Toward Apocalypse"; preprint (arXiv) of "Tensor Microwave Background Fluctuations for Large Multipole Order" (with Raphael Flauger); published versions of "Can Science Explain Everything? Anything?", "Changing Attitudes and the Standard Model" (in *The Rise of the Standard Model*), "Confronting O'Brien" (in *Living Philosophies: The Reflections of Some Eminent Men and Women of Our Time*), "Entropy Generation and the Survival of Proto-Galaxies in an Expanding Universe," "Eyewitness 1967: My Eureka Moment," "From BCS to the LHC," "The Future of Science, and the Universe," "The Growing Nuclear Danger," "Response: Against Manned Space Flight Programs," "Steven Weinberg: 2002 Humanist of the Year" (acceptance speech for the 2002 Humanist of the Year Award), "To the Postdocs," "The Wrong Stuff," and other works by Weinberg, 1962-2007 **Container**
118.6

Typescripts of Testimony before the Senate Committee on Foreign Relations with Scientists Statement on the Moscow Summit and "Without God"; preprint (arXiv) of Conference Summary of 20th Texas Symposium on Relativistic Astrophysics; typescript and published version of "Chronicle of a Complex Physicist" (review of *Oppenheimer: Portrait of an Enigma* by Jeremy Bernstein); published versions of "Bryce Seligman Dewitt," "Conceptual Foundations of the Unified Theory of Weak and Electromagnetic Interactions" (Nobel address), "Die Endgultige Theorie vor Augen" (in German), "Einstein's Search for Unification" (in *Einstein: A Hundred Years of Relativity*), "Four Golden Lessons," "Living in the Multiverse" (symposium talk, published in *Universe or Multiverse?*), "The Making of the Standard Model," "Physics and History," and other works by Weinberg, 1974-2008 **Container**
118.7

Typescripts of "The Cosmological Constant Problems" (talk at Dark Matter 2000) and "Loop Contributions to Cosmological Correlations"; preprint (arXiv) of "Collapse of the State Vector"; published versions of "Einstein's Mistakes," "Lindblad Decoherence in Atomic Clocks," "Minimal Fields of Canonical Dimensionality Are Free," "Non-Gaussian Correlations Outside the Horizon" (I and II), "Quantum Mechanics without State Vectors" (with marking), "Remarks on Gravitational Radiation," "Six-Dimensional Methods for Four-Dimensional Conformal Field Theories. II. Irreducible Fields," "Soft Bremsstrahlung," "Tetraquark Mesons in Large- N Quantum Chromodynamics," "What Happens in a Measurement?" (with annotation), and other works by Weinberg, 1969-2019. With revised list of publications by Weinberg, 2007, and published version of work by F. Benatti and H. Narnhofer, 1988 **Container**
119.1

Works by Others

Reports, preprints (primarily arXiv), published book excerpts, and published versions of journal articles by others (some with annotations or calculations on versos by Weinberg); tearsheets; printouts of Wikipedia and other online articles; printout of LIGO online catalog; typescripts by D. Baumann et al., Jeremy Bernstein, Scott Dodelson et al., S. S. Gershtein et al., Pierre C. Hohenberg, Bryan W. Lynn, David Lyth and M. Karčiauskas, M. Musso, G. Ryskin, and Norman Sheppard; typescript pages by John Jacobs; lecture slides by Zvi Bern et al.; preprint (arXiv) of "Collapse of the State Vector" by Weinberg; published versions of "Effective Field Theories in the Large- $\rightarrow N$ Limit," "Feynman Rules for Any Spin III," "Pions in Large N Quantum Chromodynamics," "Ultraviolet Divergences in Cosmological Correlations," and other works by Weinberg; handwritten notes; printout homework solutions; travel itinerary; typescript letter to Fellow Quantum Mechanics from Jeremy Bernstein; correspondence, 1929, 1935, 1950, 1951, 1969, 1977-2019 (primarily 2008-2012)

Container
119.2-7,
120.1-7,
121.1-6,
122.1-6,
123.1-7,
124.1-3

Preprint (arXiv) and published versions of journal articles by others; published versions of "Anthropic Bound on the Cosmological Constant" and Goldstone Bosons as Fractional Cosmic Neutrinos" by Weinberg, 1987-2016

Container
124.4

Untitled / Unidentified Notes

Handwritten notes (one page with red correction and some with checkmarks), possibly about dark energy models and the cosmological constant, circa 2008 (removed from binder)

Container
124.7

Handwritten notes and printout Mathematica computation files (filenames cmb4.nb, cmb6.nb) with annotations (removed from binder)

Container
124.8

Handwritten notes, undated

Container 124.9

Series II. Books and Publishing Files, 1963-2021 (published material dating from 1899) (see also Subject Files and Teaching Files)

Cosmology (2008)

Revised typescript titled "A Short Course in Modern Cosmology" with handwritten notes; problem sets and class rosters for PHY 396T Cosmology / AST 396C Elements of Cosmology, Spring 2002 (removed from binder) **Container**
125.5-6

Revised typescript with handwritten notes; PHY 396T Cosmology class Spring 2004 final exam, 2004 (removed from binder) **Container**
125.7-8

Revised typescript of chapters 1-4, with appendices, 2004-2005 (removed from binder) **Container**
126.1

Revised typescript of chapters 5-9 with handwritten notes, 2005 (removed from binder) **Container**
126.2

Typescript of section "8.4. An Anthropic Calculation" (filename Cosmo 6); handwritten notes; PHY 396T / AST 381 Spring 2008 class problem set, 2005, 2008 (removed from binder) **Container**
126.3

Revised typescript of sections 5.3, 5.4, 7.1, 7.2, 7.4 and Appendix G, 2005 **Container**
126.4

'Cosmo 7' (filename). Typescript; handwritten notes; revised notation and glossary pages; handwritten list of figures and tables, 2004-2005, 2007 (removed from binder) **Container**
126.5-6

Revised typescript, 2007 (removed from binder) **Container**
126.7-8

Corrected page proofs, 3 January 2008 (removed from binder) **Container**
127.1-2

'1' High Redshift Supernova, Dark Energy, etc. Abstracts, reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); tearsheets; printouts of files of figures and captions; typescript pages on dynamics of expansion with annotations by Duane Dikus; correspondence, 1998-2006 **Container**
127.3-5

'2' Cosmic Microwave Background. Abstract, preprints (arXiv), and published versions of journal articles by others (one with annotations by Weinberg); arXiv search results; tearsheets (one with marking by Weinberg), 1966-1970, 1996-2006 **Container**
127.6

- '3' Big Bang Nucleosynthesis, Dark Matter, etc. Abstracts, reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); typescript by John Bahcall; tearsheets, 1982-2006 **Container** 127.7, 128.1-2
- '6' Gravitational Waves. Reports and preprints (arXiv) by others; correspondence, 2004-2006 **Container** 128.3
- '7' Gravitational Waves, Cosmic Microwave Background (CMB), Wilkinson Microwave Anisotropy Probe (WMAP), Integrated Sachs-Wolfe (ISW). Reports, preprints (arXiv), and published versions of journal articles by others (some with annotations by Weinberg); tearsheets; lecture slides by Neil J. Cornish; printout Mathematica computation file; Lambdax NASA printouts; correspondence, 1967-1969, 1994-2006 **Container** 128.4-5
- 'Cosmology Corrections 2008.' Typescript lists of corrections, some with annotations; handwritten notes; correspondence, 2008-2009. With published version of "Cosmological Production of Baryons," 1979 **Container** 128.6
- 'Cosmology Corrections Web Page.' Lists of corrections; published version of journal article by Andrew Vilenkin; correspondence, 2007-2009 **Container** 128.7
- 'Cosmology Pending Corrections.' Correspondence, 2009-2013 **Container** 128.8
- 'Cosmology Update.' Correspondence, 2009-2012, 2015 **Container** 128.9
- Handwritten notes, including "Repeat calculation," "Calculating integral," and "Effects of cosmological constant correlation"; correspondence, 2005, undated (removed from binder) **Container** 129.1
- Handwritten notes, including "Single-Field Inflation," undated (removed from binder) **Container** 129.2
- 'Matter Perturbations.' Preprint (arXiv) and published versions of journal articles by others (some with annotations); handwritten notes; printout Mathematica computation file; printout screenshots; typescript of [section 6.5] "4. Interpolation Solution: The Transfer Functions" by Weinberg; correspondence, 1972-2005 **Container** 129.3
- 'Oxford Press Receipts.' Royalty statements; correspondence, 2008-2020 **Container** 129.4
- 'Polarization Corrections.' Abstracts, reports, preprints (arXiv) and published versions of journal articles by others (some with annotations by Weinberg); handwritten notes; printout data; printout Mathematica computation files with annotations; revised typescript of section 7.4 "Polarization" from Cosmology by Weinberg (2005); correspondence, 1994-2005 **Container** 129.5-6

'Quintessence.' Preprints (arXiv) and published versions of journal articles by others; printout Mathematica computation files; typescript of section 1.12 "Quintessence" by Weinberg; handwritten notes; correspondence, 1988-2007	Container 129.7-8
'Russian Cosmology.' Correspondence about Russian edition, 2012	Container 129.9
Discovery of Subatomic Particles (1982)	
'Cambridge University Press--Post Publications.' Royalty statements; advertisement; published version of review; correspondence, 2003-2018	Container 130.1
Dreams of a Final Theory (1993)	
'Audio Rights.' Agreement; Blackstone Audio Books Touchstone; correspondence, 1998-2005	Container 130.2
'Comments.' Printout online article, 1999	Container 130.3
'Contracts.' Agreements; Hynek 1996 publisher catalog; correspondence, 1992-2015	Container 130.4-5
'Laws of Nature.' Research materials, including preprints, tearsheets, published book excerpts, Niels Bohr centennial issue of Physics Today, and published versions of journal articles by others (some with annotations by Weinberg); typescripts by Paul Davies, Peter Galison, Gerald Holton, Silvan S. Schweber, and Victor R. Weisskopf; printout database search results with handwritten quotations and sources on verso; early typescripts (some with revisions and comments) of chapters 1-3 of Dreams of a Final Theory by Weinberg (1990); correspondence, 1901-1990	Container 130.6-7
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Elementary Particles and the Laws of Physics: The 1986 Dirac Memorial Lectures by Weinberg and Richard P. Feynman (1987)	

'Feynman-Weinberg 1999.' Cover design; review; correspondence, 1999-2002	Container 131.3
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'Receipts.' Royalty statements; agreement; advertising flyer; review; correspondence, 2003-2018	Container 131.4
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'Update.' Cover proof; correspondence, 2014-2016	Container 131.7
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'Contract.' Academic publishing guides for authors; agreements; hand-drawn figures; PHY 355 class quiz; marketing questionnaire; correspondence, 2016-2020. With neighborhood listserv notice	Container 133.2-133.3
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'2014.' Agreement; royalty statement; correspondence, 1966, 1987-2020	Container 133.8
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'Wiley.' Royalty statements; printouts of online Amazon reviews, 2015-2016	Container 134.1
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Lectures on Astrophysics (2019)

Revised typescript lecture notes with annotations and pages of handwritten notes; problem sets for unidentified 2016 course and PHY 396T Special Topics in Particle Physics, Fall 2017; correspondence, 2017, undated

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134.8

Revised typescript (incomplete) (removed from binder), 2016

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134.9

Revised typescript, including two versions of sections 1.4 and 3.7, 2019 (removed from binder)

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134.10

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134.11

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134.12

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134.13

'Contract.' Agreements; provisional marketing plan; correspondence, 2016

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133.3,
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'Current Issues in Astrophysics'

'1. Inventory of Weinberg's Articles and Copies of Some' for Speaking of Physics (proposed collection of talks given at physics conferences). List of articles by Weinberg; published versions of "Changing Views of Quantum Field Theory," Conference Summaries of XXVI International Conference on High Energy Physics and The Second Workshop on Grand Unification, "Effective Field Theory, Past and Future," "Elementary Particle Physics in the Very Early Universe," "The Forces of Nature," "Gauge Theories of Weak, Electromagnetic and Strong Interactions," "Origins," "Particle Physics: Past and Future," "Summary and Outlook" at XXIII International Conference on High Energy Physics, "Talk at a Symposium on Mathematics: The Unifying Thread in Science," "The Ultimate Structure of Matter," "Unification of Elementary Forces and Gauge Theories," "What Is Quantum Field Theory, and What Did We Think It Is?," "Why the Renormalization Group Is a Good Thing" (with illustration of Francis E. Low by Al Hirschfeld), and other journal articles by Weinberg; correspondence, 1968-2017

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- '2. Work on Adiabatic Modes' 'Soft.' Preprint (arXiv) and a published version of journal articles by others; tearsheets; published version of "Adiabatic Modes in Cosmology" by Weinberg, 2003, 2016 **Container** 135.4
- '3. Other Workers on Quantum Gravity' 'Quantum.' Preprints (arXiv) and published versions of journal articles by others (some with annotations by Weinberg); printout of Wikipedia online article; revised typescript of "Quantum Mechanics Without State Vectors" by Weinberg; revised typescript of section 4.5 [Quasars] "Active Galactic Nuclei"; handwritten notes (on folder); correspondence, 1957-2017 **Container** 135.5
- '4. Authors on Accretion Discs.' Published version of a journal article by others; typescript of sections 3.5 "Accretion Disks," 3.6 "Accretion Spheres," and 4.5 [Quasars] "Active Galactic Nuclei," 1994, undated **Container** 135.6
- '5. On the Inter-stellar Medium.' Preprint and a published version of journal articles by others; tearsheets; clipping; printout of Wikipedia online article; typescript of section 3.1 "Interstellar Matter"; handwritten notes, 1978, 2009-2017 **Container** 135.7
- '6. Other Authors on Star Formation.' Published versions of journal articles by others (one with annotations by Weinberg), 2007, 2012 **Container** 135.8
- '7. Materials on Gravitational Waves' 'LIGO.' Preprint and published versions of journal articles by others (some with annotations by Weinberg); printout of online article, 2015-2017 **Container** 135.9
- '8. Materials on Stellar Evolution.' Published versions of journal articles by others (one with annotations by Weinberg); printout of Wikipedia online article; printout data; handwritten notes; correspondence, 1971-1983, 2017 **Container** 135.10
- '9. Materials on Neutron Stars' 'Hertzsprung-Russell (HR) Diagram.' Page of unidentified published version of a journal article (with annotations by Weinberg); tearsheets; printout figures; correspondence, 2015, 2017 **Container** 136.1
- '10. Notes on Outer Regions and Shapiro's Work' 'Stromgren' Spheres. Revised typescripts of sections 1.3 "[Radiative] Models" and [3.4] "2.1 Star Formation"; typescript pages of PHY 387N lecture notes used for sections 1.9, 1.10, and 1.11, titled "General Relativistic Instability Near $\gamma=4/3$," "White Dwarfs," and "Supermassive Stars"; handwritten notes; syllabus and class roster for PHY 341 The History of Physics / Astrophysics, Spring 2016; correspondence, 2015-2016 **Container** 136.2
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Typescript, including a preface dated January 2015; corrections to page proofs; corrections to second proofs, 2014-2018. 104 electronic files: Adobe PDF	Disk-ID-No. 2109012G_001
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'Corrections' 'Miscellaneous.' Preprints (arXiv) and published versions of journal articles by others; typescripts of list of Corrections to First Printing of Lectures on Quantum Mechanics by Weinberg; correspondence, 2013-2015	Container 136.7
'New Corrections.' Typescript lists of corrections; correspondence, 2013-2014	Container 136.8
'References.' Preprint (arXiv) and published versions of journal articles by others; tearsheets and clippings (one with markings); printout website page and Wikipedia online articles; handwritten notes; correspondence, 1900-2013	Container 136.9
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Report and published versions of journal articles by others (one with annotations by Weinberg), photocopy typescript by others; handwritten notes (on folder), 1958-1975, 1995

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'1991-95.' Reports, preprints (including hep-th), and published versions of journal articles by others (some with annotations by Weinberg); photocopy of published version of Lectures on Quantum Mechanics by Paul Dirac with annotations by Weinberg; preliminary typescript by J. C. Taylor; annotated typescript on the Dirac bracket; typescript of section 8.3 "Quantization" with annotations in unidentified hand; handwritten notes, 1964-1995

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The Quantum Theory of Fields, Volume II: Modern Applications (1996)

Correspondence, 1997-2016 (see also 'Gomis (Joaquim) 1995,' 'Gomis (Joaquim) and Pons (Josep), and 'Vafa-Witten Supersymmetry Breaking')

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'Data.' Reports, preprints, and published versions of journal papers by others (some with annotations by Ivan Maksymyk); typescripts by LEP Electroweak Working Group and I. Maksymyk (with annotations by Maksymyk); handwritten notes; correspondence, 1980-1995

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'Comments.' Reviews; correspondence, 2000

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Correspondence; PHY 396T Topics in Quantum Field Theory class syllabus, 2009-2010

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Typescript of [chapter 37] "1. Conformal Field Theories"; preprints (arXiv) on Higgs inflation by others; printouts of Wikipedia online articles, 2008-2015, undated

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'Speaking of Physics' (proposed book of talks on physics and cosmology)

List of talks; correspondence, 2017 (see also Lectures in Astrophysics '1 Inventory of Weinberg's Articles and Copies of Some')

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139.2

Statistical Mechanics of Membranes and Surfaces (with David Nelson and T. Piran) (2004)

'World Scientific Publishing Company 2013.' Royalty statements, 2013-2014 **Container**
139.3

Supersymmetry Book (proposed textbook by Weinberg based on his lectures)

'Supersymmetry (SUSY) Course' 'Supersymmetry (Textbook).' Photocopy handwritten pages of chapters 2 and 8, in unidentified hand; typescript of chapters 4, 5, and 9, undated **Container**
139.4

'Supersymmetry (SUSY) Book.' Heavily revised typescript third draft of chapters 2-5, titled "Supersymmetry / Physics 396T Spring 1982" and typescript of chapters 6 and 8 mailed to J. McArthur on 5 January 1984 **Container**
139.5

'Old Supersymmetry (SUSY) Notes and Duplicates.' Photocopy handwritten pages; typescript pages of chapters 2 and 3; handwritten notes; Segrè Chart (Isotope Chart), 1948, undated **Container**
139.6, osf

Third Thoughts: The Universe We Still Don't Know (2018)

Printout of Wikipedia online article; published versions of "Anhydrous Zucchini" and "What Is an Elementary Particle" by Weinberg; typescripts (some with revisions) of "The Art of Discovery," "The Craft of Science, and the Craft of Art" (including transcript with questions and answers), "Foreword to the Educators and Academics Section" (contributed Introduction to Chapter 6 of Texas State Cemetery), "Long Times and Short Times" (Foreword to Time in Powers of Ten by Gerard 't Hooft and Stefan Vandoren), "On Being Wrong: Remarks Upon Receiving an Honorary Degree at the Commencement Ceremonies at Rennselaer Polytechnic Institute" by Weinberg; marked fragment of Weinberg's bibliography; revised list of Weinberg's articles for general readers; correspondence, 1997-2016 **Container**
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'Harvard Press.' Royalty statements, 2020-2021 **Container** 139.9

'Reviews and Publicity.' Agreements; cover design; advertising card; reviews; royalty statement; correspondence, 2019 **Container**
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'Rights.' Agreements; jacket design; proofs of front matter; correspondence, 2018 **Container**
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'Sources'

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'Islamic Science.' Published versions of journal articles by others (some with markings by Weinberg); printouts of Wikipedia online articles; tearsheets; correspondence, 2007-2011 **Container**
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Published versions of journal articles by others (some with markings by Weinberg); printouts of Wikipedia, Catholic Encyclopedia, and The Galileo Project online articles; tearsheets; handwritten mathematical notes (on folder); revised typescript pages; typescript notes; revised typescript of "Accidental Symmetry" (article based on a talk at the Technical University of Budapest) by Weinberg; correspondence, 1982-2011 **Container**
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Preprint and published versions of journal articles by others (some with markings by Weinberg); tearsheets; printouts of Wikipedia, The Internet Classics Archive, and the Internet Modern History Sourcebook online articles; typescript pages of Prologue; typescript and handwritten notes; correspondence, 2005-2012 **Container**
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Other Publishing Files

'Authors Registry 2019.' LIRA distribution statements, 2013-2019 **Container**
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'Book Contracts' and Correspondence, 1982-2018; with trust agreement and deed of gift, 1982 **Container**
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'Cambridge University Press'

'2017.' Royalty statements; tearsheets of reviews; Association of American Publishers press release, 2017-2020 **Container**
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'2018.' Royalty statements, 2013-2018 **Container** 144.1

'Collected Scientific Articles.' Correspondence about a proposed collection of Weinberg's Selected Papers with Commentary, 1999 **Container**
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'Collected Works.' Correspondence about a proposed collection of Weinberg's Selected Papers, 2010-2013 **Container**
144.3

'Dirac Lecture Tape.' Correspondence about the release of a video tape recording of the "Towards the Final Laws of Physics" lecture by Weinberg for Elementary Particles and The Laws of Physics: The 1986 Dirac Memorial Lectures; printed booklet of lecture transparencies to accompany the video tape, 1998-1999 **Container**
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'Janklow & Nesbit Associates'

'2007-2017.' Royalty statements, advances, licensing and publishing agreements, and correspondence about Dreams of a Final Theory, Facing Up: Science and Its Cultural Adversaries, The Discovery of Subatomic Particles, The First Three Minutes, and To Explain the World: The Discovery of Modern Science, 2007-2017 **Container**
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'New York Review of Books'

'Reprinting.' Correspondence about reprints and permissions; proof pages; royalty statements for Glory & Terror, 2001-2014 **Container**
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'Reprints 2007.' Agreements; correspondence about reprints of NYRB articles by Weinberg, 2006-2017 **Container**
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'Oxford University Press 2018.' Royalty statements, 2018, 2020 **Container**
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Compilation (incomplete) of published versions of articles and interviews, chronologically numbered corresponding to Weinberg's list of publications

'Interviews.' Photocopies of published versions of interviews of Weinberg (one in Italian and two in German), 1982-1999 (removed from binder) **Container**
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'1 to 30.' Published versions of articles by Weinberg; typescript of "On the Derivation of Intrinsic Symmetries" by Weinberg (1963), 1956-1964 (removed from binder)	Container 152.2
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'221 to 245.' Published versions of articles by Weinberg; typescript of Speech of Acceptance on the award of a Doctoral Degree 'Honoris Causa' at the University of Salamanca, 1991-1996 (removed from binder)	Container 153.5
248 to 279. Published versions of articles by Weinberg (one in Spanish); preprint (arXiv) of "A Priori Probability Distribution of the Cosmological Constant" by Weinberg, 1996-2000	Container 153.6

Published versions of articles by Weinberg in The New York Review of Books and The Times Higher Education Supplement, in whole issues, 2009-2017

The Energy of Empty Space / Vacuum Gleaning (contribution to "100 Years of the Nobel"). The Times Higher Education Supplement, 21 December 2001	Container osb 1
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The Missions of Astronomy. The New York Review of Books, vol. LVI, no. 16, 22 October 2009. With Letters reply to Jeremy Bernstein in issue LVI, no. 18, 19 November 2009

The Universes We Still Don't Know (review of The Grand Design by Stephen Hawking and Leonard Mlodinow). The New York Review of Books, vol. LVIII, no. 2, 10 February 2011

Liberal Disappointment. The New York Review of Books, vol. LIX, no. 17, 8 November 2012

The Crisis of Big Science. The New York Review of Books, vol. LIX, no. 8, 10 May 2012

Physics: What We Do and Don't Know. The New York Review of Books, vol. LX, no. 17, 7 November 2013

Eye on the Present: The Whig History of Science. The New York Review of Books, vol. LXII, no. 20, 17 December 2015

Whig History: An Exchange with Arthur M. Silverstein. The New York Review of Books, vol. LXIII, no. 3, 25 February 2016

The Trouble with Quantum Mechanics. The New York Review of Books, vol. LXIV, no. 1, 19 January 2017 (with handwritten marking). With Weinberg's letter to the editor about response to the article in vol. LXIV, no. 6, 6 April 2017

Series III. Teaching Files, 1975-2021, undated (published material dating from 1968) (see also Subject Files and Book and Publishing Files)

Measurement / Born Rule / Envariance. Preprints (arXiv) by others; composite typescript and handwritten notes for Ph 12b Quantum Physics course Measurement homework, 2004-2015	Container 145.4
'Old Quantum Field Theory Lecture Notes.' Photocopy typescript of a 1975 preliminary version of the first chapter of The Quantum Theory of Fields by Weinberg; photocopy handwritten lecture notes on Gauge Theories for PHY 394T, Special Topics in Theoretical Physics, Fall 1983	Container 145.5
PHY 272, Gauge Theories, Harvard, Spring 1979 and Fall 1979. Photocopy handwritten lecture notes, problem sets, and grade sheets (removed from binder)	Container 145.6
PHY 355, Modern Physics, Spring 2018	
Revised typescript lectures notes (used for Weinberg's book Foundations of Modern Physics); handwritten notes; class teaching assistant contact information, lecture notes, problem sets, homework solutions, notice, and survey, 2018 (removed from binder)	Container 145.7
Revised typescript lecture notes (used for Weinberg's book Foundations of Modern Physics) (removed from binder)	Container 145.8
PHY 373, Mod Physics II: Quantum Mechanics, Fall 1992. Typescript class problem sets; handwritten notes; class rosters and grade sheets, 1992 (removed from binder)	Container 146.1
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PHY 387M, Relativity Theory I, Fall 2014, and PHY 387N, Relativity Theory II, Spring 2015 'General Relativity 2014-2015.' Preprints (arXiv), published book excerpt, and published versions of journal articles by others (some with annotations by Weinberg); tearsheets (one with annotations); handwritten notes; typescript problem set assignment, syllabus, class roster, and course evaluations, 1968-2015	Container 146.9-146.10
PHY 387N, General Relativity, Spring 2015. Course syllabus; revised typescript sections of lecture notes, including "10.10 Gravitational Radiation from Periodic Sources: Binary Stars," "10.11 The Binary Pulsar," "10.12 Gravitational Wave Detection by Laser Interferometry," "11.9 Gravitational Collapse – Addendum," and typescript pages on "General Relativistic Instability Near $\gamma=4/3$," "White Dwarfs," and "Supermassive Stars" (used for Weinberg's book Lectures on Astrophysics); problem set; handwritten notes; correspondence, 2015 (removed from binder)	Container 147.1
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PHY 394T, Special Topics in Theoretical Physics, Fall 1983 and Spring 1984. Handwritten lecture notes; problem sets; class roster; grade sheet, 1983-1984. With notes from Jan Govaert's lectures (removed from binder)	Container 147.7, 148.1
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'PHY 396K, Quantum Field Theory II, UT, Spring 1985.' Original and photocopy handwritten lecture notes and problem sets; class roster; grade sheet, 1985 (removed from binder)	Container 148.4-5

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PHY 396T, Special Topics in Particle Physics, Fall 1993. Revised typescript sections of lecture notes; handwritten notes; problem set; class roster; correspondence, 1993 (removed from binder) **Container**
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PHY 396T, Spring 1994. Revised typescript sections of lecture notes; handwritten notes; class roster; typescript problem set assignment, 1994 (removed from binder) **Container**
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Revised typescript section "1.8 Gravitational Lenses" of lecture notes (chapter 9 in Weinberg's book *Cosmology*); handwritten notes, undated (removed from binder) **Container**
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Cosmology, Spring 1999, Spring 2000, Spring 2001. Revised typescript sections of lecture notes (used for Weinberg's book *Cosmology*); handwritten notes; printout Mathematica computation files; problem sets; class grade sheets; correspondence, 1999-2001 (removed from binder) **Container**
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Cosmology, Spring 2003. Revised typescript sections of lecture notes (used for Weinberg's book *Cosmology*); handwritten notes and figures; course syllabus; problem sets, 2003 (removed from binder) **Container**
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Fall 2004. Typescript pages of lecture notes, (primarily chapter 6, used for Weinberg's book *Cosmology*); handwritten notes; printouts of Mathematica and LaTeX input files; correspondence, 2004 (removed from binder) **Container**
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PHY 396T / AST 381, Spring 2005. Typescript Fall 2004 course syllabus; revised typescript sections of lecture notes (used for Weinberg's book *Cosmology*), problem sets, final exams; handwritten notes; correspondence, 2004-2005 (removed from binder) **Container**
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PHY 396T, Topics in Quantum Field Theory, Spring 2010. Course syllabus; class roster; revised typescript sections of lecture notes (to be used for proposed book *The Quantum Theory of Fields, Volume IV*); handwritten notes; problem sets; typescript of "Outline of a Proof of Scale and Conformal Invariance for Renormalizable Massless Theories with a Wilsonian Fixed Point"; list of corrections; correspondence, 2010 (removed from binder) **Container**
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PHY 398T Spring 1993. Handwritten notes; class problem set, 1993 (removed from binder) **Container**
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Science A-19, Twentieth-Century Physics. Typescript lecture notes with annotations by Weinberg (missing page 1), undated **Container**
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TC 310, Modes of Reasoning: The Invention of Science, Fall 2008. Typescript syllabus; class roster; typescript lecture notes with annotations and handwritten pages; midterm and final exams, 2008 (removed from ringed binder) **Container**
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- Entertainment (Austin opera, symphony, theater, ballet, and others) event flyers, notices, brochures, tickets, receipts, and programs; contact list (Tuesday Club), 2019-2020 **Container**
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- Photographs. Snapshots of Weinberg hunting and at the Texas Book Festival; paper copies of photographs of Steven Weinberg, Louise Weinberg, Leida (Louise's sister), Gabrielle (granddaughter), and pets, 1979, 1985, 2004, undated **Container**
15.1, 78.6,
154.6
- Memoirs (also by Louise Weinberg)
- 'Chronology.' Typescript chronology of life events from 1950 to 2001; handwritten list of travel events; typescript list of Weinberg's lectures and publications; typescript of "The History of Tuesday Club"; typescript and proof of Weinberg's 2001 University of Texas commencement talk; tearsheets; printout of interview with Weinberg; transcripts of oral history interviews of Weinberg conducted by Finn Aaserud and Alan Lightman; typescripts by Hans Mark and Louise Weinberg; Louise Weinberg's CV; correspondence, 2002-2017 **Container**
150.6
- Photoduplicate of Bronx High School of Science commencement program, 1950 **Container**
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- Revised typescript of preface and chapters 1-8; includes typescripts by Louise Weinberg, 1988, 2007, circa 2020 **Container**
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- Revised typescript of chapters 10-13; correspondence; printout of Wikipedia online article about the High Energy Accelerator Research Organization (KEK), 2021, undated (removed from binder) **Container**
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