
Guide to the Papers of Paul Sophus Epstein, 1898-1966

Collection number: Consult repository

Archives

California Institute of Technology
Pasadena, California

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Descriptive Summary

Title: Paul Sophus Epstein papers,

Date (inclusive): 1898-1966

Collection number: Consult repository

Creator: Epstein, Paul Sophus, 1883-1966

Extent: 17.25 linear feet

Repository: California Institute of Technology. Archives.

Pasadena, California 91125

Abstract: Epstein was a physicist at California Institute of Technology from 1921-1953; he taught advanced courses in mathematical and theoretical physics. Collection includes general and family correspondence; personal and biographical material; notebooks; manuscripts; class notes by a Caltech student; books, mostly technical and in Russian; reprints of Epstein's writings.

Language: English

Access

The collection is open for research. Researchers must apply in writing for access.

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Preferred Citation

[Identification of item, box and file number], Papers of Paul Sophus Epstein. Archives, California Institute of Technology.

Acquisition Information

The Paul Epstein collection was given to the Caltech Archives in 1977 by his widow, Mrs. Alice Epstein.

Biography

Epstein was the first European-trained physicist to come to Caltech on a permanent basis. Recruited by Robert A. Millikan in 1921, he was one of a generation of prominent mathematical physicists who laid the foundations for modern atomic physics. Having studied and worked in Moscow, Munich, Zurich and Leyden before settling permanently in the United States, Epstein had wide personal and scientific contacts.

Epstein was born in 1883 in Warsaw to a moderately well-to-do Jewish family. He grew up in Minsk and later attended the Imperial University of Moscow, where he received B.S. and M.S. degrees. Foreseeing the Russian Revolution, he left Moscow to continue his studies in theoretical physics in Munich under Arnold Sommerfeld. His early research was in the theory of electromagnetic waves, particularly the theory of their diffraction. He received his Ph.D. at the outbreak of World War I, with the thesis "Über die Beugung an einem ebenen Schirm unter Berücksichtigung des Materialeinflusses" ("Diffraction from a Plane Screen...", 1914).

Though held as a civil prisoner in Germany during the war, he nonetheless continued to do research in the problems of the quantum theory of atomic structure based on classical mechanics. An important paper from this period is "Zur Theorie des Starkeffektes" ("The Theory of the Stark Effect," *Ann. der Physik* 50, 1916). In 1919, with the end of the war, Epstein was able to take up an appointment as Privatdocent at the University of Zurich. Upon applying for this position he wrote a paper (Habilitationsschrift) applying the quantum theory to optics, which caused a stir ("Anwendungen der Quantenlehre in der Theorie der Serienspektren," *Die Naturwissenschaften* 17, 1918).

As early as 1910 or 1911, Epstein had become interested in psychoanalysis as a remedy for depression and associated physical symptoms. This interest eventually led to a meeting with Freud in Switzerland, circa 1911-12. Later Epstein was instrumental in founding the Los Angeles Institute of Psychoanalysis. His knowledge of and practical involvement in this field lasted throughout his life.

Having lost most of his inherited means during the war and in need of a paying position, Epstein went to Leyden in 1921 to become assistant to H. A. Lorentz. There he met Millikan, who invited him to come to the newly created California Institute of Technology. Epstein arrived in Pasadena on a blistering September day in 1921, knowing very little English. He was to remain at Caltech until his retirement in 1953 at the age of 70. During this time he taught substantially all of the advanced courses in mathematical and theoretical physics.

At Caltech Epstein's research continued on Bohr's form of the quantum theory, which culminated in 1922 with the publication of four papers, three in the *Zeitschrift für Physik* and one in *The Physical Review*. Later he participated in the development of quantum mechanics. An important paper in this connection appeared in the *Physical Review* in 1926: "The Stark Effect from the Point of View of Schrödinger's Quantum Theory." In 1930, Epstein was elected to the National Academy of Sciences.

Epstein's range of interests was wide. He devoted considerable attention to borderline problems involving physics and other sciences, for example, his papers "Zur Theorie des Radiometers" (1929), "Reflection of Waves in an Inhomogeneous Absorbing Medium" (1930), and "On the Air Resistance of Projectiles" (1931). He wrote two important articles on general subjects outside of physics, both published in the Los Angeles literary/philosophical journal *Reflex: The Frontiers of Science* (June, 1935) and "The Uses and Abuses of Nationalism" (November, 1935). He also maintained a number of literary and artistic contacts, including Upton Sinclair.

Although not a Zionist, Epstein was deeply interested in Jewish affairs. He was a friend and supporter of the mathematician Abraham Fraenkel, a longtime resident of Jerusalem, who played a major role in the organization of secondary and advanced education in Israel. Epstein was active for many years in the Friends of the Hebrew University of Jerusalem and was President of the Southern California Chapter.

After his retirement from Caltech, Epstein served as a consultant to several large industrial firms. Among the many reports written by him at this time, especially significant is his "Theory of Wave Propagation in a Gyromagnetic Medium" (*Reviews of Modern Physics* 28, 1956).

Paul Epstein died at his home in Pasadena on February 8, 1966, at the age of 83.

Scope and Content of Collection

The Paul Epstein collection contains materials spanning the period from Epstein's high school days in Minsk, beginning around 1898, up to shortly before his death in 1966. Included is general and family correspondence; personal and biographical material; notebooks containing a variety of subject matter; a large number of manuscripts, including articles, lectures and miscellaneous writings on both technical and nontechnical matters; a set of class notes by a Caltech student; books, mostly in Russian and of a technical nature; and a large quantity of reprints of writings by Epstein himself. Epstein's extensive collection of reprints by others has been preserved separately from his papers.

His correspondence appears in Russian, German, and English. Important individual correspondents include A. Berliner, N. Bohr, M. Born, P. Ehrenfest, A. Einstein, Sigmund Freud, G. Jaffe, A. Lande, M. von Laue, H. Lorentz, R. Oppenheimer, M. Planck, E. Rutherford, E. Schrödinger, A. Sommerfeld, and H. Weyl.

Indexing Terms

The following terms have been used to index the description of this collection.

People

Berliner, Arnold, 1862-1942
Bohr, Niels Henrik David, 1885-1962
Born, Max, 1882-1970
Ehrenfest, Paul, 1880-1933
Einstein, Albert, 1879-1955
Freud, Sigmund, 1856-1939
Jaffe, G., 1880-1965
Lande, Alfred, 1888-1975
Lorentz, H. A. (Hendrik Antoon), 1853-1928
Millikan, Robert Andrews, 1868-1953
Oppenheimer, J. Robert, 1904-1967
Planck, Max, 1858-1947
Rutherford, Ernest, 1871-1937
Schrödinger, Erwin, 1887-1961
Sommerfeld, Arnold, 1868-1951
Von Laue, Max, 1879-1960
Weyl, Hermann, 1885-1955

Corporations

California Institute of Technology
Los Angeles Institute of Psychoanalysis

Subject

Electromagnetic theory
Mathematical physics
Physics--Study and teaching
Psychoanalysis
Quantum mechanics
Quantum theory

Occupation

Physicists

Section I: Correspondence

Part A: General Correspondence

Box 1, Folder 1 **Abbitt, W. H. 1949 [1 item]**
 Box 1, Folder 2 **Abraham, Henri (Société Française de Physique) 1922 [1 item]**
 Box 1, Folder 3 **Academic Council (list of members) n.d.**
 Box 1 **Adams, Walter S. See: Reviews of Modern Physics**
 Box 1, Folder 4 **Air Force Missile Development Center, New Mexico (re: PSE summer seminar, clippings, misc.) 1958-1959 [13 items]**
 Box 1, Folder 5 **Alemberg, Fred 1936 [1 item]**
 Box 1, Folder 6 **Alma, Dr. G. H. P. 1954 (request for photograph) [1 item]**
 Box 1, Folder 7 **American Association of University Professors 1954 (newsletter) [1 item]**
 Box 1, Folder 8 **American Journal of Physics 1945-1960 (re: reviews, articles) [13 items]**
 Box 1, Folder 9 **American Physical Society 1923, 1925, 1948, 1953 [6 items] See also: Publications**
 Box 1 **Anderson, Carl D. See: Caltech Physics Dept., Cosmic Ray Symposium**
 Box 1, Folder 10 **Anderson, John A. 1922 [2 items]**
 Box 1, Folder 11 **Andreev, Nikolai N. 1956, 1962 [2 items]**
 Box 1, Folder 12 **Arizona, University of 1959 (re: PSE visit) [1 item]**
 Box 1, Folder 13 **Arkadiew, Wladimir 1920 [1 item]**
 Box 1, Folder 14 **Army Air Forces, Weather Central Division 1942-1945 [14 items]**
 Box 1, Folder 15 **Atomic Energy Commission: Bikini Tests (Notes for Round Table Conference) 1949 [1 item]**
 Box 1, Folder 16 **Atoms for Peace Award 1960 (re: nominations; 1958, 1959 Award Ceremonies programs) [4 items]**
 Box 1 **Auger, Pierre See: Caltech Physics Dept., Cosmic Ray Symposium**
 Box 1, Folder 17 **Aylesworth, Evelyn 1937 [2 items]**
 Box 1, Folder 18 **Bar, Richard 1922 [1 item: postcard]**
 Box 1, Folder 19 **Barter, John 1934 (re: PSE Seminar) [2 items]**
 Box 1, Folder 20 **Barrar, Richard B. 1956 [1 item]**
 Box 1, Folder 21 **Bartels, Hans Karl n.d. [1 item]**
 Box 1, Folder 22 **Bateman, Harry 1937 [1 item]**
 Box 1, Folder 23 **Baumgarten, Franciska n.d. [1 item]**
 Box 1, Folder 24 **Beams, Jesse Wakefield 1949 [1 item]**
 Box 1, Folder 25 **Berguis, Fritz 1955, 1956 [2 items]**
 Box 1, Folder 26 **Berliner, Arnold 1921-1940 [16 items]**
 Box 1, Folder 27 **Bernstein, O. S. 1953 [1 item: postcard]**
 Box 1, Folder 28 **Binckley, George Sydney 1922 [4 items]**
 Box 1, Folder 29 **Bird, Remsen 1938 (re: Thomas Mann) [4 items]**
 Box 1, Folder 30 **Blanchard, Emile 1923 [1 item]**
 Box 1, Folder 31 **Bland, Judith 1964 (photocopies re: TV Karman bust, 1 letter re: PSE bust) [23 items]**
 Box 1, Folder 32 **Blaschke, Wilhelm 1922, 1927 2 items: 1 postcard**
 Box 1, Folder 33 **Blau, L. W. 1928 (re: doctoral work with PSE) [1 item]**
 Box 1, Folder 34 **Bliss, G. A. 1922 (re: PSE membership in AMS) [1 item]**
 Box 1, Folder 35 **Blitzer, Leon 1947 [1 item]**
 Box 1, Folder 36 **Bloch, Felix 1937 [1 item]**
 Box 1, Folder 37 **Bohr, Niels 1918-1922 (copies from Sources for History of Quantum Physics, UCB) [8 items: record prints]**
 Box 1, Folder 38 **Bohr, Niels 1961 (letter and revised text of Bohr's Rutherford Memorial Lecture, 1958) [2 items]**
 Box 1, Folder 39 **Bolza, Hans 1935 (Christmas card) [1 item]**
 Box 1, Folder 40 **Boodin, J. E. 1936 (re: talk) [1 item]**
 Box 1, Folder 41 **Born, Max 1921, 1922, 1937 [3 items]**
 Box 1, Folder 42 **Borowitz, Sidney 1951 [1 item]**
 Box 1, Folder 43 **Bradley, Nudine (?) n.d. [2 items]**
 Box 1, Folder 44 **Brauner, Klara 1933 [2 items]**
 Box 1, Folder 45 **Breiman, Leo n.d. [1 item]**
 Box 1, Folder 46 **Breit, Gregory 1947, 1960 [2 items]**
 Box 1, Folder 47 **Bridgman, Percy W. 1937, 1946 (re: PSE's textbook) [2 items]**

Section I: Correspondence**Part A: General Correspondence**

Box 1, Folder 48	Brill, A. A. 1921 [1 item]
Box 1, Folder 49	Brillouin, Louis Marcel 1942, 1947 [2 items]
Box 1, Folder 50	Brode, Robert 1924, 1948 [2 items: postcard and note of acceptance] See also: Caltech Physics Dept., Cosmic Ray Symposium
Box 1	Brown, Edmund G. 1959 See: Segall, Gabriel
Box 1, Folder 51	Browne, Lewis 1935, 1937 [3 items: 1 postcard]
Box 1, Folder 52	Buhler, Rolf D. 1953 [1 item]
Box 1, Folder 53	Burgers, Johannes Martinus 1922 [1 item]
Box 2, Folder 1	Cabrera, Blas 192(2?) [1 item]
Box 2, Folder 2	California, University of 1922-1923, 1924, 1945, 1947 (re: summer session, Hans Reichenbach, W. H. Williams, invitation to Hans Bethe Lecture) [6 items]
Box 2, Folder 3	Caltech Athenaeum 1930-1931 (correspondence re: Arms and Seals for Hall of Associates) [16 items]
Box 2, Folder 4	Arms and Seals
Box 2, Folder 5	Miscellaneous memoranda 1923-1962
Box 2	Caltech Physics Department, Cosmic Ray Symposium
Box 2	Correspondence (in honor of R. A. Millikan's 80th birthday)
Box 2, Folder 6	Apr. 1947 - Feb. 1948 [44 items]
Box 2, Folder 7	Mar. 1948 - June 18, 1948 [54 items]
Box 2, Folder 8	June 30, 1948 - Nov. 1948 [31 items]
Box 2, Folder 9	Miscellaneous memoranda, programs, PSE notes [approx 80 items] See also: Reviews of Modern Physics
Box 2	Caltech Physics Department
Box 2, Folder 10	Library correspondence 1921-1926 [approx. 80 items]
Box 2, Folder 11	Library Committee 1947-1958 [approx. 20 items]
Box 2, Folder 12	Science, Humanities and Engineering Club 1952-1956 (memoranda and misc.) [20 items]
Box 2, Folder 13	Students: miscellaneous notes, roll books [approx 30 items]
Box 2, Folder 14	Carhart, Richard R. 1951-1952 [7 items]
Box 2, Folder 15	Carnegie Institution 1925-1941 [9 items]
Box 2, Folder 16	Carroll, Thomas J. 1953, 1956 [1 item]
Box 2, Folder 17	Carter, Edna n.d. [1 item]
Box 2, Folder 18	Casals, Pablo 1954 (re: Spanish Refugee Aid) [2 items]
Box 2, Folder 19	Christian Science Monitor 1955 (re: article on freedom of Soviet science) [2 items]
Box 3	Clay, J. See: Caltech Physics Dept., Cosmic Ray Symposium
Box 3, Folder 1	Coast Surety Corporation 1934 (re: California Water Service Co) [1 item]
Box 3	Cocconi, G. See: Caltech Physics Dept., Cosmic Ray Symposium
Box 3, Folder 2	Cohn, Helene Hanna 1919, 1922 [3 items]
Box 3, Folder 3	Collier & Sons, Corporation 1947 (re: article for encyclopedia) [9 items]
Box 3	Compton, Arthur See: Caltech Physics Dept., Cosmic Ray Symposium
Box 3, Folder 4	Condon, E. U. 1945 [1 item] See also: USSR Academy of Science
Box 3	Congress for Cultural Freedom
Box 3, Folder 5	Correspondence 1951-1953 [46 items]
Box 3, Folder 6	"The Diamat and the Point of View of Modern Science," PSE paper [3 items]
Box 3, Folder 7	Publications 1951-1952
Box 3, Folder 8	3.9 Strasbourg Sept. 1951 miscellaneous printed matter [2 folders]
Box 3, Folder 10	Conrad, Victor 1942 [1 item]
Box 3	Cook, Robert C. See: Congress for Cultural Freedom, correspondence, Oct. 23, 1951
Box 3, Folder 11	Copson, Edward Thomas 1948 [2 items]
Box 3, Folder 12	Cotton, Aime Auguste 1924 [1 item]
Box 3, Folder 13	Courant, Richard 1929-1948 [7 items]
Box 3, Folder 14	Crain, Charles F. 1927 (Wedding invitation) [1 item]
Box 3, Folder 15	Crank letters 1939 [2 items]
Box 3, Folder 16	Crommelin, Claude Aug. 1922 [1 item: postcard]
Box 3, Folder 17	Cummings, N. W. 1944, 1945 [2 items]
Box 3, Folder 18	Dachow, T. 1923 [1 item]
Box 3	Darrow, Karl K. See: Reviews of Modern Physics
Box 3, Folder 19	Darwin, Charles G. 1922 [2 items]
Box 3, Folder 20	Dehlinger, Walter 1923 [1 item]
Box 3, Folder 21	Dempster, A. J. 1937, 1945 [2 items]
Box 3, Folder 22	Deutsch, Armin J. 1953 [1 item]

Section I: Correspondence**Part A: General Correspondence**

Box 3, Folder 23	Dingle, Herbert ca 1943 [2 items: carbon copy and PSE copy of mss, "The Time Concept in Restricted Relativity"]
Box 3, Folder 24	Dobzhansky, Natalie 1945 [1 item]
Box 3, Folder 25	Dubois, Marcel 1952(?) [1 item]
Box 3, Folder 26	DuBridge, Lee A. 1938-1955 [11 items]
Box 3, Folder 27	Dunn, L. C. 1945 [1 item: telegram]
Box 3, Folder 28	Dunn, Oliver 1959 [1 item]
Box 3, Folder 29	Eckart, Carl 1941 [2 items]
Box 3, Folder 30	Edelberg, S. 1950 [1 item]
Box 3, Folder 31	Ehrenfest, Hugo 1923 [2 items]
Box 3, Folder 32	Ehrenfest, Paul 1922-1932 [13 items, including 1 handwritten manuscript on Ehrenfest by PSE and 1 photocopy of postcard] See also: Klein, Martin
Box 3, Folder 33	Ehrenfest, Tatyana 1937 (Mrs. Paul) [1 item]
Box 3	Einstein, Albert [Note: No originals; all letters from AE to PSE are in photocopy form (includes 1 handwritten translation of AE letter by PSE and original of letter from PSE to AE)]
Box 3, Folder 34	1919 -1945 [36 items]
Box 3, Folder 35	1946 -1947 (correspondence re: Albert Einstein-Philosopher-Scientist volume in The Library of Living Philosophers) [6 items]
Box 3, Folder 36	Miscellaneous clippings, correspondence, etc. [8 items] See also: Reviews of Modern Physics
Box 3, Folder 37	Elsasser, Walter n.d. [1 item]
Box 3, Folder 38	Epstein, L. Ivan 1947 [3 items]
Box 3, Folder 39	Ettinger, Pavel (Paul) 1930 [1 item]
Box 3, Folder 40	Evet, Arthur A. 1953 [1 item]
Box 3, Folder 41	Ewald, Paul P. 1919-1937, 1961 [7 items]
Box 3	Eyring, Carl F. See: Reviews of Modern Physics
Box 4, Folder 1	Fajans, Kasimir 1920 [1 item]
Box 4, Folder 2	Farkas, Adalbert 1946 [2 items] See also: Hebrew University, American Friends of (re: program, March 1944)
Box 4, Folder 3	Federation of American Scientists 1953 (miscellaneous newsletters and printed matter)
Box 4, Folder 4	Fenichel, Hanna 1952 [1 item] See also: Psychoanalytic Study Group of Los Angeles
Box 4, Folder 5	Folles, Leonore and Maragarita 1937-1938 [4 items]
Box 4, Folder 6	Fortune magazine (re: article on physicists) 1960 [1 item]
Box 4, Folder 7	Foster, John Stuart 1923 [1 item]
Box 4, Folder 8	Fraenkel, A. A. 1945-1951 [10 items] See also: Hebrew University, American Friends of
Box 4, Folder 9	Frank, Philipp 1948, n.d. [2 items]
Box 4, Folder 10	Fraum, J. A. 1952 [1 item]
Box 4, Folder 11	Freud, Sigmund 1932 [1 item: photocopy]
Box 4, Folder 12	Fuks, P. 1936 [1 item]
Box 4, Folder 13	Gaspar, Greta 1941 [1 item]
Box 4, Folder 14	General Mills, Inc. 1955 (re: PSE consultation on ICBM Nose Cone Design) [5 items]
Box 4, Folder 15	Gibbs, Roswell Clifton 1924 [1 item]
Box 4, Folder 16	Gibson, George E. 1922 [1 item]
Box 4, Folder 17	Gilbert, Horace N. 1945 (re: Mrs. Simmel) [1 item]
Box 4, Folder 18	Ginsberg, Elsa 1929 [1 item]
Box 4, Folder 19	Glitscher, Karl 1922 [1 item]
Box 4, Folder 20	Glocker, Richard 1947 [3 items]
Box 4, Folder 21	Goetz, Alexander 1962 [1 item]
Box 4, Folder 22	Goldman, O. B. 1922 [5 items]
Box 4, Folder 23	Gorter, C. J. 1937 [2 items]
Box 4, Folder 24	Green, Jerome B. 1923 [1 item]
Box 4, Folder 25	Groot, Willem de 1929 [1 item]
Box 4, Folder 26	Guggenheim Memorial Foundation 1927, 1929 [2 items: printed matter]
Box 4, Folder 27	Gurian, Clara 1936 [1 item]
Box 4, Folder 28	Guttman, Lester 1949 [1 item]
Box 4, Folder 29	Haas, Arthur 1926-1933 [8 items]
Box 4, Folder 30	Haas, Stephen 1939 [1 item]
Box 4, Folder 31	Haas, Wander Johannes de 1930, 1932 [2 items]
Box 4, Folder 32	Haft, Joseph 1942 [1 item]
Box 4, Folder 33	Hale, George Ellery 1919, 1931-1934 [4 items]

Section I: Correspondence**Part A: General Correspondence**

Box 4, Folder 34	Hall, Harvey 1950 [7 items]
Box 4, Folder 35	Halpern, Otto 1949-1963 [15 items]
Box 4, Folder 36	Miscellaneous: Biography, text of Halpern article "On a Nuclear Test Ban," newsclippings, Epstein notes See also: National Academy of Sciences (NAS) correspondence 1952
Box 4, Folder 37	Hastings, Arlls 1923 [1 item]
Box 4, Folder 38	Hausner, G. ca 1937 [1 item: card]
Box 4, Folder 39	Hebrew Sheltering and Immigrant Aid Society of America 1939 (re: Georg Gregor Eisenstadt) [1 item]
Box 4	Hebrew University, American Friends of
Box 4, Folder 40	1925, 1940-1943 [10 items]
Box 4, Folder 41	1944 (includes program, handwritten speech, and correspondence re program at Ambassador Hotel on Mar. 26, 1944: "An Institute on the Hebrew University of Palestine, Its Work and Significance") [23 items]
Box 4, Folder 42	1945-1948, 1955 [22 items]
Box 4, Folder 43	Academic Council: membership receipts, minutes of meetings, list of names 1942-1949 [8 items] See also: Farkas, Adalbert; Fraenkel, A. A.
Box 4, Folder 44	Heilbron, John 1962 See also: Sources for History of Quantum Physics
Box 4, Folder 45	Heisenberg, Werner ca 1930 [1 item: copy]
Box 4	Heitler, Walter See: Caltech Physics Dept., Cosmic Ray Symposium
Box 4, Folder 46	Helds, ? 1922
Box 4, Folder 47	Helwingsche Verlagsbuchhandlung 1922 (re: physics book) [1 item]
Box 4, Folder 48	Hessaby, M. 1945, 1946 [3 items]
Box 4, Folder 49	Hirsch, Otto E. 1946 [1 item]
Box 4, Folder 50	Hochfelder, Julius 1944 [1 item]
Box 4, Folder 51	Hollzer, H. A. 1944 [2 items]
Box 4, Folder 52	Holroyd, Howard B. 1953, 1955 [2 items]
Box 4	Hook, Sidney See: Congress for Cultural Freedom Aug. 17, 1951, Nov. 2, 1951
Box 4, Folder 53	Hopf, Ludwig 1935 [1 item]
Box 4, Folder 54	Howard, Inga 1942 [1 item]
Box 4, Folder 55	Howenstein, Karl 1952 [1 item]
Box 4, Folder 56	Hsu, Chang-Pen 1950 [5 items]
Box 4, Folder 57	Huber, Josef Franz 1923 [3 items]
Box 4, Folder 58	Huckel, Erich 1922 [1 item]
Box 4, Folder 59	Hughes Research Laboratories 1953-1959 (re: Epstein's work as consultant at microwave lab) [29 items]
Box 4, Folder 60	Hulburt, E. O. 1931 [1 item]
Box 4, Folder 61	Hulot, J. 1922 [1 item]
Box 4, Folder 62	Huntington Library 1922 (re: 1st ed. Isaac Newton's Principia) [1 item]
Box 4, Folder 63	Indiana, University of 1947 (re: summer session course) [4 items]
Box 4	Infeld, Leopold See: Loria, S.
Box 4, Folder 64	Institute International Education 1934, 1935 [2 items: bulletins]
Box 4, Folder 65	Investments, correspondence re 1928-1940 [7 items]
Box 4, Folder 66	Invitations, miscellaneous 1960, undated [5 items]
Box 4, Folder 67	Irani, K. D. 1946 [1 item]
Box 4, Folder 68	Iskraut, Richard W. 1945 [2 items]
Box 4, Folder 69	Israelitische Cultusgemeinde 1920 [1 item]
Box 5, Folder 1	Jaffé, George 1941-1947 [6 items: biography, publications, correspondence]
Box 5	Jewett, Frank B. See: Reviews of Modern Physics
Box 5, Folder 2	Jewish People's University 1944 [2 items]
Box 5, Folder 3	Job requests and recommendations (A-Z; see folder for list of names)
Box 5, Folder 4	Judy, Clinton K. n.d. [2 items: notes]
Box 5, Folder 5	Kahler, H. 1923, n.d. [2 items]
Box 5, Folder 6	Kaiser-Wilhelm Institute for Physics (PE notes) [1 item]
Box 5, Folder 7	Kalman, Eugene 1931 [1 item]
Box 5, Folder 8	Kaplan, J. 1947 See also: Hebrew University, American Friends of 1945 [1 item]
Box 5, Folder 9	Kapzov, N. 1922-1923 [3 items]
Box 5, Folder 10	Kármán, Theodore von 1947-1954, 1964 (correspondence, clippings, dedication of TVK Memorial Collection, USAF Academy Library, 1964) [7 items] See also: Photo collection for photos of TVK bust by Judith Bland
Box 5, Folder 11	Kasterin, Nicolai Petrovich 1937 [1 item]
Box 5, Folder 12	Kelly, M. J. 1947 [3 items]
Box 5, Folder 13	Kent, Norton A. 1927 [1 item]

Section I: Correspondence**Part A: General Correspondence**

Box 5, Folder 14 **Kevles, Daniel 1963 [3 items]**
Box 5, Folder 15 **Klein, Martin 1956, n.d. (letter and manuscript on "Ehrenfest's Contributions to the Development of Quantum Statistics") [3 items]**
Box 5, Folder 16 **Klein, Oskar 1924 [1 item: part missing]**
Box 5, Folder 17 **Klemperer, W. B. 1957 [1 item]**
Box 5, Folder 18 **Knapp, I. 1932 [1 item]**
Box 5, Folder 19 **Knollman, G. C. 1952 [1 item]**
Box 5, Folder 20 **Knopf, Alfred A. 1939 [1 item]**
Box 5, Folder 21 **Knudsen, Vern O. 1945, 1948 [5 items, including manuscripts]**
Box 5, Folder 22 **Kobler, A. 1923, n.d. [2 items]**
Box 5, Folder 23 **Koch, Peter Paul 1921, 1931 4 items, includes 1 photocopy**
Box 5, Folder 24 **Kofink, Karl Walter 1963 [1 item: birthday card]**
Box 5, Folder 25 **Kolachov, Paul I. 1932 [1 item]**
Box 5, Folder 26 **Kopteiva, Z. 1922 [1 item]**
Box 5 **Korach, Alfred See: Levy, Herbert**
Box 5 **Korff, Serge A. See: Caltech Physics Dept., Cosmic Ray Symposium**
Box 5, Folder 27 **Krakowski, (?) 1943 [1 item]**
Box 5, Folder 28 **Kramers, Hendrik Antony 1947-1948 [2 items, includes record print]**
Box 5, Folder 29 **Krenkel, K. 1921 [1 item]**
Box 5 **Krick, Irving P. See: Army Air Forces, Weather Central Division**
Box 5, Folder 30 **Kyropoulos, Spiro 1948 [1 item]**
Box 5, Folder 31 **La Mer, Victor K. 1948 [1 item]**
Box 5, Folder 32 **Landé, Alfred 1921-1923, 1933 [7 items, includes 4 record prints]**
Box 5 **Lattes, C. M. G. See: Caltech Physics Dept., Cosmic Ray Symposium**
Box 5, Folder 33 **Laue, Max von 1922-1937 [8 items: clippings, misc, reprints, correspondence]**
Box 5, Folder 34 **Lawrence, Ernest Orlando n.d. [1 item: note]**
Box 5, Folder 35 **Leeuwen, Hendrika Johanna van 1922 [1 item]**
Box 5, Folder 36 **Leischer, A. 1921 [2 items]**
Box 5, Folder 37 **Leprince-Rinquet 1948 [1 item]**
Box 5, Folder 38 **Levy, Herbert 1940 [1 item]**
Box 5, Folder 39 **Lewis, Gilbert N. 1920 [1 item]**
Box 5, Folder 40 **Lewis, Mina 1943 [1 item]**
Box 5, Folder 41 **Lichtenstein, L. 1921 [2 items]**
Box 5, Folder 42 **Lin, C. C. 1949 [1 item]**
Box 5, Folder 43 **Littlefield, E. E. n.d [1 item]**
Box 5, Folder 44 **Lomonosoff, V. 1949 [1 item]**
Box 5, Folder 45 **London, Fritz 1948 [1 item]**
Box 5, Folder 46 **Lorentz, Hendrik Antoon [6 items: reprint of article on HAL by M. Born, 3 photocopies, misc. material]**
Box 5, Folder 47 **Loria, S. 1930-1946 [4 items]**
Box 5, Folder 48 **Los Angeles Civil Service Commissioners 1947**
Box 5, Folder 49 **Los Angeles Institute of Psychoanalysis 1952 [1 item]**
Box 5, Folder 50 **Löwy, Heinrich 1938 [3 items]**
Box 5, Folder 51 **Luria, Salvador 1940 [1 item]**
Box 5, Folder 52 **Lutz, G. N. 1929-30 [3 items]**
Box 5, Folder 53 **Maanen, Adriaan van 1931 [1 item]**
Box 5, Folder 54 **Mahzay, Saddy 1932 [1 item]**
Box 5, Folder 55 **Margenau, Henry 1948 [3 items]**
Box 5, Folder 56 **Martin Company 1962 [1 item: reprint request]**
Box 5, Folder 57 **Meissner, Karl Wilhelm 1922-1923, 1937 [3 items]**
Box 5, Folder 58 **Menzel, Donald H. 1950 [1 item]**
Box 5, Folder 59 **Merrill, Paul W. 1922 [1 item]**
Box 5, Folder 60 **Meyer, Edgar 1919-1938 [8 items]**
Box 5, Folder 61 **Meyer, E. Michael 1938 [1 item]**
Box 5, Folder 62 **Miller, Dayton C. 1930 [1 item]**
Box 5, Folder 63 **Millikan, Robert Andrews 1922-1944 [13 items]**
Box 5, Folder 64 **Mills, M. n.d. [1 item]**
Box 5, Folder 65 **Millsaps, Knox 1963 [1 item] See also: Air Force Missile Development Center [1 item]**
Box 5, Folder 66 **Minkowski, Mechyslaw 1921-1923 [5 items]**

Section I: Correspondence**Part A: General Correspondence**

Box 5, Folder 67 **Minnesota, University of 1923 (re: position) [1 item]**
Box 5, Folder 68 **Miscellaneous**
Box 5, Folder 69 **M■ller, C. 1948-1949 [4 items]**
Box 5, Folder 70 **More, Emery 1947 [1 item]**
Box 5, Folder 71 **Morgan, Thomas Hunt 1933 [1 item] See also: Courant, Richard [1 item]**
Box 5, Folder 72 **Mott Smith, Lewis 1931 [1 item]**
Box 5, Folder 73 **Muller, Edmund P. 1931 [2 items]**
Box 5, Folder 74 **Munk, Walter H. 1951-1952 [6 items]**
Box 5, Folder 75 **Muskat, Morris 1928, 1930 [2 items]**
Box 5, Folder 76 **Mysels, Karol J. 1948 [1 item]**
Box 6 **National Academy of Sciences [47 items]**
Box 6, Folder 1 **1922 -1960**
Box 6, Folder 2 **Member and nominee CV's**
Box 6, Folder 3 **National Council of American-Soviet Friendship, Inc. 1945 [5 items]**
Box 6, Folder 4 **National Defense Research 1941-1942 (re: PSE research, US Navy Radio and Sound Labs) [26 items]**
Box 6, Folder 5 **National Research Council 1952, 1953 (re: query Soviet physics; research proposal) [4 items]**
Box 6, Folder 6 **National Science Foundation 1947-1962 (re: Engineering Education Symposium, request for research proposal review) [12 items, includes copy of "National Science Foundation Act of 1947"]**
Box 6, Folder 7 **National Science Fund 1948-1949 (re: Mayer Nature of Light Award) [20 items]**
Box 6, Folder 8 **Naval Ordnance Laboratories 1948-1949, 1963 (re: Fluid Mechanics Symposium June 27-July 1, 1949, Silver Spring, MD) [31 items]**
Box 6, Folder 9 **Neutra, Richard and Dione 1953, n.d. [3 items]**
Box 6, Folder 10 **Newspaper clippings 1930-1931**
Box 6, Folder 11 **Niessen, Karel Frederik 1931 [1 item: postcard]**
Box 6, Folder 12 **Noyes, Arthur Amos 1931 [1 item]**
Box 6, Folder 13 **Obituary notices Feb. 8, 1966**
Box 6 **Office Naval Research [21 items]**
Box 6, Folder 14 **Correspondence 1946-1960**
Box 6, Folder 15 **Proposals, contracts, miscellaneous 1949-1960**
Box 6 **Office Naval Research, Project VISTA [7 items]**
Box 6, Folder 16 **Correspondence 1951**
Box 6, Folder 17 **Reprints, notes, etc.**
Box 6, Folder 18 **Office Ordnance Research 1955 (re: "Diamat" article) [1 item]**
Box 6, Folder 19 **Onnes, H. Kammerlingh 1922 [2 items]**
Box 6, Folder 20 **Oppenheimer, J. Robert 1946 [1 item] See also: Caltech Physics Dept., Cosmic Ray Symposium**
Box 6, Folder 21 **Ortvay, Rudolf 1922 [1 item]**
Box 6, Folder 22 **Pahlgren, Greta R. 1921 [1 item]**
Box 6, Folder 23 **Palyi, Melchior and Flora Klee 1920-1960 [10 items]**
Box 6, Folder 24 **Pasadena School District 1935-1937 (re: Educational Inquiry Committee) [28 items: includes publications, newsclippings]**
Box 6, Folder 25 **Paschen, F. 1921 [1 item]**
Box 6, Folder 26 **Patents 1954 [3 items]**
Box 6, Folder 27 **Pauli, Wolfgang 1922-1940 [5 items]**
Box 6, Folder 28 **Pauling, Linus and Ava Helen 1961 [1 item] See also: NAS, June 8, 1945; Reviews of Modern Physics**
Box 6, Folder 29 **Pekeris, Chaim L. 1945 [2 items]**
Box 6, Folder 30 **Pelle, James S. 1962 [1 item]**
Box 6, Folder 31 **Pennsylvania State College 1952 [1 item]**
Box 6, Folder 32 **Peysack, Leo 1941 [3 items]**
Box 6, Folder 33 **Pikler, Andrew 1950 [3 items]**
Box 6, Folder 34 **Planck, Max 1938 [1 item: original in safe]**
Box 6, Folder 35 **Plesset, Milton 1933, 1934, 1956 [4 items] See also: Reviews of Modern Physics**
Box 6, Folder 36 **Plewes, A. C. 1944 [1 item]**
Box 7, Folder 1 **Podolsky, Boris and Rose 1932, 1942 [2 items] See also: Reviews of Modern Physics**
Box 7, Folder 2 **Pol, Barth van der 1930, 1938 [2 items]**
Box 7, Folder 3 **Pólya, George 1921-1933 [9 items]**
Box 7, Folder 4 **Polytechnic Institute of Brooklyn 1947 [1 item]**
Box 7, Folder 5 **Pomerantz, J. 1953 [1 item]**
Box 7, Folder 6 **Princeton University, Aeronautics Publication Program 1950-1951 [8 items: correspondence and outlines]**

Section I: Correspondence**Part A: General Correspondence**

Box 7, Folder 7	Psychoanalytic Study Group of Los Angeles 1946 [2 items]
Box 7, Folder 8	Publications (re: miscellaneous, journal articles) 1922-1956 [approx. 40 items]
Box 7, Folder 9	Publications: miscellaneous lists
Box 7, Folder 10	Publishers: miscellaneous correspondence 1936-1960 [approx. 25 items]
Box 7, Folder 11	Rabinovitch, Gregor 1922-1923, 1931 [10 items, includes correspondence and newspaper clippings re: exhibit of Rabinovitch's etchings, one postcard with woodcut on reverse]
Box 7, Folder 12	Rafeedie, Ann (?) 1965 [1 item]
Box 7, Folder 13	Ramo-Wooldridge Corporation 1954-1957 (re: PSE consulting work on "The investigation of phenomena associated with ionized and dissociated gases") [9 items]
Box 7, Folder 14	Reichenbach, Hans 1941-1945 [3 items]
Box 7, Folder 15	Reprint requests 1922-1962
Box 7, Folder 16	Reviews (re: papers by others) 1949, 1956 [3 items]
Box 7	Reviews of Modern Physics (volume in honor of R. A. Millikan's 80th birthday) [42 items]
Box 7, Folder 17	April - July 1947
Box 7, Folder 18	Aug. - Oct. 1947
Box 7, Folder 19	1947 - Nov. 1948
Box 7, Folder 20	Miscellaneous notes, manuscripts [14 items]
Box 7, Folder 21	Rice, Oscar K. 1943 (re: request for research assistant) [1 item]
Box 7, Folder 22	Riggsby, Ernest D. 1963 [1 item]
Box 7, Folder 23	Robertson, Howard P. 1928, 1933, n.d. 3 items, includes brief description of HPR by PSE
Box 7	Rochester, George D. See: Caltech Physics Dept., Cosmic Ray Symposium
Box 7, Folder 24	Roe, Anne 1948, 1951 [7 items]
Box 7, Folder 25	Roller, Duane 1948, n.d. See also: American Journal of Physics; Reviews of Modern Physics
Box 7, Folder 26	Romer, Alfred 1960 [1 item]
Box 7, Folder 27	Rosbaud, P. 1958 [1 item]
Box 7, Folder 28	Rosenfeld, Herbert 1943, 1944 [2 items]
Box 7, Folder 29	Rosenthal, Arthur 1931-1946, 1960 [9 items, includes obituary]
Box 7, Folder 30	Rosenthal, Jenny E. 1933 [1 item]
Box 7, Folder 31	Rossi, Bruno 1930 See also: Caltech Physics Dept. Cosmic Ray Symposium
Box 7, Folder 32	Rostin, G. 1922 [2 items]
Box 7, Folder 33	Rott, Leo 1946 [4 items]
Box 7, Folder 34	Rubinowicz, Adalbert 1918-1922 [8 items, includes 3 record prints]
Box 7, Folder 35	Russell, Henry Norris 1926 (re: manuscript, "Notes on Observations of Lunar Detail") [1 item]
Box 7, Folder 36	Russian-American Club of Los Angeles 1944-1945 [2 items]
Box 7, Folder 37	Rutherford, Ernest 1920 [1 item: photocopy]
Box 7, Folder 38	Sachs, Hanns 1933 [2 items]
Box 7, Folder 39	Saint-John, Charles Edward n.d. [1 item: Christmas card]
Box 7, Folder 40	Sandage, Allan 1956 [1 item]
Box 7, Folder 41	Sande Bakhuyzen, Henricus G. van de 1922 [1 item]
Box 7, Folder 42	Schachenmeier, Richard Hermann 1922 [1 item]
Box 7, Folder 43	Scheel, Karl 1922 [4 items]
Box 7	Schein, Marcel See: Caltech Physics Dept., Cosmic Ray Symposium
Box 7, Folder 44	Schelling, J. C. 1934 [2 items]
Box 7, Folder 45	Schenker & Company 1922 (re: transport of PSE's books, etc.) [1 item]
Box 7, Folder 46	Schrödinger, Erwin 1937 [1 item: photocopy of postcard]
Box 7, Folder 47	Scott, J. E. 1962 [1 item]
Box 7, Folder 48	Segall, Gabriel M. D. 1941, 1952, 1959 [4 items]
Box 7, Folder 49	Shankland, R. S. 1954 [1 item]
Box 7, Folder 50	Shockley, William 1942 (re: lecture) [1 item: brief note]
Box 7, Folder 51	Silvertooth, Wilbur 1936 [1 item]
Box 7, Folder 52	Simmel, Ernst 1935-1936, 1944-1945 [4 items]
Box 8, Folder 1	Sinclair, Upton 1931-1947 [5 items, includes 1 printed New Year's letter]
Box 8, Folder 2	Societies, miscellaneous 1946, 1950 [2 items]
Box 8, Folder 3	Sommerfeld, Arnold 1922-1923, 1937, 1948-1949 [12 items, includes 2 photocopies]
Box 8, Folder 4	Sources for History of Quantum Physics 1962-1963 [9 items, includes transcript of interview]
Box 8, Folder 5	Steingardt, Fred 1948 [1 item]
Box 8, Folder 6	Stern, Alfred 1949 [1 item]
Box 8, Folder 7	Stern, Otto 1923, 1946 [2 items]

Section I: Correspondence**Part A: General Correspondence**

Box 8, Folder 8	Stiehl, Max 1923 [2 items: 1 letter and 1 pamphlet]
Box 8, Folder 9	Stobbe, Martin 1936 (includes letters re Stobbe) [6 items]
Box 8, Folder 10	Straus, Ernst n.d. (re: Helen Dukas) [1 item]
Box 8, Folder 11	Stromberg, Gustaf 1946 [1 item]
Box 8, Folder 12	Struck, Hermann 1923, 1930-1935 [8 items]
Box 8, Folder 13	Sullivan, Sylvester 1943
Box 8, Folder 14	Swann, William Francis Gray 1930 [2 items]
Box 8, Folder 15	Takamine, Toshio 1923-1931 [5 items]
Box 8, Folder 16	Thomas Chemical Company 1955 (re: query) [1 item]
Box 8, Folder 17	Thomassen, Nepo 1932, 1937 (includes photographs of Thomassen family) [5 items]
Box 8, Folder 18	Tolman, Richard Chace (text of address on Bohr and biography by John G. Kirkwood) [2 items, undated]
Box 8, Folder 19	Trau, Elazar 1947-1948 [6 items]
Box 8, Folder 20	Troll, Frederico 1947 [1 item]
Box 8, Folder 21	Tunell, George 1954 [1 item]
Box 8, Folder 22	Unidentified
Box 8, Folder 23	Union Carbide and Carbon Corporation 1955 (re: booklet) [1 item]
Box 8, Folder 24	Urey, Harold C. 1948 (re: dinner in support of E.U. Condon) [3 items]
Box 8, Folder 25	USSR Academy of Sciences 1945 [1 item]
Box 8	Vallarta, Manuel S. See: Caltech Physics Dept., Cosmic Ray Symposium
Box 8, Folder 26	Van Bladel, J. B. 1962 [1 item]
Box 8, Folder 27	Van Ryselberghe, (?) 1937 [1 item]
Box 8, Folder 28	Vautra (?), Richard n.d. [1 item]
Box 8, Folder 29	Veintrach, R. 1940 [1 item]
Box 8, Folder 30	Velikovsky, Immanuel 1945 [2 items]
Box 8, Folder 31	Watson, Earnest C. n.d., 1947 (re: Dirac) [2 items]
Box 8, Folder 32	Wayne, Palma n.d. [3 items]
Box 8, Folder 33	Wehrli, Max 1922, 1926 [3 items]
Box 8, Folder 34	Weinbaum, Sidney 1924, 1949-1952 [8 items]
Box 8, Folder 35	Weinberg, Frederick 1953, 1957 [3 items]
Box 8, Folder 36	Weinstein, Alexander 1924 [1 item]
Box 8, Folder 37	Western Jewish Institute 1945 [1 item]
Box 8, Folder 38	Westphal, Wilhelm 1924 [1 item]
Box 8, Folder 39	Weyl, Hermann 1922, 1924, 1953 [4 items]
Box 8, Folder 40	Weysenhoff, Tom 1920 [1 item]
Box 8, Folder 41	Whaling, W. 1959 (re: review on "Notable Contributions from the Division...") [3 items]
Box 8	Wheeler, John A. See: Caltech Physics Dept., Cosmic Ray Symposium
Box 8, Folder 42	Whipple, Fred L. 1949 [1 item]
Box 8, Folder 43	Wick, Gian Carlo 1949-1950 [4 items]
Box 8, Folder 44	Wiley, John and Sons, Inc. 1934-1948 [57 items]
Box 8, Folder 45	Williams, W. H. n.d. [1 item]
Box 8, Folder 46	Winiewski, Felix Joachim von 1934 [1 item]
Box 8, Folder 47	Wolffke, Mieczslaw 1923 [1 item]
Box 8, Folder 48	Wright, Fred E. 1939 [1 item]
Box 8, Folder 49	Yale University Press 1931-1939 (re: Gibbs Commentary manuscript) [6 items]
Box 8, Folder 50	Young, Richard D. 1951 [5 items]
Box 8, Folder 51	Zarotschenezeff, M. Z. 1944 [3 items]
Box 8, Folder 52	Zenneck, Jonathan Adolf Wilhelm 1930, 1931 [2 items]
Box 8, Folder 53	Zentralbibliothek, Zurich 1955 (re: Einstein article) [2 items]
Box 8, Folder 54	Zerkowitz, Guido 1919, 1933, 1938 [4 items]

Part B: Family Correspondence and Documents

Box 9, Folder 1	Eisenstadt, Georg (Gregor) 1935-1939 [2 items]
Box 9, Folder 2	Eliasberg, Alex 1937 [1 item]
Box 9, Folder 3	Eliasberg, Wladimir 1922 [1 item]
Box 9, Folder 4	Eliasberg family (Paul, Frieda, Samuel) 1937, 1940, 1946, 1948 [5 items]
Box 9, Folder 5	Epstein, Alice Ryckman (PSE's wife) 1949 [2 items]

Section I: Correspondence

Part B: Family Correspondence and Documents

Box 9, Folder 6	Epstein, Hedwig Lida (PSE's sister) 1912-1913 [7 items, includes passport]
Box 9, Folder 7	Epstein, Sara Lurie (PSE's mother) [2 items: photocopies of excerpts from Dostoyevsky's The Diary of a Writer]
Box 9, Folder 8	Lurie, Irene (Baum) 1940-1941, 1944-1946, 1951, undated [14 items]
Box 9, Folder 9	Lurie, Rashel 1930-1932, 1938 [6 items]
Box 9, Folder 10	Lurie, Samuel and Selma 1921-1923, 1931-1932, 1940, 1947, 1950, n.d. [18 items]
Box 9, Folder 11	Mase, Sadi 1938, 1941 [2 items]
Box 9, Folder 12	Mase, Vera Lurie (PSE's cousin) 1930, 1935, 1937-1940 [20 items]
Box 9, Folder 13	Miscellaneous family letters 1871-1882, 1921-1922, 1935, 1942, 1944 [18 items]

Section II: Biographical and Personal

- Box 9, Folder 14 **Miscellaneous articles, obituary, records, etc.**
- Box 9, Folder 15 **Autobiographical notes: description of student days in Moscow ca 1901-1905 (includes revised version by daughter)**
- Box 9, Folder 16 **Bibliography, list of publications**
- Box 9, Folder 17 **Manuscripts: "Recollections" and "Family Information," by PSE 1933 [handwritten on notebook paper]**
- Box 10, Folder 1 **Miscellaneous glass slides**
- Box 10, Folder 2 **Bills and receipts**
- Box 10, Folder 3 **Biographies of others**
- Box 10, Folder 4 **Diplomas, credentials, university matters**
- Box 10, Folder 5 **Income tax forms, etc.**
- Box 10, Folder 6 **Industrial Employment Review Board: correspondence re: security clearance 1952-1953**
- Box 10, Folder 7 **Insurance**
- Box 10, Folder 8 **Miscellaneous**
- Box 10, Folder 9 **Passports, ID's, etc.**
- Box 10 **Photographs**
- Box 10, Folder 10 **Caltech group photos 1922-1931**
- Box 10, Folder 11 **Epstein 1930s and undated**
- Box 11, Folder 1 **Group photos 1912, 1950s [mostly undated]**
- Box 11, Folder 2 **Miscellaneous: signed lithograph of Einstein by Hermann Struck #148/150; signed portraits of H. A. Lorentz ca 1930; signed print by Joseph Huber**
- Box 11, Folder 3 **Scientists**

Section III: Articles and Lectures

- Box 12, Folder 1 **Address in honor of Oliver Heaviside 1950**
- Box 12, Folder 2 **Address in honor of Robert A. Millikan 1948**
- Box 12, Folder 3 **"Bestätigte Traumdeutungen" (Epstein manuscript?) n.d.**
- Box 12, Folder 4 **Comments on draft: V. I. Lenin and Natural Science, by A. A. Maximov n.d.**
- Box 12, Folder 5 **Comments on "The Position of Scientists in Russia" n.d.**
- Box 12, Folder 6 **"The Death Urge" n.d.**
- Box 12, Folder 7 **"The Diamat and the Point of View of Modern Science" n.d.**
- Box 12, Folder 8 **"Einstein's Contribution to Human Thought" ca 1922 [the address is reported in the Star News as being delivered Feb. 24, 1925]**

- Box 12, Folder 9 **Eulogy for Mrs. von Kármán n.d.**
- Box 12, Folder 10 **"Freud" n.d.**
- Box 12, Folder 11 **"The Frontiers of Science" 1935**
- Box 12, Folder 12 **Incomplete and unidentified manuscript n.d.**
- Box 12, Folder 13 **Jewish Academic Society of Southern California: introductory remarks n.d.**
- Box 12, Folder 14 **"The Mark of Cain" n.d. [2 copies]**
- Box 12, Folder 15 **"Metaphysics in the Light of Modern Science" 1935**
- Box 12, Folder 16 **Miscellaneous notes**
- Box 12, Folder 17 **"The New Physics" (book review) 1922**
- Box 12, Folder 18 **"Philosophers vs. Scientists" n.d.**
- Box 12, Folder 19 **"The Principles of Quantum Mechanics by P. A. M. Dirac" (book review) ca 1931**
- Box 12, Folder 20 **"The Problem of Reality" n.d.**
- Box 12, Folder 21 **"Psychoanalytic Appreciation of Historical Research" n.d.**
- Box 12, Folder 22 **"A Psychoanalytical Appreciation of Rebecca West's Novel, The Judge" n.d.**
- Box 12, Folder 23 **"The Regimentation of Thought and Science in Russia" 1951**
- Box 12, Folder 24 **"The Restless Atom by Alfred Romer" (book review) n.d.**
- Box 12, Folder 25 **"Robert A. Millikan as Physicist and Teacher" 1948**
- Box 12, Folder 26 **"Status of Atomic Research" n.d.**
- Box 12, Folder 27 **"Trends of Modern Science" n.d.**

Section IV: Notebooks

Part A: Pre-Caltech, ca 1898-1921

Box 13	Technical notebooks
Box 13, Folder 1	Technical notes, Russian ca 1906-1910
Box 13, Folder 2	"Kinetische Gastheorie," course lecture by A. Sommerfeld, Munich, summer semester 1910 [includes technical notes in Russian]
Box 13, Folder 3	"Theorie der Wärmestrahlung," course lecture by Dr. P. Debye, Munich, winter semester 1910-1911
Box 13, Folder 4	"Geometrische Optik," course lecture by A. Sommerfeld, Munich, winter semester 1910-11
Box 13, Folder 5	"Ausgewählte Kapitel der Relativitäts-Theorie," A. Sommerfeld, Munich, summer semester 1911
Box 13, Folder 6	"Röntgenstrahlen und Verwandtes," A. Sommerfeld, Munich, winter semester 1911-12
Box 13, Folder 7	"Elektronentheorie der Metalle," A. Sommerfeld, Munich, summer semester 1912 [includes technical notes in English, Apr. 1939]
Box 13, Folder 8	"Quanten Theorie," course lecture by A. Sommerfeld, Munich, winter semester 1912-13
Box 13, Folder 9	"Ausgewählte Kapitel der Statistik," course lecture by A. Sommerfeld, Munich, winter semester 1913-14
Box 13, Folder 10	Technical notes ca 1914 [in German]
Box 13, Folder 11	"Über die Grundlagen der Elektrodynamik," A. Sommerfeld, Munich, summer semester 1916
Box 13, Folder 12	"Lektüre der Riemannschen Habilitationsschrift," Hermann Weyl, winter 1920-21 [includes notes in English: "Schrödinger," Feb. 22, 1927]
Box 14	Non-technical notebooks
Box 14, Folder 1	"Traumbuch" Nov. 1911 - Aug. 1921
Box 14, Folder 2	Recipes n.d. [in German]
Box 14, Folder 3	"Bruchstück einer Selbstanalyse," Leiden June-July 1921 [includes loose notes in English]
Box 14, Folder 4	Mixed notes: psychoanalytic and myths in German and English n.d.

Part B: Caltech Period, 1921-1955

Box 14	Technical notebooks
Box 14, Folder 5	"Light and matter," lectures by H. Lorentz, Pasadena and "For the library" (book lists) winter term, 1922
Box 14, Folder 6	Technical notes and bibliography in German and English; genealogical notes on the Lurie family [up to 1923]
Box 14, Folder 7	Technical and bibliographic notes in German, English and Russian [up to 1926]
Box 14, Folder 8	Lectures by Max Born Feb. 1926
Box 14	Technical notes
Box 14, Folder 9	Late 1920s - early 1930s
Box 14, Folder 10	ca 1930
Box 14, Folder 11	(PSE's class lectures?) ca 1930
Box 15, Folders 1-2	Early 1930s 2 folders
Box 15, Folder 3	Technical notes, travel notes and comments on Chicago Art Institute 1934
Box 15, Folder 4	Technical notes (PSE's class lectures?) ca 1938-1939
Box 15, Folder 5	Technical notes 1939
Box 15, Folder 6	"Mixed Notes" 1939
Box 15, Folder 7	Notes on technical subjects n.d. [probably 1930s]
Box 16, Folder 1	Notes and addresses 1930s
Box 16, Folder 2	"Notes (first hand)" 1930s
Box 16, Folder 3	"Notes (mixed)" 1940
Box 16, Folder 4	"Lectures 1940"
Box 16, Folder 5-6	"Absorption of acoustic waves," vols. 1 and 2 1940 [2 folders]
Box 16, Folder 7	"Notes (for papers)" 1940-1941
Box 16, Folder 8	"Lectures I, additions" 1942
Box 16, Folder 9	"Notes (second hand)" 1940-1942
Box 16, Folder 10	"Notes (first hand) I" 1941

Section IV: Notebooks

Part B: Caltech Period, 1921-1955

Box 16, Folder 11	"Sound problems" 1941-1942
Box 16, Folder 12	"Notes (first hand)" 1941-1943
Box 16, Folder 13	"Notes for papers" 1941, 1943, 1945, 1948
Box 16, Folder 14	"Sound problems" 1942
Box 17, Folder 1	"Meteorology I" 1942
Box 17, Folder 2	"Meteorology II" 1942
Box 17, Folder 3	"Lectures" 1943
Box 17, Folder 4	"Note book (first hand)" 1943
Box 17, Folder 5	"Relativity and other first hand notes" 1943-1945
Box 17, Folder 6	"Historical notes: A. Einstein; Planck (How did he find the Planck Law)" n.d. [post 1943]
Box 17, Folder 7	"Second hand notes on quantum theory (I)" n.d. [probably 1940s]
Box 17, Folder 8	"Second hand notes on quantum theory (II) and other subjects" n.d. [probably 1940s]
Box 17, Folder 9	"Theory of heat conduction" n.d. [probably 1940s]
Box 17, Folder 10	"Upper atmosphere II" n.d. [probably late 1940s]
Box 17, Folder 11	"Fluid mechanics" n.d. [probably 1940s - 1950s]
Box 17, Folder 12	"Sound problems" n.d. [probably 1940s - 1950s]
Box 17, Folder 13	"Notes on literature," technical bibliography 1944
Box 17, Folder 14	"Lectures: quantum theory and statistics" 1952
Box 17, Folder 15	"Notes (second hand), propagation des ondes" 1944
Box 17, Folder 16	"Notes (second hand)" 1944-1945
Box 17, Folder 17	"First hand" 1945
Box 17, Folder 18	"First hand notes" 1945-1946
Box 18, Folder 1	"Second and first hand notes" 1946
Box 18, Folder 2	"Lectures" 1946-1947
Box 18, Folder 3	Technical notes, with loose correspondence 1948-1954
Box 18, Folder 4	"Lectures" 1947-1948
Box 18, Folder 5	"First hand notes and second (relating to mechanics and other subjects). In Part ONR." 1947
Box 18, Folder 6	"First hand (and some weather division)" 1947
Box 18, Folder 7	"Interior ballistics" 1949
Box 18, Folder 8	"Shock wave problems and other subjects" [1949 and after]
Box 18, Folder 9	"Lectures on physical optics (winter)" 1949
Box 18, Folder 10	"Library orders" 1949-1952
Box 18, Folder 11	"Aerothermodynamics. Equations of state" [1950 and after]
Box 18, Folder 12	"Thermo-elasticity" 1950-51
Box 18, Folder 13	"Industrial problems" 1951
Box 18, Folder 14	Mixed notes in German and English n.d.
Box 18, Folder 15	"Benioff's problem" n.d.
Box 19	Non-Technical notebooks
Box 19, Folder 1	Datebook 1922
Box 19, Folder 1.1	English lessons n.d. [probably 1920s]
Box 19, Folder 2	"Notes about psychology of creativity and related topics" [post 1958]
Box 19, Folder 3	"Albert Einstein," notes and speech, 1937; "Notes for a talk about the Congress for Cultural Freedom," n.d.
Box 19, Folder 4	Historical notes in German and English n.d. [probably 1930s]
Box 19, Folder 5	Historical notes, German and English n.d [probably 1930s]
Box 19, Folder 6	Addresses; notes on Freud and other readings, miscellaneous technical notes n.d. [probably 1930s]
Box 19, Folder 7	Addresses; notes on mixed subjects in German and English [notes partially dated 1933, 1935]
Box 19, Folder 8	Travel diary, Washington, D.C. 1942
Box 19, Folder 9	Talk: "Psychoanalysis of historical research," 1949; notes on Freud, n.d. [post 1950]; notes for a talk, "Psychoanalysis as a means of understanding fictional productions," 1952
Box 19, Folder 10	"Political and biographical notes" n.d. [probably 1940s]
Box 19, Folder 11	"Hebrew University affairs" 1940s
Box 19, Folder 12	Travel diary 1951.
Box 19, Folder 13	Psychological warfare (no. 1) 1950s
Box 19, Folder 14	Psychological warfare (no. 2) 1950s
Box 19, Folder 15	Notes on Russian scientists n.d. [probably 1950s]
Box 20, Folder 1	"ONR - human relations research" 1950s
Box 20, Folder 2	"The death urge" n.d.

Section IV: Notebooks

Part B: Caltech Period, 1921-1955

Box 20, Folder 3

Addresses and travel diary (?) n.d. [mostly Russian]

Part C: Post-Caltech (Retirement) Period, 1955-1966

Box 20

Technical notes

Box 20, Folder 4

"Problems of electromagnetism" 1954-1955

Box 20, Folder 5

"Aerothermodynamics: ONR" 1955

Box 20, Folder 6

"R-W" [Ramo-Wooldridge] 1955

Box 20, Folder 7

"Holloman Lectures: Foundations of Lagrangean dynamics," n.d.; "Foundations of kinetic theory," 1959

Box 20, Folder 8

"R-W: Guided Missiles Research Division" [late 1950s-early 1960s]

Box 20, Folder 9

"H-A [Hughes Aircraft] (also some private notes beginning Dec. 1968")

Box 20

Non-Technical notes

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"The Mark of Cain" n.d.

Section V: Notes and Manuscripts

Box 20	Lecture notes by Robley Evans of PSE's courses
Box 20, Folder 11	Thermodynamics 1929
Box 20, Folder 12	Electricity and magnetism 1930
Box 20, Folder 13-14	Electromagnetic waves 1931 [2 folders]
Box 21	Miscellaneous notes
Box 21, Folder 1	"Quantum dynamics," lecture by A. Sommerfeld Jan. 8, 1929
Box 21, Folder 2	"Electron theory of metals," lecture by A. Sommerfeld Jan. 10, 1929
Box 21, Folder 3	Lecture notes, Einstein lecture Jan. 24 [1931]
Box 21, Folder 4	"Extension and Improvement of Slater's Method" n.d.
Box 21, Folder 5	"Computation of the Primary Magnetic Moment" n.d.
Box 21, Folder 6	"Gibbsian Methods in Quantum Statistics" n.d.
Box 21, Folder 7	"Critical Appreciation of Gibbs's Statistical Mechanics" n.d.
Box 21, Folder 8	"Non-Static Models of the Universe and Radial Flow of Matter" n.d.
Box 21, Folder 9	"The Heitler and London Interchange Integral" n.d.
Box 21, Folder 10	"Random Walks in One Direction" n.d.
Box 21, Folder 11	"Expanding Universe and Cosmic Rays" n.d.
Box 21, Folder 12	"Hyperbolic Orbits" n.d.
Box 22	Manuscripts
Box 22, Folder 1	"Theorie der Rayleighschen Scheibe, zur Theorie des Starkeffekts," MS II, V, VI and others
Box 22, Folder 2	"Rotierende Elektronen und Quantentheorie, ein Satz aus der Theorie der Zylinderfunktionen" ca 1920
Box 22, Folder 3	"Theorie des Starkeffekts," "Theorie des Heliumspektrums," "Theorie der Kugelfunktionen," and other short papers ca 1920s
Box 22, Folder 4	"Kapitel I: Stand der Forschung vor den Arbeiten von Bohr"
Box 22, Folder 5	"Kapitel II: Die ersten Erfolge der Quantentheorie im Gebiet der Spektroskopie"
Box 22, Folder 6	"Drittes Kapitel: Hilfssätze aus der Mathematik und Mechanik"
Box 22, Folder 7	"Viertes Kapitel"
Box 22, Folder 8	"V. Kapitel: Theorie der Feinstruktur wasserstoffähnlicher Spektrallinien"
Box 22, Folder 9	"Theorie der Wellengleichung des Rotationsellipsoids, Munich" 1912
Box 22, Folder 10	"Über die Fortpflanzung des Lichtes..." 1920
Box 22, Folder 11	"Ein Elektron im magnetischen Felde 1910," with supplement 1943
Box 22, Folder 12-13	Lectures, technical writings in German ca 1919-1920 2 folders
Box 22, Folder 14	Miscellaneous German writings, technical and non-technical ca 1919-1920
Box 22, Folder 15	Lecture notes and miscellaneous documents in English ca 1921
Box 23, Folder 1	"Quantentheorie" 1916-1917 and later
Box 23, Folder 2	"Problem of quantum theory in light of the theory of perturbations" 1919 and other early manuscripts
Box 23, Folder 3	"Die Randwertprobleme der mathematischen Physik," Zurich 1920
Box 23, Folder 4	Notes in German on acoustics, thermodynamics, electrodynamics, optics, Vienna 1920
Box 23, Folder 5	"Theorie des Schalldruckes auf akustische Resonatoren" and other manuscripts
Box 23, Folder 6	"Ausgewählte Kapitel der höheren Dynamik 1920-1921 and other manuscripts
Box 23, Folder 7	"Die Störungsrechnung im Dienste der Quantentheorie" 1921
Box 23, Folder 8	"Theorie der festen Körper," Aachen 1929
Box 23, Folder 9	Miscellaneous early manuscripts in German
Box 23, Folder 10	"The time concept in restricted relativity (a rejoinder)" 1942
Box 23, Folder 11	Lecture on statistical mechanics late 1950s
Box 23, Folder 12	Manuscript for a book, Men of Physical Science, Chap. II 1937
Box 24, Folder 1	"Cynetic theory of evaporation," by W. Shoulejkin n.d.
Box 24, Folder 2	"Derivation of Planck's Law from the hypothesis of light quanta;" "Notes on Utilization of Saw Dust" n.d.
Box 24, Folder 3	"Electrostatics," Parts I and II n.d.
Box 24, Folder 4	"Characteristic oscillations of rotating and absorbing bodies;" "Magnetic fields of rotating bodies" n.d.
Box 24, Folder 5	"Some considerations relating to the temperature dependence of recombination rates," reports for Ramo-Wooldridge Corporation, n.d.
Box 24, Folder 6	"Problems of reality," speech by Epstein, remarks by R. C. Tolman, n.d.
Box 24, Folder 7	Notes on diffraction and shortplane waves, n.d.
Box 24, Folder 8	"Theory of ferro-magnetism" n.d.
Box 24, Folder 9	"On lined cavities of conic shape" n.d.

Box 24, Folder 10	"Theory of ferro-magnetic resonance at high signal powers," report for the Hughes Microwave Laboratories 1957
Box 24, Folder 11	"On the problems of resonance of ferrite obstacles;" "Ferrite Sphere," report for Hughes n.d.
Box 24, Folder 12	"Reflection of sound from solid plate, Report #6;" "On the construction of a tank for sound absorption measurements in water" n.d.
Box 24, Folder 13	"The effect of the intercline on the propagation of sound;" notes about sound transmission in sea water 1941
Box 25, Folder 1	"On the equilibrium of bubbles," ONR Project n.d.
Box 25, Folder 2	"On ferrites and literature on cavitation," ONR Project n.d.
Box 25, Folder 3	Maser Laboratory work, Hughes n.d.
Box 25, Folder 4	Manuscripts on masers, reports for Hughes Aircraft n.d.
Box 25, Folder 5	"On sound propagation and absorption of radio waves," report for Ramo-Wooldridge n.d.
Box 25, Folder 6	"On collisions," report for Ramo-Wooldridge n.d.
Box 25, Folder 7	"Electric conductivity and dielectric constant in the high atmosphere;" "On sound propagation in the atmosphere," reports for Ramo-Wooldridge n.d.
Box 25	"The absorption of sound in suspensions and emulsions" n.d.
Box 25, Folder 8	Part I: "Water fog in air," by P. S. Epstein and R. R. Carhart
Box 25, Folder 9	Part II: "Air bubbles in water"
Box 25, Folder 10	Manuscripts on parallels n.d.
Box 25, Folder 11	"Supersonic problems" 1943
Box 25, Folder 12	"Hypersonic flow," two papers by W. D. Hayes for Ramo-Wooldridge n.d.
Box 25, Folder 13	"On electric surface waves" n.d.
Box 25, Folder 14	"Die Grundlagen der Thermodynamik," T. Ehrenfest-Afanasyéva, Leiden 1948
Box 26, Folder 1	"Oscillating systems" n.d.
Box 26, Folder 2	"Characteristic oscillations of cylindrical shells" n.d.
Box 26, Folder 3	"Equations of shell oscillations" and miscellaneous papers; "On the elastic oscillations of a cylindrical shell," reports #2 and #3 n.d.
Box 26, Folder 4	"On cylindrical and spherical shells" n.d.
Box 26, Folder 5	"Elastic vibrations in plates and shells" n.d.
Box 26, Folder 6	"Oscillating shells," notes and calculations n.d.
Box 26, Folder 7	"Law of refraction in absorbing media" n.d.
Box 26, Folder 8	"On the continuous spectrum of the hydrogen atom," with M. Muskat n.d.
Box 26, Folder 9	"Reflection of waves in an inhomogeneous absorbing medium" n.d.
Box 26, Folder 10	"Discovery of the quantum of action" n.d.
Box 26, Folder 11	"Planck, etc." n.d.
Box 26, Folder 12	"Analysis of linear random sets" n.d.
Box 26, Folder 13	"Theory of wave propagation in a gyromagnetic medium, I and II" n.d.
Box 26, Folder 14	"On the reflection of short electromagnetic wave trains" n.d.
Box 26, Folder 15	"Refraction and reflection of short wave trains" n.d.
Box 26, Folder 16	"Problems of guidance I," report #1 n.d.
Box 26, Folder 17	"Conditions in a plane acoustic wave" n.d.
Box 26, Folder 18	"Notes about Kyropoulos' problem" n.d.
Box 26, Folder 19	"Ponderomotive actions exerted by sound waves on acoustic resonators" n.d.
Box 26, Folder 20	"Geometrical optics of absorbing media;" "A problem of electron motion" n.d.
Box 26, Folder 21	"Hydrodynamics with inertia terms" n.d.
Box 26, Folder 22	"Thermodynamics for engineers" n.d.
Box 26, Folder 23	"An electron in a single pole magnetic field" n.d.
Box 26, Folder 24	"A problem of Einstein-base statistics" n.d.
Box 26, Folder 25	"On atmospheric diffusion" n.d.
Box 26, Folder 26	"Surface waves" n.d.
Box 26, Folder 27	"Question of propagation" n.d.
Box 26, Folder 28	"Crystal optics" n.d.
Box 26, Folder 29	"Notes about induced emission or absorption" n.d.
Box 26, Folder 30	"Modes of a cylinder as excited by a plane wave" n.d.
Box 26, Folder 31	"Velocities of light," notes on a paper by J. A. Bearden and J. S. Thompson n.d.
Box 26, Folder 32	"On surface waves (elastic)" n.d.
Box 26, Folder 33	"On magnetic screening;" "More about electromagnetic surface waves" n.d.
Box 26, Folder 34	"On Woolley's equation" n.d.

Box 26, Folder 35	"Theory of dielectric constants" n.d.
Box 26, Folder 36	"Is Sommerfeld's theory correct?" "How was the quantum of action discovered?" n.d.
Box 26, Folder 37	"Evaluation of the force between two spheres," "Potential fields in the vicinity of two cylinders or of two spheres" n.d.
Box 26, Folder 38	"General statistics on L. Boltzmann and T. Gibbs theories" n.d.
Box 27, Folder 1	"Sound absorption in water, including the influence of air bubbles" n.d.
Box 27, Folder 2	"On the theory of cavitation and related phenomena" n.d.
Box 27, Folder 3	"On cavitation and bubbles" n.d.
Box 27, Folder 4	"Stratified medium, Part I" n.d.
Box 27, Folder 5	"Absorption of radiation in stratified medium" n.d.
Box 27, Folder 6	"On magnetic fields" n.d.
Box 27, Folder 7	"Potential of two spheres" n.d.
Box 27, Folder 8	"On magnetic screening" n.d.
Box 27, Folder 9	"On the appraisal of long-range forecasts;" "Tentative way of appraising long-range forecasts" n.d.
Box 27, Folder 10	"Theory of mean squared errors, as defined by the weather bureau" n.d.
Box 27, Folder 11	"Oscillations of a parallelepiped" n.d.
Box 27, Folder 12	"On the electrolytic current, produced by gravity" n.d.
Box 27, Folder 13	"Silberstein's problem" n.d.
Box 27, Folder 14	"On the construction of a tank for sound absorption measurements in water" n.d.
Box 27, Folder 15	"Thermoelectricity in crystals" n.d.
Box 27, Folder 16	"Density of radiation" n.d.
Box 27, Folder 17	"Scattering of radiant energy" n.d.
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Box 27, Folder 21	"On the shape of vortices" n.d.
Box 27, Folder 22	"On sound signals of a special type" n.d.
Box 27, Folder 23	"Hyperbolic orbits" n.d.
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Box 27, Folder 28	"Theory of conical lining collapse" n.d.
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Box 27, Folder 40	"Emden's differential equation" n.d.
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Box 27, Folder 47	"Recurrences" n.d.
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Box 27, Folder 52	"Radius of curvature of rays in geometrical optics" n.d.
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Box 27, Folder 54	"Theoretical consideration on photographic graininess" n.d.
Box 27, Folder 55	"Two electrons with relativity but without retardation (classical theory)" n.d.
Box 27, Folder 56	"Elliptic plate" n.d.
Box 27, Folder 57	"Expansions in terms of Heine-functions" n.d.
Box 28, Folder 1	"Energy in relativity"
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Box 28, Folder 8	"Effect of the thermocline on the propagation of sound"
Box 28, Folder 9	"On the absorption of sound waves in suspensions and emulsions"
Box 28, Folder 10	"Statistics of verification"
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Box 28, Folder 12	"Reflection of sound waves," three communications
Box 28, Folder 13	"Metallic reflection and transmission"
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Box 28, Folder 15	"Gutenberg's problem"
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Box 28, Folder 22	"Tentative focuser theory" and other reports to Hughes Aircraft
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Box 28, Folder 24	"On Planck's quantum theory of action;" "On Bohr's quantum theory;" "Guiding of falling projectiles"
Box 28, Folder 25	"On the Stokes formula and miscellaneous"
Box 28, Folder 26	"Lafdjian's problem" and other manuscripts
Box 28, Folder 27	"On LeSage's hypothesis;" "Conversion of conduction waves;" "Wave function in parabolic coordinates"
Box 28, Folder 28	"Notes on Mr. Young's problem;" "Elastic vibrations;" "Cyclotron resonance in solids;" miscellaneous
Box 29, Folder 1	"Against reactionary Einsteinism in physics," A. A. Maximov
Box 29, Folder 2	"Turbulence and elastic waves"
Box 29, Folder 3	"On refraction and absorption of waves passing through dispersive matter"
Box 29, Folder 4	"Evaluation of certain determinants"
Box 29, Folder 5	"On the expanding universe"
Box 29, Folder 6	"Memorandum on the external consistency of measurements"
Box 29, Folder 7	"Entropy and energy increase in a hydrodynamic system," ONR Project
Box 29, Folder 8	"Coherent scattering and bubbles in water"
Box 29, Folder 9	"Theory of heat and mass transfer from slow moving sphere to surrounding medium," ONR. Project; "Absorption of nutrients by aquatic plants," by Sargent
Box 29, Folder 10	"Corrugated wave-guides"
Box 29, Folder 11	"Psychoanalytic appreciation of historical research"
Box 29, Folder 12	"Heat radiation in absorbing bodies;" "On the additivity of entropy;" "Can any system of differential equations be canonized?"
Box 29, Folder 13	"Ionization of gases in an electric field;" "Contributions to the theory of probes," report for Ramo-Wooldridge
Box 29, Folder 14	"Plane wave properties"
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Box 29, Folder 19	"Theory of conical lining collapse," NOTS report; "Whittaker and Robinson," "Calculus of Observations;" "Munch's problem"
Box 29, Folder 20	"Cross-section of Coulomb center, etc.;" "Model of Solid;" "Movement of energy in plane waves"

Box 29, Folder 21	"Plane waves in absorbing medium;" "A system of orthogonal functions"
Box 29, Folder 22	"The off-axis ferrite post in a rectangular wave-guide, etc.," report for Hughes
Box 29, Folder 23	"Magnetic spheroid in homogeneous field;" "Energy in electrostatics and magnetostatics, etc."
Box 29, Folder 24	"On the appraisal of long-range forecasts" ca 1940
Box 29, Folder 25	"A criterion for judging the significance of correlations" ca 1940
Box 30, Folder 1	Manuscripts relating to work for the Ferrite Laboratory I 1956-1959, report for Hughes Aircraft
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Box 30, Folder 3	"More on the ferrite and ferrite sphere"
Box 30, Folder 4	"Einstein and Mayer;" "Dielectric constant of a cloud;" "Evaporation of meteors;" "Equations;" "High-frequency spectroscopy;" "Supplement to magnetism"
Box 30, Folder 5	"Condensation studies"
Box 30, Folder 6	"Badger's problem;" "Le Sage's hypothesis;" "Potapenko's problem;" "Hugo's Problem II;" "Mr. Young's problem: Theory of absorption and refraction for large mean free paths"
Box 30, Folder 7	"Variational principles for electromagnetic resonators and wave-guides," A. D. Berk, Hughes Laboratories
Box 30, Folder 8	"Electric conduction in gases with dynamic ionization," W. E. Rice 1956
Box 30, Folder 9	"Logarithmic spirals"
Box 30, Folder 10	"Rutherford's theory"
Box 30, Folder 11	"Significance of correlations I, numerical data (Vista)"
Box 30, Folder 12	"Significance of correlations II, numerical data (Vista)"
Box 31	Manuscripts, numbered
Box 31, Folder 1	"Theory of condensation on foreign nuclei," MS 202
Box 31, Folder 2	"Preliminary report on the properties of porous membranes," MS 207
Box 31, Folder 3	"General considerations on Knudsen's flow," MS 208
Box 31, Folder 4	"Separation factor in true molecular flow," MS 209; "Flow through variable channels," MS 210
Box 31, Folder 5	"Preliminary theoretical discussion of the flow of gases through barriers," MS 211
Box 31, Folder 6	"Inhomogeneous barrier, Part I," MS 213
Box 31, Folder 7	"Theory of diffusion in streaming fluid, Part I," MS 214
Box 31, Folder 8	"Preliminary theory of inhomogeneous barriers," MS 215
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Box 31, Folder 21	"Further remarks about diffusion with viscosity," MS 241
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Box 31, Folder 23	"Standard differential equations of first order," MS 243
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Box 31, Folder 43	"Further problems of magnetism," MS 291; "Magnetization by rotation," MS 292
Box 32	Manuscripts, miscellaneous [8 folders]
Box 32	Miscellaneous scientific material
Box 32	Miscellaneous and incomplete manuscripts

Section VI: Reprints

1911

- Box 33 "Kraftliniendiagramme für die Ausbreitung der Wellen in der drahtlosen Telegraphie...", Jahrbuch der drahtlosen Telegraphie und Telephonie , IV:176-187 [2 copies]
Box 33 "Über Relativistische Statik," Ann. der Physik, 36:779-795 [2 copies]
Box 33 "Zur Frage nach der Herkunft des Erdmagnetismus" [in Russian, with German summary], from a Russian journal
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1914

- Box 33 "Die ponderomotorischen Drehwirkungen einer Lichtwelle und die Impulssätze der Elektronentheorie," Ann. der Physic , 44:593-604
Box 33 "Lichtdruck auf die vollkommen leitende Halbebene," Verhandlungen der Deutschen Physikalischen Gesell, 16:449-456 [2 copies]
Box 33 "Über die Beugung an einem ebenen Schirm unter Berücksichtigung des Materialeinflusses" [doctoral dissertation] [2 copies]
Box 33 "Zur Thermodynamik von Systemen mit nicht additiver Entropie," Physikalische Zeitschrift, 15:673-675
Box 33 "Spezielle Beugungsprobleme," Encyklopädie der Mathematischen Wissenschaften, V/3:488-525
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1916

- Box 33 "Zur Theorie des Starkeffektes," Physikalische Zeitschrift, 17:148-150 [2 copies]
Box 33 "Zur Theorie des Starkeffektes," Ann. der Physic, 50:489-520 [2 copies]
Box 33 "Über den lichtelektrischen Effekt und die β -Strahlung radioaktiver Substanzen," Physikalische Zeitschrift, 17:313-316
Box 33 "Versuch einer Anwendung der Quantenlehre auf die Theorie des lichtelektrischen Effekts und der β -Strahlung radioaktiver Substanzen," Ann. der Physic, 50:815-840 [2 copies]
Box 33 "Zur Quantentheorie," Ann. der Physic, 51:168-188
Box 33 "Über die spezifische Wärme des Wasserstoffs," Verh. der deut. phys. Gesell., 22/23:398-413
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1917

- Box 33 "Zur Theorie der Beugung an metallischen Schirmen," Ann. der Physic 53/9:35-42 [2 copies]
Box 33 "Hamilton-Jacobische Funktion und Quantentheorie," Verh. der deut. phys. Gesell, 13/14:116-129
Box 33 "Bemerkung über das Nernstsche Wärmethorem," Ann. der Physic, 53/9:76-78 [2 copies]
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1918

- Box 33 "Anwendungen der Quantenlehre in der Theorie der Serienspektren," Die Naturwiss., 17:230-253 [2 copies]
Box 33 "Über die Struktur des Phasenraumes bedingt periodischer Systeme," Sitzungsberichte derkönigl. preuss. Akademie der Wissenschaften , 23:435-446 [2 copies]
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1919

- Box 33 "Bemerkungen zur Frage der Quantelung des Kreisels," Physikalische Zeit., 20:289-294 [2 copies]
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Section VI: Reprints

1919

- Box 33 "Über die Interferenzfähigkeit von Spektrallinien vom Standpunkt der Quantentheorie," Sitzungs-berichte der Bayerischen Akademie der Wissen. , 73-90 [2 copies]
- Box 33 "Zur Theorie der Raumladungserscheinungen," Verh. der deut. phys. Gesell., 5/6:85-99 [2 copies]
- Box 33 "Theoretisches über den Starkeffekt in der Fowlerschen Heliumserie," Ann. der Physic, 58:553-576 [2 copies]
- Box 33 "Erweiterung der Quantensätze für beliebige Systeme," Verh. der Schweizerischen Naturforschenden Gesell.
- Box 33 "Über das Vorzeichen des Lichtdruckes auf kleine Teilchen," Mitt. der phys. Gesell. Zürich, 19:30-35 [2 copies]
- Box 33 "Sur la cohérence des lignes spectrales du point de vue de la théorie des quanta," Archives des sciences physiques et naturelles, Société suisse de physique , May-June 1919, pp. 238-40 [3 copies]
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1921

- Box 33 "Beschouwingen op het gebied van de theorie der quanta," Koninklijke Akademie van Wetenschappen te Amsterdam , 29:965-979 [2 copies]
- Box 33 "Über die Polflucht der Kontinente," Die Natur-wissenschaften, 25:499-502 missing, 6/98 missing, 6/98
- Box 33 "On the Principles of the Theory of Quanta," Koninklijke Akademie van Wetenschappen te Amsterdam, Proceedings 23/8:1193-1205
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1922

- Box 33 "Die Störungsrechnung im Dienste der Quantentheorie. I. Eine Methode der Störungsrechnung," Zeit. für Physik , 8/4:211-228; "II. Die Numerische Durchführung der Methode," ibid. 8/5:305-320; "III. Kritische Bemerkungen zur Dispersionstheorie," ibid. 9/1-2:92-110
- Box 33 "Problems of Quantum Theory in the Light of the Theory of Perturbations," The Physical Review, 19:578-608
- Box 33 "The Evaluation of Quantum Integrals," Proc. Nat. Acad. Sci., 8:166-167
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1923

- Box 33 "The Stark Effect for Strong Magnetic Fields," Philosophical Magazine, 46
- Box 33 "Paramagnetism and the Theory of Quanta," Science, 57:532-33
-

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- Box 33 "The Quantum Theory of the Fraunhofer Diffraction," Proc. Nat. Acad. Sci., 10:133-139
- Box 33 "On the Resistance Experienced by Spheres in their Motion Through Gases," Physical Rev., 6:710-733
- Box 33 "On the Simultaneous Jumping of Two Electrons in Bohr's Model," Proc. Nat. Acad. Sci., 10:337-342
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- Box 33 "Fine Structure of the Scattered Radiation from Graphite," Physical Rev., 32:331-335 [Missing 7-94]
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- Box 33 "Konferenz über den Michelson-Morleyschen Versuch," Die Naturwiss., 17/48:923-928
 Box 33 "Zur Theorie des Radiometers," Zeit. für Physik, 54:537-563
 Box 33 "On the Continuous Spectrum of the Hydrogen Atom," Proc. Nat. Acad. Sci., 15:405-411 (With Morris Muskat)
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- Box 33 "Reflection of Waves in an Inhomogenous Absorbing Medium," Proc. Nat. Acad. Sci., 16:627-637
 Box 33 "Geometrical Optics in Absorbing Media," Proc. Nat. Acad. Sci., 16:37-45
 Box 33 "Note on the Nature of Cosmic Rays," Proc. Nat. Acad. Sci., 16:658-663
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- Box 33 "Answer to Prof. Störmer's Remark," Proc. Nat. Acad. Sci., 17:160-161
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- Box 33 "On Ferromagnetism and Related Problems of the Theory of Electrons," Physical Rev., 41:91-109
 Box 33 "Über Gasentmischung in der Atmosphäre," Gerlands Beit. zur Geophysik, 35:153-165
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- Box 33 "La résistance de l'air sur les projectiles," Extrait du Mémorial de l'artillerie française, pp. 635-650
 Box 33 "The Expansion of the Universe and the Intensity of Cosmic Rays," Proc. Nat. Acad. Sci., 20:67-78
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- Box 33 "On the Bending of Electromagnetic Micro-Waves Below the Horizon," Proc. Nat. Acad. Sci., 21:62-68
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- Box 33 Review of P. Dirac, Principles of Quantum Mechanics, 2nd ed., in Science, 81:640-641
 Box 33 "The Frontiers of Science, I and II" Reflex, June, pp. 7-9
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Section VI: Reprints

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- Box 33 "The Frontiers of Science, III and IV," Reflex, July, pp. 19-24
Box 33 "Uses and Abuses of Nationalism, I and II," Reflex, Nov., pp. 17-22
Box 33 "Uses and Abuses of Nationalism, III," Reflex, Dec., pp. 15-19
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Box 33 "Uses and Abuses of Nationalism, IV," Reflex, Jan., pp. 14-18
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- Box 33 "On the Magnetic Energy of Superconductors," Proc. Nat. Acad. Sci., 23:604-610
Box 33 "Physics and Metaphysics," The Scientific Monthly, 45:49-54
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- Box 33 "Influence of the Solar Magnetic Field Upon Cosmic Rays," Physical Rev., 53:862-866
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- Box 33 "Secondary School Mathematics in Relation to College Physics," Am. Jour. Physics, 9:34-37 [2 copies]
Box 33 "On the Absorption of Sound Waves in Suspensions and Emulsions," Applied Mechanics (Von Kármán Festschrift), pp. 162-188
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- Box 33 "On the Theory of Elastic Vibrations in Plates and Shells," Jour. Math. and Physics, 21:198-209
Box 33 "The Time Concept in Restricted Relativity," Am. Jour. Physics, 10:1-6
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- Box 33 "Radio-Wave Propagation and Electromagnetic Surface Waves," Proc. Nat. Acad. Sci., 33:195-199
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Box 33 "Dialektischer Materialismus und die modernen physikalischen Theorien," Physikalische Blätter, 9:49-55

Box 33 "Zur Situation der Naturwissenschaftler in der Sowjetunion," Physikalische Blätter, 9:221-226

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Box 33 "On Planck's Quantum of Action," Am. Jour. Physics, 22:402-405

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Box 33 "Theory of Wave Propagation in a Gyromagnetic Medium," Rev. Mod. Physics, 28:3-17

Box 34 Reprints [2 volumes, bound]

Box 34 Vol. 1 (1921-1927): contains only reprints listed above, with a single exception, "Zur Aberrationstheorie," Phys. Zeitschrift , 24:64-65

Box 34 Vol. 2: contains essentially the same as Vol. 1

Box 34 Miscellaneous manuscripts, WWII era, meteorology

Box 34 "Climatology and Long Range Weather Forecasting" n.d. [2 copies]

Box 34 "A Criterion for Judging the Significance of Correlations" 1942

Box 34 "Forecast Verification" March 1943

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Box 34 Miscellaneous manuscripts, 1950s

Box 34 "On the Theory of Vibrations of Thin Shells and Plates," ONR Report, Dec. 31, 1954

Box 34 "On the Electric Conductivity of Ionized Gases," Ramo-Wooldridge Report, May 8, 1957

Section VII: Tapes and Books

Tapes

Boxes 35 thru 37 Epstein's memoirs [reel-to-reel and cassette]

Books, German and Russian

- Box 38 Beard, C. A. Die wirtschaftliche Grundlage der Politik. Franz Mittelbach Verlag, Stuttgart, 1949. [The Economic Foundation of Politics .]
- Box 38 Bronshtein, M. P. et al., eds. Atomnoe Jadro. Gos. izdat., 1934. [Atomic Nucleus. Collected papers of the first all-union nuclear conference.]
- Box 38 Fok, V. A. Nachala kvantovoi mekhaniki. L., 1932. [Beginning of Quantum Mechanics.]
- Box 38 Fuks, N. A. Mekhanika aerosolei. M. izdat., AN USSR, 1955. [Mechanics of Aerosols.]
- Box 38 Kosonogov, J. J. Kotsentricheskii uchebnik fiziki dlia srednikh uchebnykh zavedenii. 3rd ed., Kiev izdat. Proslanichenko, 1912. [Concentric Physics Textbook for Secondary Schools.]
- Box 38 Landau, L., and E. Lievshitz. Mekhanika sploshnykh sred. M.-L. Ogiz, 1944. [Mechanics of Continuous Media .]
- Box 39 Malinin, A., and K. Burerin, compilers. Sobranie arifmeticheskikh zadach. Kolomea; Izdat., Ya. Orenshteina. [Collected arithmetic problems for all sorts of secondary schools.]
- Box 39 Meshcherskii, I. V. Kurs teoreticheskoi mekhaniki. M.-P. Gos. izdat., Part I, 1923, Part II, 1925. [Course in Theoretical Mechanics .]
- Box 39 Na Chuzhoi storone, I and II. Berlin, 1923. [In a Strange Land, Parts I and II. Literary journal]
- Box 39 Newton, I. Optics. M.-L. Gos. Izdat, 1927. [Translation to Russian from the 3rd English edition of 1721, with notes by S. I. Vavilov]
- Box 39 Pevzner, M. and L. Ratsional'noe (dieteticheskve) i Lechebnoe pitanie. M.-L. Gos. izdat., 1930. [Rational (dietetic) and Health Diet . A practical guide to the organization of health diet in resorts, in sanatoria, rest houses and diet restaurants.]
- Box 39 Repson, J. Trips Abroad: A Guide. 1926. [In Russian]
- Box 39 Technical Physics of the USSR. Vol. IV, no. 11-12, 1937; Vol V., no. 2, 1938. [Texts in English and German]
- Box 40 Timiriazev, A. K. Kineticheskaia teoriia materii. M.-P. Gos. izdat., 1923. [Kinetic Theory of Matter; lectures given at M.G.U., 1917-1918]
- Box 40 Tsinger, A. Nachal'naia fizika. 20th ed. Gos. uch-ped., izdat., 1931. [Beginning Physics.]
- Box 40 Tsinger, A. Rabochaia Kniga po fizike. M.-L. Gos. izdat., 1930. [Physics workbook for the 5th and 6th years; two separate books]
- Box 40 Voprosy filosofii, #1,1951. [Questions of Philosophy. Leading USSR philosophy journal]
- Box 40 Wolf, M. Stereoskopbilder vom Sternhimmel, 1. Serie. 1915.
- Box 40 Wolf, M. Stereoskopbilder vom Sternhimmel, 2. Serie. 1918.
- Box 40 Miscellaneous Russian textbooks 1898-1905. [3 books]