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# Guide to the Subrahmanyan Chandrasekhar Papers 1913-2011



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## Descriptive Summary

<b>Identifier</b>	ICU.SPCL.CHANDRASEKHAR
<b>Title</b>	Chandrasekhar, Subrahmanyan. Papers
<b>Date</b>	1913-2011
<b>Size</b>	342 boxes
<b>Repository</b>	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

**Abstract** Subrahmanyan Chandrasekhar (1910-1995), Astrophysicist, Nobel Prize winner. The Subrahmanyan Chandrasekhar Papers contains personal and professional correspondence, notes, manuscripts, offprints, lecture notes, scientific writings, records of the Astrophysical Journal, awards, honorary degrees, biographical material, photographs, and sound and video recordings. The Papers span Chandrasekhar's career and document his student years at Cambridge University, his teaching career at the University of Chicago, scientific research and writing in astrophysics, editing of the Astrophysical Journal, and connections with family members and friends in India. The Papers document the development of the Department of Astronomy and Astrophysics and Yerkes Observatory, and provide much information on colleagues and students from the late 1930s to the early 1990s.

## Information on Use

### Access

The collection is open for research, with the exception of Series VII, Subseries X, which contains material to which access is restricted.

Sub-subseries 1, Administrative records and referee's reports, contains records that are closed for 30 years from their date of creation. Sub-subseries 2, Financial records, are closed for 50 years from the date of the record's creation. Sub-subseries 3, Letters of Recommendation for Colleagues and faculty appointment material, are closed for 50 years from the date of creation. Sub-subseries 4, Student Grades and Letters of Recommendation, are closed for 80 years from the date of creation.

The audio and video material in Series VII, Subseries 6 do not contain access copies. Researchers will need to consult with staff before requesting these items.

## Citation

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

## **Biographical Note**

Subrahmanyan Chandrasekhar, astrophysicist, was born October 19, 1910, in Lahore, India (now Pakistan). Originally from southern India, his family returned to Madras in 1918, where Chandrasekhar received most of his schooling. He received a B.A. honors degree from Presidency College, Madras University, in 1930, and Ph.D. and Sc.D. degrees from Cambridge University in 1933 and 1942. While at Cambridge he studied with R. H. Fowler, P. A. M. Dirac, and E. A. Milne, and also spent periods of time with Niels Bohr in Copenhagen and Max Born at Göttingen. He was appointed a Fellow of Trinity College in 1933. In 1936 Chandrasekhar traveled to the U.S. to give lectures at Harvard College Observatory and at Yerkes Observatory of the University of Chicago. Offered positions at both places, he decided to accept the offer from Chicago. He returned to India briefly that year, and in September married Lalitha Doraiswamy, a former classmate at Presidency College.

Chandrasekhar came to Yerkes Observatory in January 1937 as a Research Associate. He was made an Assistant Professor in 1938, Associate Professor in 1942, Professor in 1944, and Distinguished Service Professor in 1946. In 1952 he was named Morton D. Hull Distinguished Service Professor of Theoretical Astrophysics. His appointment was expanded to include not only the Department of Astronomy and Astrophysics but also the Department of Physics and the Enrico Fermi Institute of Nuclear Studies. Chandrasekhar also accepted the position of managing editor of the *Astrophysical Journal* in 1952, and served in that capacity until 1971. His duties often required him to commute from Yerkes to the University campus for several days each week, which he did until 1964 when he moved his permanent residence to Chicago. Although offered positions at other universities many times, he remained at the University of Chicago throughout his career, and continued to teach and do research well past normal retirement age. He and Lalitha became United States citizens in 1953.

Early in the 1930s Chandrasekhar developed a theory concerning white dwarf stars, combining Fowler's use of the new quantum statistics with special relativity. He derived the so-called "Chandrasekhar limit," which set a maximum mass beyond which a star could not remain at the white dwarf stage, but would continue collapsing indefinitely. The theory drew immediate and intense opposition from Arthur S. Eddington and other astronomers, and was not fully accepted until over 20 years later, when it became one of the key elements in the formation of ideas concerning neutron stars and black holes. Frustrated by the negative response to his work, but certain of its correctness, Chandrasekhar wrote up his research and published it as *An Introduction to the Study of Stellar Structures* (1939) then moved on to other topics.

A pattern emerged in Chandrasekhar's work, of researching a subject, writing a series of articles, compiling a book, then changing fields, roughly every 10 years. This, combined with his position

on the editorial staff of the *Astrophysical Journal*, gave him a breadth of knowledge and interest. The contributions Chandrasekhar made to various fields can be seen from the titles of his books: *Principles of Stellar Dynamics* (1942); *Radioactive Transfer* (1950); *Hydrodynamic and Hydromagnetic Stability* (1961); *Ellipsoidal Figures of Equilibrium* (1969); *The Mathematical Theory of Black Holes* (1983); and *Eddington: The Most Distinguished Astrophysicist of His Time* (1983).

Among the many citations Chandrasekhar received are the Bruce Gold Medal of the Astronomical Society of the Pacific, the Gold Medal of the Royal Astronomical Society of London, the Rumford Prize of the American Academy of Arts and Sciences, the Royal Medal of the Royal Society of London, the National Medal of Science of the United States, and the Padma Vibhushan award of India. In 1983 Chandrasekhar was awarded the Nobel Prize in Physics. He died in Chicago on August 21, 1995.

### **Scope Note**

The papers of Subrahmanyan Chandrasekhar include personal and professional correspondence, notes, manuscripts, and offprints of published and unpublished scientific writings, lecture notes, records of the *Astrophysical Journal*, recordings of interviews and other biographical materials. The papers span Chandrasekhar's career and document his student years at Cambridge University, his teaching career at the University of Chicago, scientific research and writing in astrophysics, editing of the *Astrophysical Journal*, and connections with family members and friends in India. Because of his long tenure at the University of Chicago, Chandrasekhar's papers constitute an important source for documenting the development of the Department of Astronomy and Astrophysics and Yerkes Observatory, and provide much information on colleagues and students from the late 1930s to the early 1980s.

Chandrasekhar carefully maintained files of correspondence, manuscripts, and notes throughout his life, as can be seen in the extensive and continuous runs of materials preserved in the collection. The papers have been arranged in seven series. Series VII is an Addenda to the main body of papers and should be consulted for material that complements items in the earlier series.

Series I: Personal Correspondence and Papers begins with general biographical materials and miscellaneous personal papers. The first item is "A Scientific Autobiography, 1943-1983," in which Chandrasekhar gives a detailed account of his research and how various projects developed. Following this are lists of degrees, memberships, and awards publications travels and research and lectures completed by year. Among the other papers in this section are articles and news clippings about Chandrasekhar, including many from India correspondence concerning Chandrasekhar's scholarship from the Government of Madras in the 1930s and transcripts of two interviews Chandrasekhar gave in 1977 and 1980.

The main body of the series consists of Letters from Chandrasekhar's family and some personal friends, from the late 1920s through 1983. Folders are arranged alphabetically by name of correspondent. Substantial files of Letters from parents, brothers, sisters, and more distant relatives, attest to Chandrasekhar's close ties to his family even after long absence from India. Of particular note is Chandrasekhar's extensive correspondence with his father, C. Subrahmanya Ayyar, and brother, S. Balakrishnan, including Chandrasekhar's own Letters which were retrieved from India. (Correspondence with C. V. Raman, Chandrasekhar's uncle, will be found in Series II.)

Filed with the correspondence are other writings and papers, including a typescript family history and biographical notes compiled by C. S. Ayyar (6:4-5) some of Ayyar's published works on Indian music, and stories, poems, and articles by S. Balakrishnan, Chandrasekhar's brother, who often wrote under the pen name of Purasu Balakrishnan.

Series II: Scientific Correspondence, contains correspondence between Chandrasekhar and scientific colleagues in the U.S., Great Britain, Europe, and India, from the early 1930s to 1979. Subjects include comments and critiques on papers and current research in astrophysics, collaboration on new ideas and theories, and news of projects and appointments. Also included are Letters of recommendation for associates and students for jobs and awards, and offers to Chandrasekhar for professorships, visiting lectureships, and other speaking engagements. Letters concerning articles submitted to the *Astrophysical Journal*, and Chandrasekhar's editorial comments on them, will be found here, as well as correspondence with editors and publishers of Chandrasekhar's own articles and books. The files are arranged alphabetically and include both incoming Letters and carbons of Chandrasekhar's replies.

Because of Chandrasekhar's connections at Cambridge, the University of Chicago, Yerkes and McDonald Observatories, and with the *Astrophysical Journal*, the list of his correspondents includes most of the well-known names in astrophysics and many in physics, astronomy, and other related fields. Among those with whom Chandrasekhar corresponded extensively are Lawrence H. Aller, Geoffrey and Margaret Burbidge, T. G. Cowling, George Gamow, Gerhard Herzberg, Gerard P. Kuiper, Norman R. Lebovitz, Paul Ledoux, C. C. Lin, J. E. Littlewood, W. H. McCrea, E. A. Milne, William H. Reid, Paul H. Roberts, Martin Schwarzschild, Lyman Spitzer, Jr., Bengt Strömberg, Otto Struve, Pol Swings, John von Neumann, and Rupert Wildt. The correspondence also reflects Chandrasekhar's close contact with scientific establishments in India, encouraging the development of education and research there, and assisting students who came to the U.S. to study.

As well as files for individual correspondents, there are folders for a number of subject headings. Among these are professional societies to which Chandrasekhar belonged, including the American Astronomical Society, the American Physical Society, the National Academy of Sciences, and the Royal Society of London, University departments, particularly the Department

of Astronomy and Astrophysics, and titles of Chandrasekhar's books, where correspondence regarding their publication is filed.

Series III: Scientific Writings, comprises the published and unpublished scientific writings of Chandrasekhar, and constitutes the largest body of materials in the papers. More than 350 separate titles are listed chronologically, from 1929 to 1983 and represent nearly all of Chandrasekhar's published articles and books. Notations in the inventory indicate what types of materials are available for each title, which may include notes, calculations, drawings, manuscripts, typescripts, proofs, and offprints. Chandrasekhar's characteristic meticulousness can be seen in the longhand manuscripts which are extant for many of the articles and all of his books. In some cases detailed solutions of equations are found in the notes which were too lengthy to publish, as is the case with notes for Chapter 9 of *The Mathematical Theory of Black Holes*.

Articles include research monographs for scientific journals in the U.S. and abroad, including the *Astrophysical Journal* and *Proceedings of the Royal Society of London*, general-interest scientific articles for lay audiences, and invitational lectures given at universities and scientific conferences, such as the Ryerson Lecture given at the University of Chicago in 1975. (Lectures which were not published are included in Series IV.) Publication data is given in the inventory for each title.

Most of Chandrasekhar's research was published in some form. Consequently, manuscripts which were originally rejected for publication are usually filed under titles where the data finally appeared. A few unpublished items are listed separately, though, including Chandrasekhar's Ph.D. thesis, "Polytropic Distributions," reports completed under military contracts, and notes on incidents concerning E. A. Milne, C. V. Raman, and S. Ramanujan. Also found in the series are several folders of research notes which do not pertain to any particular titles; they are filed by date within the main sequence.

There are three distinct groups of materials in Series IV: Lecture Notes. The first consists of notes taken by Chandrasekhar while a student at Cambridge University, mainly during the years 1930-1933. These include notes from mathematics and physics courses taught by Arthur S. Eddington, R. H. Fowler, P. A. M. Dirac, and others, and notes on texts and articles.

The second group consists of notes compiled by Chandrasekhar for his courses given at the University of Chicago, from 1938 to 1978. Most of these notes are contained in spiral-bound notebooks by subject, and are filed chronologically. This comprehensive set of notes offers additional insights into the direction and scope of Chandrasekhar's research interests through the years. Included in this section are two notebooks which give lists of the weekly theoretical seminars that Chandrasekhar organized for the Department of Astronomy and Astrophysics from 1948 to 1965.

At the end of the series are notes and manuscripts for special lectures, including colloquia, seminars, invitational lectures at other universities, and dinner and award speeches, from 1935 through 1983. Series IV includes only lectures and speeches which were not published; those which have been printed are filed with the published writings in Series III.

Series V contains correspondence and other materials relating to the *Astrophysical Journal*, which Chandrasekhar served as managing editor from 1952-1971. Most of the files date from that period, although a few go back to the late 1940s. Also included in the series is a notebook with records of articles received and published from 1899-1910.

Major groups of materials in this series include general editorial correspondence with authors, referees, and subscribers' correspondence and council minutes of the American Astronomical Society, which helped fund the journal and took over its ownership from the University of Chicago Press in 1972 and correspondence and minutes of the editorial board of the journal. Other files include financial records, editorial policies and procedures, and special projects such as the Supplements series, the General Index, and Russian translations of abstracts.

More correspondence relating to papers submitted to the *Astrophysical Journal* and other editorial matters can be found in Series II.

Series VI includes Chandrasekhar's collection of offprints of articles by two British colleagues, E. A. Milne and G. J. Whitrow, and typescripts of other articles which Chandrasekhar collaborated on or helped prepare for publication. Files are arranged by author.

Series VII, Addenda, contains material that was added to the collection after the original portion was organized and made available to researchers. While much of the material in the Addenda was created after 1983, it also contains a significant amount from earlier in Chandrasekhar's life, particularly in the Personal and Audiovisual series. Most of the types of material included in series I-VI are also included in the Addenda, and they are arranged in a similar manner, although there are some differences. There is no *Astrophysical Journal* subseries in the Addenda, although there is a very small amount of related journal material in the Addenda's Correspondence Subseries. In the Addenda Chandrasekhar's published writings and lectures are arranged in a single chronological Writing Subseries, not split between series for Scientific Writings and Lecture Notes as they are in the original portion of the collection. Unlike the original portion of the collection, the Addenda contains significant amounts of Audiovisual, Oversize, and Restricted material, as well as Artifacts and Medals.

The Addenda is organized into ten subseries:

I. Personal and Biographical



- II. Correspondence
- III. Writing
- IV. Writings about Chandrasekhar
- V. Writings by others
- VI. Audiovisual
- VII. Oversize
- VIII. Artifacts and framed items
- IX. Medals
- X. Restricted

### **Related Resources**

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

Browse finding aids by topic.

Presidents' Papers

Enrico Fermi. Papers

Laura Fermi. Papers

Department of Physics. Records

Lalitha Chandrasekhar. Papers

University of Chicago. Yerkes Observatory. Office of the Director. Records, 1891-1946

### **Subject Headings**

- Chandrasekhar, S. (Subrahmanyan) 1910-
- Aller, Lawrence H. (Lawrence Hugh) 1913-
- Cowling, T. G. (Thomas George)
- Dirac, P. A. M. (Paul Adrien Maurice) 1902-
- Eddington, Arthur Stanley, Sir, 1882-1944
- Ferrari, Valeria, 1952-
- Fowler, R. H. (Ralph Howard) 1889-1944

- Gamow, George, 1904-1968
- Hawking, Stephen, 1942-2018
- Herzberg, Gerhard, 1904-
- Kuiper, Gerard Peter, 1905-
- Lebovitz, Norman R.
- Ledoux, Paul, 1914-
- Lin, C. C. (Chia-Ch'iao) 1916-
- Littlewood, John E. (John Edensor) 1885-1977
- Newton, Isaac, 1642-1727
- Ramanujan Aiyangar, Srinivasa, 1887-1920
- Reid, William Hill, 1926-
- Swings, P. (Polydore) 1906-
- Von Neumann, John, 1903-1957
- Wali, K. C. (Kameshwar C.)
- Xanthopoulos, Vassilis, -1990
- American Astronomical Society
- American Physical Society
- Royal Society (Great Britain)
- University of Chicago. Dept. of Astronomy and Astrophysics
- University of Chicago-History
- Yerkes Observatory
- Astrophysical Journal
- Astrophysics
- Astrophysicists

## **INVENTORY**

### **Series I: Personal Correspondence and Papers**

#### **Subseries 1: Biographical materials and personal papers**

##### **Box 1**

##### **Folder 1**

"A Scientific Autobiography 1943-1983," typescript

##### **Box 1**

##### **Folder 2**

List of degrees, appointments, memberships, and awards, 1930-1983

##### **Box 1**

##### **Folder 3**

List of publications, 1928-1983

##### **Box 1**

##### **Folder 4**

Partial list of places visited, 1935-1973

##### **Box 1**

##### **Folder 5**

Research problems and completed investigations, 1936-1968

##### **Box 1**

##### **Folder 6**

Personal record of research, lectures, and travels, 1948-1968

**Box 1**

**Folder 7**

Personal record of research, lectures, and travels, 1948-1968

**Box 1**

**Folder 8**

Personal record of research, lectures, and travels, 1948-1968

**Box 1**

**Folder 9**

Articles and news clippings about Chandrasekhar, collected by C. Subrahmanya Ayyar, 1930-1957

**Box 1**

**Folder 10**

Articles and news clippings about Chandrasekhar, from India, 1944-1983

**Box 1**

**Folder 11**

Articles and news clippings about Chandrasekhar, miscellaneous, 1980-1983

**Box 1**

**Folder 12**

Government of Madras scholarship, correspondence, 1930-1936

**Box 2**

**Folder 1**

Bank book, Dansk Landmansbank, 1932-1935

**Box 2**

**Folder 2**

Passports, 1934-1958

**Box 2**

**Folder 3**

Questions for exams, 1941-1954

**Box 2**

**Folder 4**

United States Immigration and Naturalization Service, correspondence, 1949-1950

**Box 2**

**Folder 5**

Clippings and correspondence about Chandrasekhar's trip to India, 1951, collected by C. S. Ayyar

**Box 2**

**Folder 6**

Citations on receiving honorary degrees, 1961-1983

**Box 2**

**Folder 7**

Publications of students, 1964-1970

**Box 2**

**Folder 8**

Interview with Spencer Weart, May 17, 1977, transcript

**Box 2**

**Folder 9**

Interview with Spencer Weart, May 17, 1977, transcript

**Box 2**

**Folder 10**

Interview with D. J. R. Bruckner, August 6, 1980, transcript

**Box 2**

**Folder 11**

Notes on recollections of Arthur S. Eddington, n.d.

**Box 2**

**Folder 12**

Photographs, Subrahmanyan and Lalitha Chandrasekhar

**Box 2**

**Folder 13**

Miscellaneous papers

**Box 2**

**Folder 14**

Miscellaneous prints and postcards

**Subseries 2: Personal correspondence**

**Box 2**

**Folder 15**

Aiyer, R. Chandrasekhar, photos of certificates and correspondence, 1891-1912

**Box 2**

**Folder 16**

Aiyer, R. Chandrasekhar, Diamond Jubilee Souvenir of the Mrs. A. V. N. College, Vizagapatam, 1938

**Box 2**

**Folder 17**

Ayyar, C. Subrahmanya, photos of certificates and school correspondence, 1903-1907

**Box 3**

**Folder 1**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 2**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 3**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 4**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 5**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 6**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 7**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

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**Folder 8**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 14**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 15**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 16**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 17**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 18**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 3**

**Folder 19**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1928-1943

**Box 4**

**Folder 1**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

**Box 4**

**Folder 2**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

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Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

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**Folder 12**

Ayyar, C. Subrahmanya, Observatory from S. Chandrasekhar, 1944-1955

**Box 4**

**Folder 13**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1929-1936

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**Folder 14**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1929-1936

**Box 4**

**Folder 15**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1929-1936

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**Folder 16**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1929-1936

**Box 4**

**Folder 17**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1929-1936

**Box 5**

**Folder 1**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

**Box 5**

**Folder 2**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

**Box 5**

**Folder 3**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

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Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

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**Folder 17**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

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**Folder 18**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

**Box 5**

**Folder 19**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

**Box 5**

**Folder 20**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1937-1956

**Box 6**

**Folder 1**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1957-1960

**Box 6**

**Folder 2**

Ayyar, C. Subrahmanya, Observatory to S. Chandrasekhar, 1957-1960

**Box 6**

**Folder 3**

Ayyar, C. Subrahmanya, Observatory from other family members, 1930-1957

**Box 6**

**Folder 4**

Ayyar, C. Subrahmanya, family history, ca. 1946

**Box 6**

**Folder 5**

Ayyar, C. Subrahmanya, biographical notes and diary, 1950-1956

**Box 6**

**Folder 6**

Ayyar, C. Subrahmanya, My Musical Extravagance, manuscript, 1944, and printed copy, 1945

**Box 6**

**Folder 7**

Ayyar, C. Subrahmanya, Commemoration Volume, 1945

**Box 6**

**Folder 8**

Ayyar, C. Subrahmanya, The Grammar of South Indian (Karnatic) Music, 1st ed., 1939, 2nd ed., 1951

**Box 6**

**Folder 9**

Ayyar, C. Subrahmanya, 120 Kritis of Sri Tyagaraja, 2nd volume, 1959

**Box 6**

**Folder 10**

Ayyar, C. Subrahmanya, 120 Kritis of Sri Tyagaraja, 2nd volume, 1959

**Box 6**



**Folder 11**

Ayyar, C. Subrahmanya, printed articles, 1931-1949

**Box 7**

**Folder 1**

Ayyar, C. Subrahmanya, miscellaneous clippings and photos

**Box 7**

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Ayyar, C. Subrahmanya, articles sent to Chandrasekhar, 1936-1944

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**Folder 2-3**

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"On Crossing the Cauchy Horizon of a Reissner-Nordström Black-Hole," by Chandrasekhar and J. B. Hartle, Proceedings of the Royal Society of London A 384 (1982) 301-315, notes, manuscript

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"On Crossing the Cauchy Horizon of a Reissner-Nordström Black-Hole," by Chandrasekhar and J. B. Hartle, Proceedings of the Royal Society of London A 384 (1982) 301-315, notes, manuscript, typescript, offprint

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Friedman, John L., "On the Born Approximation for Perturbations of a Spherical Star and the Newman-Penrose Constants," 1973

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**Folder 9**

Gunter, Donald L., "A Study of the Coupled Gravitational and Electromagnetic Perturbations to the Reissner-Nordström Black Hole; The Scattering Matrix, Energy Conversion, and Quasi-Normal Modes," 1978

**Box 153**

**Folder 10**

Ledoux, Paul, "On the Radial Pulsation of Gaseous Stars," 1945

**Box 153**

**Folder 11**

Nakagawa, Y., "Experiments on the Inhibition of Thermal Convection by a Magnetic Field," 1956

**Box 153**

**Folder 12**

Pao, Siciy C., "On the Effect of Fluid Motion on the Initial Decay of a Magnetic Field in a Sphere," 1956

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**Folder 13**

Woltjer, L., "On Hydromagnetic Equilibrium," 1958

**Series VII: Addenda**

Subseries 1, Personal and Biographical, contains four sub-subseries. Each is arranged alphabetically.

Sub-subseries 1, General personal and biographical papers, contains awards and honors Chandrasekhar received; typescripts of his scientific autobiography; curriculum vitae; biographical sketches and personal reflections; text of interviews; mailings and clippings; travel material; and miscellaneous programs, brochures, fliers, invitations, and other ephemera. It ranges in date from 1941-1995.

Sub-subseries 2 contains personal correspondence, including a significant amount between Chandrasekhar and members of his family. Many of the non-family correspondents in this series also have letters in the general correspondence subseries. It ranges in date from 1932-1995.

Sub-subseries 3 contains personal publications such as magazines, newsletters, and reports, many of which are related to political causes or arts organizations that the Chandrasekhars supported or were interested in. It ranges in date from 1946-1996.

Sub-subseries 4 contains material related to the X-Ray Observatory that NASA named in honor of Chandrasekhar several years after his death. It includes promotional material, clippings, and Lalitha Chandrasekhar's notes and correspondence regarding the observatory and launch. It also includes a small amount of material from the student and teacher who proposed naming the observatory after Chandrasekhar. It ranges in date from 1998-2000.

Subseries 2, Correspondence, contains Chandrasekhar's professional correspondence and a small amount of general files from professional events such as conferences. It is arranged alphabetically, mostly according to the last name of the correspondent or the name of the organization. In general, Chandrasekhar's method of organizing has been maintained. Some correspondents have their own folders, while others are grouped in the alphabetically arranged "general" folders following the individual files for each letter. Researchers should note that in a few cases Chandrasekhar grouped letters together according to their subject, such as "autograph requests," "reprint requests," or "Nobel congratulatory letters," and these folders have been left intact. Often, but not always, he ignored prefixes of names when alphabetizing, so names like "von Baeyer" or "De Bianchi" are filed under "B." Additionally, there are occasional sheets with "see also" references filed with the correspondence. These were present in the collection before processing began, so they were likely created by Chandrasekhar or someone helping him organize his papers. The subseries ranges in date from 1931-1996.

Subseries 3, Writing, contains handwritten and typed drafts, reprints and offprints, notes, sketches, drawings, proofs, lecture notes, and other material related to Chandrasekhar's professional writing and speaking that was not included in the original portion of the collection. The majority of the collection is arranged chronologically, according to the date of publication or the day a lecture was delivered. After the chronologically arranged material, there is a group of handwritten notebooks containing papers from various years. At the end of the subseries are undated writings and other material, including bound material, notes, research data, graphs, charts, diagrams, and figures. The subseries ranges in date from 1928-1997.

Generally, exact duplicates of reprints and offprints that were part of the original portion of the collection have not been included in the addenda. However, if there was only one copy of a reprint or offprint in the original Scientific Writings series, a second copy was included in this subseries. In other cases, there is a reprint or offprint of an article in the original portion of the collection and additional related material, such as notes or drafts, in this subseries. Therefore, to get a complete view of Chandrasekhar's writings, researchers will need to consult both portions of the collection.

Subseries 4, Writings about Chandrasekhar, contains scholarly writing about or mentioning Chandrasekhar; material from Kameshwar C. Wali's biography, Chandra; and reviews of publications by Chandrasekhar. It ranges in date from 1945-1999 and is arranged alphabetically by author, with reviews placed at the end of the subseries. Wali's material, which makes up a large portion of this subseries, consists mostly of transcripts of the interviews he conducted with Chandrasekhar, Lalitha, and Chandrasekhar's family and colleagues. The interviews cover a wide range of personal and professional topics and include considerable detail about Chandrasekhar's life and work. Clippings from newspapers and popular magazines about Chandrasekhar have generally been placed in the Personal and Biographical subseries.

Subseries 5, Writings by others, contains professional writings by other scholars. An attempt has been made to maintain Chandrasekhar's method of organization. The first portion of the subseries covers mostly scientific and mathematical topics. It begins with copies of a volume of Newton's Principia from Cambridge University. Following this, the material is arranged alphabetically by author. In some cases, Chandrasekhar filed papers with multiple authors

under the second or third author, rather than the lead author, and his method of filing has been maintained. Following the general writings are writings related to the history of science, which are also organized alphabetically by author. The last portion of the subseries contains biographical writings organized first according to the name of the scientist or mathematician that the writing is about. If there are a significant number of writings about a particular figure, such as Newton or Ramanujan, the writings are then organized alphabetically by author. The subseries ranges in date from 1927-1996.

Subseries 6, Audiovisual, contains three Sub-subseries. Sub-subseries 1, Photographic material, contains photographs, negatives, and slides. The photographs and negatives are arranged chronologically, with undated material and a small number of glass slides for scientific presentations at the end. The images include a significant number of family photographs as well as images from professional travel for conferences, lectures, and meetings in the United States, India, and other locations throughout the world. Also included are a number of images of the Chandrasekhar's home in Williams Bay, Wisconsin, their apartment in Chicago, and the University of Chicago campus. The photographic material ranges in date from 1913-1994, with a significant amount of undated material. Kameshwar C. Wali's Chandra was used to provide captions and dates for some photographs, and for others descriptions were taken from identifying information written on the back, or labels found with the photographs. In some cases multiple copies of the same photograph were found with different dates written on them, possibly because someone had identified and dated the photographs years after they were taken. So, researchers should keep in mind that some dates may be approximate.

Sub-subseries 2, Audio, contains a small number of miscellaneous audio recordings, almost all audio cassettes, including some lectures given by Chandrasekhar. It ranges in dated from 1947-1995. It also contains the oral history interviews carried out by Kameshwar C. Wali in preparation for writing his biography of Chandrasekhar. Transcripts of the interviews are in the Writings by Others subseries.

Sub-subseries 3, Video, contains a small number of VHS video cassettes and one DVD. It ranges in date from 1984-2011 and mostly consists of recordings of lectures and interviews given by Chandrasekhar and tributes to him.

Subseries 7, Oversize, contains material too large to fit in standard legal-sized folders. The majority was drawn from the Personal subseries, and it includes many publications and clippings. The subseries is arranged first by size, from smaller oversize items to larger ones. Within each size, the material is arranged to generally reflect the overall arrangement of the addenda. It ranges in date from 1922-2010.

Subseries 8, Artifacts and framed items, contains a range of miscellaneous decorative, household, and office items as well as some plaques and awards. It is mostly undated, but dated material ranges from 1960-1999.

Subseries 9, Medals, contains Chandrasekhar's Nobel Prize and other medals awarded to him. It ranges in date from 1945-1996.

Subseries 10, Restricted, contains material to which access is restricted. Sub-subseries 1, Administrative records and referee's reports, contains records that are closed for 30 years from their date of creation. The series will be fully open in 2024.

Sub-subseries 2, Financial records, are closed for 50 years from the date of the record's creation. The series will be fully open in 2051.

Sub-subseries 3, Letters of Recommendation for Colleagues and Faculty Appointment material, are closed for 50 years from the record's date of creation. The series will be fully open in 2045.

Sub-subseries 4, Student Grades and Letters of Recommendation, are closed for 80 years from the date of creation. The series will be fully open in 2072.

## **Subseries 1: Personal and Biographical**

### **Sub-subseries 1: General personal and biographical papers**

#### **Box 154**

##### **Folder 1**

57th Street Art Fair booklet, 1971

#### **Box 154**

##### **Folder 2**

5825 S. Dorchester neighborhood Association flier, circa 1990s

#### **Box 154**

##### **Folder 3**

Addresses and contact information, colleagues and family, undated

#### **Box 154**

##### **Folder 4**

Appointment book and calendar, 1972

#### **Box 154**

##### **Folder 5**

Articles and clippings – about Chandrasekhar, 1973-1989, undated

#### **Box 154**

##### **Folder 6**

Articles and clippings – about Chandrasekhar – encyclopedia article in Turkish and related note, 1986

#### **Box 154**

##### **Folder 7**

Articles and clippings – about Chandrasekhar – talk in India on black holes, December 1986

#### **Box 154**

##### **Folder 8**

Articles and clippings – about Chandrasekhar, 1986-1987, undated

#### **Box 154**

##### **Folder 9**

Articles and clippings – about Chandrasekhar, “S. Candlestickmaker” spoof article from 1957, reprint, 1987

**Box 154**

**Folder 10**

Articles and clippings – about Chandrasekhar, 1991-1994, undated

**Box 154**

**Folder 11**

Articles and clippings, “An individual view of the individual,” by Piero Borello, clipping, undated [man climbing ladder]

- SEE ALSO Correspondence Subseries, “Borello”

**Box 154**

**Folder 12**

Articles, clippings, and illustrations, 1953

**Box 154**

**Folder 13**

Articles and clippings, and note by Chandrasekhar and Lalitha, 1959

**Box 154**

**Folder 14**

Articles and clippings, 1965-1994

**Box 154**

**Folder 15**

Articles and clippings, 1991-1992

**Box 154**

**Folder 16**

Articles and clippings, alphabetical by author, A-G, 1960-1994

**Box 154**

**Folder 17**

Articles and clippings, alphabetical by author, H-R, 1961-1989

**Box 154**

**Folder 18**

Articles and clippings, alphabetical by author, S-Z, 1947-1989

**Box 154**

**Folder 19**

Articles and clippings – Sagan, Carl, “The Climatic Catastrophe,” undated

**Box 154**

**Folder 20**

Articles and clippings, Chicago Daily News, 1965

**Box 154**

**Folder 21**

Articles and clippings, Chicago Sun-Times, 1965-1992

**Box 154**

**Folder 22**

Articles and clippings, Evergreen, 1977

**Box 154**

**Folder 23**

Articles and clippings, Hyde Park Herald, 1965-1967, undated

**Box 154**

**Folder 24**

Articles and clippings, New York Times, 1965-1984

**Box 155**

**Folder 1**

Autobiography timeline and notes, undated

**Box 155**

**Folder 2**

Autobiography preface, handwritten, 1983

**Box 155**

**Folder 3**

Autobiography for 1943-1948 and table of contents, typescript with handwritten additions, undated

**Box 155**

**Folder 4**

Autobiography for 1948-1960, typescript with handwritten additions, undated

**Box 155**

**Folder 5**

Autobiography for 1961-1969, typescript with handwritten additions, undated

**Box 155**

**Folder 6**

Autobiography for 1970-1974, typescript with handwritten additions, undated

**Box 155**

**Folder 7**

Autobiography for 1975-1977, typescript with handwritten additions, undated

**Box 155**

**Folder 8**

Autobiography for 1978-1979, typescript with handwritten additions, undated

**Box 155**

**Folder 9**

Autobiography for 1980-1982, typescript with handwritten additions, undated

**Box 155**

**Folder 10**

Autobiography for 1983-1985, typescript with handwritten additions, undated

**Box 155**

**Folder 11**

Autobiography for 1985-1987, typescript with handwritten additions, undated [multiple versions]

**Box 155**

**Folder 12**

Autobiography for 1987-1989, typescript with handwritten additions, undated

**Box 155**

**Folder 13**

Autobiography for 1989-1991 and table of contents, typescript with handwritten additions, undated

**Box 155**

**Folder 14**

Autobiography for 1991-1994, typescript with handwritten additions, undated

**Box 155**

**Folder 15**

Autobiography pages, dictated, typed by Lalitha, 1976-1978

**Box 155**

**Folder 16**

Autobiographical notes for 1988-1993, undated

**Box 156**

**Folder 1**

Awards and honors – lists, circa 1968-1991

**Box 156**

**Folder 2**

Awards and honors – miscellaneous, 1974-1990

**Box 156**

**Folder 3**

Awards and honors – acceptance speeches, Indian Physics Association R.D. Birla Memorial Award and honorary degree from University of Visva-Bharati, circa 1984

**Box 156**

**Folder 4**

Awards and honors – American Academy of Achievement Banquet of the Golden Plate yearbook, 1986

**Box 156**

**Folder 5**

Awards and honors – American Academy of Achievement Banquet of the Golden Plate yearbook, 1988

**Box 156**

**Folder 6**

Awards and honors – American Academy of Achievement Banquet of the Golden Plate yearbook, 1990

**Box 156**

**Folder 7**

Awards and honors – American Academy of Achievement Banquet of the Golden Plate programs and Lalitha's notes, 1990

**Box 156**

**Folder 8**

Awards and honors – American Meteorological Society certificate of membership, 1988

**Box 156**

**Folder 9**

Awards and honors – Bruce Gold Medal, article in Publications in the Astronomical Society of the Pacific, 1952

**Box 156**

**Folder 10**

Awards and honors – Daniel Heineman Prize for Mathematical Physics, certificate, announcements, response, 1974

**Box 156**

**Folder 11**

Awards and honors – Dr. Tomalla Prizes, citations for S. Chandrasekhar and A. Sakharov, 1984

**Box 156**

**Folder 12**

Awards and honors – Henry Draper Medal, certificate, 1971

**Box 156**

**Folder 13**

Awards and honors – honorary degree, Concordia University, 1988

**Box 157**

**Folder 1**

Awards and honors – honorary degree, Federal University of Technology, Owerri, 1988

**Box 157**

**Folder 2**

Awards and honors – honorary degree, Harvard University, 1979

**Box 157**

**Folder 3**

Awards and honors – honorary degree, Northwestern University, and photograph, 1963

**Box 157**

**Folder 4**

Awards and honors – honorary degree, Queens College, 1984

**Box 157**

**Folder 5**

Awards and honors – honorary degree, Queen's University at Kingston, and photograph and note, 1991

**Box 157**

**Folder 6**

Awards and honors – honorary degree, Syracuse University, and photograph, 1987

**Box 157**

**Folder 7**

Awards and honors – honorary degree, Université de Liege, 1967

- SEE ALSO clipping, certificate in Oversize Subseries

**Box 157**

**Folder 8**

Awards and honors – honorary degree, University of Madras, 1982-1983; acceptance speech, 1984

**Box 157**

**Folder 9**

Awards and honors – honorary degree, University of Michigan, Voices of Civilization program and photographs, 1967

**Box 157**

**Folder 10**

Awards and honors – honorary degree, University of Mysore, 1961

**Box 158**

**Folder 1**

Awards and honors – honorary degree, University of Newcastle upon Tyne, and photograph, 1965



**Box 158**

**Folder 2**

Awards and honors – honorary degree, University of Oxford, 1972

**Box 158**

**Folder 3**

Awards and honors – Immigrants' Service League Award, 1961

**Box 158**

**Folder 4**

Awards and honors – Indian League of America Annual Awards Banquet, 1977

**Box 158**

**Folder 5**

Awards and honors – Nicolas Copernicus medal, citation from Jerry Piorkowski, 1973

**Box 158**

**Folder 6**

Awards and honors – Nobel Prize – articles, clippings, and announcements, 1983-1984 [1 of 2]

- SEE ALSO Correspondence Subseries, "Nobel Prize"

**Box 158**

**Folder 7**

Awards and honors – Nobel Prize – articles, clippings, and announcements, 1983-1984 [2 of 2]

**Box 158**

**Folder 8**

Awards and honors – Nobel Prize – articles and clippings, 1983-1984

**Box 158**

**Folder 9**

Awards and honors – Nobel Prize – cards and letters from other laureates, including Beadle, Becker, Bellow, Cronin, Huggins, Mulliken, and others, 1974-1992, undated

**Box 158**

**Folder 10**

Awards and honors – Nobel Prize – citations and brief biographies, undated

**Box 158**

**Folder 11**

Awards and honors – Nobel Prize – citation from state of Illinois; Museum of Science and Industry Awards dinner and Nobel Laureates portraits exhibition catalog, 1983-1991

**Box 158**

**Folder 12**

Awards and honors – Nobel Prize – correspondence, memoranda, and schedules for ceremonies, 1982-1983

**Box 158**

**Folder 13**

Awards and honors – Nobel Prize – invitation to traditional Vikning at Allhuset-Frescati, 1983

**Box 158**

**Folder 14**

Awards and honors – Nobel Prize – University of Chicago dinner and concert in Chandrasekhar's honor and card from Germany, 1983

**Box 158**

**Folder 15**

Awards and honors – Nobel Prize – photographs and notes, 1983 [1 of 2]

**Box 158**

**Folder 16**

Awards and honors – Nobel Prize – photographs and notes, 1983 [2 of 2]

**Box 158**

**Folder 17**

Awards and honors – Nobel Prize – publications and booklets, 1974-1985

**Box 158**

**Folder 18**

Awards and honors – Nobel Prize – Royal Swedish Academy – booklet, notes, photograph, stamps, 1983-1989

**Box 158**

**Folder 19**

Awards and honors – Phi Beta Kappa, member certificate, 1974

**Box 159**

**Folder 1**

Awards and honors – Royal Astronomical Society Gold Medal, citation and note by R.H. Garstang from Journal of the British Astronomical Association, 1953

**Box 159**

**Folder 2**

Awards and honors – Trinity College Cambridge, notice of election as honorary fellow, 1981

**Box 159**

**Folder 3**

Awards and honors – United States War Department Certificate of Appreciation, 1946

**Box 159**

**Folder 4**

Ayyar, C.S., birth centenary, articles and writings, 1985

**Box 159**

**Folder 5**

Biographical – brief outline of scientific interests, and note by Lalitha, 1971

**Box 159**

**Folder 6**

Biographical – conversations with Lalitha, circa 1980-1984 [reflections on life and career]

**Box 159**

**Folder 7**

Biographical – curriculum vitae, various drafts, circa 1979-1995

**Box 159**

**Folder 8**

Biographical – general biographical sketches, including chapter from Kameshwar C. Wali's Chandra and Who's Who publications, 1981-1995

**Box 159**

**Folder 9**

Biographical – interview with Karl Hufbauer, notes and related material, copies, 1978

**Box 159**

**Folder 10**

Biographical – interview with Kevin Krisciunas, transcript, 1987

**Box 159**

**Folder 11**

Biographical – interview with B.R. Nanda regarding memories of Jawaharlal Nehru, transcript, 1988

**Box 159**

**Folder 12**

Biographical – interview with Spencer Weart, undated

**Box 159**

**Folder 13**

Biographical – Japanese comic book with English translation, 1993

**Box 159**

**Folder 14**

Biographical – list of papers on black holes, 1983

**Box 159**

**Folder 15**

Biographical – Personal Records of Fellows of the Royal Society, incomplete, undated

**Box 159**

**Folder 16**

Biographical – publications, list of, circa 1974-1991

**Box 159**

**Folder 17**

Biographical – recollections of my mother, 1980

**Box 159**

**Folder 18**

Biographical – students (PhD Recipients), lists of, circa 1950-1974

**Box 159**

**Folder 19**

Brochure, Antioch College, 1979

**Box 159**

**Folder 20**

Calendars, unused – American Physical Society 75th Anniversary, 1974; economists, 1980; American Institute of Physics 50th Anniversary, 1981

**Box 159**

**Folder 21**

Conference des laureats du Prix Nobel, nametag, undated

**Box 160**

**Folder 1**

Crayon drawings and notes, 1965, undated

**Box 160**

**Folder 2**

Diary, four entries, and list of names, 1958, undated

**Box 160**

**Folder 3**

Drawing mat and paper samples, undated

**Box 160**

**Folder 4**

Elliot, T.S., "Versification in Shakespeare," transcription of radio address, typed, handwritten and copy of typescript, 1975

**Box 160**

**Folder 5**

Enrico Fermi Institute personnel listing, 1993

**Box 160**

**Folder 6**

Event fliers, announcements, and programs, 1946, 1968-1984

**Box 160**

**Folder 7**

Exponential growth, handwritten lists, undated

**Box 160**

**Folder 8**

Greek image, undated

**Box 160**

**Folder 9**

Hindu High School 100th and 125th Anniversary books, 1952, 1958

**Box 160**

**Folder 10**

Images, diagrams, and ephemera, miscellaneous, 1990-1991, undated

**Box 160**

**Folder 11**

Indian Academy of Sciences Golden Jubilee meeting, 1984-1985

- SEE ALSO clippings in Oversize Subseries

**Box 160**

**Folder 12**

Lee, T.D. 60th birthday celebration, 1986

**Box 160**

**Folder 13**

Lincoln Academy of Illinois Convocation and Investiture of Laureates, program and invitation, 1993

**Box 161**

**Folder 1**

Mailings, alphabetical by name of organization name, A-Ch, 1959-1991, undated

**Box 161**

**Folder 2**

Mailings, Bocharanwasi Shri Akshar Purushottam Sanstha, 1992

**Box 161**

**Folder 3**

Mailings, alphabetical by name of organization, Ci-F, 1962-1981, undated

**Box 161**

**Folder 4**

Mailings, alphabetical by name of organization, G-M, 1959-1984

**Box 161**

**Folder 5**

Mailings, alphabetical by name of organization, N-R, 1959-1995

**Box 161**

**Folder 6**

Mailings, alphabetical by name of organization, S-W, 1959-1995

**Box 161**

**Folder 7**

Mailings, University of Chicago, 1959-1990

**Box 161**

**Folder 8**

Minutes, Colloquium on Science and Public Affairs, 1963

**Box 161**

**Folder 9**

Monet note cards, 1995

**Box 161**

**Folder 10**

Museum brochures and catalogs, 1961-1992, undated

**Box 162**

**Folder 1**

“Musical Extravagance,” Part II, booklet, inscribed, “To my son Dr. S. Chandrasekhar,” 1952

**Box 162**

**Folder 2**

Newton images and note, circa 1990s

**Box 162**

**Folder 3**

Notebook, not in English [Tamil or Sanskrit?], 1958

**Box 162**

**Folder 4**

Notebook, notes on “Elements of Chemistry,” “On Liberty,” and “This I do Believe,” Lalitha?, 1950

**Box 162**

**Folder 5**

Notes and ephemera, many for Williams Bay activities, June 1959

**Box 162**

**Folder 6**

Office decorations? – Eddington front jacket sketch from 1933, undated

**Box 162**

**Folder 7**

Office decorations? – Bernhard Rieman quote from 1854, undated

**Box 162**

**Folder 8**

Office decorations? – reproduction of Ramanujan photograph, undated

**Box 162**

**Folder 9**

“One Step Toward Eternity,” handwritten reminiscences of time with the Chandrasekhars, undated

**Box 162**

**Folder 10**

Passports, 1979, 1984

**Box 162**

**Folder 11**

Planet named for Chandrasekhar, 1979, 1987

**Box 162**

**Folder 12**

Portrait sketch, younger years, undated

**Box 162**

**Folder 13**

Portraits, Franklin D. Roosevelt, D’Alembert, Einstein?, undated

**Box 162**

**Folder 14**

Postcard and business cards, undated

**Box 162**

**Folder 15**

Postcards, blank, Alaska Highway, undated

**Box 162**

**Folder 16**

Postcards, blank, USSR, 1956

**Box 162**

**Folder 17**

Postcards, blank, USSR observatory, 1958

**Box 162**

**Folder 18**

Postcards, blank, and miscellaneous images, including Cambridge, Cape Cod, Princeton, Roosevelt Library, and others

**Box 162**

**Folder 19**

Postcards and notecards, blank, including India, Italy, Warsaw, Greece, and others, undated

**Box 162**

**Folder 20**

Postcards, blank, and miscellaneous images, including Italy and Prague, undated

**Box 163**

**Folder 1**

Postcards, blank, and miscellaneous images, 1962, 1984, undated

**Box 163**

**Folder 2**

Presidential inauguration of William J. Clinton, invitation, 1993

**Box 163**

**Folder 3**

Press releases and memoranda, 1955-1984

**Box 163**

**Folder 4**

Programs, concerts, 1974-1987, undated

**Box 163**

**Folder 5**

Programs, fliers, and brochures for Chandrasekhar's lectures and books, 1946-1985

**Box 163**

**Folder 6**

Programs, brochures, and invitations, mostly from India, including booklet for dedication of portrait to Lalitha's aunt Subbalakshmi, 1950-1953

**Box 163**

**Folder 7**

Programs, theater, 1978-1987, undated [1 of 2]

**Box 163**

**Folder 8**

Programs, theater, 1978-1987, undated [2 of 2]

**Box 163**

**Folder 9**

Programs, University of Chicago Department of Music, 1979-1995

**Box 163**

**Folder 10**

Programs, theater and concerts, 1992

**Box 164**

**Folder 1**

Programs and fliers, miscellaneous, 1973-1993, undated

**Box 164**

**Folder 2**

Quotations, collected, 1968-1991, undated

**Box 164**

**Folder 3**

Quotations, Chandrasekhar and others, and miscellaneous captions, 1980-1990, undated

**Box 164**

**Folder 4**

Ramanujan letter from 1912, transparency, undated

**Box 164**

**Folder 5**

Random thoughts, 1975-1991

**Box 164**

**Folder 6**

Regenstein box, books, and files list, undated

**Box 164**

**Folder 7**

Response cards, stamps, and miscellaneous note paper, 1995, undated

**Box 164**

**Folder 8**

“Rioting Threatens India’s Secular Future,” letter to New York Times with Susanne H. Rudolph, Amartya Sen, and Vid Menta, 1992

**Box 164**

**Folder 9**

Royal Society Anniversary Dinner program and related material, 1984

**Box 164**

**Folder 10**

Sketches and clippings, 1991, undated

**Box 164**

**Folder 11**

Stamps, commemorative and miscellaneous, 1964-1982, undated

**Box 164**

**Folder 12**

Statuette of a stamp description, undated

**Box 164**

**Folder 13**

Syllabi, “Historical Geography of the United States and Canada” and “Man and Culture,” 1952

**Box 164**

**Folder 14**

Tamil Language Foundation materials, circa 1990s

**Box 164**

**Folder 15**

Travel – lists of destinations and itineraries for 1935-1993, undated [1 of 2]

**Box 164**

**Folder 16**

Travel – lists of destinations and itineraries for 1935-1993, undated [2 of 2]

**Box 164**

**Folder 17**

Travel – maps, guides, and brochures, 1956-1994, undated [1 of 2]

**Box 164**

**Folder 18**

Travel – maps, guides, and brochures, 1956-1994, undated [2 of 2]

**Box 164**

**Folder 19**

Travel – Air Force Missile Test Center, 1961

**Box 164**

**Folder 20**

Travel – London, Geneva, 1965

**Box 165**

**Folder 1**

Travel – Athens, Munich, Trieste trip, brochures and booklets, 1972 [1 of 2]

**Box 165**

**Folder 2**

Travel – Athens, Munich, Trieste trip, brochures and booklets, 1972 [2 of 2]



**Box 165**

**Folder 3**

Travel – India trips, schedule and invitation, 1984; itineraries, 1992

**Box 165**

**Folder 4**

Travel – reservations and notes on trips, 1986-1995, undated

**Box 165**

**Folder 5**

Travel – Newton Tercentenary, 1987

**Box 165**

**Folder 6**

Travel – Wales, 1987, 1995

**Box 165**

**Folder 7**

Travel – Vienna, London, and Oxford trip brochures and booklets, circa 1990 [1 of 4]

**Box 165**

**Folder 8**

Travel – Vienna, London, and Oxford trip brochures and booklets, circa 1990 [2 of 4]

**Box 165**

**Folder 9**

Travel – Vienna, London, and Oxford trip brochures and booklets, circa 1990 [3 of 4]

**Box 165**

**Folder 10**

Travel – Vienna, London, and Oxford trip brochures and booklets, circa 1990 [4 of 4]

**Box 166**

**Folder 1**

Travel – Vienna, London, and Oxford trip, correspondence and blank postcards, 1990

**Box 166**

**Folder 2**

Travel – “Tagung der Nobelpreisträger in Lindau,” 1994

**Box 166**

**Folder 3**

Travel – Polizei patch, undated

**Box 166**

**Folder 4**

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“The Normal Reflection of a Blast Wave,” 1943, report

**Box 209**

**Folder 3**

“On Being a Foreigner,” 1945, two handwritten copies

**Box 209**

**Folder 4**

“The Story of Two Atoms,” 1947, copies of reprint

**Box 209**

**Folder 5**

“Atoms, Stars, and Nebulae,” Goldberg and Allen, handwritten notes, 1948

**Box 209**

**Folder 6**

“Essay on Intropic Turbulence,” handwritten, 1949

**Box 209**

**Folder 7**

“On a Class of Non-linear Integral Equations,” Adams Prize Essay, 1949-1950, bound typescript with handwritten equations

**Box 209**

**Folder 8**

“Problems of Stability in Hydrodynamic and Hydromagnetic,” related minutes of meeting of Royal Astronomical Society in The Observatory, 1954

**Box 209**

**Folder 9**

“The Character of the Equilibrium of an Incompressible Heavy Viscous Fluid of Variable Density,” 1955, reprint

**Box 209**

**Folder 10**

“A Theory of Turbulence,” 1955, reprint

**Box 209**

**Folder 11**

“On the Continuous Absorption Coefficient of the Negative Hydrogen Ion. V,” 1958, reprint

**Box 209**

**Folder 12**

“The Viral Theorem in Hydromagnetics,” 1960, reprints

**Box 209**

**Folder 13**

“Hydrodynamic and Hydromagnetic Stability,” 1961, copies of table of contents

**Box 209**

**Folder 14**

“The Study of Hydromagnetic Problems Bearing on Geomagnetism,” 1962, report

**Box 209**

**Folder 15**

“The Equilibrium and the Stability of the Roche Ellipsoids,” 1963, reprint with handwritten notes

**Box 209**

**Folder 16**

“Non-radial Oscillations and Convective Instability of Gaseous Masses,” with Norman R. Lebovitz, 1963, reprint with handwritten notes

**Box 209**

**Folder 17**

“The Higher Order Viral Equations and Their Applications to the Equilibrium and Stability of Rotating Configurations,” 1964, reprint

**Box 209**

**Folder 18**

“Dynamical Instability of Gaseous Masses Approaching the Schwarzschild Limit in General Relativity,” 1964, copies

**Box 209**

**Folder 19**

“The Healthy Scientific Life,” 1964, essay in Context - A University of Chicago Magazine

**Box 209**

**Folder 20**

“The Post-Newtonian Equations of Hydrodynamics in General Relativity,” “The Post-Newtonian Effects of General Relativity on the Equilibrium of Uniformly Rotating Bodies. I. The MacLaurin Spheroids and The Viral Theorem,” and “The Stability of Gaseous Masses for Radial and Non-Radial Oscillations in the Post-Newtonian Approximation of General Relativity,” 1965, reprint with handwritten notes on cover

**Box 209**

**Folder 21**

“Reminiscences on Enrico Fermi” in “E. Fermi – Collected Papers, Volume II,” circa 1965

**Box 209**

**Folder 22**

“The Present Revolution in Astronomy,” 1966, text of lecture in Quadrangle News  
**Box 209**  
**Folder 23**  
“The Viral Equations of the Fourth Order,” 1968, reprint with handwritten notes  
**Box 209**  
**Folder 24**  
“The Richtmyer Memorial Lecture – Some Historical Notes,” 1969, reprints  
**Box 209**  
**Folder 25**  
“Solutions of Two Problems in the Theory of Gravitational Radiation,” 1970, articles with handwritten notes  
**Box 209**  
**Folder 26**  
“Historical Notes on Some Astrophysical Problems,” 1972, typescript with handwritten notes  
**Box 209**  
**Folder 27**  
“Copernicus – from Humanism to Inquisition,” paper from Science and Public Affairs, 1973  
**Box 209**  
**Folder 28**  
Remarks at International Conference held as a memorial to Dr. Zdenek Sekera, 1973, typescript  
**Box 209**  
**Folder 29**  
Remarks on Enrico Fermi, 1973  
**Box 209**  
**Folder 30**  
Response on Receiving the Marian von Smoluckowski Medal, 1973, typescript  
**Box 209**  
**Folder 31**  
“A Tribute to Alfred H. Joy,” 1974, reprint of letter to the editor  
**Box 209**  
**Folder 32**  
“A Vast Treatise on General Relativity,” review, 1974  
**Box 209**  
**Folder 33**  
“Some Remarks on the Development of General Relativity,” 1974, in “The Enrico Fermi Institute – An Occasional Publication,” 1975  
**Box 209**  
**Folder 34**  
“How I Came Periodically to Change the Area of my Active Interest After Writing a Book,” 1975, typescript  
**Box 209**  
**Folder 35**

“On the Equations Governing the Axisymmetric perturbations of the Kerr black hole,”  
with S. Detweiler, 1975, article

**Box 210**

**Folder 1**

“Shakespeare, Newton, and Beethoven, or Patterns of Creativity,” 1975, 1979, Ryerson  
lecture booklet, University of Chicago Bulletin and Magazine, and reprint

- SEE ALSO poster in Oversize Subseries

**Box 210**

**Folder 2**

“Verifying the Theory of Relativity,” 1975, copies of article

**Box 210**

**Folder 3**

“The Solution of Dirac’s equation in Kerr Geometry,” 1976, article and errata

**Box 210**

**Folder 4**

“Some Notes on the Discovery of the Raman Effect,” 1977, copies of typescript,  
correspondence, and diary entry; article by S. Rameshan, 1988

**Box 210**

**Folder 5**

“Convocation Address at Carleton University,” 1978, typescript

**Box 210**

**Folder 6**

“Einstein and General Relativity – Historical Perspectives,” Oppenheimer Memorial  
Lecture, 1978, typescript and introduction by N. Metropolis

**Box 210**

**Folder 7**

Review of A History of Ancient Mathematical Astronomy by O. Neugebauer, with N.  
Swerdlow, 1978, draft and copies of text

**Box 210**

**Folder 8**

“Beauty and the Quest for Beauty in Science,” 1979, Polish translation, 1986 and reprint  
in illustrated booklet, 1992

**Box 210**

**Folder 9**

C.T. Rajagopal obituary, 1979

**Box 210**

**Folder 10**

“Einstein’s General Theory of Relativity and Cosmology,” 1979, reprint

**Box 210**

**Folder 11**

Responding to Ambassador of India at his reception in Washington, D.C., 1979,  
handwritten draft

**Box 210**

**Folder 12**

Review of “The First Three Minutes,” by Steven Weinberg, 1979, copies

**Box 210**

**Folder 13**

Recollections and Reflections I, Edward Arthur Milne, typescripts with handwritten edits, 1979

**Box 210**

**Folder 14**

Recollections and Reflections II, Arthur Stanley Eddington, 1980, typescripts with handwritten edits; related essay, by Lalitha?, 1981

**Box 210**

**Folder 15**

Recollections and Reflections III, Ralph Howard Fowler, 1980, typescripts with handwritten edits

**Box 210**

**Folder 16**

“The General Theory of Relativity – The First Thirty Years,” 1980, typescript

**Box 210**

**Folder 17**

“The Pursuit of Knowledge,” 1980, copy of typescript of paper read at Regents’ Fellows Colloquium

**Box 210**

**Folder 18**

Remarks made after Gerald Holton’s paper “On Tracing the Nascent Moment” at the Carnegie Symposium of the Library of Congress, 1980, typescript

**Box 210**

**Folder 19**

Review of “The Large-Scale Structure of the Universe,” by P.J.E. Peebles, circa 1980, copy

**Box 210**

**Folder 20**

“The Role of General Relativity in Astronomy – retrospect and prospect,” 1980, text of talk

**Box 210**

**Folder 21**

“William Holder Zachariasen – in memoriam,” 1980-1981, copy of typescript, article in University of Chicago record

**Box 210**

**Folder 22**

“Achievements in Astronomy” – review of Oort and the Universe, 1981, pages from Nature

**Box 210**

**Folder 23**

“Black-Holes – The Why and the Wherefore, 1981, typescript

**Box 210**

**Folder 24**

Observatory Report – University of Chicago, The Yerkes Observatory, 1981, reprint

**Box 210**

**Folder 25**

“The Principles of Invariance in the Theory of Radiative Transfer,” 1981, handwritten drafts, typescript

**Box 210**

**Folder 26**

“Radiative Transfer – A Personal Account,” typescript and reprints with handwritten notes

**Box 210**

**Folder 27**

“On Crossing the Cauchy Horizon of a Reissner-Nordström black-hole,” 1982, typescript, handwritten drafts

**Box 211**

**Folder 1**

Eddington - The Most Distinguished Astrophysicist of his Time, 1983, book jacket, page proofs, and typescript, with handwritten notes

**Box 211**

**Folder 2**

Japan research report and letters to Japanese hosts, 1983

**Box 211**

**Folder 3**

The Mathematical Theory of Black Holes, 1983 – chapter 1, copies of manuscript with handwritten edits

**Box 211**

**Folder 4**

The Mathematical Theory of Black Holes, 1983 – chapter 2, copies of manuscript and typescript

**Box 211**

**Folder 5**

The Mathematical Theory of Black Holes, 1983 – chapter 5, copies of manuscript

**Box 211**

**Folder 6**

The Mathematical Theory of Black Holes, 1983; third printing corrections, including correspondence with Basilis Xanthopoulos, 1985-1986, undated [1 of 2]

**Box 211**

**Folder 7**

The Mathematical Theory of Black Holes, 1983; third printing corrections, including correspondence with Basilis Xanthopoulos, 1985-1986, undated [2 of 2]

**Box 211**

**Folder 8**

Nobel Prize autobiographical sketch and acceptance speech, handwritten drafts, 1983

**Box 211**

**Folder 9**

Nobel lecture – “On Stars, Their Evolution and Their Stability,” 1983-1984, handwritten draft and typescripts

**Box 212**

**Folder 1**

Nobel lecture – “On Stars, Their Evolution and Their Stability,” illustrations for overhead projector, undated

**Box 212**

**Folder 2**

Nobel lecture – “On Stars, Their Evolution and Their Stability,” typescripts marked up for publication and reprints

**Box 212**

**Folder 3**

Nobel lecture – “On Stars, Their Evolution and Their Stability,” in Reviews of Modern Physics, 1984

**Box 212**

**Folder 4**

Nobel lecture – “On Stars, Their Evolution and Their Stability,” translations, Czech, German, Japanese, Persian, and Polish, 1984-1985

**Box 212**

**Folder 5**

“The After-Dinner Response made to the Association of Indians in America, Inc.,” 1984, typescript

**Box 212**

**Folder 6**

“The General Theory of Relativity – Why ‘It is Probably the most Beautiful of all Existing Theories,” 1984, typescript, reprints, transparencies, and flier

**Box 212**

**Folder 7**

“Jeanne Hopkins (1923-1984),” letter to the editor of Sky and Telescope, 1984

**Box 212**

**Folder 8**

Marian Smoluchowski as the Founder of the Physics of Stochastic Phenomena, 1984, article, in Polish

**Box 212**

**Folder 9**

“The Mathematical Theory of Black Holes,” 1984, typescript of lecture, published version, and transparencies

**Box 212**

**Folder 10**

“The Mathematical Theory of Black Holes,” 1984, transparencies and copies of handwritten formula

**Box 212**

**Folder 11**

“On Algebraically Special Perturbations of Black Holes,” 1984, article

**Box 212**

**Folder 12**

“On Algebraically Special Perturbations of Black Holes,” 1984, handwritten verifications and drafts, and copies

**Box 212**

**Folder 13**

“On Algebraically Special Perturbations of Black Holes,” 1984, handwritten draft

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**Folder 14**

“On the Onset of Relativistic Instability in Highly Centrally Condensed Stars,” with Norman R. Lebovitz, 1984, reprints, drafts, and note

**Box 212**

**Folder 15**

“On the Nutku-Halil solution for colliding impulsive gravitational waves,” with Valeria Ferrari, 1984, offprint and errata, drafts

**Box 212**

**Folder 16**

“Opening Remarks at the First Wolfgang Pauli Lecture given at E.T.H. (Zürich),’ 1984, typescript

**Box 212**

**Folder 17**

“Response at the ‘Dinner to honor 1983 Nobel Laureates in Science,’ at the Museum of Science and Industry,” 1984, typescript

**Box 212**

**Folder 18**

Third World Conference Foundation, 1984, program and notes, including Lalitha’s

**Box 212**

**Folder 19**

Ramanujan bust unveilings – text of speeches by S. and Lalitha Chandrasekhar and R. Askey; related fliers, invitations and clippings; note from R. Askey 1984-1987

**Box 212**

**Folder 20**

“An Incident in the Life of S. Ramanujan, F.R.S” and “Extracts from a letter from A. Ranganathan,” from 1981, undated, typescripts

**Box 212**

**Folder 21**

“On the Discovery of the Enclosed Photograph of S. Ramanujan, F.R.S.,” undated, typescript and related material, including Ramanujan postage stamp, undated

**Box 212**

**Folder 22**

Ramanujan transparencies, undated

**Box 213**

**Folder 1**

“Analogue of Weyl’s Solution” (Paper III), handwritten drafts and correspondence with Basilis Xanthopoulos, 1985

**Box 213**

**Folder 2**

“Analogue of Weyl’s Solution,” and “Colliding plane gravitational waves,” E+ Solution, notes, drafts, and correspondence with Basilis C. Xanthopoulos, 1985

**Box 213**

**Folder 3**

“Analogue of Weyl’s Solution,” including “X’s notes,” Kasner and Robinson, notes, and drafts, undated

**Box 213**

**Folder 4**

“Gravitational Collapse and the Problem of Singularities in General Relativity,” synopsis of lecture, 1985?, typescript

**Box 213**

**Folder 5**

“Hydrodynamic Stability and Turbulence (1922-1948)”/ “An Introduction to Heisenberg’s Papers on Hydrodynamic Stability and Turbulence,” 1985, reprints and typescript

**Box 213**

**Folder 6**

“On Colliding Waves in the Einstein-Maxwell Theory,” with Basilis C. Xanthopoulos, 1985, offprints and drafts

**Box 213**

**Folder 7**

“On Colliding Waves in the Einstein-Maxwell Theory,” with Basilis C. Xanthopoulos, 1985, draft

**Box 213**

**Folder 8**

“On the collision of impulsive gravitational waves when coupled with fluid motion,” with Basilis C. Xanthopoulos, 1985, offprint and drafts

**Box 213**

**Folder 9**

“On the collision of impulsive gravitational waves when coupled with fluid motion,” with Basilis C. Xanthopoulos, 1985, diagrams

**Box 213**

**Folder 10**

“On the collision of impulsive gravitational waves when coupled with null dust,” with Basilis C. Xanthopoulos, 1986, offprints and drafts

**Box 213**

**Folder 11**

“On the collision of impulsive gravitational waves when coupled with fluid motion” / “On the collision of impulsive gravitational waves when coupled with null dust,” 1985-1986, correspondence with Basilis Xanthopoulos, Roger Penrose, Robert Geroch, and Kip Thorne, with notes and drafts

**Box 213**

**Folder 12**

“On the collision of impulsive gravitational waves when coupled with fluid motion” / “On the collision of impulsive gravitational waves when coupled with null dust,” 1985-1986, with Basilis C. Xanthopoulos, 1985, miscellaneous earlier trials

**Box 213**

**Folder 13**

“The Collision of Gravitational Waves When Coupled with Hydrodynamic Shocks,” handwritten proofs, undated

**Box 213**

**Folder 14**

Illustrations, formulae, and letter to Roger Penrose, with Basilis C. Xanthopoulos, 1986, undated

**Box 214**

**Folder 1**

“Opening Remarks at a Science Seminar on the Occasion of ‘India – a festival of Science’ at the Museum of Science and Industry, Chicago” / extracts from opening remarks, 1985-1986, typescript, copy of text from Current Science

**Box 214**

**Folder 2**

“The Pursuit of Science – its Motivations” and “The Pursuit of Science” [2 slightly different versions], text of inaugural address at the Golden Jubilee Meeting of the Indian Academy of Sciences, 1985, typescript and reprints and copies from various publications

**Box 214**

**Folder 3**

“The Pursuit of Science – its Motivations,” reprint in UNESCO Science and Technology Education Document Series No. 48, “Internalizing Physics,” 1995

**Box 214**

**Folder 4**

“Solutions for the Einstein-Maxwell Equations for the Case  $Z=1+ix$ ” and “A Special Class of Solutions of the Einstein-Maxwell equations,” handwritten proofs, circa 1985

**Box 214**

**Folder 5**

“Some exact Solutions of gravitational waves coupled with fluid motions,” with Basilis C. Xanthopoulos, 1985, offprints, typescript, and handwritten draft

**Box 214**

**Folder 6**

“Some exact Solutions of gravitational waves coupled with fluid motions,” with Basilis C. Xanthopoulos, 1985, drafts

**Box 214**

**Folder 7**

“Recollections of Mrs. Indira Gandhi,” 1985, typescript and copies of published version

**Box 214**

**Folder 8**

“The Aesthetic Base of the General Theory of Relativity,” Karl Schwarzschild Lecture, 1986, 1991, published versions and copies

**Box 214**

**Folder 9**

“The Aesthetic Base of the General Theory of Relativity,” Karl Schwarzschild Lecture, 1986, typescripts

**Box 214**

**Folder 10**

“The Aesthetic Base of the General Theory of Relativity,” Karl Schwarzschild Lecture, 1986, copies of articles and letter (some in German), images, and chart

- SEE ALSO Oversize Subseries

**Box 214**

**Folder 11**

“The Aesthetic Base of the General Theory of Relativity,” Cambridge lecture, 300 Years of Gravity, circa 1986 typescript and handwritten notes

**Box 214**

**Folder 12**

“Cylindrical Waves in General Relativity,” 1986, offprints, drafts

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**Folder 1**

“Cylindrical Waves in General Relativity,” 1986, handwritten text [1 of 3]

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**Folder 2**

“Cylindrical Waves in General Relativity,” 1986, handwritten text [2 of 3]

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**Folder 3**

“Cylindrical Waves in General Relativity,” 1986, handwritten text [3 of 3]

**Box 215**

**Folder 4**

“Cylindrical Waves in General Relativity,” 1986, graphs and figures

**Box 215**

**Folder 5**

“Cylindrical Waves in General Relativity,” 1986, formulae, excerpts from Born-Einstein letters

**Box 215**

**Folder 6**

“Cylindrical Waves in General Relativity,” 1986, formulae

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**Folder 7**

“Cylindrical Waves in General Relativity,” 1986, graphs and computer print-outs

**Box 215**

**Folder 8**

Cylindrically Symmetric Radiative Space-Times, or, Cylindrical Waves in General Relativity, II,” with Sotirios Persides, after 1986, draft and graphs

**Box 215**

**Folder 9**

“A New Type of Singularity created by Colliding Gravitational Waves,” 1986

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**Folder 10**

“On the Collision and Propagation of Gravitational Waves,” 1986?, typescript of talk

**Box 215**

**Folder 11**

“On Introducing T.D. Lee,” text of speech, 1986, typescript and copies of published version

**Box 215**

**Folder 12**

Remarks at unveiling of portrait, handwritten, 1986

**Box 215**

**Folder 13**

Weyl's solution, notes and letter from Valeria Ferrari, 1986

**Box 215**

**Folder 14**

Aesthetics and motivations, notes (quotations), circa 1987?

**Box 215**

**Folder 15**

"At the Annual Dinner of the Taraknath Das Foundation," text of address, 1987, typescripts

**Box 215**

**Folder 16**

At the Inauguration of the Ramanujan Centennial Symposium, text of address, 1987, typescripts

**Box 216**

**Folder 1**

"The effect of sources on horizons that may develop when plane gravitational waves collide," with Basilis C. Xanthopoulos, 1987, offprints, drafts, figures [1 of 2]

**Box 216**

**Folder 2**

"The effect of sources on horizons that may develop when plane gravitational waves collide," with Basilis C. Xanthopoulos, 1987, offprints, drafts, figures [2 of 2]

**Box 216**

**Folder 3**

Ellipsoidal Figures of Equilibrium, 1987 reprint – Darwin's Problem – Norman's Calculation and correspondence, 1984, undated

**Box 216**

**Folder 4**

Ellipsoidal Figures of Equilibrium, 1987 reprint – page proofs, correspondence, notes, copies of manuscripts, article, 1975, 1986, undated

**Box 216**

**Folder 5**

Ellipsoidal Figures of Equilibrium, 1987 reprint – drafts and notes, Darwin Ellipsoids and Roche limits (mostly copies), undated

**Box 216**

**Folder 6**

"Isaac Newton," text of lecture, 1987, typescript

**Box 216**

**Folder 7**

The Principia – The Intellectual Achievement that it is," 1987, typescripts

**Box 216**

**Folder 8**

"On colliding waves that develop time-like singularities – a new class of solutions of the Einstein-Maxwell equations," with Basilis C. Xanthopoulos, 1987, offprints, drafts

**Box 216**

**Folder 9**

"On the dispersion of cylindrical impulsive gravitational waves," with Valeria Ferrari, 1987, offprints, drafts, and correspondence

**Box 216**

**Folder 10**

“On Ramanujan,” 1987-1988, typescripts of remarks and copies of published version; copies of related writings by others and Ramanujan documents

**Box 216**

**Folder 11**

Radio broadcast on 40th anniversary of independence of India, 1987, typescript with handwritten additions

**Box 217**

**Folder 1**

“The Collected Papers of Albert Einstein,” review in American Scientist, 1988, copies of review and typescript

**Box 217**

**Folder 2**

“A Commentary on Dirac’s Views on “The Excellence of General Relativity,” 1988, reprint, typescript, and related clippings, reprints, and reviews

**Box 217**

**Folder 3**

Convocation address at Concordia University, 1988, typescript

**Box 217**

**Folder 4**

“Massless particles from a perfect fluid,” 1988, reprints, typescripts, copies of notes and writings by others

**Box 217**

**Folder 5**

“Newton and Einstein – the excellence of the theories of gravity – a study in contrasts,” 1988, typescript

**Box 217**

**Folder 6**

“Newton and Einstein – A Study in Contrasts,” Robert Oppenheimer Lecture, Institute for Advanced Study, 1988, typescript

**Box 217**

**Folder 7**

“On Introducing Gerhard Herzberg,” for Robert S. Mulliken Memorial Lecture, 1988 text of speech and program

**Box 217**

**Folder 8**

“On Weyl’s solution for space-times with two commuting Killing fields,” offprints, drafts

**Box 217**

**Folder 9**

“On Weyl’s solution for space-times with two commuting Killing fields,” 1988, proofs and correspondence with Basilis Xanthopoulos

**Box 217**

**Folder 10**

Cylindrical Gravitational Waves, reprints of articles by others, 1958-1985; letters from Mark J. Ablowitz, 1986

**Box 217**

**Folder 11**

Colliding Waves, reprints of articles by others, circa 1971-1984; letter from Valeria Ferrari, 1985

**Box 217**

**Folder 12**

“A perturbation analysis of the Bell-Szekeres space-time,” with Basilis C. Xanthopoulos, 1988, offprints and typescript

**Box 217**

**Folder 13**

“A perturbation analysis of the Bell-Szekeres space-time,” with Basilis C. Xanthopoulos, 1988, proof, sketch, and drafts

**Box 218**

**Folder 1**

“A perturbation analysis of the Bell-Szekeres space-time,” with Basilis C. Xanthopoulos, 1988, region II, drafts

**Box 218**

**Folder 2**

“A perturbation analysis of the Bell-Szekeres space-time,” with Basilis C. Xanthopoulos, 1988, proof, drafts

**Box 218**

**Folder 3**

“A perturbation analysis of the Bell-Szekeres space-time,” with Basilis C. Xanthopoulos, 1988, reprints of articles by others, notes, letter

**Box 218**

**Folder 4**

“To Victor Ambartsumian on his 80th Birthday,” 1988, typescript and offprints

**Box 218**

**Folder 5**

“Die Allgemeine Relativitätstheorie,” offprints, issue of Naturwissenschaftliche Rundschau, 1989

**Box 218**

**Folder 6**

“How One May Explore the Physical Content of the General Theory of Relativity,” 1989-1990, offprint, typescript, related paper

**Box 218**

**Folder 7**

“In Memory of Pandit Jawaharlal Nehru,” 1989, typescript

**Box 218**

**Folder 8**

“The Landau-Lifshitz Pseudo Tensor and the Energy-Conservation Theorem for Perturbed Space-Times,” with Valeria Ferrari, 1989, notes and drafts [1 of 2]

**Box 218**

**Folder 9**

“The Landau-Lifshitz Pseudo Tensor and the Energy-Conservation Theorem for Perturbed Space-Times,” with Valeria Ferrari, 1989, notes and drafts [2 of 2]

**Box 218**

**Folder 10**

“A one-to-one correspondence between the static Einstein-Maxwell and stationary Einstein-vacuum space-times,” 1989, offprints, draft, related papers, and correspondence, 1973-1987

**Box 218**

**Folder 11**

“The Perception of Beauty and the Pursuit of Science,” 1989, typescripts, Seferis lecture and American Academy of Arts and Sciences, text of published versions, and related articles and letters, 1939-1988 [1 of 2]

**Box 218**

**Folder 12**

“The Perception of Beauty and the Pursuit of Science,” 1989, typescripts, Seferis lecture and American Academy of Arts and Sciences, text of published versions, and related articles and letters, 1939-1988 [2 of 2]

**Box 218**

**Folder 13**

“Quest for an artistic pattern as a motivation in the pursuit of science,” 1989, handwritten (by Lalitha?) text

**Box 219**

**Folder 1**

“Science and Scientific Attitudes,” University of Roorkee convocation address, 1989-1992, booklet, reprints, typescript, issue of Nature, and French translation

**Box 219**

**Folder 2**

“Two black holes attached to strings,” with Basilis C. Xanthopoulos, 1989, offprints

**Box 219**

**Folder 3**

“The two-centre problem in general relativity – the scattering of radiation by two extreme Reissner-Nordström black-holes,” 1989, offprints and drafts

**Box 219**

**Folder 4**

“Axisymmetric Generalization of the Majumdar-Papapetron Solution” and “The Two-Centre problem in General Relativity,” 1988-1989, drafts and correspondence with Basilis Xanthopoulos

**Box 219**

**Folder 5**

“The Flux Integral for Axisymmetric perturbations of static space-times,” with Valeria Ferrari, 1990, offprints and typescripts

**Box 219**

**Folder 6**

“The Flux Integral for Axisymmetric perturbations of static space-times,” with Valeria Ferrari, 1990, drafts

**Box 219**

**Folder 7**



“The Flux Integral for Axisymmetric perturbations of static space-times,” with Valeria Ferrari, 1990, drafts

**Box 219**

**Folder 8**

Essay from “Riemann’s Collected Papers,” and “Subsequent Developments of Riemann’s ideas,” with N. Lebovitz, 1990, typescripts

**Box 219**

**Folder 9**

“The Story of an Observatory (The Fiftieth Anniversary of the Yerkes Observatory),” by Otto Struve, with a Foreword and Afterword by S. Chandrasekhar, 1990, typescripts, letter from editor, copy of original article from 1947, copy of note from Mary Struve from 1964

**Box 219**

**Folder 10**

“The Teukolsky-Starobinsky constant for arbitrary spin,” 1990, offprints, page proofs, drafts, and letter

**Box 220**

**Folder 1**

“Stability of the Assemblage of Black Holes” and “A New Class of Cylindrical Waves in the Einstein-Maxwell Theory,” circa 1990?, handwritten proofs

**Box 220**

**Folder 2**

Basilis C. Xanthopoulos and the Basilis C. Xanthopoulos Award for Proficiency in General Relativity, 1991, typescript

**Box 220**

**Folder 3**

Basilis C. Xanthopoulos obituary and letter to the editor of Nature, 1991

- SEE ALSO Correspondence Subseries, “Nature”

**Box 220**

**Folder 4**

Convocation address, Queen’s University, Kingston, Ontario, 1991, typescript

**Box 220**

**Folder 5**

“Daniel Chalonge and the Problem of the Abundance of Hydrogen,” opening address, first course of the International School of Astrophysics, 1991, offprints

**Box 220**

**Folder 6**

“Daniel Chalonge and the Problem of the Abundance of Hydrogen,” opening address, first course of the International School of Astrophysics, 1991-1992, illustrations, transparencies, drafts

**Box 220**

**Folder 7**

“The Einstein pseudo-tensor and the flux integral for perturbed static space-times,” with Valeria Ferrari, 1991, offprint, drafts, and related articles

**Box 220**

**Folder 8**

Kingston Colloquium, 1991, typescript; related articles, 1979-1990

**Box 220**

**Folder 9**

Russell Marker lectures on Newton's Principia, Penn State University, notes and excerpts from Principia, 1991

**Box 220**

**Folder 10**

Russell Marker lectures on Newton's Principia, Penn State University, transparencies, 1991

**Box 220**

**Folder 11**

"On N. David Mermin's Review of 'The Emperor's New Mind,' by Roger Penrose," 1991, clipping

**Box 220**

**Folder 12**

"On the Occasion of the Charles Greely Abbot Award by the American Solar Energy Society" and "Astrophysics," 1991, undated, typescripts

**Box 220**

**Folder 13**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, offprints, draft

**Box 220**

**Folder 14**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, drafts

**Box 221**

**Folder 1**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, drafts

**Box 221**

**Folder 2**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, correspondence and drafts, 1989-1990

**Box 221**

**Folder 3**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, correspondence and drafts, 1990

**Box 221**

**Folder 4**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, notes, figures, and transparencies

**Box 221**

**Folder 5**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, transparencies

**Box 221**

**Folder 6**

"On the non-radial oscillations of a star," with Valeria Ferrari, 1991, "incorrect copy," typescripts and drafts

**Box 221**

**Folder 7**

“Newtonian limit, earlier attempts,” circa 1991-1995, drafts, proofs and equations [1 of 3; appears to be part of “Non-radial oscillations of a star” series]

**Box 221**

**Folder 8**

“Newtonian limit, earlier attempts,” circa 1991-1995, drafts, proofs and equations [2 of 3]

**Box 221**

**Folder 9**

“Newtonian limit, earlier attempts,” circa 1991-1995, drafts, proofs and equations [3 of 3]

**Box 221**

**Folder 10**

“On the non-radial oscillations of slowly rotating stars induced by the Lense-Thirring effect,” with Valeria Ferrari, 1991, offprints, drafts; correspondence with Valeria Ferrari, John Friedman, Bernard Schutz, and Kip Thorne, 1990-1991

**Box 222**

**Folder 1**

“On the non-radial oscillations of slowly rotating stars induced by the Lense-Thirring effect,” with Valeria Ferrari, 1991, drafts

**Box 222**

**Folder 2**

“Non-radial Oscillations of a Spherical Star,” I and II, 1972?, copies of handwritten drafts

**Box 222**

**Folder 3**

“On the non-radial oscillations of a star. II. Further amplifications,” with Valeria Ferrari and Roland Winston, 1991, offprints, drafts, and correspondence

**Box 222**

**Folder 4**

“On the non-radial oscillations of a star. III. A reconsideration of the axial modes,” with Valeria Ferrari, 1991, offprints, drafts, correspondence, related article

- SEE ALSO chart in Oversize Subseries

**Box 222**

**Folder 5**

“The Quasi-normal axial modes of oscillations,” circa 1991?, notes, diagrams, copies of articles by others from 1936-1997

**Box 222**

**Folder 6**

“Science in Pre- and Post-Independent India,” 1991, typescript of lecture and related material on science and India

**Box 222**

**Folder 7**

“In Remembrance of Hans Zeisel,” 1992, typescripts, clipping, memorial celebration program, and notes from Hans and Eva Zeisel and families

**Box 222**

**Folder 8**

“On the non-radial oscillations of a star. IV. An application of the theory of Regge poles,” with Valeria Ferrari, 1992, offprint and draft

**Box 222**

**Folder 9**

“On the non-radial oscillations of a star. IV. An application of the theory of Regge poles,” with Valeria Ferrari, 1992, drafts

**Box 222**

**Folder 10**

“On the non-radial oscillations of a star. IV. An application of the theory of Regge poles,” with Valeria Ferrari, 1992, figures

**Box 223**

**Folder 1**

The non-radial oscillations of stars treated by the method of Regge poles (axial oscillations), circa 1992, proofs/equations and notes

**Box 223**

**Folder 2**

“On the Occasion of the conferment of an honorary degree by the University of Wisconsin on Dr. William W. Morgan,” 1992, typescript of address

**Box 223**

**Folder 3**

Preface to Royal Society Transactions theme issue on classical general relativity, 1992, typescript, drafts, and related material

**Box 223**

**Folder 4**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” address delivered at the dedication ceremonies of the Inter-University Centre for Astronomy and Astrophysics, 1992, typescript with handwritten equations, color transparencies, black and white images

**Box 223**

**Folder 5**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, color transparencies and illustrations

**Box 223**

**Folder 6**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, typescripts, drafts, and transparencies

**Box 223**

**Folder 7**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, incomplete typescript, handwritten draft, and copies

**Box 223**

**Folder 8**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, figures, illustrations, and equations, duplicates

**Box 223**

**Folder 9**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, transparencies, handwritten notes, and copies

**Box 223**

**Folder 10**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, illustrated booklets

**Box 223**

**Folder 11**

“The Series Paintings of Claude Monet and the Landscape of General Relativity,” 1992, copies of writings by others and notes

**Box 223**

**Folder 12**

“William Houlder Zachariasen – in Memoriam,” 1992, typescript

**Box 223**

**Folder 13**

Foreword to issue of Indian Journal of Physics dedicated to Meghnad Saha, 1993, reprints; copies of letter from M.N. Saha to Chandrasekhar from 1929, images, and biography of Saha

**Box 223**

**Folder 14**

“On spherical free gravitational waves,” with Valeria Ferrari, 1993, offprint and drafts

**Box 224**

**Folder 1**

Post-Minkowskian work, notes, 1993, undated

**Box 224**

**Folder 2**

Journal of Astrophysics and Astronomy Diamond Jubilee, reprints of four historic papers by S. Chandrasekhar, 1994

**Box 224**

**Folder 3**

“Newton and Michelangelo,” text of lecture, 1994, typescripts, reprint, images

**Box 224**

**Folder 4**

“Newton and Michelangelo,” typed and handwritten drafts, copies of other works, 1994

**Box 224**

**Folder 5**

Newton and Michelangelo art transparencies, undated

**Box 224**

**Folder 6**

“On Reading Newton’s Principia at age past eighty,” 1994, typescript, copy of article, reprints, and letter, 1993-1994

**Box 224**

**Folder 7**

“Reminiscences and Discoveries on Ramanujan’s Bust,” 1994-1995, typescripts, reprints, handwritten notes, issue of Notes and Records of the Royal Society

**Box 224**

**Folder 8**

“How I Came to be Writing my Book on the Principia,” circa 1994-1995, typescripts

**Box 224**

**Folder 9**

Ambartsumian, Victor, foreword to selected papers, 1995, typescripts, handwritten draft, copies of emails

**Box 224**

**Folder 10**

“The flux-integral of Equations (48) – (51) of Non-radial Oscillations,” drafts, figures, and computer print-outs, circa 1995?

**Box 224**

**Folder 11**

“At Milton Singer’s Memorial Service,” 1995, program and typescript

**Box 224**

**Folder 12**

“On the non-radial oscillations of a star. V. A fully relativistic treatment of a Newtonian star,” with Valeria Ferrari, 1995, typescripts, page proofs with handwritten corrections; “The Analogue of Weyl’s solution in Space-times with two Space-like killing vectors,” handwritten proofs, undated

**Box 224**

**Folder 13**

“On the non-radial oscillations of a star. V. A fully relativistic treatment of a Newtonian star,” with Valeria Ferrari, 1995, typescript, page proofs with handwritten corrections and related correspondence

**Box 224**

**Folder 14**

“On the non-radial oscillations of a star. V. A fully relativistic treatment of a Newtonian star,” with Valeria Ferrari, 1995, notes

**Box 224**

**Folder 15**

“On the non-radial oscillations of a star. V. A fully relativistic treatment of a Newtonian star,” with Valeria Ferrari, 1995, edited drafts and note to Dr. Christensen-Dalsgaard

**Box 225**

**Folder 1**

“Is there a Newtonian limit of the General Theory of Relativity?,” including “On the non-radial oscillations of a star. V.,” 1995, typescripts, handwritten drafts

**Box 225**

**Folder 2**

“Is there a Newtonian limit of the General Theory of Relativity?,” papers by other scholars and letter from Valeria Ferrari, 1963-1992, undated

**Box 225**

**Folder 3**

“Is there a Newtonian limit of the General Theory of Relativity?,” including “Non-radial oscillations of a Newtonian Star as a problem in the scattering of gravitational waves” and “Newtonian Limit,” handwritten proofs, undated

**Box 225**

**Folder 4**

“Is there a Newtonian limit of the General Theory of Relativity?,” non-radial oscillations, including Valeria Ferrari correspondence regarding calculations, 1994-1995

**Box 225**

**Folder 5**

“Is there a Newtonian limit of the General Theory of Relativity?,” excerpts on Newton and transparencies, undated

**Box 225**

**Folder 6**

“On the non-radial oscillations of a star. VI.,” 1995, draft, notes, letter from Bob Wald to Valeria Ferrari

**Box 225**

**Folder 7**

“Old notes on damping,” – typed and handwritten drafts, undated

**Box 225**

**Folder 8**

“Damping Paper VI” – drafts, correspondence, and related papers, 1958-1995

**Box 225**

**Folder 9**

Newton’s Principia for the Common Reader, 1995 – acknowledgements, prologue, and chapter 1 – typescripts with handwritten edits, 1992-1994

**Box 225**

**Folder 10**

Newton’s Principia for the Common Reader, 1995 – prologue, chapters 1-2 – typescripts, copies of handwritten drafts, copies of other texts

**Box 225**

**Folder 11**

Newton’s Principia for the Common Reader, 1995 – chapters 3-4 – typescripts and copies

**Box 225**

**Folder 12**

Newton’s Principia for the Common Reader, 1995 – chapters 5-6 – typescripts and handwritten drafts [1 of 2]

**Box 226**

**Folder 1**

Newton’s Principia for the Common Reader, 1995 – chapters 5-6 – typescripts and handwritten drafts [2 of 2]

**Box 226**

**Folder 2**

Newton’s Principia for the Common Reader, 1995 – chapter 6 – typescripts and handwritten drafts, copies of other texts, correspondence with and papers by Tristan Needham, 1991-1994

**Box 226**

**Folder 3**

Newton’s Principia for the Common Reader, 1995 – chapter 7 – texts by V.I. Arnold and others, with note from Dick [Askey?], 1985-1989, undated

**Box 226**

**Folder 4**

Newton’s Principia for the Common Reader, 1995 – chapter 7 – typescript, handwritten notes, copies of other texts

**Box 226**

**Folder 5**

Newton's Principia for the Common Reader, 1995 – chapter 8 – typescript, handwritten notes and diagrams

**Box 226**

**Folder 6**

Newton's Principia for the Common Reader, 1995 – chapter 9 – typescript, copies of other texts, 1 handwritten notes and diagrams

**Box 226**

**Folder 7**

Newton's Principia for the Common Reader, 1995 – chapter 10-11 – typescripts and handwritten drafts/notes

**Box 226**

**Folder 8**

Newton's Principia for the Common Reader, 1995 – chapter 12 – typescripts and handwritten drafts/notes/diagrams, including some copies

**Box 226**

**Folder 9**

Newton's Principia for the Common Reader, 1995 – chapter 13 – typescripts and handwritten drafts

**Box 227**

**Folder 1**

Newton's Principia for the Common Reader, 1995 – chapter 14 – typescripts and handwritten drafts/notes/diagrams

**Box 227**

**Folder 2**

Newton's Principia for the Common Reader, 1995 – chapter 15 – typescripts and hand drawn diagrams

**Box 227**

**Folder 3**

Newton's Principia for the Common Reader, 1995 – chapter 16 – typescript, handwritten notes/drafts, copies of other texts

**Box 227**

**Folder 4**

Newton's Principia for the Common Reader, 1995 – chapter 17 – typescript, handwritten notes/drafts, copies of other texts

**Box 227**

**Folder 5**

Newton's Principia for the Common Reader, 1995 – chapter 18 and introduction to Book 3 – typescripts with handwritten notes

**Box 227**

**Folder 6**

Newton's Principia for the Common Reader, 1995 – chapter 19?- 20 – typescripts, handwritten notes, copies of other texts

**Box 227**

**Folder 7**



Newton's Principia for the Common Reader, 1995 – chapter 20 – typescripts, handwritten notes/drafts

**Box 227**

**Folder 8**

Newton's Principia for the Common Reader, 1995 – chapter 21 – typescripts, diagrams, handwritten notes/drafts, copies of other texts

**Box 227**

**Folder 9**

Newton's Principia for the Common Reader, 1995 – chapter 22 – typescripts, handwritten notes/drafts

**Box 228**

**Folder 1**

Newton's Principia for the Common Reader, 1995 – chapter 22 [and/or 2 and 4?] – copies of other texts and handwritten notes/diagrams [1 of 3]

**Box 228**

**Folder 2**

Newton's Principia for the Common Reader, 1995 – chapter 22 [and/or 2 and 4?] – copies of other texts and handwritten notes/diagrams [2 of 3]

**Box 228**

**Folder 3**

Newton's Principia for the Common Reader, 1995 – chapter 22 [and/or 2 and 4?] – copies of other texts and handwritten notes/diagrams [3 of 3]

**Box 228**

**Folder 4**

Newton's Principia for the Common Reader, 1995 – chapter 23 – typescripts, handwritten notes/drafts, copies of other texts

**Box 228**

**Folder 5**

Newton's Principia for the Common Reader, 1995 – chapter 24 – handwritten notes, copies of other texts

**Box 228**

**Folder 6**

Newton's Principia for the Common Reader, 1995 – chapter 24 – typescripts, copies of other texts, diagrams

**Box 228**

**Folder 7**

Newton's Principia for the Common Reader, 1995 – chapter 25 – typescript, handwritten notes, copies of other texts

**Box 229**

**Folder 1**

Newton's Principia for the Common Reader, 1995 – chapter 26 – typescript, handwritten notes, copies of other texts

**Box 229**

**Folder 2**

Newton's Principia for the Common Reader, 1995 – chapter 27 – typescript, handwritten notes, copies of other texts

**Box 229**

**Folder 3**

Newton's Principia for the Common Reader, 1995 – chapter 28 – typescript, handwritten notes, copies of other texts

**Box 229**

**Folder 4**

Newton's Principia for the Common Reader, 1995 – copy of cover

**Box 229**

**Folder 5**

Newton's Principia for the Common Reader, 1995, revised page proofs [1 of 3]

**Box 229**

**Folder 6**

Newton's Principia for the Common Reader, 1995, revised page proofs [2 of 3]

**Box 229**

**Folder 7**

Newton's Principia for the Common Reader, 1995, revised page proofs [3 of 3]

**Box 229**

**Folder 8**

Newton's Principia for the Common Reader, 1995, edited proofs and miscellaneous drafts and notes

**Box 229**

**Folder 9**

Newton's Principia – miscellaneous notes and research materials – copies of texts, handwritten notes, letter from C.W. Francis Everitt, 1991, undated

**Box 229**

**Folder 10**

Newton's Principia – handwritten notes, undated

**Box 229**

**Folder 11**

Newton's Principia – handwritten notes, "Scholim pp. 6-12"

**Box 229**

**Folder 12**

Newton's Principia – "Lecture 1" – handwritten notes / drafts, copies of other texts, undated

**Box 229**

**Folder 13**

Newton's Principia – "Lecture 2" – handwritten notes / drafts / diagrams, copies of texts, undated

**Box 230**

**Folder 1**

Newton's Principia, transparencies, including text and notes – volume 1, introduction and sections I-V, undated

**Box 230**

**Folder 2**

Newton's Principia, transparencies, including text and notes – volume II, sections VI, VII, IX, undated

**Box 230**

**Folder 3**

Newton's Principia, transparencies, including text and notes – volume III, sections VII, XI-XIV; text with handwritten notes, undated

**Box 230**

**Folder 4**

Newton's Principia, transparencies, including text and notes – Volume IV, "Rules of Reasoning in Philosophy," propositions I-LXIX, undated [1 of 2]

**Box 230**

**Folder 5**

Newton's Principia, transparencies, including text and notes – Volume IV, "Rules of Reasoning in Philosophy," propositions I-LXIX, undated [2 of 2]

**Box 230**

**Folder 6**

Newton's Principia, transparencies, including text and notes, undated

**Box 230**

**Folder 7**

Newton's Principia, transparencies – "Two Propositions from the Principia," Mathematics Colloquium, 1992

**Box 230**

**Folder 8**

Newton's Principia – propositions and theorems (excerpts), including transparencies, undated

**Box 230**

**Folder 9**

Newton's Principia, transparencies, including text and notes – "Newton's formulation of the law of gravitation II," undated

**Box 230**

**Folder 10**

Newton's Principia, transparencies, including text and notes – "Rules of Reasoning in Philosophy," undated

**Box 230**

**Folder 11**

Newton's Principia, transparencies, including text and notes – "A Fully Relativistic Treatment of the Oscillations of a Newtonian Star," undated

**Box 230**

**Folder 12**

Newton's Principia, transparencies – text, diagrams, notes, undated [1 of 2]

**Box 230**

**Folder 13**

Newton's Principia, transparencies – text, diagrams, notes, undated [2 of 2]

**Box 231**

**Folder 1**

Newton's Principia, transparencies, copies of text and handwritten notes – American Mathematical Society, undated

**Box 231**

**Folder 2**

Selected Papers, Volume VII, 1997 – copies of articles and Lalitha's notes, 1963-1994

**Box 231****Folder 3**

Notebook of handwritten papers, undated [1 of 5]

- “The Teukolsky-Starobinsky constant for arbitrary spin,” 1990
- “On the non-radial oscillations of a star,” 1991
- “The flux integral for axisymmetric perturbations of static space-times,” 1990

**Box 231****Folder 4**

Notebook of handwritten papers, undated [2 of 5]

- “The Landau-Lifshitz pseudo-tensor and the energy conservation theorem for perturbed space-times,” 1989 (withdrawn)
- “Two black holes attached to strings,” 1989
- “A one-to-one correspondence between the static Einstein-Maxwell and stationary Einstein-vacuum space-times,” 1988
- “The two-centre problem in general relativity – The Scattering of radiation by two extreme Reissner-Nordstrom black-holes, 1989

**Box 231****Folder 5**

Notebook of handwritten papers, undated [3 of 5]

- “A perturbation analysis of the Bell-Szekeres space-time,” 1988
- “On Weyl's solution for space-times with two commuting Killing fields,” 1988

**Box 231****Folder 6**

Notebook of handwritten papers, undated [4 of 5]

- “The effect of sources on horizons that may develop when plane gravitational waves collide,” 1987
- Foreword, Truth and Beauty – Aesthetics and Motivations in Science, 1986
- “On the dispersion of cylindrical impulsive gravitational waves,” 1987
- “The Aesthetic Base of the General Theory of Relativity,” 1986

**Box 232****Folder 1**

Notebook of handwritten papers, undated [5 of 5]

- “On colliding waves that develop time-like singularities – a new class of solutions of the Einstein-Maxwell equations,” 1987

**Box 232****Folder 2**

“Astrophysics,” encyclopedia article?, undated (after 1983)

**Box 232****Folder 3**

“The Bhagavad Gita and Nuclear Policy,” typescripts of comments, undated

**Box 232****Folder 4**

“Divergences theorem from Landon complex,” handwritten proofs, undated

**Box 232**

**Folder 5**

“Ernst equation, miscellaneous,” proofs, untitled, with Valeria, undated

**Box 232**

**Folder 6**

“Famous men encounters, notes,” notes, clippings, and copies of texts and correspondence on Eddington, Ramanujan, Rutherford, Dirac, Einstein, Milne, and others, undated

**Box 232**

**Folder 7**

General relativity and black holes (seminar?), handwritten notes and copies of others’ notes, undated

**Box 232**

**Folder 8**

Gravitational attraction and Eddington, handwritten notes, undated

**Box 232**

**Folder 9**

“Historical notes on some astrophysical problems,” text of lecture, typescript, undated

**Box 232**

**Folder 10**

“The Internal Constitution of the Stars,” Foreword, text and copies of pages from book, undated (after 1983)

**Box 232**

**Folder 11**

“Is there a time-dependent generalization of the Majumdar-Papapetron solution,” handwritten proofs, undated

**Box 232**

**Folder 12**

Kepler, Eddington, Heisenberg, and others – handwritten text, undated

**Box 232**

**Folder 13**

“On Kerr Perturbations in Newman-Penrose Formalism,” copies of handwritten proof, handwritten notes/proofs/equations, undated

**Box 232**

**Folder 14**

Mathematics notes, undated

**Box 232**

**Folder 15**

Newton and Keynes, short paper, undated

**Box 232**

**Folder 16**

Notes and proofs, handwritten, undated [circa 1930s-1940s?] [1 of 2]

- Steam engine theory, thermodynamics, “On the Derivation of Planck’s law from Einstein’s equations, by A.S. Eddington,” related topics

**Box 232**

**Folder 17**

Notes and proofs, handwritten, undated [circa 1930s-1940s?] [2 of 2]

- Expansion of crystals and other substances, dilation of liquids, specific heat of gases/solids/liquids, other topics; notebook not in English

**Box 232**

**Folder 18**

Notes, miscellaneous and unlabeled, including black holes, quantum statistics, directions from Harrisburg to State College, Keith Halden, undated, 1963?

**Box 232**

**Folder 19**

Notes, handwritten – equations, suggestions for edits, undated

**Box 232**

**Folder 20**

Polar perturbations, notes, handwritten and copies, undated

**Box 233**

**Folder 1-4**

Bound material and notebooks

- Articles, 1950-1961, including articles inscribed by Donna Elbert to Chandra
- “Articles and Addresses,” 1972-1982
- Lecture notes, Theory of Solitons, March-April 1984
- Lecture notes, Theory of Solitons, May 1984

**Box 234**

**Folder 1**

Research data, unidentified, computer print-outs, undated [1 of 3]

- SEE ALSO folder in Oversize Subseries

**Box 234**

**Folder 2**

Research data, unidentified, computer print-outs, undated [2 of 3]

**Box 234**

**Folder 3**

Research data, unidentified, computer print-outs, undated [3 of 3]

**Box 234**

**Folder 4**

Vivekunda Vedanta Society, text of talk, typescript, undated

**Box 234**

**Folder 5**

Black holes, colliding stars, and other topics - diagrams, tables, equations, Alice in Wonderland image, Mahabharatta quotation

**Box 234**

**Folder 6**

Black holes - illustrations, including transparencies, and three related papers, 1981-1988, undated

**Box 234**

**Folder 7**

Cylindrical waves, singularities – diagrams, charts, and figures, including transparencies, undated [1 of 3]

**Box 234**

**Folder 8**

Cylindrical waves, singularities – diagrams, charts, and figures, including transparencies, undated [2 of 3]

**Box 234**

**Folder 9**

Cylindrical waves, singularities– diagrams, charts, and figures, including transparencies, undated [3 of 3]

**Box 234**

**Folder 10**

Diagrams, figures, and equations, including stars and black holes, some transparencies, undated [1 of 2]

**Box 234**

**Folder 11**

Diagrams, figures, and equations, including stars and black holes, some transparencies, undated [2 of 2]

**Box 234**

**Folder 12**

“Diagrams for overhead projector” (handwritten equations and figures), undated

**Box 234**

**Folder 13**

“Diagrams for overhead projector” (transparencies), undated

**Box 235**

**Folder 1**

Ellipsoidal figures, illustrations – transparencies, undated

**Box 235**

**Folder 2**

Miscellaneous illustrations, transparencies, figures, and equations, undated

**Box 235**

**Folder 3**

Plate I, illustrating the darkening of the Sun towards the limb, undated

**Box 235**

**Folder 4**

Two-centre problem – the Landau-Lifshitz pseudo-tensor – transparencies, undated

**Box 235**

**Folder 5**

Two-centre problem – computer print-outs of diagrams with handwritten notes, undated

**Box 235**

**Folder 6**

Two-centre problem – diagrams, undated

**Box 235**

**Folder 7**

Dusk jackets (proposed) for select publications, 1983-1995

**Subseries 4: Writings about Chandrasekhar**

**Box 235**

**Folder 8**

Balakrishnan, Purasu, "Subrahmanya Chandrasekhar, F.R.S.," in *Triveni – A Journal of the Indian Renaissance*, 1945

**Box 235**

**Folder 9**

Bates, Robin, "Supernova!," 1988

**Box 235**

**Folder 10**

Edge, David O. and Michael J. Mulkey, excerpt with Chandrasekhar quote from *Astronomy Transformed – the Emergence of Radio Astronomy in Britain*, 1976

**Box 235**

**Folder 11**

Garfield, Eugene, "Current Comments," – "The 100 Most Cited Papers from the Reviews of Modern Physics," 1988

**Box 235**

**Folder 12**

Glanz, James, "Visions of Black Holes," in *Science*, 1997

**Box 235**

**Folder 13**

Gribbin, John, review, "General Astrophysics with elements of geophysics," 1973

**Box 235**

**Folder 14**

Home, Dipankar, and Andrew Robinson, "Einstein and Tagore – Man, Nature, and Mysticism," first page only, 1995

**Box 235**

**Folder 15**

Horgan, John, "Confronting the Final Limit," profile of Chandrasekhar in *Scientific American*, and reprint in *Current Science*; "Man of Uncompromising Standards," by S.R., and reprints, 1994

**Box 235**

**Folder 16**

Israel, Werner, "Imploding Stars, Shifting Continents, and the Inconstancy of Matter," 1996

**Box 235**

**Folder 17**

Mestel, Leon, obituary of Chandrasekhar in *Trinity College Cambridge Annual Record*, 1995

**Box 235**

**Folder 18**

Osterbrock, Donald E., "Founded in 1895 by George E. Hale and James E. Keeler – the *Astrophysical Journal* Centennial," 1994

**Box 235**

**Folder 19**

Parker, Gene, biographical memoir and note to Lalitha, 1997

**Box 235**

**Folder 20**

Rahaman, Vashanti, "Chandrasekhar" [children's story] and letter, 1994



**Box 235**

**Folder 21**

Ranganathan, A., "Professor S. Chandrasekhar – Some Aesthetic Considerations," "The Song of the Star," "Biography as a Prism as Science," "The Transmutation from one form to another – the interaction of colour and the elements – Some Scientific and Aesthetic Considerations," and "Professor S. Chandrasekhar, F.R.S., N.L., Star Scientist – his life and work," 1984-1993, undated

**Box 235**

**Folder 22**

Rao, K. Srinivasa, "Dr. S. Chandrasekhar – the Astrophysicist," 1985

**Box 235**

**Folder 23**

Sykes, John, "On the Imperturbability of Elevator Operators. LVII," spoof article, 1957

**Box 235**

**Folder 24**

Taylor, R.J., "Subrahmanyan Chandrasekhar," from Biographical Memoirs of Fellows of the Royal Society," and letter to Lalitha, 1996-1997

**Box 236**

**Folder 1**

Tierney, John, "Quest for Order," in Science, 1982

**Box 236**

**Folder 2**

Van Beyer, Hans Christian, "The Aesthetic Equation," 1990

**Box 236**

**Folder 3**

Vandervoort, Peter, "S. Chandrasekhar – Incidental Lessons," and letter to Lalitha, 1997

**Box 236**

**Folder 4**

Venkataraman, G., "Chandrasekhar and his Limit," book, 1992

**Box 236**

**Folder 5**

Vishveshwara, CV, "Leaves from an unwritten diary," 1999

**Box 236**

**Folder 6**

Wali, Kameshwar C., "Chandrasekhar vs. Eddington – an unanticipated confrontation," 1982

**Box 236**

**Folder 7**

Wali, Kameshwar C., "S. Chandrasekhar's contributions to General Relativity," 1991

**Box 236**

**Folder 8**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 1-7, 1977 [Chandrasekhar]

**Box 236**

**Folder 9**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 8-15, 1977 [Chandrasekhar]

**Box 236**

**Folder 10**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 16-25, 1977-1978  
[Chandrasekhar, Lalitha, R.G. Sachs]

**Box 236****Folder 11**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 26-40, 1978 [Chandrasekhar,  
T.D. Lee, F.J. Dyson, M. Schwarzschild]

**Box 236****Folder 12**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 41-50, 1978 [Robert Geroch,  
P. Vandervoot, Chandrasekhar]

**Box 236****Folder 13**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 51-62, 1979-1980  
[Chandrasekhar, W. Press, Balakrishnan, Chandra's sisters and niece]

**Box 237****Folder 1**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 63-71, 1980 [Vidya Sankar,  
Prem, Chandrasekhar]

**Box 237****Folder 2**

Wali, Kameshwar C., Chandra – interview transcripts, tapes 72-77, 1980 [Chandrasekhar,  
Alan Lightman, Marvin Goldberger and wife, Kip Thorne]

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Wali, Kameshwar C., Chandra – interview transcripts, tapes 78-83, 1980 [Margaret  
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Wali, Kameshwar C., Chandra – interview transcripts, tapes 117-126, 1983 [Mestel, W.H. McCrea, Van de Hulst, Karen Challonge]

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Wali, Kameshwar C., Chandra – interview transcripts, tapes 129-139, 1984  
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Wali, Kameshwar C., Chandra – interview transcripts, tapes 140-148, 1985 [Edward Levi, Chandrasekhar]

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**Folder 5**

Wali, Kameshwar C., Chandra – correspondence regarding book and reviews, including  
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Current Science articles on Chandrasekhar, copies, 1983-1996

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Obituaries – newspaper clippings, 1995

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Biographical – writings about Ramanujan by Berndt, and copy of Ramanujan quarterly report, 1983-1989, undated

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Biographical – writings about Ramanujan, “Ramanujan (A Short Biography),” by Singh, text, 1986

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Biographical – writings about Ramanujan, by Rankin, 1966-1989

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Biographical – writings about Ramanujan, book about Ramanujan, 1985, inscribed “To (Dr.) Mr. and Mrs. Chandrasekhar best wishes from Janakiammal”

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Biographical – writings about Ramanujan, copies of clippings from “The Statesman,” 1919-1921, 1994; reprint of article from 1920 with note, 1993

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Biographical – writings about Ramanathan, Ramaswamy, Reissner, Russell, Rutherford, Sakharov, Schild, Segre, Smoluchowski, Stomgren, Stone, Sutherland, Tamm, Urey, Weil, 1965-1994

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Photographs – Rajam, Chandra, Vishwam, and Bala, 1913 [Chandrasekhar, age 3, and siblings]

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Photographs – Sitalakshmi (Divan Bahadur) Balakrishnan, 1914, undated [mother]

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Photographs – Chandrasekhar and Lalitha, snapshots – at blackboard with two others and sitting outside, circa 1930s

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Photographs – Russia – Pulkovo Observatory – Viktor A. Ambartsumian, Nikolai Kozyrev, Chandrasekhar, Evengii Ya Perepelkin, Dmitri I. Eropkin, 1934

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Photographs – Russia – Pulkovo Observatory – Viktor A. Ambartsumian, Nikolai Kozyrev, Chandrasekhar, Evengii Ya Perepelkin, Dmitri I. Eropkin, in/next to tree, 1934

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Photographs – Russia – Pulkovo Observatory – Inna N. Leman-Balanovskaya, Evengii Ya. Perepelkin, Chandrasekhar, Boris P. Gerasimovich, O.A. Mel'nikov, and Innokentii A. Balanovskii, 1934

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Photograph – conference on White Dwarfs and Supernovae, Paris, 1939

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Photograph – Chandrasekhar with B. Jessenoff, B. Kukarkin, S. Arbor, and “calculators,” circa 1930s

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Photographs and negatives – Chandrasekhar, Lalitha, and others, mostly by lake, Williams Bay?, circa 1930s

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Photographs – Lalitha and others, Williams Bay, 1944-1946

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Photographs – Yerkes eclipse expedition, 1945

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Photographs and negatives – “Perkins Ohs – Kienen,” [?] circa 1946-1947

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“Photographs from black album” – Chandrasekhar, Lalitha, and others, mostly in Williams Bay, 1947 [some of the unsorted negatives may go with these images]

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Photographs and negatives, including Herzbergs leaving and others, 1947-1948

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Photographs, negatives, and album pages – Lalitha, Chandrasekhar, and others, including at Yerkes, AAUW convention, Ottawa, 1953-1957 [2 of 2]

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Photographs and negatives – Oshkosh, Rajamani, Haverford, Princeton, Hyde Park (New York), car, and others, 1954

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Photographs and negatives – Chandrasekhar and Lalitha with children of Adriaan Blaauw at Chicago Zoo, circa 1954

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Photographs – family – Savitri and children? Chandravillas?, 1954, undated

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Photographs and negatives – Minneapolis, Ada, 1955

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Photographs – Savitri's visit and western trip – mostly landscapes, including Grand Canyon, Black Hills, Mount Rushmore, and Badlands, 1957

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**Folder 39**

Photographs – Savitri's visit and western trip – mostly landscapes, Yellowstone/Sylvan Pass [including Chandrasekhar and Lalitha with bear], Shoestring Canyon, Buffalo Bill Dam, Bryce, Canyon du Chelly, 1957

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Photographs – Savitri's visit and western trip – Yerkes, Lake Geneva, home, boat ride, picnic, last day; Salt Lake City; Los Alamos, 1957

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**Folder 6**

Photograph – large group, including Chandrasekhar and Lalitha, Ohio State, 1957?

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**Folder 10**

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Photograph – Chandrasekhar, at Yerkes Observatory?, 1959

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Photographs – Chandrasekhar and others, including Collata, 1959-1963

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**Folder 13**

Photographs – family photographs, including Chandrasekhar, his brothers, sisters, and father, and Lalitha, circa 1950s?

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Photograph – unidentified older man [Chandrasekhar's father?], 1960

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Photographs – with Indira Gandhi and Zakir Husain, 1968

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Photograph – with group at Laboratory for Astrophysics and Space Research, Fermi Institute, 1970

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Photograph – Wong baby, 1971

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Photographs – with Astrophysical Journal issues and in office, 1971, 1975

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Photographic slides – travelling, 1972

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Photographs – Warsaw, with Zeldrite and Novikov, 1973

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Photographs – family – Vidya, Shankar, Shant, Ramnath, and children, 1973

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Photographs – visit with [Biz Gomez?], 1974

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Photographs and negatives – Poland, Trautman's summer home, 1975

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Photographs – Varenna, including large group image and Lalitha and Professor H. Sato, and Bellagio sul Lago di Como, 1975

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Photographs – Chandra Symposium, including Stephen Hawking, 1975?

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Photographs and negatives – Cambridge, Lake District, and Santa Barbara, 1976

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Photographs – Lake District, older years, 1976?

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Photographs – reception, with King of Sweden, John Hope Franklin, and others, 1976

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Photographs – Santa Barbara?, circa 1978

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Photographs – at Henry Moore nuclear energy statue with Beilok; Montreal, 1979

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Photographs – with Eleanor Milne Maddeuex, 1979

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Photograph – double rainbow at Newton’s birth place, 1979

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Photograph – Harvard honorary degree, 1979

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Item 1: Negatives – Visvam’s visit at 4800, 1967

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Item 5: Negatives – Seattle – zoo at Rose garden, arboretum, Japanese tea garden, space needle, Pacific Science Con., monorail, 1968 [1 pf 2]

**Box 259**

Item 6: Negatives – Seattle – zoo at Rose garden, arboretum, Japanese tea garden, space needle, Pacific Science Con., monorail, 1968 [1 pf 2]

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Item 1: Negatives – O’Hare and trip to Seattle, 1968

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Item 2: Negatives – trip to Italy, 1969

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Item 3: Negatives – Sekhar, September 21, 1970

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Item 5: Negatives – September 21, 1970

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**Folder 1**

Photographs and negatives – Cape Cod, sailing ships, Basilis Xanthopoulos, 1980

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Photographs and negatives – Cape Cod, 1980

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**Folder 3**

Photographs and negatives – Bariloche, Argentina, Poland, and others?, 1980

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**Folder 4**

Photographs – portraits, circa 1980?, 1985

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Photographs – with Michael Lebowitz, 1981

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Photograph – with R.K. Narayan and others, 1981

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Note regarding photographs, sent from Saudi Arabia, signature illegible, 1981

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Photograph – “Peter, Sue, Maggie, Andy, and Benjamin announce the arrival of Emily Fiona Noemi,” 1982

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Photographs – Bangkok, 1982

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Photographs and negatives – Turkey?, circa 1982 [1 of 2]

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Photographs and negatives – Turkey?, circa 1982 [2 of 2]

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Photographs and negatives – including Turkey?, 1982

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Photographs and negatives – travels, 1982

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Photographs and negatives – travels, 1982

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Photographs and negatives – travels, 1982

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Photographs – lecturing, Bangalore, 1982

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Photographs – Delhi, Ahmedabal, 1982

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Photographs – India?, with Bimla Buti and others, 1982?

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Photograph – Delhi, 1982

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Photographs – at various functions, including with Kameshwar Wali?, 1982-1986

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Photographs – Michelson-Morley Award, Case Western, 1983

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Photograph – receiving Nobel Prize, 1983

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Photograph – Lalitha with King of Sweden, 1983

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Photographs – Bob and Sylvia Moses, “Moses Greenfield tribe,” 1983

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Photographs – portraits, Lalitha and Chandrasekhar, 1983

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Photograph – unidentified man and woman, 1983

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Photographs – wedding, Cesco, 1983

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Photographs – with “Agnes H.,” 1983; note from Agnes Herzberg, 1995

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Photographs – Japan trip – Michiko, 1983

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Photographs – Japan trip, 1983

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Photographs – Japan trip, 1983

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Photographs and negatives – travel, 1983

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Photographs – Argentina scenes, 1983

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Photographs – Argentina – lakes, woods, Lalitha, 1983

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Photographs and negatives – Argentina, 1983

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Photographs and negatives – Argentina, and others?, 1983

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Photographs and negatives – “my Croton” [apartment] and desert/mountain scenery, 1983

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Photographs and negatives – travels, with others, circa 1983

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Photograph – at blackboard, caption in Greek?, after 1983

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Photographs and negatives – Valeria Ferrari, apartment, Askey, Ramanujan bust, and Savitri/family visit, 1984

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Photographs – Savitri/family visit – including apartment, campus, and office, 1984?

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Photographs and negatives – Mrs. Ramanujan, bust, outside Art Institute with Savitri and family, 1984

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Photographs – with Mrs. Ramanujan, 1984

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Photographs – with V.D. Heuver[?], Bangalore, 1984

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Photographs – at VSSC, India, 1984

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Photographs and negatives – Cronin, Cornell trip, Yerkes picnic with Friedmans, New Hampshire, Robert Burns, Vermont, and others, 1984?

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Photographs and negatives – family and travel in India?, circa 1984

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Photograph – Sternberg Institute, 1984

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Photographs – “Sivaraj,” including apartment, office, Henry Moore sculpture, cooking with Lalitha, 1984

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Photographs – Chandrasekhar and Lalitha, 1984?, 1985

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Photographs – Indian Academy of Science Golden Jubilee, 1985 [black and white]

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Photographs – Lalitha speaking at Indian Academy of Science Ramanujan bust unveiling, undated

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Photographs – Ramanujan bust unveiling event in India with Mrs. Ramanujan, undated

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Photographs and negatives – India, family?, 1985

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Photographs and negatives – India, family, 1985

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Photographs and negatives – India, family?; University of Chicago campus 1985

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Photographs – at Joel Vandiver’s residence, 1986

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Photographs – with unidentified others, 1986

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Photograph album – INSA Vainu Bappu Memorial Award, 1986

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Photographs – with T.D. Lee, Rabi, Cronin, and Ting, 1986

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Photographs – Richard Askey and Robert Rankin with Ramanujan bust at Cambridge University, 1986

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Photographs – luncheon hosted by United States Ambassador at Roosevelt House, India, 1986; note, 1987

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Photograph – Newton Tercentenary - Chandrasekhar and Lalitha with Stephen Hawking at Woolsthorpe (Newton’s birthplace), 1987

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Photographs – Firoenxa Bassetti portraits, including with Ramanujan photograph, 1988

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Photographs and cards – apartment, Leelavanti and G. Bagavant, 1988

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Photographs – Raman Institute, with Sivaraj, Kausalya, and others, 1988

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Photographs and negatives – Lindau, African violets, 1988

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Photographs and negatives – Lindau, 1988

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Photographs and negatives – Poland, 1988 [1 of 2]

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Photographs and negatives – Poland, 1988 [2 of 2]

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Photographs and negatives – Bangalore, Poland, very large array, Arizona, 1988

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Photographs – Salzburg, 1988

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Photographs – miscellaneous images, including travel, Montreal, 1988-1989, undated

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Photographs – lecturing and talking, Raman Institute, Bangalore, 1989

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Photographs – Jawaharlal Nehru Planetarium, 1989

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Photographs – Inter-University Centre for Astronomy and Astrophysics, India, 1989; note from journalist Sanjay Kumar, 1990

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Photograph – Crete, 1989

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Photographs – Crete, Basilis and family, 1990

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Photographic slides – wall, picture, and stones in normal and shortwave ultraviolet light, 1990

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Photographs – “C.R. Rao” – group images, 1991

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Photographs – Newton books and portrait, office, and Henry Moore nuclear energy statue, 1991

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Photographs and negatives – Sicily, Rome, and others, 1991

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Photographs – at Ida Noyes Hall, 1992

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Photographs and letter – 2nd Indo-American Community Chair and S. Kailath End. Inaugural Lecture, University of California Berkeley, 1992

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Photographs – Royal Society 50th Anniversary membership, 1994

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Photograph Album – family photographs, Chandra Villas, undated

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**Folder 31**

Photograph – large family image, with caption, undated [Lalitha's family?]

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**Folder 32**

Photograph – large family image, undated [Lalitha's family?]

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Photographs –family images, undated

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**Folder 34**

Photograph – portraits, Chandrasekhar's father?, undated

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Photographs – Savitri, younger years, undated

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**Folder 36**

Photograph – mounted image of children, undated

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Photographs – Radha and Maya; unidentified baby, undated

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**Folder 2**

Photographs – Chandra Villas, family images, undated

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Photograph – woman, mounted, undated

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Photographs – young couples, undated

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**Folder 5**

Photographs – images from India, possibly family, undated

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Photograph – older man, sitting in front of image of Chandrasekhar at Yerkes, undated

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Photograph – Savitri?, older years, undated

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**Folder 8**

Photographs – telescope, High Tatra Mountains, Stefanik's Monument, and others, undated [circa early 1930s?]

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Photographs – unidentified groups/individuals, undated [circa 1930s-1950s?]

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Photographs – observatory, undated

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Photographs – Chandrasekhar and Lalitha with other families, children, and groups, mostly Williams Bay, undated

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Photographs – “desert” scenes, Lalitha and others, undated

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Photographs and negatives – miscellaneous, including with other families, mostly Williams Bay, undated

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Negatives – Wrubels, Bloomington, undated

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Photographs and negatives – outdoor scenes and tea pot, possibly Williams Bay, undated

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Photographs – large group of women, including Lalitha, likely Williams Bay, undated

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Photographs – miscellaneous, including mountains with snow; by the water, likely in Williams Bay; train tracks; and others, undated

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Negatives – scenery, undated

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Negatives – unsorted, likely Williams Bay years, undated

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Negatives – unsorted, likely Williams Bay years, undated [1 of 2]

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Negatives – unsorted, likely Williams Bay years, undated [2 of 2]

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Photograph – Chandrasekhar, in India, younger-middle years, undated

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Photograph – Chandrasekhar, portraits, younger-middle years, undated

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Photographs – Chandrasekhar and Lalitha, portraits, middle aged, undated

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**Folder 26**

Photographs – Chandrasekhar with brothers and sisters, middle aged, undated

**Box 265**

**Folder 27**

Photograph – Chandrasekhar and Lalitha, in auditorium, middle aged, undated

**Box 265**

**Folder 28**

Photograph – Chandrasekhar and Lalitha, on boat, middle aged, undated

**Box 265**

**Folder 29**

Photograph – Chandrasekhar portraits, middle aged, undated

**Box 265**

**Folder 30**

Photograph – Lalitha, with unidentified woman, middle aged undated

**Box 265**

**Folder 31**

Photographs – visits to India, Chandra Villas, middle aged, captions by Savitri, undated

**Box 265**

**Folder 32**

Photographs – Racine, Wisconsin?, middle aged, undated

**Box 265**

**Folder 33**

Photograph – Chandrasekhar and Lalitha, on train?, middle aged, undated

**Box 265**

**Folder 34**

Photograph – portrait, middle/older years, undated

**Box 265**

**Folder 35**

Photographs – reception/formal event, older years, undated

**Box 265**

**Folder 36**

Photographs – lecturing, older years, undated

**Box 265**

**Folder 37**

Photograph – with group of students, older years, undated

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**Folder 38**

Photographs – Homi Bhabha auditorium event, older years, undated

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**Folder 39**

Photographs and note – with Russian scientists, undated

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**Folder 40**

Photographs – with Virginia and Jay Holiday, older years, undated

**Box 265**

**Folder 41**

Photographs – meeting or tour, India?, older years, undated

**Box 265**

**Folder 42**

Photograph – with group, in India?, older years, undated

**Box 265**

**Folder 43**

Photographs – with Herbert Friedman and portrait (of Chandrasekhar?), undated

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**Folder 44**

Photographs – Italy?, older years, undated

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**Folder 45**

Photographs – Lalitha, with two others, older years, undated

**Box 265**

**Folder 46**

Photographs – Lalitha and Indira Gandhi, older years, undated

**Box 265**

**Folder 47**

Photographs – portrait from front cover of Kameshwar Wali's Chandra, older years, undated

**Box 265**

**Folder 48**

Photographs – portraits at Henry Moore Nuclear Energy sculpture and in office, older years, undated [color]

**Box 265**

**Folder 49**

Photographs – portraits at Henry Moore Nuclear Energy sculpture and in office, older years, undated [black and white]

**Box 265**

**Folder 50**

Photograph – with Jawaharal Nehru image, older years, undated

**Box 265**

**Folder 51**

Photographs – with Lalitha, campus, apartment, and others, older years, undated

**Box 265**

**Folder 52**

Photographic slides – in office, older years; early images with colleagues; scientists; trip to Poland?, undated

**Box 265**

**Folder 53**

Photographs – portraits, older years; card – compliments of Theoretical Physics Institute, University of Alberta, undated

**Box 265**

**Folder 54**

Photographs – miscellaneous images, including Henry Moore Nuclear Energy sculpture, apartment, India, lecturing, older years, undated [color]

**Box 265**

**Folder 55**

Photographs – miscellaneous images, including with baby, lecturing, and India, older years, undated [black and white]

**Box 265**

**Folder 56**



Photographs – with family/friends, tourist site in India?, older years, undated

**Box 265**

**Folder 57**

Photograph – older image, observatory?, undated

**Box 265**

**Folder 58**

Photographs – building, street, bridge, and tree, undated

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**Folder 59**

Photograph – theater, undated

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**Folder 60**

Photographs – “Taliesan,” by Mary Wagner [Taliesin?], undated

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**Folder 61**

Photographs and negatives – sculptures, art, and bust, undated

**Box 266**

**Folder 1**

Photographs – Ramanujan bust, undated

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**Folder 2**

Photographs – Hardy, “A Mathematician’s Apology,” related to Ramanujan, undated

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**Folder 3**

Photographs – portraits, unlabeled, undated

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**Folder 4**

Photograph – portrait, Herzberg, undated

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**Folder 5**

Photographic slides – Nobel Laureate portraits, undated

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**Folder 6**

Photograph – unidentified man, Yerkes Observatory, undated

**Box 266**

**Folder 7**

Photographs and clippings – historic images of scientists and mathematicians, undated  
[includes mounted version of Chandrasekhar at Royal Astronomical Society from circa 1935-1936]

**Box 266**

**Folder 8**

Photograph – E. M. Lifschitz, undated

**Box 266**

**Folder 9**

Photographs – Einstein, Bohr, Eddington, de Sitter, Dirac?, and others, undated

**Box 266**

**Folder 10**

Photographs – 3 unidentified men at blackboards, including Andrzej Trautman, C.V. Raman?, undated

**Box 266**

**Folder 11**

Negatives – car, observatory, and others, undated

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**Folder 12**

Negatives – unlabeled, undated [1 of 5]

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**Folder 13**

Negatives – unlabeled, undated [2 of 5]

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**Folder 14**

Negatives – unlabeled, undated [3 of 5]

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**Folder 15**

Negatives – unlabeled, undated [4 of 5]

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**Folder 16**

Negatives – unlabeled, undated [5 of 5]

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**Folder 1**

Slides – “radiation transfer” – graphs, charts, and equations, undated

**Box 267**

**Folder 2**

Slides – graphs, charts, and equations, including origin of stellar mass and degeneracy pressure, undated

**Box 267**

**Folder 3**

Slides – “early historical” – graphs and charts, 1973, undated

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**Folder 4**

Slides – “Eddington’s lectures” and “duplicates” – graphs, charts, and equations, 1973, undated

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**Folder 5**

Slides – graphs and diagrams, including Kerr Metric and Reiner-Nordström space-time, undated

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**Folder 6**

Slides – “Eddington’s pictures,” “Beatriz,” and “Milne lectures,” undated

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**Folder 7**

Slides – Newton’s personal interleaved copy of the Principia, undated [1 of 3]

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**Folder 8**

Slides – Newton’s personal interleaved copy of the Principia, undated [2 of 3]

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Slides – Newton’s personal interleaved copy of the Principia, undated [3 of 3]

**Box 267****Folder 10**

Slides – Newton’s personal interleaved copy of the Principia, microfilm and CD’s, undated

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Glass slides, undated

**Box 269**

Glass slides, undated

**Box 270**

Glass slides, undated

**Box 271**

Glass slides, undated

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Glass slides in Kodak cases, circa 1963?

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“Voice of Gandhi” exclusive memorial album, with commentary by Alfred Wagg, recorded April 2, 1947; note, “For Chandra, from Lalitha,” undated

**Box 273**

Unlabeled audio tape, undated

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Cassette 1: T. S. Eliot, "The Development of the Versification of Shakespeare," WHA radio broadcast, University of Wisconsin, November 19, 1950

**Box 274**

Cassette 2: Nehru Memorial Lecture, with speeches by Prime Minister and President of India, November 13, 1968; radio talk by Sir C. V. Raman on colour of flowers, November 12, 1966

**Box 274**

Cassette 3-4: "Shakespeare, Newton, and Beethoven, or Patterns of Creativity," Edward and Nora Ryerson Lecture, April 22, 1975 [2 copies]

**Box 274**

Cassette 5: "Black Holes - Their Roles in the Astronomy and in Physics," University of California, Berkeley, October 18, 1976

**Box 274**

Cassette 6: "Why Are the Stars as They Are?" University of California, Berkeley, October 18, 1976

**Box 274**

Cassette 7-8: "Beauty and the Quest for Beauty in Science," Robert Wilson Symposium, April 27, 1979 [2 copies]

**Box 274**

Cassette 9: Lecture, August 17, 1979; note from S.K. Trehan

**Box 274**

Cassette 10: Kanth, Radha, Meena, Shoba, October 23, 1979

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Cassette 11: M.S. Subalakshmi, November 1979

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Cassette 12: Interview, tape 1, August 5, 1980

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Cassette 14: "Principles of Invariance in the Theory of Radiative Transfer," Department of Physics Colloquium, November 19, 1981

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Cassette 16: Gravitation and Astrophysics, Pauli Lectures, Zurich, lecture 1 – "The General Theory of Relativity..." January 9, 1984

**Box 274**

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Cassette 4: Unveiling of Ramanujan's bust in R.R.I. by Lalitha Chandrasekhar, Golden Jubilee lecture by S. Chandrasekhar, February 6, 1985

**Box 275**

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**Box 275**

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**Box 275**

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Cassette 8: Conversations (1), 1992-1993

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“Sa’ena in India,” April 19, 1992

**Box 275**

“Newton’s ‘I Say’ is following Euclid’s Style,” May 13, 1992

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Cassette 10-13: Chandra Memorial, WBEZ, August 18, 1995 [4 copies]

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Cassette 14: "Scientifically Speaking," CLN 24/812 B 690, undated

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Cassette 5: Kameshwar Wali oral history interviews 99-100 – Chandra, May 10, 1982



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Cassette 6: Kameshwar Wali oral history interviews 101-102 – Chandra, May 11, 1982

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Cassette 7: Kameshwar Wali oral history interviews 103-104 – Chandra, including “concerning early years, 1930-1933,” March 3, 1983

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Cassette 10: Kameshwar Wali oral history interviews 108-109 – Chandra, including “answers to misc. questions,” June 13, 1983

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Cassette 13: Kameshwar Wali oral history interviews 114-115 – W.H. McCrea, including first meeting, Univ. Sussex, July 19, 1983

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Cassette 15: Kameshwar Wali oral history interviews 118-119 – W.H. McCrea, Univ. of Sussex, personal recollections, July 23, 1983

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Cassette 16: Kameshwar Wali oral history interviews 120-121 – W.H. McCrea, Univ. of Sussex, personal recollections, July 23, 1983

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**Box 280**

Cassette 8: Kameshwar Wali oral history interviews 136-137 – Chandra, September 28, 1984

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Cassette 13: Kameshwar Wali oral history interviews 146-147 – Chandra, July 12, 1985

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Cassette 14: Kameshwar Wali oral history interviews 148-149 – Chandra, July 13, 1985, August 28-31, 1985

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Cassette 15: Kameshwar Wali oral history interviews 151 – Don Osterbrock, December 7, 1985

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Item 4: VHS video cassette – Yale – Gibbs Symposium, 1989

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Items 5-11: VHS cassettes – University of Chicago Department of Physics lecture series, “Newton's Principia - An Analysis of the Propositions that Led Newton to His Universal Law of Gravitation,” parts 1-7, 1990

**Box 283**

Items 1-3: VHS video cassettes – University of Chicago Department of Physics lecture series, “Newton's Principia - An Analysis of the Propositions that Led Newton to His Universal Law of Gravitation,” parts 8-10, 1990

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Item 4: VHS video cassette – convocation, Faculty of Arts and Science & School of Physical Education, Queen's University, Kingston, Ontario, June 1, 1991

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Item 5: VHS video cassette – Russell Marker lectures, Penn State, "The Principia - How It Came to Be Written," October 28, 1991

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Item 6: VHS video cassette – Russell Marker lectures, Penn State, "The Propositions of Book I," October 29, 1991

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Items 2-3: VHS video cassette – "Lincoln Laureates - A Legacy of Excellence," public television program, May 16, 1993 [2 copies]

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Item 4: VHS video cassette – Ballroom speakers, S. Chandrasekhar, January 15, 1994

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Item 5: VHS video cassette – "Chandrasekhar's Colloquium," October 6, 1994

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Item 6: VHS video cassette – "Newton's Formulation of His Universal Law of Gravitation," Enrico Fermi Institute Seminar, December 1, 1994

**Box 284**

Item 7: VHS video cassette – "The Astrophysical Journal," March 10, 1995

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Item 8: VHS video cassette – "S. Chandrasekhar – Out of India," BBC World, interviewed June 1995

**Box 284**

Item 9: VHS video cassette – Unveiling of Chandra's Bust, IAS RRI, December 14, 1999

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Item 10: VHS video cassette – "High Energy Vision – The Chandra X-Ray Observatory," 2001

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Item 11: DVD – "Chandra – in Quest of Perspectives," 2011

**Box 285**

Video tape - "Physics (Dub), Chandrasener, 3:00p.m. Friday," undated

**Subseries 7: Oversize**

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Personal – articles and clippings about Chandrasekhar – scrapbook of clippings from Indian newspapers, 1968

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**Folder 2**

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Personal – articles and clippings – black holes, 1995

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Personal – articles and clippings – New York Times magazine, 1965-1977

**Box 286**

**Folder 5**

Personal – articles and clippings, 1961-1977, undated

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Personal – articles and clippings, 1964-1967

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Personal – articles and clippings, 1968

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Personal – awards and honors – Copley Medal certificate, 1984

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Personal – awards and honors – Gordon J. Laing Prize from University of Chicago Press, certificate, 1989

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Personal – awards and honors – honorary degree, University of Madras, 1983

**Box 287**

**Folder 1**

Personal – awards and honors – honorary degrees, University of Oxford, certificate, 1972

**Box 287**

**Folder 2**

Personal – awards and honors – honorary degrees, University of Roorke, certificate, 1989

**Box 287**

**Folder 3**

Personal – awards and honors – Internationalis Astronautica Academia, certificate, 1986

**Box 287**

**Folder 4**

Personal – awards and honors – Kungliga Svenska Vetenskapsakademien, foreign member certificate, 1973

**Box 287**

**Folder 5**

Personal – awards and honors – National Institute of Sciences of India, Honorary Fellow certificate, 1962

**Box 287**

**Folder 6**

Personal – awards and honors – Nobel Prize – copy of University of Chicago Nobel Prize cartoon by Jack Higgins, signed by University of Chicago Nobel laureates, 1993

**Box 287**

**Folder 7**

Personal – awards and honors – Royal Medal certificate, 1962

**Box 287**

**Folder 8**

Personal – awards and honors – Royal Statistical Society, honorary fellow certificate, 1983

**Box 287**

**Folder 9**

Personal – awards and honors – Smoluchowski medal, article, circa 1973

**Box 287**

**Folder 10**

Personal – awards and honors – Society of Engineering Science certificate, 1974

**Box 287**

**Folder 11**

Personal – awards and honors – Watumull Foundation Distinguished Achievement Award, 1967

**Box 287**

**Folder 12**

Personal – awards and honors – Who's Who in Science certificates and letter, 1964, 1968

**Box 287**

**Folder 13**

Personal – “congratulations” sign, undated

**Box 287**

**Folder 14**

Personal – Opera House flier, 1947

**Box 287**

**Folder 15**

Personal – publications – Asian Indians in Chicago and Pacific Friend, 1982-1991

**Box 287**

**Folder 16**

Personal – publications – The Listener, with equation written on back, 1968

**Box 287**

**Folder 17**

Personal – publications – New Statesman, 1965

**Box 287**

**Folder 18**

Personal – publications – New York Times magazine, 1968

**Box 288**

**Folder 1**

Personal – publications – New York Times magazine and book review, December 1968

**Box 288**

**Folder 2**

Personal – publications – New York Times magazine, 1980-1986

**Box 288**

**Folder 3**

Personal – publications – Smithsonian Research Reports, 1992-1995

**Box 288**

**Folder 4**

Personal – publications – Soviet Life, 1968

**Box 288**

**Folder 5**

Writing – related material – Ryerson lecture, “Shakespeare, Newton, and Beethoven, or Patterns of Creativity,” poster, 1975

**Box 288**

**Folder 6**

Writing – related material – Hitchcock Foundation Lectures, University of California Berkeley, poster, 1976

**Box 288**

**Folder 7**

Writing – related material – Newton’s Principia for the Common Reader, reviews, 1995

**Box 288**

**Folder 8**

Writings by others – on Copernicus, various authors, undated

**Box 288**

**Folder 9**

Writings by others – Penrose, Roger review of “Infinite in all Directions,” by Freeman J. Dyson, 1988

**Box 288**

**Folder 10**

Writings by others – poster, “Landscape Paradigms in Physics and Biology” conference, 1996

**Box 288**

**Folder 11**

Photographs – Yerkes Observatory, 28th meeting, American Astronomical Society, 1922

**Box 288**

**Folder 12**

Photographs – Chandrasekhar portrait, 1961

**Box 288**

**Folder 13**

Photographs – Chandrasekhar reading, 1961

**Box 288**

**Folder 14**

Photographs – Lalitha and Lyndon B. Johnson, 1967

**Box 288**

**Folder 15**

Photographs – family?, undated

**Box 288**

**Folder 16**

Photographs – large group image, including Chandrasekhar and Lalitha, middle aged, undated

**Box 288**

**Folder 17**

Photographs – Chandrasekhar in office, older years, undated

**Box 288**

**Folder 18**

Photographs – Nobel Prize winners Chandrasekhar, C.V. Raman, Werner Karl Heisenberg, and Karl von Frisch, undated

**Box 288**

**Folder 19**

Photographs – unidentified bust [Chandrasekhar?], undated

**Box 289**

Photograph album, blue, “In grateful memory of your gracious visit to S. Kamva Nivas[?]”, 1961

**Box 289**

Photograph album, tan, “Prof. S. Chandrasekhar visit to National Aeronautical Laboratory, Bangalore,” 1961

**Box 289**

Photograph album, red, ISAC visit, older years, undated

**Box 289**

“Photographs,” brown album with images of ancient animals, dinosaurs, and animals, undated

**Box 289**

“Snapshot album,” green, with photographs missing, inscribed “To my beloved Chandra with Christmas Greetings, Lalith,” circa 1934

**Box 289**

“Snapshot album,” green, with photographs missing, circa 1934

**Box 290**

Photograph album - Monet, the Series Paintings, compiled 1991

**Box 291**

**Folder 1**

Personal – articles and clippings about Chandrasekhar, including some copies, circa 1980-1991

**Box 291**



**Folder 2**

Personal – articles and clippings about Chandrasekhar, Chicago Maroon, 1983

**Box 291**

**Folder 3**

Personal – articles and clippings about or mentioning Chandrasekhar, 1987-1992

**Box 291**

**Folder 4**

Personal – articles and clippings about Chandrasekhar – obituary from The Guardian, 1995

**Box 291**

**Folder 5**

Personal – articles and clippings on/by scientists, including Einstein, Dyson, and Herzberg, 1971-1995, undated

**Box 291**

**Folder 6**

Personal – articles and clippings – Chicago Sun Times and Chicago Daily News, 1965-1966

**Box 291**

**Folder 7**

Personal – articles and clippings – New York Times, 1965-1967, 1987

**Box 291**

**Folder 8**

Personal – articles and clippings, 1968

**Box 291**

**Folder 9**

Personal – articles and clippings, 1977, 1979

**Box 291**

**Folder 10**

Personal – articles and clippings – Ramanujan bust unveiling, 1984

**Box 291**

**Folder 11**

Personal – articles and clippings – Balakrishnan, Purasu short stories in Indian Express, 1987-1991

**Box 291**

**Folder 12**

Personal – articles and clippings – Strier, Richard, Aims of Education address in University of Chicago Record, 1991

**Box 291**

**Folder 13**

Personal – articles and clippings, 1990-1995

**Box 291**

**Folder 14**

Personal – articles and clippings, 1993

**Box 291**

**Folder 15**

Personal – Astronomy Club “About Chandra” poster, undated

**Box 291**

**Folder 16**

Personal – awards and honors – honorary degrees – American Mathematical Society, invitation to deliver Gibbs lecture, 1945

**Box 291**

**Folder 17**

Personal – awards and honors – honorary degrees – American Philosophical Society, certificate and letter, 1945

**Box 291**

**Folder 18**

Personal – awards and honors – Bayerische Akademie der Wissenschaften, certificate, 1973

**Box 291**

**Folder 19**

Personal – awards and honors – honorary degrees – Banaras Hindu University, certificate, 1984

**Box 291**

**Folder 20**

Personal – awards and honors – honorary degrees – Federal University of Technology, Owerri, certificate, 1988

**Box 291**

**Folder 21**

Personal – awards and honors – honorary degrees – Syracuse University, clippings, 1987

**Box 291**

**Folder 22**

Personal – awards and honors – honorary degrees – Université de Liège, clipping, 1967

**Box 291**

**Folder 23**

Personal – awards and honors – honorary degrees – University of Oxford – seating chart and clipping, 1972

**Box 291**

**Folder 24**

Personal – awards and honors – Institute of Electronics and Telecommunication Engineers honorary fellow certificate, 1987

**Box 291**

**Folder 25**

Personal – awards and honors – Institute of Physics, honorary fellow certificate, 1977

**Box 291**

**Folder 26**

Personal – awards and honors – Royal Society, notification of election as fellow, 1944

**Box 291**

**Folder 27**

Personal – awards and honors – Royal Society, Ascension Feast, seating chart?, 1994

**Box 291**

**Folder 28**

Personal – awards and honors – Symposium in the Exact Sciences, Weizmann Institute of Science in Rehovot, certificate of participation, 1958

**Box 291**

**Folder 29**

Personal – Inauguration of John Fitzgerald Kennedy, invitation, 1961

**Box 291**

**Folder 30**

Personal – International Foods store poster, 1979

**Box 291**

**Folder 31**

Personal – travel – Poland trip, “Meeting on New Theories in Physics” poster, 1988

**Box 291**

**Folder 32**

Personal – travel – Vienna, London, and Oxford trip, newsletter and map, 1990

**Box 291**

**Folder 33**

Personal – University of Cambridge certificates, 1933, 1942

**Box 291**

**Folder 34**

Personal – University of Madras diplomas, 1929-1930

**Box 291**

**Folder 35**

Personal – correspondence – Sarma, Savitri, copy of article on Chandrasekhar, 1983

**Box 291**

**Folder 36**

Personal – publications – Action and Reaction, 1976-1978

**Box 291**

**Folder 37**

Personal – publications – ADA World, 1965-1968

**Box 291**

**Folder 38**

Personal – publications – American Friends Service Committee Quaker Service Bulletin, 1976-1977; Amnesty Action, 1986

**Box 292**

**Folder 1**

Personal – publications – American Physical Society newsletter, 1995-1996

**Box 292**

**Folder 2**

Personal – publications – The Brief (American Civil Liberties Union), 1968-1983

**Box 292**

**Folder 3**

Personal – publications – Chicago Lawyer, 1980

**Box 292**

**Folder 4**

Personal – publications – Chicago Maroon, 1968-1978

**Box 292**

**Folder 5**

Personal – publications – Chicago Maroon, 1992-1993

**Box 292**

**Folder 6**

Personal – publications – Chicago Sun-Times, May, June, 1968

**Box 292**

**Folder 7**

Personal – publications – Civil Liberties (American Civil Liberties Union), 1967-1984

**Box 292**

**Folder 8**

Personal – publications – Evergreen, 1976, 1984

**Box 292**

**Folder 9**

Personal – publications – The Hindu Weekly Review, 1965

**Box 292**

**Folder 10**

Personal – publications – The Hindu Weekly Review, 1967

**Box 292**

**Folder 11**

Personal – publications – Hinduism Today, 1968

**Box 292**

**Folder 12**

Personal – publications – Hyde Park Herald, April-September 1965

**Box 293**

**Folder 1**

Personal – publications – Hyde Park Herald, 1967-1968

**Box 293**

**Folder 2**

Personal – publications – Hyde Park Herald, 1970

**Box 293**

**Folder 3**

Personal – publications – Hyde Park Kenwood Voices, 1967-1968

**Box 293**

**Folder 4**

Personal – publications – Imagindia Weekly, 1977-1978

**Box 293**

**Folder 5**

Personal – publications – India Abroad, 1984

**Box 293**

**Folder 6**

Personal – publications – India League of America, 1976

**Box 293**

**Folder 7**

Personal – publications – India News, 1962-1965

**Box 293**

**Folder 8**

Personal – publications – India News, 1967

**Box 293**

**Folder 9**

Personal – publications – India News, 1970-1971

**Box 293**

**Folder 10**

Personal – publications – India News, 1977

**Box 293**

**Folder 11**

Personal – publications – India News, March-April 1984

**Box 293**

**Folder 12**

Personal – publications – India News, May-December 1984

**Box 294**

**Folder 1**

Personal – publications – India News, 1992

**Box 294**

**Folder 2**

Personal – publications – India News, 1993

**Box 294**

**Folder 3**

Personal – publications – India Times, 1977-1978

**Box 294**

**Folder 4**

Personal – publications – India Tribune, 1983-1986

**Box 294**

**Folder 5**

Personal – publications – New Directions for Women, 1982-1983

**Box 294**

**Folder 6**

Personal – publications – New York Times book review, 1964-1966

**Box 294**

**Folder 7**

Personal – publications – NOW, Official Journal of the National Organization for Women, 1977

**Box 294**

**Folder 8**

Personal – publications – Nuestra Lucha, 1982

**Box 294**

**Folder 9**

Personal – publications – On Guard, 1986

**Box 294**

**Folder 10**

Personal – publications – Public Citizen, 1976

**Box 294**

**Folder 11**

Personal – publications – The Times Science Review, 1965

**Box 294**

**Folder 12**

Personal – publications – University of Chicago Chronicle, 1992-1993

**Box 294**

**Folder 13**

Personal – publications – Urban League News, 1971

**Box 295**

**Folder 1**

Personal – Chandra X-Ray Observatory – University of Chicago Chronicle with articles and note, 1998-2000

**Box 295**

**Folder 2**

Personal – Chandra X-Ray Observatory – India West newspaper with related articles, July 1999

**Box 295**

**Folder 3**

Personal – Chandra X-Ray Observatory – India West newspaper with related articles, July-August 1999

**Box 295**

**Folder 4**

Personal – Chandra X-Ray Observatory calendar, 2000

**Box 295**

**Folder 5**

Correspondence – Pingree, David, clipping, 1980

**Box 295**

**Folder 6**

Correspondence – Robinson, Andrew, copies of clippings, 1994-1995

**Box 295**

**Folder 7**

Writing – related material – Order in Chaos conference folder, 1982

**Box 295**

**Folder 8**

Writing – related material – Newton's Principia, various event posters, 1987

**Box 295**

**Folder 9**

Writing – related material – review, Truth and Beauty, 1991

**Box 295**

**Folder 10**

Writing – related material – “On the non-radial oscillations of a star. III. A reconsideration of the axial modes,” chart, 1991

**Box 295**

**Folder 11**

Writings by others – University of Chicago Record with text of various campus lectures, 1991-1995

**Box 295**

**Folder 12**

Photographs – images of Indian scientists and mathematicians, undated

**Box 295**

**Folder 13**

Photographs – Princeton University Bicentennial Conference – Future of Nuclear Science, undated

**Box 295**

**Folder 14**

Photographs – Lalitha, portrait, Williams Bay years?, undated

**Box 295**

**Folder 15**

Photographs – Chandrasekhar, mounted, older years, undated

**Box 296**

Chandra X-Ray Observatory posters, 1999

**Box 297**

**Folder 1**

Drawings of Chandrasekhar by Salsingam, 1986

**Box 297**

**Folder 2**

Awards and honors – honorary degrees, Gulbarga University, 1993

**Box 297**

**Folder 3**

Awards and honors – Lincoln Academy of Illinois certificate, 1993

**Box 297**

**Folder 4**

Awards and honors – honorary degrees, Harvard University, 1979

**Box 298**

**Folder 1**

Personal – articles and clippings about Chandrasekhar and Nobel Prize, 1983-1984

**Box 298**

**Folder 2**

Personal – articles and clippings about Chandrasekhar and Indian Academy of Sciences Golden Jubilee meeting, 1985, and article on MS Subalakshmi, undated

**Box 298**

**Folder 3**

Personal – articles and clippings – Einstein, circa 1990s

**Box 298**

**Folder 4**

Personal – awards and honors – Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique, certificate, 1964

**Box 298**

**Folder 5**

American Academy of Arts and Sciences, certificates, 1946

**Box 298**

**Folder 6**

Personal – awards and honors – certificate [not in English]

**Box 298**

**Folder 7**

Personal – awards and honors – Dr. Tomalla Prize for Gravitation and Cosmology, certificate, 1984

**Box 298**

**Folder 8**

Personal – awards and honors – honorary degrees, Syracuse University, 1987

**Box 298**

**Folder 9**

Personal – awards and honors – honorary degrees, University of Delhi, 1973

**Box 298**

**Folder 10**

Personal – awards and honors – National Academy of Sciences, membership certificate, 1955

**Box 298**

**Folder 11**

Personal – awards and honors – Nobel Prize – University of Chicago Nobel Prize cartoon by Jack Higgins, 1993

**Box 298**

**Folder 12**

Personal – cartoon of couple with telescope, undated

**Box 298**

**Folder 13**

Personal – quotations, clippings, 1977-1991

**Box 298**

**Folder 14**

Personal – Trinity Bridge print, undated

**Box 298**

**Folder 15**

Correspondence – Goldberg, Leo, with clippings, 1979

**Box 298**

**Folder 16**

Writing – related material – 17th Annual Nobel Laureate lecture, “Truth and Beauty,” 1992

**Box 298**

**Folder 17**

Photographs – University of Delhi Golden Jubilee celebration, 1973

**Box 298**

**Folder 18**

Photographs – portrait from front cover of Kameshwar Wali’s Chandra, older years, undated

**Box 299**

**Folder 1**

Personal – articles and clippings about Chandrasekhar – Nobel laureates conference, Lindau, 1988

**Box 299**

**Folder 2**



Personal – articles and clippings about Chandrasekhar – Vedantam, Vatsala, “Portrait of a Scientific Recluse,” 1994

**Box 299**

**Folder 3**

Personal – articles and clippings – Balakrishnan, Purasu – short story from Indian Express, 1948

**Box 299**

**Folder 4**

Personal – articles and clippings – Chicago Daily News and Chicago Sun-Times, 1965, 1967

**Box 299**

**Folder 5**

Personal – articles and clippings – New York Times, 1962

**Box 299**

**Folder 6**

Personal – articles and clippings – New York Times, 1965-1966

**Box 299**

**Folder 7**

Personal – articles and clippings – Madras election scenes, 1952

**Box 299**

**Folder 8**

Personal – articles and clippings, 1968

**Box 299**

**Folder 9**

Personal – articles and clippings, 1977

**Box 299**

**Folder 10**

Personal – articles and clippings, 1983 [Polish?]

**Box 299**

**Folder 11**

Personal – awards and honors – National Medal of Science certificate, 1966

**Box 299**

**Folder 12**

Personal – awards and honors – certificate in Sanskrit, 1968

**Box 299**

**Folder 13**

Personal – book jackets, by author, A-B, undated

**Box 299**

**Folder 14**

Personal – book jackets, by author, C-E, undated

**Box 299**

**Folder 15**

Personal – book jackets, by author, F-H, undated

**Box 299**

**Folder 16**

Personal – book jackets, by author, K-L, undated

**Box 299**

**Folder 17**

Personal – book jackets, by author, M-N, undated

**Box 299**

**Folder 18**

Personal – book jackets, by author, P-R, undated

**Box 299**

**Folder 19**

Personal – book jackets, by author, S-T, undated

**Box 299**

**Folder 20**

Personal – book jackets, by author, V-Z, undated

**Box 299**

**Folder 21**

Personal – book jackets, foreign language or no author, undated

**Box 299**

**Folder 22**

Personal – mailings – American Emergency Committee for Tibetan Refugees, 1959

**Box 299**

**Folder 23**

Personal – map and illustration, copies, undated

**Box 300**

**Folder 1**

Personal – publications – Christian Science Monitor, 1965

**Box 300**

**Folder 2**

Personal – publications – New York Times, January-April, 1968

**Box 300**

**Folder 3**

Personal – publications – New York Times, May, 1968

**Box 300**

**Folder 4**

Personal – publications – Rockefeller Foundation Illustrated, 1976

**Box 300**

**Folder 5**

Personal – publications – The Times (London), 1965

**Box 300**

**Folder 6**

Personal – Chandra X-Ray Observatory clipping, 1999

**Box 300**

**Folder 7**

Personal – Chandra X-Ray Observatory articles in Florida Today and New York Times, 1999

**Box 300**

**Folder 8**

Correspondence – Berndt, Bruce, regarding Ramanujan, 1987

**Box 300**

**Folder 9**

Correspondence – Xanthopoulos, Basilis award, Lanczos International Centenary, letter from E.N. Economou, 1994

**Box 300**

**Folder 10**

Writing – related material – Museum of Science and Industry Distinguished Scientist Lecture Series, poster, 1985

**Box 300**

**Folder 11**

Writing – related material – research data, unidentified –computer printouts and hand drawn/handwritten charts and graphs, including “gravitational perturbations,” undated

**Box 300**

**Folder 12**

Writings about Chandrasekhar – Wali, Kameshwar C., Chandra – reviews, 1991

**Box 300**

**Folder 13**

Writings about Chandrasekhar – “Black Holes and Relativistic Stars – a Symposium in Honor of S. Chandrasekhar,” poster, 1996

**Box 300**

**Folder 14**

Writings about Chandrasekhar – “Chandrasekhar Centennial Symposium poster,” 2010

**Box 300**

**Folder 15**

Writings by others – Shortley and Williams, “Elements of Physics,” poster, 1971

**Box 300**

**Folder 16**

Writings by other – biographical – Jeans, James obituary, 1946

**Box 300**

**Folder 17**

Writings by other – biographical – Ramanujan – Ranganathan, A., clipping of article, 1981

**Box 300**

**Folder 18**

Writings by other – biographical – Ramanujan – copies of articles, 1988-1993, including copy of reprint from 1920

**Box 300**

**Folder 19**

Writings by other – biographical – Ramanujan – “A Famous Madras Mathematician,” copy of article in Madras Times from April 5, 1919

**Box 300**

**Folder 20**

Writings by other – biographical – Ramanujan – “The Last Years of Ramanujan,” clipping from The Hindu, 1988

**Box 301**

**Folder 1**

Personal – awards and honors – Nobel Prize schedule for December 6-16, 1983

**Box 301**

**Folder 2**

Personal – Chandra X-Ray Observatory supernova portrait gallery, circa 1999

**Box 301**

**Folder 3**

Writings – “The Aesthetic Base of the General Theory of Relativity,” Karl Schwarzschild  
Lecture, charts, 1986

**Box 301**

**Folder 4**

Writing – “On the Dispersion of Cylindrical Impulsive Gravitational Waves,” computer  
printouts of tables, 1987

**Subseries 8: Artifacts and framed items**

**Box 302**

Academic regalia, undated

**Box 303**

Academic regalia, undated

**Box 304**

Academic regalia, undated

**Box 305**

Art and decorative items – San Juan, República Argentina relief map, 1973

**Box 305**

Art and decorative items – wood collage, V.M. Sholapurkar, Mysore, India, undated

**Box 305**

Art and decorative items – silver wave-like sculpture, undated

**Box 305**

Art and decorative items – metal paperweight?, labeled “Doubleaxe of Knos and Minoan  
inscription,” undated

**Box 305**

Art and decorative items – small wooden container with flower carvings, undated

**Box 305**

Art and decorative items – baton, Chicago Symphony Society, undated

**Box 306**

Art and decorative items – small blue glass bowl, undated

**Box 306**

Art and decorative items – wooden bear, undated

**Box 306**

Art and decorative items – marble egg, undated

**Box 307**

Art and decorative items – miniature replica of Chicago Picasso sculpture with letter  
opener, 1967

**Box 307**

Art and decorative items – green rabbit, undated

**Box 307**

Art and decorative items – gargoyle statue, University of Chicago President’s Fund, undated

**Box 308**

Art and decorative items – wooden bust, Beethoven?, undated

**Box 308**

Art and decorative items – bust, unlabeled woman, undated

**Box 309**

Art and decorative items – rocks, undated

**Box 310**

Art and decorative items – bust, with plaque “1989 George Seferis Fellow, Prof. Subrahmanyam Chandrasekhar,” circa 1989

**Box 311**

Art and decorative items – bust, Alva Museum replicas, 1960

**Box 312**

Art and decorative items – bust, with label “Ministry of Culture and Sciences,” Archaeological Receipts Funds ... Marble head most probably of Homer. Roman copy of a Hellenistic original. From Piraeus.”

**Box 313**

Art and decorative items – white engraved vase?, undated

**Box 313**

Art and decorative items – clock, undated

**Box 314**

Chandra X-Ray Observatory and Kennedy Space Center pins and buttons, circa 1999

**Box 314**

Chandra X-Ray Observatory patches and magnets, circa 1999

**Box 314**

Chandra X-Ray Observatory piece of scrap thermal protection tile from the space shuttle orbiter, circa 1999

**Box 314**

Office and household items – computer chips, undated

**Box 315**

Musical instrument – bansuri? in wooden case, undated

**Box 315**

Musical instrument – bansuri? in cloth case, undated

**Box 316**

Office and household items – chalk, crayons, ink, tacks, picture hangers, and other writing/drawing supplies, undated

**Box 317**

Office and household items – 3 watches, including one matching pair reading “50th anniversary of the UN, Kyung Hee University,” and one digital watch, undated

**Box 318**

Office and household items – wooden slide case, undated

**Box 319**

Office and household items – 2 pairs of glasses in cases, undated

**Box 319**

Office and household items – striped cloth bag, undated

**Box 319**

Office and household items – 1 black sock, undated

**Box 319**

Office and household items – Harry S. Truman commemorative coin, undated

**Box 320**

Office and household items – desk nameplate, undated

**Box 320**

Office and household items – Koh-I-Noor Radiograph fountain pen materials, undated

**Box 321**

Office and household items – writing and drawing supplies, including pencils, adhesive spray, clay, and quill pen, undated

**Box 322**

Office and household items – wooden paper or card holder, undated

**Box 322**

Office and household items – “Graphite from CP-1 First Nuclear Reactor, December 2, 1942 – Stagg Field – The University of Chicago”

**Box 322**

Office and household items – “Fragment – Original Dome, Yerkes Observatory, 1895-1975, The University of Chicago”

**Box 323**

Office and household items – mug, “Third Milne Lecture, Oxford, 6th December 1979

**Box 323**

Office and household items – mug, “The University of Chicago Centennial Year, 1991-92”

**Box 323**

Office and household items – mug, “National Radio Astronomy, Very Large Array, Plains of San Agustin, New Mexico,” undated

**Box 324**

Office and household items – camera and case, undated

**Box 324**

Office and household items – binoculars and case, undated

**Box 325**

Office and household items – rulers, drawing instruments, letter opener, pens, 1995 daily planner, undated

**Box 326**

Plaques and framed items – hanging wooden plaque

**Box 326**

Plaques and framed items – wooden plaque/case containing pieces of cloth, Degree of Doctor of Science Honoris Causa, Banaras Hindu University, 1984

**Box 326**

Plaques and framed items – framed certificate, Case Western Reserve University Albert A. Michelson Edward W. Morley Award, 1983

**Box 327**

Plaques and framed items – Third World Conference Foundation Scholarly Achievement Award, 1984

**Box 327**

Plaques and framed items – American Solar Energy Society Charles Greeley Abbot Award, 1991

**Box 327**

Plaques and framed items – plaque, “With Compliments from Director General, Council of Scientific and Industrial Research, New Delhi, India, undated

**Box 327**

Plaques and framed items – mounted drawing, “The Great Court, Trinity College,” undated

**Box 328**

Plaques and framed items – Taraknath Das Foundation Distinguished Award, 1987

**Box 328**

Plaques and framed items – reproduction of title page from the *Astrophysical Journal*, “Presented to Dr. Chandrasekhar by his many friends in the Printing Department,” on his retirement from editorship, 1971

**Box 329**

Plaques and framed items – Openheimer Memorial Lecture, 1978

**Box 329**

Plaques and framed items – Professor S.K. Mitra Birth Centenary celebration, Institute of Radio Physics and Electronics, University of Calcutta, 1989

**Box 329**

Plaques and framed items – USPAACC Excellence 2000 Award, 1994

**Box 330**

Plaques and framed items – plaque, “S. Chandrasekhar, Exemplar of Excellence and Explorer of Brahma,” from Ambassador of India to the United States, 1979

**Box 330**

Plaques and framed items – certificate, “Statement of the American Astronomical Society to Dr. S. Chandrasekhar on the Occasion of the Termination of his Editorship of the *Astrophysical Journal*,” 1971

**Box 330**

Plaques and framed items – photograph of Chandrasekhar, younger years, undated

**Box 331**

Plaques and framed items – Indiana Tech Alumni Association honorary membership, 1965

**Box 331**

Plaques and framed items – University of Mysore honorary degree, 1961

**Box 332**

Plaques and framed items – American Academy of Achievement Golden Plate Award, 1990

## **Subseries 9: Medals**

**Box 333**

Sir Cattamanchi Ramalinga Reddy National Prize, Andhra University, 1945

**Box 333**

Bruce Medal, Astronomical Society of the Pacific, 1952

**Box 333**

Gold Medal, Royal Astronomical Society, 1953

- Box 333**  
Rumford Medal for Discoveries in Light or Heat, American Academy of Arts and Sciences, 1957 [silver and bronze]
- Box 333**  
Royal Medal, Royal Society of London, 1962
- Box 333**  
National Institute of Sciences of India medal, 1962
- Box 334**  
National Academy of Sciences Centennial Medal, 1963
- Box 334**  
Sarvadhikary Medal, University of Calcutta, 1965 and Meghnad Saha Memorial Gold Medal, Asiatic Society, India, 1967
- Box 334**  
National Medal of Science, United States, medal and lapel pin, 1966
- Box 334**  
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