

Catalogue of the papers and correspondence of

Bertha Swirles, Lady Jeffreys

(1903-1999)

by Timothy E. Powell and Peter Harper
NCUACS catalogue no. 152/2/07

Title: Catalogue of the papers and correspondence of Bertha Swirles,
Lady Jeffreys (1903-1999), mathematician

Compiled by: Timothy E. Powell and Peter Harper

Description level: Fonds

Date of material: 1871-2006

Extent of material: 55 boxes, ca 900 items

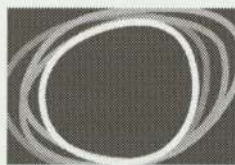
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CAMBRIDGE

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GENERAL INTRODUCTION

PROVENANCE

The archive was received for cataloguing from St John's College, Cambridge in May 2002.

OUTLINE OF THE LIFE AND CAREER OF BERTHA SWIRLES, LADY JEFFREYS

Bertha Swirles was born in Northampton on 22 May 1903. Like many in Northampton, her father worked in the leather trade (he died when his daughter was only 2). Her mother was a school-teacher and Swirles grew up in an environment in which it was not unusual for the women of the family to be well-educated. In 1915 Swirles went to the newly established Northampton School for Girls, becoming Head Girl, and in 1921 won a Clothworkers' Scholarship to Girton College Cambridge to read Mathematics. She graduated with first class Honours in 1924 and spent the following year studying Part II physics, attending lectures by J.J. Thomson and Rutherford.

Swirles began postgraduate research under R.H. Fowler, holding a Yarrow Fellowship 1925-1927 and Hertha Ayrton Research Fellowship 1927-1928. She was awarded her Ph.D. in 1929. It was an exciting time to be doing research in Cambridge, fellow research students of Fowler were P.A.M. Dirac and Subrahmanyan Chandrasekhar. Another research student in the Department was D.R. Hartree and he suggested her first research problem, studying the polarizability of atomic cores. Swirles's and Hartree's careers would cross a number of times and they became firm and lifelong friends. She spent the winter of 1927-1928 in Göttingen, where she worked under Max Born and Werner Heisenberg and met other leading continental workers in the new field of quantum mechanics.

In 1928 Swirles was appointed Assistant Lecturer in Manchester. Here she resumed her contact with Hartree who had also moved there. At Manchester E.A. Milne guided her into research on the absorption of radiation by a gas, working first on a highly degenerate gas then a partially degenerate one, and her work proved significant in the study of stellar structure. This was followed by similar appointments in Bristol (1931-1932) and at Imperial College London (1932-1933) before returning to Manchester in 1933 as Lecturer in Applied Mathematics. She remained at Manchester, again working with Hartree, until 1938 when she returned to Cambridge to take up a Fellowship and Lectureship in Mathematics at Girton. Hartree also returned to Cambridge in 1946, when he was appointed Plummer Professor of Mathematical Physics. Swirles remained at Girton for the rest of her career, serving as Director of Studies in Mathematics and Mechanical Sciences 1949-1969 (and Music, another interest of hers, 1939-1947). The close and friendly contacts with generations of students

endured long after they had left Cambridge and sometimes were renewed when children of former students came to study at Girton. Jeffreys served on the Governing Body of the College and served as Vice-Mistress 1966 to 1969. She was appointed Life Fellow of Girton in 1969.

In 1940 Swirles married the eminent scientist Harold Jeffreys. As Bertha Jeffreys she continued to publish papers on quantum theory but her collaboration with her husband led to her most widely known publication, the textbook *Methods of Mathematical Physics*, which they co-authored. It was first published in 1946 and went through many editions, revisions and reprints, most recently in 1999. Jeffreys's research interests broadened to include seismology in collaboration with her husband, who was appointed Plumian Professor of Astronomy at Cambridge and knighted in 1953. Theirs was a long and happy marriage until his death at the age of 97 in 1989.

Jeffreys was an influential figure in women's education in Cambridge and in mathematics. She served as President of the Mathematical Association 1969-1970 and was elected a Fellow of the Institute of Mathematics and its Applications in 1968. She received honorary doctorates from the University of Saskatchewan in 1995 and the Open University in 1996. She died on 18 December 1999.

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the list of contents. It dates from 1871 to 2006. Although the bulk of the material has Jeffreys as creator, there are some groups where the material presented here should be consulted alongside that of her husband Sir Harold Jeffreys (see Locations of other material below).

Section A, Biographical, documents Jeffreys's life from her childhood in the 1900s up to her nineties. The material includes records of school and undergraduate studies, and her continuing links with Northampton School for Girls. There is documentation of early testimonials, showing the high regard in which she was held, and her later honours and awards. There is a sequence of diaries 1975-1996, and a number of household, commonplace and address books. Jeffreys retained close ties with her native county of Northamptonshire and her keen interest in family and local history is recorded. It is unfortunate that there is not more evidence of her well-known musical pursuits. Photographs show Jeffreys from childhood to shortly before her death. However, the largest single component of this section is biographical material relating to her husband Sir Harold Jeffreys (1891-1989). Jeffreys devoted much of her time after his death to writing about his life and work, assisting others with biographical accounts and helping in other ways to preserve and honour his memory.

Section B, Girton College Cambridge, is not extensive. It documents Jeffreys's service as Director of Studies for Mathematics 1949-1969, and service on the Governing Body, including her term as Vice-Mistress 1966-1969. There is some documentation of the debates as to whether to admit men to the College. There is also material relating to the history of the College, including biographical and historical material relating to distinguished Fellows, and a little correspondence with Girtonians, chiefly former students.

Section C, Research, offers patchy coverage of Jeffreys's research studies. However, there is good documentation of her most significant periods of research. There are a few notebooks from her period as a research student under R.H. Fowler in Cambridge in the mid-1920s but the bulk of the material is in the form of a series of labelled research folders organised by topic containing notes and drafts, calculations and offprints. A number of the items in the series are accompanied by later explanatory notes by Jeffreys. The series includes material from the winter semester of 1927-1928 spent in Göttingen, where she worked under Max Born and Werner Heisenberg; from the late 1920s relating to her research on polarization of atomic cores, a topic suggested to her by D.R. Hartree; work on degenerate gases in the 1930s; and on the Relativistic Self-Consistent Field from the 1930s through to the 1970s. Research material from after her marriage includes work in the 1950s on Multipole Radiation. There is only a little material illustrative of her developing interest in areas of study introduced to her by her husband, although there is additional material preserved in the archive of Sir Harold. Other miscellaneous research papers include some documentation of the work of a former student Mary Walmsley from the 1960s and early 1970s.

Section D, Publications, complements the research in section C, as a number of the publications documented relate to research folders and cross-references are included where appropriate. The section provides greater coverage of Jeffreys's later mathematical interests which are under-represented in section C. There is significant documentation of *Methods of Mathematical Physics* (Cambridge University Press), the book co-authored with her husband Harold, from the first edition of 1946 and her introduction to the volume *Coulomb wave functions* by A.R. Curtis (1964). However, the single largest grouping of material relates to her two short notes for the *Quarterly Journal of the Royal Astronomical Society*; 'A Q-rious tale: the origin of the Parameter Q in electromagnetism', vol 26 (1985) and 'A footnote to "A Q-rious tale" ', vol 27 (1986). The section also includes part of what appears to be an uncompleted book on Mechanics, with D.R. Hartree, and a number of book reviews by Jeffreys for the *Mathematical Gazette*.

Section E, Lectures, is divided into two subsections. The first is teaching material for university courses at Manchester in the 1930s and Cambridge, mainly the 1940s-1950s. It includes notes for her lectures on relativity and quantum theory. The second subsection comprises public and invitation lectures. The earliest documented is a lecture on developments in quantum theory given to the Adams Society, St Johns College Cambridge, 1927 and the latest dated lecture is at the age of 90 to

the British Universities Summer School in Theoretical Elementary Particle Physics, Pembroke College Cambridge, September 1993. A number of her later lectures are on figures in the history of mathematics including Emmy Noether and Augustus de Morgan.

Section F, Visits and conferences, is not extensive. There is some fascinating memorabilia from her study visit to Georg-August Universität, Göttingen, Germany, 1927-1928 but the bulk of the material relates to two events, a Symposium on Computer Science at Girton College Cambridge, August 1969, held as part of the celebrations of the centenary of the foundation of the College, of which Jeffreys was the organiser, and the 48th International Astronomical Union Symposium on 'Rotation of the Earth', held at Morioka, Japan in May 1971 to which Jeffreys accompanied her husband. Her continued interest in developments in science is illustrated by her attendance at the age of 94 at the International Centennial Symposium on the Electron, Cambridge, September 1997.

Section G, Mathematical Association, is very slight. It covers the period 1968-1972, documenting Jeffreys's Presidency of the Mathematical Association for 1969-1970 (in succession to C.A. Coulson) and Vice-Presidency 1970-1972. There is a little administrative material but the section also includes documentation of her concerns for mathematical education and also her Presidential Address, 'An easy commerce of the old and the new'.

Section H, History of science and other interests, is chiefly concerned with Jeffreys's interest in the history of science, and mathematics in particular. It is dominated by a sequence of material (notes, correspondence, offprints etc) on a large number of eminent scientists, both contemporaries of hers and historical figures. There is significant material in particular on Mary Lucy Cartwright, Paul Adrien Maurice Dirac, John Arthur Gaunt, Douglas Rayner Hartree, Inge Lehmann and Barbara Mary Middlehurst. The section includes a little general material on the history of mathematics and science. Jeffreys's concern for the place of women in science is partly indicated by the high proportion of individual women scientists in the main sequence, but there is also general material on this issue, including correspondence with Joan Mason, the founder of AWISE, the Association for Women in Science and Engineering, and correspondence and papers relating to the influential 1992 White Paper on Science and Technology and the resultant 1993 report *The Rising Tide*. Jeffreys interests in education represented includes material relating to the teaching of mathematics in schools and the admission of men to previously all-women Colleges.

Section J, Correspondence, is the largest in the collection. Jeffreys's correspondence was found in a number of separate sequences and parts of sequences, in individual folders, plastic bags and loose. Correspondence found together can include letters from family members, family friends, former students, scientific colleagues and fellow Girtonians. For ease of reference these various groups of correspondence and individual letters have been consolidated into series of correspondence arranged

alphabetically and a chronological sequence. In addition there is a series of postcards which Jeffreys kept separate, and references and recommendations, again kept separately. Subjects vary widely, from family and personal news, topics in the history of science and information about individual scientists, to detailed mathematical questions. Some of the correspondence is to both Sir Harold and Lady Jeffreys (initiated before Sir Harold's death in 1989) and occasionally exchanges are begun with Sir Harold alone and then continued by Lady Jeffreys. The great bulk of the correspondence is incoming. Jeffreys's outgoing correspondence is sparsely represented by rough manuscript drafts or occasionally a typescript carbon copy.

There is also an index of correspondents.

LOCATIONS OF OTHER MATERIAL

The archive of Sir Harold Jeffreys was catalogued by the NCUACS in 2004 (NCUACS catalogue no.133/6/04) and placed in St John's College Cambridge.

SECTION A **BIOGRAPHICAL, A.1-A.245** **1871-2006**

A.1-A.14	AUTOBIOGRAPHICAL AND BIOGRAPHICAL ACCOUNTS
A.15-A.27	SCHOOL AND STUDENT STUDIES
A.28-A.36	CAREER, HONOURS AND AWARDS
A.37-A.64	DIARIES AND JOURNALS
A.65-A.88	SOCIAL OCCASIONS AND EVENTS
A.89-A.93	HOLIDAYS
A.94-A.186	LIFE OF SIR HAROLD JEFFREYS
A.187-A.203	FAMILY AND LOCAL HISTORY
A.204-A.207	ESTATE AND ARCHIVES
A.208-A.215	COMMONPLACE, ADDRESS AND ACCOUNT BOOKS
A.216-A.226	MEMORABILIA
A.227-A.243	PHOTOGRAPHS
A.244, A.245	AUDIO CASSETTES

Biographical, A.1-A.245

A.1-A.14	AUTOBIOGRAPHICAL AND BIOGRAPHICAL ACCOUNTS	1999-2006
A.1	Obituary by R.M. Williams, <i>The Independent</i> , 22 December	1999
A.2	Biographical accounts By R.M. Williams, from 'Contributions of 20 th Century Women to Physics' at CWP website hosted by University of California at Lose Angeles, 1998 By R.M. Williams, from <i>Out of the Shadows: Contributions of Twentieth Century Women to Physics</i> (Cambridge 2006).	1998, 2006
A.3-A.13	Autobiographical accounts	1987-1998, n.d.
A.3-A.11	Transcripts of audio tape recordings made 1996-1998. Typescript, with manuscript corrections, of tapes 1-7, 14-15. Transcripts of tapes 8-13 were not found. 9 folders.	1996-1998
A.12	45pp manuscript account of life from 1940 to about 1990. Mainly concerns visits.	1992
A.13	Miscellaneous manuscript and typescript accounts These have a particular focus on visits and on the career of Sir Harold Jeffreys.	1987, n.d.
A.14	Copy of Jeffreys's entry for Girton College Register	ca 1990

Biographical, A.1-A.245

A.15-A.27	SCHOOL AND STUDENT STUDIES	1912-1936
A.22	Jeffreys was educated at Ashlea House School to 1912, Stimpson Avenue Elementary School 1912-1915, and in 1915 won a scholarship to Northampton School for Girls. She went up to Girton College Cambridge with a Clothworkers' Scholarship in 1921.	1912, 1913
A.15-A.24	<p data-bbox="471 762 1130 786">School</p> <p data-bbox="471 852 1130 914">For later material relating to the Northampton School for Girls see A.198-A.203.</p>	1912-1936
A.15-A.20	Northampton School for Girls schoolwork	1915-1921
A.15	'Botany Vlb'. Exercise book so labelled	1916-1917
A.16	'Botany (Anatomy)'. Hardback notebook so labelled	1921
A.17	'Botany (Types + Classification)'. Hardback notebook so labelled	?1921
A.18	'Chemistry Upper Vb'. Exercise book so labelled	1916-1917
A.19	'Chemistry Notes. Vlb'. Notebook so labelled	1918-1919
A.20	'30/9/15 History'. Notebook so labelled	1915
A.21	<p data-bbox="471 1796 1130 1821">Examination papers and certificates</p> <p data-bbox="471 1868 1130 1952">Cambridge preliminary local examination 1914; Oxford local examination 1917; Cambridge Higher School Certificate examination 1920.</p>	1914-1920
	The 1917 and 1920 certificates are annotated by	

Biographical, A.1-A.245

Jeffreys.

A.22	Other certificates School Certificates in Pianoforte 1912, 1913; swimming certificate 1913.	1912, 1913
A.23	Programmes for Northampton School for Girls speech and sports days	1916-1919
A.24	Northampton School for Girls Prospectus; School Magazine, 1936; menu from Dinner, 31 October 1936 The magazine celebrated the 21st anniversary of the opening of the school. As a former Head Girl, Jeffreys wrote a letter of congratulation published in the magazine.	1920s, 1936
A.25-A.27	Student	1920-1928
A.25	External Student, University of London Registration; Certificate.	1920-1921
A.26	Exercise book inscribed 'DYNAMICS LENT TERM MISS CAVE' on front cover. Used from the front for notes from January 1922. Used at the back for notes of postal expenses 1968-1969.	
A.27	BA, MA and PhD certificates Roll of four certificates.	1924-1928

Biographical, A.1-A.245

A.28-A.36	CAREER, HONOURS AND AWARDS	1912-1996
A.28	'Testimonials'. Contents of envelope so inscribed. Testimonial letters and references for Jeffreys. Also includes particulars of jobs applied for.	1925-1932
A.28A	'Correspondence with Girton & others'. Contents of envelope so inscribed Chiefly correspondence <i>re</i> Jeffreys's resignation from her post as Lecturer in Mathematics at Manchester University and return to Girton College in 1938. Also includes earlier testimonial from the German mathematician H.R. Hassé, 1936.	1936-1942
A.29	Fellowship of the Institute of Mathematics and its Applications Certificate of election.	1968
A.30, A.31	Honorary D.Sc., University of Saskatchewan, 1995	1995-1996
A.30	Arrangements, programme, certificate	1995
A.31	Correspondence arising, including letters of congratulation	1995-1996
A.32-A.35	Honorary D.Sc., the Open University, June 1996	1995-1996
A.32	Correspondence <i>re</i> arrangements Includes drafts of the citation for Jeffreys.	1995-1996
A.33	Programmes for the ceremony; certificate; 2pp typescript of Jeffreys's speech of thanks	1996

Biographical, A.1-A.245

- A.34 Correspondence arising 1996
Includes photographs of the occasion.
- A.35 Material *re* Bertha Blaxby (aunt) 1912, 1996
Includes original certificate (1912).

Blaxby received the LL.A. diploma from the University of St Andrews in 1912. This was a remote learning certificate somewhat analogous to an Open University degree.
- A.36 Honorary membership, International Society for Bayesian Analysis 1996
- A.37-A.64 DIARIES AND JOURNALS 1975-1999**
- A.37 1975
Spiral bound diary.
- A.38 1976
Spiral bound diary.
- A.39 1977
Spiral bound diary.
- A.40 1978
Spiral bound diary.
- A.41 1979
Spiral bound diary.

Biographical, A.1-A.245

A.42 1980
Spiral bound diary.

A.43 1981
Spiral bound diary.

A.44 1982
Spiral bound diary.

A.45 1983
Spiral bound diary.

A.46 1984
Spiral bound diary.

A.47 1985
Spiral bound diary.

A.48 1986
Spiral bound diary.

A.49 1987
Spiral bound diary.

A.50 1987-1988
Spiral bound diary.

Biographical, A.1-A.245

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|------|------|--|
| A.51 | 1987 | Pocket diary. Mostly used as a jotter. |
| A.52 | 1989 | Spiral bound diary. |
| A.53 | 1989 | Pocket diary. Mostly used as a jotter. |
| A.54 | 1990 | Spiral bound diary. |
| A.55 | 1990 | Pocket diary. Mostly used as a jotter. |
| A.56 | 1991 | Hardback diary. |
| A.57 | 1992 | Hardback diary. |
| A.58 | 1993 | Hardback diary. |
| A.59 | 1994 | Hardback diary. |

Biographical, A.1-A.245

A.60	1995 Hardback diary.	
A.61	1996 Hardback diary.	
A.62	1997 Hardback diary.	
A.63	1998 Hardback diary.	
A.64	1999 Hardback diary.	
A.65-A.88	SOCIAL OCCASIONS AND EVENTS	1920-1994
A.65-A.74	Birthdays	1983, 1993
A.65, A.66	Eightieth Birthday Congratulations and greetings cards. A few have personal messages, reminiscences or similar. 2 folders. Not indexed.	1983
A.67-A.74	Ninetieth Birthday	1993
A.67	Birthday Party, Girton College	

Biographical, A.1-A.245

- A.68-A.74 Congratulations and greetings cards
- A few have personal messages, reminiscences or similar.
Not indexed.
- 7 folders.
-
- A.75-A.83 Social functions and concerts 1920-1994**
- Arranged chronologically.
- 9 folders.
-
- A.84-A.88 Funeral and Memorial Services 1954-1992**
- A.84-A.87 Orders of service etc. 1954, 1980-1990
- Contents of Jeffreys's envelope divided into four for ease of reference.
-
- A.88 Memorial Service for Elisabeth Hertz 1992
- Correspondence and papers *re* service, St Andrew's Church, Girton, Cambridge, 7 October.
- Elisabeth Hertz (1864-1941), the widow of the German physicist H.R. Hertz (1857-1894) had fled the Nazis in the 1930s. She died in Cambridge, her grave virtually unnoticed until 1992.
-
- A.89-A.93 HOLIDAYS 1973-1993**
- A.89 Pocket notebook used for observations and notes on holidays 1978
- Shropshire, Yorkshire.

Biographical, A.1-A.245

A.90-A.92	'Travel 1990-91' Contents of Jeffreys's folder so inscribed.	1973, 1990-1991
A.90	Austria, July-August 1973	1973
A.91	USA, April-May 1990	1990
A.92	Australia, 1990	1990-1991
A.93	France, May-June 1993	1993
A.94-A.186	LIFE OF SIR HAROLD JEFFREYS	1914-1998
A.94-A.103	Death of Sir Harold Jeffreys	
A.104-A.115	Biographical material	
A.116-A.151	Obituaries, tributes and reminiscences	
A.152-A.161	<i>Biographical Memoir</i>	
A.162-A.167	Memorials	
A.168-A.181	Correspondence <i>re</i> Sir Harold Jeffreys	
A.182-A.186	The work of Sir Harold Jeffreys	
A.94-A.103	Death of Sir Harold Jeffreys	1989-1990
A.94	Funeral etc Includes drafts of letters notifying colleagues of Sir Harold's death and manuscript lists of those to be invited to the funeral, and photographs.	1989

Biographical, A.1-A.245

A.95-A.103	Letters of Condolence Letters and cards of condolence. Not indexed.	1989-1990
A.95-A.98	March 1989 4 folders.	
A.99, A.100	April 1989 2 folders.	
A.101	May-June 1989	
A.102	July 1989-January 1990	
A.103	Undated	
A.104-A.115	Biographical material Miscellaneous material reflecting interests of Sir Harold Jeffreys, retained by Lady Jeffreys.	1914-1991
A.104	Certificate of Election to the Royal Society	1925
A.105	Class list for Harold Jeffreys's lectures on 'Physics of the Earth's Interior'	ca 1920
A.106	Correspondence between Sir Harold Jeffreys and H. Shapley re proposed visit to the USA	1923

Biographical, A.1-A.245

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|-------------|--|-----------|
| A.106A | Miscellaneous newspaper cuttings on matters of antiquarian interest, and manuscript notes.

Found in (later) labelled envelope (retained). | 1919-1930 |
| A.107 | 'The vulture and the husbandman'

Poem in the style of Lewis Carroll under the name 'Lousie Caroline'.

With a little miscellaneous material found therewith. | N.d. |
| A.108 | Poster for lecture by Sir Harold Jeffreys at Moscow Observatory

Hand-made poster.

In Russian. | N.d. |
| A.109-A.113 | 'Studies on the detective stories of Dr R. Austin Freeman featuring Dr Thorndyke' by Clifford Evans

Contents of folder so labelled: photocopy typescript and manuscript draft; correspondence with Jeffreys.

5 folders.

Sir Harold Jeffreys was an afficiando of these detective stories and wrote an introduction to the Studies in the form of a letter 1977. Evans corresponded with Lady Jeffreys after Sir Harold's death. | 1989-1994 |
| A.114 | Exhibition of photographs from the Cambridgeshire Collection of Sir Harold Jeffreys, St John's College Cambridge

Newspaper cutting; covering letter. | 1991 |
| A.114A | Miscellaneous material on Sir Harold Jeffreys's natural history interests | 1914-1977 |

Biographical, A.1-A.245

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|-------------|--|-----------|
| A.115 | 'Jonas Rowbottom's Cowcake' | ca 1919 |
| | Duplicated satirical material on inefficiencies of State bureaucratization in agriculture. | |
| A.116-A.151 | Obituaries, tributes and reminiscences | 1989-1998 |
| A.116 | 'Sir Harold Jeffreys' by R. Hide, <i>Quarterly Journal of the Royal Meteorological Society</i> , 1989 | 1989 |
| | 7pp typescript. | |
| A.117 | 'Some reminiscences' by Sir Harold Jeffreys, <i>Bulletin of the Institute of Mathematics and its Applications</i> , vol 25 March/April 1989 | 1988-1989 |
| | Copy of Bulletin with Harold Jeffreys's' article; correspondence. | |
| | Published posthumously as a tribute. | |
| A.118-A.120 | 20th Anniversary Meeting of the NBER-NSF Seminar on Bayesian Inference in Econometrics and Statistics dedicated to the Memory of Sir Harold Jeffreys, Chicago, 27-28 October 1989 | 1989-1990 |
| A.118 | Programme; correspondence arising | 1989-1990 |
| A.119 | 'Sir Harold Jeffreys. remarks on my association and work with him' by V.S. Huzurbazar | |
| | 17pp typescript. | |
| | A videotape was made of this talk and a copy sent to Lady Jeffreys. | |
| A.120 | 'The contribution of Sir Harold Jeffreys to Bayesian inference' by S. Geisser (reprinted from 1980); 'Some comments on the works and influence of Sir Harold Jeffreys' by T. Leonard | |

Biographical, A.1-A.245

- A.121 'Professor Sir Harold Jeffreys F.R.S. 1891-1989. A personal account by Bertha Swirles (Lady Jeffreys)' ?1989
2pp typescript with manuscript annotation.
- A.122 'Professor Sir Harold Jeffreys (1891-1989)' by Sir Alan Cook, *Cambridge Review*, vol 11 (March 1980) 1989
15pp typescript draft sent to Jeffreys for comment; Jeffreys's comments; copy as published.
- A.123 'Harold Jeffreys' by Sir Alan Cook, lecture to Accademia Nazionale dei Lincei, Rome, 18 December 1990 1990, 1992
10pp typescript draft; copy as published (1992); covering correspondence; photographs.
The article is in Italian.
- A.124 Correspondence with A.V. Kozenko re proposed biography of Sir Harold Jeffreys 1990-1991
Kozenko visited Cambridge to consult Sir Harold's papers.
Kozenko collaborated with V.N. Zharkov on an article on Sir Harold (see A.141). His article 'Sir Harold Jeffreys, Pioneer of Modern Planetology', was published in *Optics and Astronomy. Proceedings of the XXth International Congress of History of Science*. Volume 12, 2001.
See also J.89-J.93.
- A.125-A.129 'Harold Jeffreys. Some reminiscences' by Jeffreys, *Chance* magazine, 1991 1990-1993
Chance magazine was marking the centenary of Sir Harold Jeffreys's birth.
- A.125 Proof of Jeffreys's article 1991
- A.126 5pp typescript draft of Jeffreys's article 1990

Biographical, A.1-A.245

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|--------------|---|--------------------|
| A.127 | 9pp typescript draft of biographical account by D.V. Lindley, with manuscript corrections by Jeffreys | 1990 |
| A.128, A.129 | Correspondence with D.V. Lindley and editors of <i>Chance</i>
2 folders. | 1990-1991,
1993 |
| A.130 | Untitled lecture on Sir Harold Jeffreys by M.M. Woolfson, given at Royal Astronomical Society meeting, April

19pp typescript; brief correspondence. | 1991 |
| A.131-A.133 | 'The acoustic probing of global ocean warming' by W.H. Munk, Sir Harold Jeffreys Centenary Lecture, Trinity College Cambridge, 23 April 1991 | 1990-1991 |
| A.131 | Correspondence <i>re</i> arrangements | 1990 |
| A.132 | Correspondence | 1991 |
| A.133 | Poster, menu for dinner, 3 photographs | 1991 |
| A.134-A.140 | Symposium on Relating Geophysical Structures and Processes, 20th General Assembly of the International Union of Geodesy and Geophysics, 14-15 August 1991

This symposium was known as the Jeffreys Symposium. The proceedings were published in 1993, with B.A. Bolt's contribution 'Jeffreys and the Earth' as the first chapter.

The IUGG was marking the centenary of Sir Harold Jeffreys's birth. | 1990-1994 |
| A.134 | Correspondence <i>re</i> symposium arrangements | 1990 |
| A.135 | 'Relating Geophysical Structures and Processes', eds. K. Aki and R. Dmowska, <i>Geophysical Monograph</i> 76 (1993) | |

Biographical, A.1-A.245

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|-------|---|-----------|
| A.136 | Correspondence <i>re</i> published volume | 1994 |
| A.137 | Correspondence with B.A. Bolt, including <i>re</i> article 'Jeffreys and the Earth'

The correspondence ranges widely and takes in personal news and reminiscences. | 1989-1994 |
| A.138 | 'First draft' of Bolt's article, 12pp typescript, with Jeffreys's corrections | 1992 |
| A.139 | 'Second draft' of Bolt's article, 21pp typescript, with Jeffreys's corrections | 1992 |
| A.140 | Offprint | 1993 |
| A.141 | 'The greatest geophysicist of the twentieth century' by V.N. Zharkov and A.V. Kozenko, <i>Priroda</i> no. 4 (1991)

Copies of typescript drafts and of article as published (in Russian); English translations.

Folder also includes tribute to Sir Harold by N. Kondorskaya.

See also A.124. | 1991 |
| A.142 | 'A Practical Advice', anecdote about Sir Harold Jeffreys in <i>IUCAA Bulletin</i> (India), July | 1992 |
| A.143 | Correspondence <i>re</i> Geological Society of America published Memorial to Harold Jeffreys | 1992-1993 |
| A.144 | Correspondence <i>re</i> entry on Sir Harold Jeffreys by C.A. Williams, in <i>Chambers' Dictionary of Scientists</i> | 1992-1993 |

Biographical, A.1-A.245

- A.145 'High Resolution studies of the auroral ionosphere' by P.J.S. Williams, Royal Astronomical Society Harold Jeffreys Lecture, 12 November 1993
- Notice, with apology for misspelling of surname.
- A.146 'Harold Jeffreys' 1997
- Print-out by Jeffreys from internet source, with manuscript corrections by her.
- A.147 'Sir Harold Jeffreys - An interview' by H. Spall, US Geological Survey. 1998
- Print-out by Jeffreys from internet source.
- The interview dated from 1980
- A.148 'Jeffreys, Sir Harold (1891-1989)' by A. Zellner, entry for *Encyclopedia of the Social and Behavioral Sciences* 1999
- 8pp typescript with covering letter.
- A.149-A.151 Drafts on Sir Harold by Lady Jeffreys N.d.
- These three drafts focus on his achievements as a naturalist and may be early forms of the work published as 'Reminiscences and Discoveries. Harold Jeffreys from 1891 to 1940', *Notes and Records of the Royal Society* vol 46 (1992).
- A.149 'Reminiscences of Harold Jeffreys F.R.S. (1891-1989)' 4pp typescript annotated 'DRAFT. Replaced'
- A.150 'Harold Jeffreys F.R.S., Naturalist, (1891-1989)' 14pp typescript draft annotated 'Not accepted'.

Biographical, A.1-A.245

A.161	Correspondence from friends and colleagues receiving copies of the memoir	1991
A.162-A.167	Memorials	1989-1997
A.162	Memorial to Sir Harold Jeffreys Correspondence with vicar of Longhorsley; photograph. An inscription was added to his parents' gravestone at Longhorsley, Morpeth, Northumberland.	1989-1990
A.163-A.167	The Jeffreys Building, St John's College Innovation Park The decision to name a building in the new innovation park after Sir Harold Jeffreys was made shortly before his death. In 1991 a tapestry by the artist Alison Mitchell was commissioned and later a memorial plaque and portrait were unveiled.	1990-1997
A.163	Correspondence <i>re</i> Jeffreys Building	1989-1990
A.164	St John's College printed publicity material	
A.165	Correspondence <i>re</i> tapestry	1993-1994
A.166	Correspondence <i>re</i> memorial plaque	1995-1997
A.167	Design of tapestry; wording of plaque Includes photographs of the tapestry and the portrait.	
A.168-A.181	Correspondence <i>re</i> Sir Harold Jeffreys	1915-1998
A.168	Correspondence Includes correspondence <i>re</i> Sir Harold's offprint	1989-1990

Biographical, A.1-A.245

collection and archives.

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|-------------|---|---------------------|
| A.169 | Correspondence with D. King-Hele <i>re</i> the early life of Sir Harold Jeffreys | 1991-1992 |
| A.170-A.172 | Correspondence <i>re</i> friends and colleagues and other aspects of the early life of Sir Harold Jeffreys

3 folders.

At A.171 are letters to Sir Harold 1915 and 1917. | 1915, 1917,
1991 |
| A.173 | Correspondence <i>re</i> arms of Armstrong College | 1991-1992 |
| A.174 | Correspondence with K. Crossley-Holland <i>re</i> folklore of county Durham.

Includes 1969 letter of Sir Harold with typescript of 'The Lambton Worm'. | 1992 |
| A.175 | Correspondence | 1992 |
| A.176 | 'Harold's rooms'

Contents of envelope so inscribed: information sent to Jeffreys | 1993 |
| A.177 | Correspondence with J.M. Lewis <i>re</i> photograph of Sir Harold | 1994-1995 |
| A.178-A.180 | 'Cambridge Professors and the Observatories' by Jeffreys, <i>The Observatory</i> vol 116 (1996).

Correspondence and papers <i>re</i> corrections to <i>Home is where the Wind Blows</i> by F.Hoyle

3 folders. | 1995-1996 |

/...

Biographical, A.1-A.245

/...	Jeffreys pointed out a number of errors in Hoyle's autobiography relating to his accounts of events (in which Sir Harold was involved) in Cambridge astronomy in the 1940s and 1950s.	
A.181	Correspondence	1996-1998
A.182-A.186	The work of Sir Harold Jeffreys	ca 1942-1999
	Miscellaneous material retained by Jeffreys.	
A.182	Newspaper cuttings of reports on meetings on 'Evolution of the Universe' and 'The Neutron'	N.d.
A.183	Proof of chapter 'Seismology' by Harold Jeffreys, with manuscript corrections.	ca 1942
A.184	Correspondence <i>re</i> reprinting of <i>The Theory of Probability</i>	1978-1999
A.185	Foreword to the history of the Royal Astronomical Society 1920-1980	1986
A.186	Correspondence <i>re</i> 6th edition of <i>The Earth</i>	1990
A.187-A.203	FAMILY AND LOCAL HISTORY	1871-1999
	Jeffreys was very conscious of her Northamptonshire roots.	
A.187-A.195A	Family history	1871-1999
	Correspondence, notes, newspaper cuttings, family trees etc.	/...

Biographical, A.1-A.245

/...	In alphabetical order by subject.	
A.187	Blaxley family The Blaxleys were Jeffreys's mother's family.	1909-1987
A.188	Davie family The Davies were Jeffreys's paternal grandmother's family.	1994
A.189, A.190	Lenton family 2 folders. The Lentons were Jeffreys's maternal grandmother's family.	1980-1993
A.191-A.194	Swirles family 4 folders. The Swirles were Jeffreys's father's family.	1984-1999
A.195	Collection of 'In Memoriam' cards etc Some are for members of the Blaxley and Lenton families, others do not seem to be connected to Jeffreys's family.	1871-1929
A.196-A.203	Northampton history Newspaper cuttings, memorabilia etc.	1922-1999
A.196	Abington Manor	N.d.
A.197	Northampton town	1922, 1924, 1977-1997

Biographical, A.1-A.245

A.198-A.203	Northampton School for Girls Jeffreys attended this school 1915-1921 (see A.15-A.24).	1976-1999
A.198	1976-1981	
A.199	70th Anniversary	1985
A.200, A.201	75th Anniversary 2 folders.	1990
A.202, A.203	80th Anniversary and later 2 folders.	1995, 1999
A.204-A.207	ESTATE AND ARCHIVES	1964-1999
A.204, A.205	Estate of Henrietta Swirles, mother 2 folders.	1964-1969
A.206	Correspondence <i>re</i> Sir Harold's and her own archives.	1989-1999
A.207	Letter <i>re</i> portrait given to St John's College, 1989; manuscript notes, possibly <i>re</i> disposal of book collection, n.d.	1989, n.d.
A.208-A.215	COMMONPLACE, ADDRESS AND ACCOUNT BOOKS	1907-1989, n.d.

Biographical, A.1-A.245

A.208	'DAY BOOK' Used for notes of household expenses by Jeffreys's mother 1907-1912, and by Jeffreys for household expenses and addresses 1956-1959. A little loose material at front.	1907-1912, 1956-1959
A.209	'The Shakespeare Birthday Book' inscribed 'Bertha Swirles May 22nd [19]12' on first page	1912-1974 or later
A.210	Commonplace book inscribed on first page 'Bertha Swirles. A book of extracts from prose & poetry. 1917' Loose material at front includes photograph ?of mother.	1917-1918
A.211	Pocket notebook used for household accounts	1923-1926
A.212	Address and telephone book Loose material intercalated.	N.d.
A.213	Pocket notebook used for household accounts	1979-1989
A.214	Pocket notebook used for household accounts	N.d.
A.215	Ringback notebook used for addresses, contacts, Russian language notes, jottings	N.d.
A.216-A.226	MEMORABILIA	1935-1996
A.216-A.218	Passports Three passports, covering 1958-1968, 1969-1979, 1990-2000.	1958-1990

Biographical, A.1-A.245

A.219	Leather wallet used for membership cards	1965-1999
A.220	Plastic wallet used for membership cards, chiefly Cambridge University bodies	1990s
A.221	Newspaper cuttings, transcribed poems etc. Found inside old wallet (not retained). 1959 cuttings feature Jeffreys in Australia.	1959, 1973, 1980 and n.d.
A.222	Miscellaneous certificates Membership of the Manchester Literary and Philosophical Society, 1928; Registration as a teacher and member of of the Royal Society of Teachers, 1930; Certificate of trees planted by Jeffreys in the Weizmann Forest, Israel, in the name of Bertha Blaxley, 1965.	1928, 1930, 1965
A.223	'New Statesman competition 1935' Contents of envelope so labelled: cuttings from the <i>New Statesman</i> magazine with entries for competitions.	1935
A.224	?Translation of work by Igor Belz on Claude Debussy 13pp manuscript.	N.d.
A.225	Literature and correspondence <i>re</i> Single Transferable Vote method of Proportional Representation Jeffreys was in part interested in the use of this system for College elections.	1978
A.226	Masters for circular Christmas letters	1991-1996

Biographical, A.1-A.245

A.227-A.243	PHOTOGRAPHS	?1890s- 1996, n.d.
	See also A.34, A.210, E.78, H.93A, J.31, J.81.	
A.227	Jeffreys in her pram 'aged about 6 months' 2 mounted photographs (identical but one rather faded).	ca 1903
A.228	Photographs of Jeffreys as young girl 2 mounted photographs.	1900s
A.229	School photograph of 'Northampton School for Girls 1915-16'	1915-1916
A.230	Photographs of Jeffreys aged 16 2 photographs.	ca 1919
A.231	Two photographs of Wedding Cake of Sir Harold Jeffreys and Bertha Swirles Folder also includes two shapshots of the Jeffreys's, ?on honeymoon. See also J.31.	1940
A.232	Mounted photograph of Jeffreys	?1940s
A.233	Photographs from 'Hinckley Speech Day 1955' 2 mounted group photographs.	1955
A.234	Photograph of Jeffreys and P.L. Hodges at International Conference of Women Engineers and Scientists, Cambridge	1967

Biographical, A.1-A.245

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|-------|--|-----------|
| A.235 | Portrait photographs of Jeffreys
2 mounted photographs. | 1969 |
| A.236 | Group photograph of 'Girton College Governing Body' | ?1960s |
| A.237 | Photographs of Jeffreys from visit to Japan
9 photographs. Several also feature Sir Harold Jeffreys.
See also F.16-F.21. | 1971 |
| A.238 | Photographs of Jeffreys from social gathering ?in Los Angeles
2 photographs, covering card from M. Boyarskaya. | 1992 |
| A.239 | Portrait photographs of Jeffreys
2 mounted photographs. | 1995 |
| A.240 | Photograph of Jeffreys at home | 1996 |
| A.241 | Two photographs of Jeffreys from 'Saxl-Williams wedding' | N.d. |
| A.242 | Family photographs
3 photographs of female family members. None identified. | N.d. ?19C |
| A.243 | Mounted group photograph
Possibly of a ladies educational establishment. | ?1890s |

Biographical, A.1-A.245

A.244, A.245	AUDIO CASSETTES	1989, n.d.
A.244	Recording of Kate Perry, Archivist of Girton College, interviewing Jeffreys at her home, 30 January 1989 Boots FI 90 cassette tape.	1989
A.245	Recording of Jeffreys being interviewed for Northampton School for Girls The recording begins with Jeffreys's talking about a photograph of the school. Memorex dBSI 90 cassette tape.	N.d.

SECTION B GIRTON COLLEGE CAMBRIDGE, B.1-B.43 1959-1996

Jeffreys was elected a Fellow of Girton in 1938 (Life Fellow 1969). She was Director of Studies for Music 1939-1947, and Mathematics 1949-1969. She served on the College's Governing Body and was Vice-Mistress 1966-1969.

- B.1-B.17 ADMINISTRATION
- B.18-B.28 COLLEGE HISTORY
- B.29-B.40 GIRTON CORRESPONDENCE
- B.41-B.43 MISCELLANEOUS

B.1-B.17 ADMINISTRATION 1963-1996

- B.1-B.12 Governing Body
- B.13-B.16 Directorship of Studies
- B.17 G.K. Williams Prize Fund

B.1-B.12 Governing Body 1970-1991

B.1-B.8 Papers of Meetings of the Governing Body 1970-1991

B.1 1970

Changes to College Statutes and the possible admission of men to the College.

B.2 1975-1976

Admission of men and possible 'alliance' with another College.

Girton College Cambridge, B.1-B.43

B.13-B.16	Directorship of Studies	1963-1984
	<p>Contents of folder inscribed 'Director of Studies in Mathematics 1949-1969': correspondence <i>re</i> admissions.</p> <p>Jeffreys was Director of Studies for Mathematics for the College 1949-1969.</p>	
B.13	1963-1966	
B.14	1967	
B.15	1968	
B.16	1973-1984	
B.17	G.K. Williams Prize Fund	1991-1996
	<p>This fund for helping Girton graduates with the cost of professional legal training, was established by Cicely Mary Williams (1920-1995), a Girton graduate, in memory of her husband G.K. Williams.</p>	
B.18-B.28	COLLEGE HISTORY	1980, 1992, n.d.
B.18-B.25	Girtonians	N.d.
	<p>Biographical material on Girtonians assembled by Jeffreys.</p> <p>May include biographical accounts, obituaries and orders of service (funeral and memorial), and correspondence. It is assembled over many years and includes earlier material.</p>	
B.18	Sylvia Mary Benians; Barbara Leigh Smith Bodichon; Muriel Clara Bradbrook; Helen Maud Cam; Mary L. Cartwright	

Girton College Cambridge, B.1-B.43

- B.19 Beryl Durrant
- Includes correspondence *re* 1918 Armistice Day celebrations at Girton College, and typescript drafts of tribute to Durrant by Jeffreys for the Girton College Newsletter.
- B.20 Muriel Kathleen Grindrod
- Includes manuscript draft of obituary by Jeffreys for the Girton College Newsletter.
- B.21 Norah C. Jolliffe; Barbara Mary Middlehurst; Kathleen Mary Peace; Brenda Edith Ryman
- Includes Jeffreys' obituary of Middlehurst in *Q. J. R. astr. Soc.* vol 36 (1995).
- B.22 E. Winifred Parsons
- B.23 Edith Shuttleworth
- B.24 Mary Taylor
- Includes manuscript and typescript drafts of obituary by Jeffreys for Girton College Newsletter.
- B.25 Muriel B. Thomas; Doris Wheatley; Grace Grisholm Young
- B.26 Yarrow Scientific Awards 1980
- Information *re* recipients of Yarrow Fellowships, Studentships and Funds.
- The Yarrow Awards (after Sir Alfred Yarrow) were established at Girton in 1914.

Girton College Cambridge, B.1-B.43

B.27	Miscellaneous material relating to Girton College of historical interest Includes 'A day of my life at Girton' by A. Cunningham from <i>The Empire Annual for Girls</i> 1910, and material relating to Emily Davies (Mistress 1872-1875).	N.d.
B.28	Newspaper cuttings relating to Girton	1992
B.29-B.40	GIRTON CORRESPONDENCE Series of correspondence kept together by Jeffreys and identified as correspondence with Girtonians. Many of the correspondents also feature in section J.	1959-1980, n.d.
B.29	'Letters from Girton Fellows to BJ in Australia 1959' Contents of envelope so inscribed.	1959
B.30-B.34	'Letters from Girtonians (mostly Mathematics graduates)' Contents of envelope so inscribed: correspondence including personal and career news, reminiscences and requests for advice.	1964-1980
B.30	1964-1967	
B.31	1968-1969	
B.32	1970	
B.33	1971-1972	
B.34	1974-1975, 1980, n.d.	

Girton College Cambridge, B.1-B.43

B.35-B.40	'Girton'	1963-1980
	Contents of file so labelled: correspondence including personal and career news, reminiscences and requests for advice.	
B.35	1963, 1974-1975	
	One letter only for 1963.	
B.36	1976	
B.37	1977	
B.38	1978	
B.39	1979	
B.40	1980	
B.41-B.43	MISCELLANEOUS	1988-1994
B.41	Jeffreys's gift of a Bechstein grand piano to Girton College	1988
	See also J.186.	
B.42	Jeffreys's gift of computer and printer to the College Library	1988
B.43	Miscellaneous correspondence	1988, 1991, 1994

SECTION C

RESEARCH, C.1-C.81

**1925-1983
and n.d.**

The documentation of Jeffreys's research is not extensive. However, there is good documentation of her most significant periods of research. There are a few notebooks from her period as a research student under R.H. Fowler in Cambridge in the mid-1920s but the bulk of the material is in the form of a series of labelled research folders organised by topic containing notes and drafts, calculations and offprints. A number of the items in the series are accompanied by later explanatory notes by Jeffreys. The series includes material from the winter semester of 1927-1928 spent in Göttingen, where she worked under Max Born and Werner Heisenberg; from the late 1920s relating to her research on polarization of atomic cores, a topic suggested to her by D.R. Hartree; work on degenerate gases in the 1930s; and on the relativistic self-consistent field from the 1930s through to the 1970s. Research material from after her marriage includes work in the 1950s on Multipole Radiation.

There is only a little material illustrative of her developing interest in areas of study introduced to her by her husband, although there is additional material preserved in the archive of Sir Harold.

Other miscellaneous research papers include some documentation of the work of a former student Mary Walmsley from the 1960s and early 1970s.

It is arranged as follows:

C.1-C.4	POSTGRADUATE NOTEBOOKS
C.5-C.60	RESEARCH FOLDERS
C.61-C.81	OTHER RESEARCH MATERIAL

Research, C.1-C.81

C.1-C.4	POSTGRADUATE NOTEBOOKS	1925-1927
C.1	<p>Hardback notebook inscribed 'ABSTRACTS I' on front cover</p> <p>Inscribed inside front cover 'Bertha Swirles Girton College' and 'May 1925-December 1926'. Used for notes on the literature. Paginated 1-158.</p>	1925-1926
C.2	<p>Hardback notebook inscribed 'ABSTRACTS II' on front cover</p> <p>Inscribed inside front cover 'Bertha Swirles Girton College' and 'December 1926'. Used to 1940 for notes on the literature. Paginated (incomplete) 1-107.</p>	1926-1940
C.3	<p>Hardback notebook inscribed 'BERTHA SWIRLES' on front cover and 'RELATIVITY' on spine</p> <p>Inscribed inside front cover 'Theory of Relativity' and 'December 1925'. Includes notes on the literature.</p>	1925
C.4	<p>Hardback notebook inscribed 'BERTHA SWIRLES' and labelled 'QUANTUM THEORY' on front cover</p> <p>Paginated 1-360. Includes notes on the literature, notes on lectures by R.H. Fowler (from p73 and p258), Dirac (from p162).</p> <p>Between pp 60-61 is correspondence from D.R. Hartree with calculations.</p>	1925-1927
C.5-C.60	RESEARCH FOLDERS	1925-1978
	<p>This sequence is Jeffreys's own arrangement of folders on specific research topics. The bulk are identified by Jeffreys herself by index cards (C.6) and a filing cabinet index (C.7). Many correspond to publications by Jeffreys and appropriate cross-references are included.</p>	

Research, C.1-C.81

C.5	<p>Box of index cards labelled 'Bertha Jeffreys', used for listing research folders, arranged by topic and numbered</p> <p>The research topics are numbered 1-9, 0 and 1A-3A and correspond to those identified also in the filing cabinet index at C.6.</p> <p>Some of the index cards have notes on the physical location of the material and the bulk relate to identified folders.</p> <p>Other sets of index cards in the box were used to record notes, letters etc on historical and other topics. There are sets of cards on Ebenezer Cunningham, Philip Jourdain, 'Letters concerning Committee on Teaching of Mathematics to Physicists 1943-5', and other topics.</p>	1990s
C.6	<p>Filing cabinet index to research folders</p>	N.d.
C.7	<p>'Polarisation of cores on Kramer's and Heisenberg's theory'</p> <p>Contents of folder so inscribed: letter from D.R. Hartree, October 1925; copy of Zeitschrift für Physik vol 36 no. 2 (1926), with manuscript calculations inserted in article by A. Unöld, 'Über die Termgrößen der Serienspektren'; manuscript notes.</p>	1925, 1926
C.8-C.13	<p>'Polarisation of atomic cores' and 'Internal conversion'</p> <p>Contents of folder so labelled (at a later date).</p> <p>At C.8 is an explanatory note by Jeffreys, 1978.</p> <p>See also D.1, D.2 and D.3, D.4.</p>	1927-1992
C.8	<p>Explanatory note by Jeffreys, beginning ' "The polarisation of atomic cores" was before Quantum Mechanics (just!)</p>	1978
C.9	<p>'Some applications of the theory of perturbations in the Quantum Mechanics', Jeffreys's Ph.D. thesis</p> <p>83pp typescript, with a few later manuscript calculations intercalated.</p>	1929

Research, C.1-C.81

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|------------|--|---------------------------|
| C.10 | Offprint of 'The internal conversion coefficient for radium C' by H.R. Hulme, <i>Proceedings of the Royal Society A</i> , vol 138 (1932), with manuscript notes by Jeffreys at front. | 1932 |
| C.11 | Later manuscript calculations

These appear to be reworkings of calculations ?in Jeffreys's Ph.D. thesis and early publications. | 1976, 1978,
1992, n.d. |
| C.12, C.13 | Offprints by others, some with minor annotations by Jeffreys

2 folders. | 1927-1936 |
| C.14 | 'Rydberg-Ritz formula in Wave Mechanics'

Contents of folder so inscribed: notes and calculations on the Rydberg-Ritz formula and work of Schrödinger. | ca 1927-ca
1930 |
| C.15-C.18 | '1931-3 Stellar opacity'

Contents of folder so labelled (at a later date).

At C.15 is an explanatory note by Jeffreys, 1978.

See also D.5, D.12. | 1931-1942,
1978 |
| C.15 | Explanatory note by Jeffreys, 1978; correspondence with E.A. Milne, May 1931 | 1931, 1978 |
| C.16 | Offprint of 'The co-efficients of absorption and opacity of a partially degenerate gas' by Jeffreys (see D.12) with later corrections intercalated; manuscript calculation of 'Absorption per unit intensity...' | 1933 |
| C.17 | Manuscript notes on 'Stellar interiors' dated February 1935 (Students' Colloquium); manuscript calculations 1939, 1942 | 1935-1942 |

Research, C.1-C.81

C.18	Manuscript calculations	N.d.
C.19-C.27	<p>'The Relativistic S.C.F.'</p> <p>Contents of folder so labelled (at a later date): correspondence, notes and calculations on the Relativistic Self-Consistent Field.</p> <p>At C.19 is an explanatory note by Jeffreys, 1978.</p> <p>The mathematical technique known as the Relativistic Self-Consistent Field method (now known as the Hartree-Fock method, see C.74) is an approximate method for the determination of the ground-state wavefunction and ground-state energy of a quantum many-body system.</p> <p>The three following folders (C.28-C.34, C.35-C.37 and C.38-C.43) also included material relating to the Relativistic Self-Consistent Field method.</p> <p>See also D.12A and D.13.</p>	1935-1976
C.19	Explanatory note by Jeffreys, '[...] After the conference in London in 1934 D.R.H. [Hartree] suggested setting up the equations for the relativistic self-consistent field [...]	1978
C.20-C.22	Manuscript drafts of 'The Relativistic Self-Consistent Field'	ca 1935
	3 folders.	
C.23	Manuscript drafts on 'The wave-mechanics of an atom with 10 electrons' and 'treatment by quantum mechanics of a many-electron atom'	N.d.
C.24	Manuscript 'Corrections and additions' to 'The Relativistic Self-Consistent Field', sent to D.R. Hartree, 1947	1947
C.25	Correspondence from I.P. Grant 1961-1964 and E.H. Sondheimer 1972 on relativistic self-consistent fields	1961-1972

Research, C.1-C.81

C.26, C.27	Manuscript notes and calculations 2 folders.	N.d.
C.28-C.34	'Helium triplets 1936' Contents of folder so labelled (at a later date): correspondence, notes and calculations. At C.28 is an explanatory note by Jeffreys, 1977 and 1992.	1936-1992
C.28	Explanatory note by Jeffreys beginning, 'This was a laborious piece of work and the comparison with [I.P.] Grant's work was never fully worked out...I tried about 1950 to do this but without success', 1977 with 1992 addition	1977, 1992
C.29	Correspondence to Jeffreys	1936, 1952
C.30	Manuscript draft beginning, 'The method of the s.c.f. has proved extremely fruitful in giving accurately the position of spectral terms [...]'	
C.31	Sets of manuscript calculations numbered I-VI	
C.32, C.33	Manuscript calculations 2 folders	
C.34	Offprints by Gentaro Araki	1937, 1939
C.35-C.37	'Gray & Wills method for J-J coupling 1938' Contents of folder so labelled (at a later date): correspondence, notes and calculations.	1936, n.d.

Research, C.1-C.81

- C.35 Letter from E.H.S. Burhop, 31 March, enclosing offprint of 'The relativistic theory of the Auger Effect' by Burhop and H.S.W. Massey, *Proceedings of the Royal Society A* vol 153 (1936) 1936
- C.36 Manuscript drafts on 'The interaction of two electrons taking into account retardation in the self-consistent field method' and the Gray and Wills method
- C.37 Manuscript calculations
- C.38-C.43 '1942 Anomaly in spectrum of O⁺⁺' ca 1940-ca 1942
- C.38 Offprint of 'Self-Consistent Field, including exchange and superposition of configurations, with some results for oxygen' by Jeffreys, D.R. Hartree and W. Hartree, with pages of manuscript calculations intercalated ca 1940
See also D.15.
- C.39 Typescript and manuscript rough draft of 'Note on an Anomaly in the Spectrum of O⁺⁺' by Jeffreys ca 1942
Published in *Proceedings of the Cambridge Philosophical Society*, vol. 38, part 3 (1942), 290-295.
See also D.20.
- C.40 Manuscript tables ?of results of calculations, some in softback exercise book
- C.41-C.43 Manuscript calculations and notes
3 folders.
- C.44-C.48 'Multipoles 1950-1952' 1950-1960
Contents of folder so labelled (at a later date):
correspondence and notes relating to 'The Classification

Research, C.1-C.81

of Multipole Radiation', *Proceedings of the Cambridge Philosophical Society*, vol 48, (1952).

At C.44 is an explanatory note by Jeffreys, 1978 and 1992.

See also D.35.

- | | | |
|-----------|---|------------|
| C.44 | Correspondence | 1950-1960 |
| C.45 | Manuscript and typescript draft of 'The Classification of Multipole Radiation' | |
| C.46 | Typescript draft of 'The Classification of Multipole Radiation' | |
| | With covering note as sent to unidentified colleague. | |
| C.47 | Letter from M. Fierz, 25 November 1950, with manuscript notes on work of Fierz | 1950 |
| C.48 | Letter from T.A.S. Jackson, 10 August 1954, with manuscript notes | 1954 |
| C.49 | 'Quantum defect method etc' | 1961, 1964 |
| | Contents of folder so labelled: correspondence with M.J. Smeaton, 1961, arising from equations in Smeaton's article, 'The Quantum Defect Method', <i>Monthly Notices of the Royal Astronomical Society</i> vol 118 (1958) copy enclosed. Also some manuscript notes and calculations, 1964. | |
| C.50-C.56 | 'Tesseral harmonics 1964-74' | 1964-1975 |
| | Contents of folder so labelled (at a later date). | |
| | At C.50 is an explanatory note by Jeffreys, 1978, headed 'Representation of the Rotation Group'. | |
| | The material chiefly relates to a discrepancy between a | |

Research, C.1-C.81

result in Jeffreys's article, 'Transformation of Tesseral Harmonics under Rotation', *Geophys. J.* vol 10 (1965), 141-145, and a formula of A.R. Edmonds in his book *Angular Momentum in Quantum Mechanics* (first published 1957).

- C.49 See also D.44.
- C.50 Correspondence; 'The history of the Clebsch-Gordan Series' by Jeffreys, 4pp typescript, 1964
See also C.57-C.60.
- C.51 'R.R. Allan Archie McKerrell' 1966-1968
Contents of envelope of inscribed: correspondence with Allan and McKerrell on Edmonds's equations.
Also includes 'Transformation of Spherical Harmonics under Rotation' by Allan, 6pp photocopy manuscript.
- C.52 'R.W. James' 1969
Contents of envelope of inscribed: correspondence with James and K.E. Bullen. Includes photocopy of 'A Taylor Series approach to the rotation and evaluation of spherical harmonics'.
Spiral bound notebook used for notes on the literature
- C.53 Correspondence with Edmonds, with photocopies of sections of *Angular Momentum in Quantum Mechanics* (1957 and 1968 editions); manuscript notes; other related correspondence
- C.54-C.56 Sets of manuscript notes and calculations, chiefly on work of Edmonds
3 folders.
- C.57-C.60 'Clebsch-Gordan Series' 1963-1978
Contents of folder so labelled (at a later date): correspondence and papers *re* history of the Clebsch-Gordan series arising from 'Clebsch-Gordan Coefficients'

Research, C.1-C.81

of Multipole Radiation', *Proceedings of the Cambridge Philosophical Society*, vol 48, (1952).

At C.44 is an explanatory note by Jeffreys, 1978 and 1992.

See also D.35.

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|-----------|---|------------|
| C.44 | Correspondence | 1950-1960 |
| C.45 | Manuscript and typescript draft of 'The Classification of Multipole Radiation' | |
| C.46 | Typescript draft of 'The Classification of Multipole Radiation' | |
| | With covering note as sent to unidentified colleague. | |
| C.47 | Letter from M. Fierz, 25 November 1950, with manuscript notes on work of Fierz | 1950 |
| C.48 | Letter from T.A.S. Jackson, 10 August 1954, with manuscript notes | 1954 |
| C.49 | 'Quantum defect method etc' | 1961, 1964 |
| | Contents of folder so labelled: correspondence with M.J. Smeaton, 1961, arising from equations in Smeaton's article, 'The Quantum Defect Method', <i>Monthly Notices of the Royal Astronomical Society</i> vol 118 (1958) copy enclosed. Also some manuscript notes and calculations, 1964. | |
| C.50-C.56 | 'Tesseral harmonics 1964-74' | 1964-1975 |
| | Contents of folder so labelled (at a later date). | |
| | At C.50 is an explanatory note by Jeffreys, 1978, headed 'Representation of the Rotation Group'. | |
| | The material chiefly relates to a discrepancy between a | |

Research, C.1-C.81

- | | | |
|-----------|---|---------------|
| C.65 | Hardback notebook inscribed inside front cover 'Dennis V. Lindley [...]' | 1975-1982 |
| | Used for notes on the literature and calculations 1975, June 1981 and May-September 1982. Most pages not used. | |
| | Loose material at front. | |
| C.66 | 'Escape of gases from the atmosphere' | 1979 |
| | Correspondence with D.G. King-Hele; manuscript calculations | |
| C.67 | Miscellaneous notes and correspondence found in plastic wallet | 1983 and n.d. |
| C.68 | 'Dynamics of rigid bodies' | N.d. |
| | Contents of folder so labelled: manuscript notes and calculations. | |
| C.69-C.73 | 'Dynamics' | N.d. |
| | Contents of folder so labelled: manuscript notes, some in paginated sequences or fragments thereof, and calculations. | |
| | May include teaching material. | |
| | 5 folders. | |
| C.74 | Note headed 'Hartree-Fock' | N.d. |
| | 10pp manuscript. | |
| C.75 | Note headed 'Zwaan's method & the Stokes phenomenon' | N.d. |
| | 12pp manuscript. | |

Research, C.1-C.81

C.76	1p typescript note on equation in <i>Conduction of Heat in Solids</i> by H.S. Carslaw and J.C. Jaeger (1959)	1963
C.77	Miscellaneous typescript and manuscript notes and calculations found loose	N.d.
C.78	Ring bound notebook used for bibliographical references	1930s
C.79	Large format index cards used for bibliographical references Latest date 1957. Some annotated with notes and calculations by Jeffreys.	1950s
C.80, C.81	'M. Walmsley' Contents of folder so labelled: correspondence, calculations, note and offprint from work of Walmsley. Mary Walmsley entered Girton College in 1960. After undergraduate studies she went on to research at the Mathematical Institute, Oxford, under C.A. Coulson before moving to the University of Leicester. See also C.139.	1960-ca 1973
C.80	Correspondence, mathematical problems, offprint	1960, 1965-1967
C.81	Typescript draft on 'Lower Bound Calculations' and 'Bound stress of a Finite Electric Dipole'; calculations, including on E.E.G.	N.d., ca 1973

SECTION D PUBLICATIONS, D.1-D.80 1926-1995

D.1-D.74 DRAFTS AND ARTICLES

D.75-D.80 BOOK REVIEWS

D.1-D.74 DRAFTS AND ARTICLES 1926-1995

This material complements section C, Research. A number of publications relate to research folders in section C. Cross-references are included where appropriate. There is also more coverage of Jeffreys's later mathematical interests, which are under-represented in section C. The single largest component here documents 'A Q-rious tale: the origin of the Parameter Q in electromagnetism', *Q. Jl R. astr. Soc.* vol 26 (1985), 51-52 and 'A footnote to "A Q-rious tale" ', *Q. Jl R. astr. Soc.* vol 27 (1986), 693-694.

For material relating to Jeffreys's reminiscences and accounts of Sir Harold Jeffreys see A.116-A.151.

For 'Cambridge Professors and the Observatories' by Jeffreys, *The Observatory* vol 116 (1996) see A.178-A.180.

For Jeffreys's biographical reminiscences of D.R. Hartree and offprints of two papers with him see H.47, H.48.

D.1, D.2 'The polarisabilities of atomic cores', *Proceedings of the Cambridge Philosophical Society* (1926) 1926

See also C.8-C.13.

D.1 Offprint; manuscript draft stamped 'Received 5 Jul. 1926'

D.2 Earlier manuscript draft; list of Cambridge Philosophical Society papers July 1926.

D.3 'The Internal Conversion of Gamma Rays', *Proceedings of the Royal Society A*, vol. 116, (1927), 491-500 1927

Publications, D.1-D.80

- Offprint.
See also C.8-C.13.
- D.4 'The Internal Conversion of Gamma Rays - Part II', 1928
Proceedings of the Royal Society A, vol. 121, (1928),
447-456

Offprint.
See also C.8-C.13.
- D.5 'The absorption coefficient of a degenerate gas', *Monthly* 1931
Notices of R.A.S., vol. 91 no. 8 (June 1931), 857-862

Offprint (2 copies).
See also C.15-C.18.
- D.6 'The practical determination of self-consistent field of 1931
atoms'

55pp typescript, inscribed '(Revised, Oct '31)'.

D.7-D.11 'Book on Mechanics with DRH [Hartree] 1931' 1931

Contents of folder so labelled: drafts of chapters.
No evidence of publication.
- D.7 'Chapter 2. Vectors'

Typescript draft with manuscript corrections.
- D.8 'Chapter 2. Vectors'

Typescript draft with covering note 'This is the second
draft of this chapter [...]'
- D.9 'Chapter 4. The Laws of Motion'

Typescript draft annotated '2nd copy'.

Publications, D.1-D.80

- D.10 'Chapter 9. Motion of a System of Particles'
Typescript draft.
- D.11 Manuscript notes paginated 1-5, 20-35 found therewith.
- D.12 'The co-efficients of absorption and opacity of a partially
degenerate gas', *Proceedings of the Royal Society A*, vol.
141 (1933), 554-566 1933

Offprint (2 copies).
See also C.15-C.18.
- D.12A 'The relativistic Self-Consistent Field', *Proceedings of the
Royal Society A*, vol. 152 (1935), 625-649 1935

Annotated offprint.
See also C.19-C.27.
- D.13 'The relativistic interaction of two electrons in the Self-
consistent Field method', *Proceedings of the Royal
Society A*, vol. 157 (1936), 680-696 1936

Offprint (2 copies, one inscribed 'Copy with some
corrections').
See also C.19-C.27.
- D.14 'The Construction of Zero Order Wave Functions for
Complex Atoms', *Memoirs & Proceedings of the
Manchester Literary and Philosophical Society*, vol 82
(Jan 1938), 21-28 1938

Offprint (2 copies).
- D.15 'Self-Consistent Field, including exchange and
superposition of configurations, with some results for
oxygen' with D.R. Hartree and W. Hartree, *Philosophical
Transactions of the Royal Society of London A*, vol. 238
(1939), 229-247 1939

Publications, D.1-D.80

Offprint, inscribed 'Copy with corrections'.

See also C.38.

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|------------|--|-----------|
| D.16-D.19 | 'Ch. IX. Central Orbits. J. Toft 26.10.39' | ?1939 |
| | Contents of folder so inscribed. Folder also labelled (at a later date) 'Central Fields'. | |
| D.16, D.17 | 'Chapter 9 Central Orbits' | |
| | Manuscript draft paginated 1-38 (lacks pages 25-27); list of contents. | |
| | The draft has annotations in the margin suggesting corrections or unclear points. It is not clear whether this draft is an original work by Jeffreys or a translation, possibly from the German. | |
| | 2 folders. | |
| D.18, D.19 | Manuscript notes | |
| | Includes notes on 'Elliptic motion', 'Periodic motion' and 'Motion of comet' | |
| | 2 folders. | |
| D.20 | 'Note on an Anomaly in the Spectrum of O ⁺⁺ ',
<i>Proceedings of the Cambridge Philosophical Society</i> , vol. 38, part 3 (1942), 290-295 | 1942 |
| | Offprint (2 copies). | |
| | See also C.39. | |
| D.21-D.24 | 'Note on the Transparency of a Potential Barrier',
<i>Proceedings of the Cambridge Philosophical Society</i> , vol. 38, part 4 (1942), 401-405 | 1942-1994 |
| D.21 | Proof; offprint | 1942 |

Publications, D.1-D.80

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|-----------|---|---------------------------|
| D.22-D.24 | 'Potential barriers 1942 + 1956' | 1942, 1956,
1977, 1994 |
| | <p>Contents of folder so labelled divide into three for ease of reference: 1994 typescript note on the use by Harold Jeffreys and Bertha Swirles of the Wentzel-Kramers-Brillouin Approximation and the potential barrier problem; manuscript calculations, some dated 1956 and 1977.</p> <p>The folder also contained offprints of 'Note on the Transparency of a Potential Barrier', <i>Proceedings of the Cambridge Philosophical Society</i>, vol. 38 (D.21) and 'The Use of the Airy Functions in a Potential Barrier Problem', <i>Proceedings of the Cambridge Philosophical Society</i>, vol 52 (D.36).</p> | |
| D.25-D.34 | <i>Methods of Mathematical Physics</i> , with Harold Jeffreys, Cambridge University Press, 1st ed. 1946 | 1946-1978 |
| | <p><i>Methods of Mathematical Physics</i>, co-authored by the Jeffreys, became one of the most influential and widely used textbooks providing 'an account of those parts of pure mathematics that are most frequently needed in physics'. The review of the first edition in the <i>Proceedings of the Physical Society</i> concluded, 'There must be very few major techniques in theoretical physics which are not explained here and illustrated by some genuine examples. It remains, and is likely to continue for many years, an almost indispensable work of reference for anyone attempting research in theoretical physics.'</p> <p>It ran to a number of subsequent editions, including a paperback edition in 1972, was also reprinted, most recently in 1999, and was translated into a number of languages.</p> <p>The material presented here should be consulted in conjunction with the documentation preserved in Sir Harold's archive.</p> | |
| D.25 | Letters of appreciation

From A.S. Besicovitch and L.F. Richardson. | 1946, 1947 |
| D.26 | Reviews of 1st edition | 1947-1949 |
| D.27-D.29 | Corrections for 1962 reprinting

Correspondence <i>re</i> reprint and corrections; corrected | 1961 |

Publications, D.1-D.80

	pages of proof; manuscript and typescript corrections. 3 folders	
D.30	Letter <i>re</i> Russian language translation	1970
D.31-D.33	'MMP paperback. Working' Contents of folder so labelled divided into three for ease of reference: manuscript notes and calculations.	1977
D.34	'MMP' Contents of envelope so inscribed: correspondence <i>re</i> error in <i>Methods of Mathematical Physics</i> and possible 4th edition; manuscript calculations	1978
D.35	'The Classification of Multipole Radiation', <i>Proceedings of the Cambridge Philosophical Society</i> , vol 48, part 3 (1952), 470-481 Offprint (2 copies). See also C.44-C.48.	1952
D.36	'The Use of the Airy Functions in a Potential Barrier Problem', <i>Proceedings of the Cambridge Philosophical Society</i> , vol 52, part 2 (1956), 273-276 Offprint (2 copies). See also D.22-D.24.	1956
D.37-D.39	'The Asymptotic Approximation (AA) Method', chapter 7 in ed. D. R. Bates, <i>Quantum Theory</i> vol 1, Academic Press, New York, 1962, 229-249 Reprinted 1966	1957-1966
D.37	Correspondence, chiefly with Bates	1957-1958

Publications, D.1-D.80

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|-----------|--|--------------------|
| D.38 | Correspondence, chiefly <i>re</i> corrections | 1960-1961,
1966 |
| D.39 | Proofs, with manuscript list of corrections; offprint | 1960, 1961 |
| D.40-D.43 | <i>Coulomb wave functions</i> by A.R. Curtis, prepared under the direction of the Coulomb Wave Functions Panel of the Mathematical Tables Committee, Royal Society, Cambridge University Press, 1964.

Jeffreys wrote an introduction to the volume. | 1948-1962 |
| D.40 | 'Coulomb Wave Functions by A.R. Curtis prepared under the direction of the Coulomb Wave Functions Panel of the Mathematical Tables Committee'

Draft tables. | ca 1961 |
| D.41 | Correspondence, chiefly with A.R. Curtis <i>re</i> Jeffreys's introduction. | 1960-1962 |
| D.42 | 'Coulomb Wave Function & D.R.H[artree]. I-IV'

Contents of envelope so inscribed: correspondence; manuscript notes. | 1948, 1950 |
| D.43 | 'Coulomb Wave Function Tables'

Contents of folder so inscribed: paper of the Royal Society Panel on Coulomb Wave Functions of the Mathematical Tables Committee, 1953; Jeffreys's manuscript notes. | 1953 |
| D.44 | 'Transformation of Tesseral Harmonics under Rotation', <i>Geophys. J.</i> vol 10 (1965), 141-145

Offprint (2 copies).

See also C.50-C.56. | 1965 |

Publications, D.1-D.80

- D.45 Correspondence *re* possible translation of *Terrestrial Magnetism* by B.M. Yanovsky 1970
- It was proposed by Israel Science Services to make a translation into English with Jeffreys 'vetting' the translation. The proposal was later abandoned
- D.46 'Euleriana', *Eureka* no. 35 (Oct 1972), 26-30 1972
- Correspondence; 8pp typescript draft; manuscript notes; copy of *Eureka* no. 35.
- Eureka* was the journal of the Archimedean.
- D.47 Letter in support of better teaching of mathematics, to the *Bulletin of the Institute of Mathematics and its Applications* 1977
- Typescript drafts; manuscript notes.
- This was written following contributions by Mr Lyness and Dame Kathleen Ollerenshaw in the *Bulletin* (June 1977).
- D.48-D.50 'The use of vectors in mechanics', *Mathematical Gazette*, vol 62 (1983), 55 1977-1980
- D.48 Correspondence *re* submission of article; offprint (2 copies) 1977, 1978
- D.49 Correspondence arising, chiefly with C.D. Darlington and R.A. Lyttleton 1978, 1980
- D.50 Manuscript notes
- D.51 Letter by Jeffreys on Augustus de Morgan and the four-colour problem, *Mathematical Gazette*, ca 1979
- See also E.79.

Publications, D.1-D.80

- | | | |
|-----------|--|------------|
| D.52 | 'Tidal friction in historical time and in the remote past',
<i>Geophysical Journal</i> vol 73 (1983), 765 -768

Offprint (2 copies). | 1983 |
| D.52A | Letter by Jeffreys on John Couch Adams and College
mathematical societies, to <i>Eureka</i> . | 1983 |
| D.53 | 'A familiar tensor identity and the Kronecker delta', Letter
to the <i>Bulletin of the Institute of Mathematics and its
Applications</i> , vol 21 (1985), 47

Correspondence; typescript draft; proof; photocopy of
published Letter; manuscript calculations. | 1984, 1985 |
| D.54-D.65 | 'A Q-rious tale: the origin of the Parameter Q in
electromagnetism', <i>Q. Jl R. astr. Soc.</i> vol 26 (1985), 51-
52

See also D.66. | 1985 |
| D.54-D.60 | Correspondence on Q

Contents of Jeffreys's correspondence file on Q,
organised by alphabetical divider. | 1983-1987 |
| D.54 | A., B. | 1983-1987 |
| D.55 | D. | 1983-1986 |
| D.56 | G.-K. | 1984-1986 |
| D.57 | L., M. | 1983, 1986 |
| D.58 | O., R. | 1983-1986 |
| D.59 | S. | 1985, 1986 |

Publications, D.1-D.80

D.60	W., Z.	1985, 1986
D.61-D.63	'Correspondence on "Q" ' Contents of folder so labelled	1985-1987
D.61	Drafts of articles on Q by P.B. Fellgett and K.L.Smith	ca 1985
D.62	Correspondence <i>re</i> submission of 'A Q-rious tale'	1986--1987
D.63	'Why Q?', manuscript notes so titled, and other manuscript notes	
D.64	3pp typescript draft; proof; offprint (2 copies, one annotated).	
D.65	Photocopy background information on Q.	
D.66	'A footnote to "A Q-rious tale" ', <i>Q. Jl R. astr. Soc.</i> vol 27 (1986), 693-694 2pp corrected typescript draft; proof; offprint. See also D.54-D.65.	1986
D.67-D.70	'A Cambridge Research Student in the 1920s', in ed. R. Williamson <i>The Making of Physicists</i> , Adam Hilger, Bristol, 1987 This volume was initiated by the History of Physics Group of the Institute of Physics, following a one-day symposium 'The Education of Physicists Between the Wars' at the Manchester Museum of Science and Industry, 30 October 1985.	1985-1987
D.67	Correspondence, with publishers and editor, and other contributors	1985-1987

Publications, D.1-D.80

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|------------------|--|------------------|
| D.68 | 14pp typescript draft | |
| D.69, D.70 | Manuscript drafts
2 folders. | |
| D.71-D.73 | 'Derivations of the equation for the field lines of an axisymmetric multipole' <i>Geophysical Journal</i> vol 92 (1988), 355-356 | 1987-1988 |
| D.71 | Correspondence; typescript draft. | 1987-1988 |
| D.72 | Proof; offprint. | |
| D.73 | Manuscript notes | |
| D.74 | 'Barbara Mary Middlehurst (1915-1995)' <i>Q. Jl R. astr. Soc.</i> vol 36 (1995), 461-462

Offprint (2 copies). See also H.71-H.75. | 1995 |
| D.75-D.80 | BOOK REVIEWS | 1962-1972 |
| D.75 | Review of: <i>An introduction to phase-integral methods</i> by J. Heading, Methuen, 1962, for <i>Phil. Mag.</i>

Includes correspondence with Heading; typescript draft; manuscript notes. | 1962 |
| D.76 | Review of: <i>Lagrangian Dynamics</i> by C.W. Kilmister, Logos, 1967, for <i>Mathematical Gazette</i>

Two typescript drafts; offprint. | c 1967/1968 |

Publications, D.1-D.80

- D.77 Review of: *Vector and Tensor Analysis with applications* 1969, 1970
by A.I. Borisenko and I.E. Tarapove, trans. and ed. R.A.
Silverman, Prentice-Hall, 1967, for the *Mathematical*
Gazette
- Offprint and later correction.
- D.78 Reviews of: *Ordinary Differential Equations* by F. Brauer 1970/1971
and J.A. Nohel, New York 1970 and *Vector Analysis for*
Mathematicians, Scientists and Engineers by S. Simons,
Pergamon 1970 , for the *Mathematical Gazette*
- Offprints.
- D.79 Review of: *Natural Science in Education*, HMSO, 1918, ca 1970
for the *Mathematical Gazette*
- Covering letter 1970; typescript draft and offprint;
background material.
- This 'belated' review was intended to draw attention to
long-standing recommendations regarding education in
mathematics and science.
- D.80 Review of: *Physical Applications of Vectors and Tensors* 1971-1972
by H. Teichmann, trans. C.W. Kilmister, Harrap 1969, for
the *Mathematical Gazette*
- Includes correspondence; typescript draft; offprint.

SECTION E	LECTURES, E.1-E.91	1927-1995, n.d.
	E.1-E.53	TEACHING
	E.54-E.91	PUBLIC AND INVITATION LECTURES
E.1-E.53	TEACHING	1930s-1969, n.d.
	E.1-E.8	University of Manchester
	E.9-E.53	University of Cambridge
E.1-E.8	University of Manchester	1930s
E.1-E.3	'Manchester Lecture schedules 1936-7' Contents of envelope so inscribed (at a later date): manuscript outlines for lectures.	1936-1937
E.1	Course IIIa, '?Partial diffn'	
E.2	Course VIII, 'Foundation of the integral var.n' Jeffreys is identified as the lecturer.	
E.3	Course IX '?Calculus of observations'	
E.4-E.8	'Special Theory of Relativity Manchester 1930s' Contents of folder so inscribed (at a later date): manuscript lecture notes. Also includes loose note by Jeffreys 1992, 'Notes of lectures given at Manchester in the 1930s' (retained at E.4).	1930s
E.4	'The Michelson-Morley experiment'	

Lectures, E.1-E.91

E.5	'Refractive index of an ionised or non-ionised medium'	
E.6	'Theory of electrons'	
E.7	'Waves & particles' and 'Maxwell's equ[ation]s...'	
E.8	'Curvilinear coordinates'	
E.9-E.53	University of Cambridge	1946-1969, n.d.
	The bulk of this material is manuscript lecture notes, sometimes paginated in sequences though often with unnumbered pages intercalated. It appears from the variety of inks, paper sizes etc that many lecture notes were reused over years.	
E.9-E.12	'B. Jeffreys. Quantum Theory of Atoms & Molecules Michaelmas Term 1946'	1946-1947
	Contents of folder so inscribed divided into four for ease of reference: manuscript lecture notes, Mathematics examination papers.	
E.13-E.18	'Quantum Theory of Atoms. Michaelmas Term 1949'	1949
	Contents of folder so inscribed divided into six for ease of reference: manuscript lecture notes. At front of E.13 is numbered list of topics.	
E.19	Hardback notebook	1951
	Inscribed inside front cover 'These notes were written with the idea that they might be useful to anyone during Part II Analysis and they cover the course Analysis I and Analysis II at present (1951)'. With a note added by Jeffreys, 'Written by W. J. R. Sadie (Robertson). Please return to B. Jeffreys'	

Lectures, E.1-E.91

E.20	Spiral bound notebook Labelled 'Parts I and II Preliminary 1953' on front cover.	
E.21-E.23	'Quantum Theory of Atoms. Lent Term 1953' Contents of folder so inscribed divided into three for ease of reference: correspondence <i>re</i> topics, manuscript lecture notes, Mathematics examination papers.	1951-1954
E.24	'Nat. Sci. Tripos 1953,4. Whole subject Mathematics' Contents of folder so inscribed (at a later date). Includes manuscript and typescript synopsis of Course and report of examiners for 1953. Also includes loose note by Jeffreys, 1992, 'Before 1953 Mathematics was a half-subject in the Natural Sciences Tripos. The enlargement to a Whole Subject was largely due to Douglas Hartree. I was an examiner in 1953 and 1954'.	1953-1954
E.25-E.31	'Part I Electricity 1957, 8' Contents of folder so inscribed divided into seven for ease of reference: manuscript lecture notes.	1957-1958
E.32, E.33	'Post Tripos Papers' Contents of envelope so inscribed divided into two for ease of reference: light-hearted examination papers on mathematical and Cambridge themes.	1960-1969, n.d.
E.34, E.35	'Units' Contents of folder so inscribed divided into two for ease of reference: chiefly manuscript lecture notes.	N.d.
E.36	Hardback notebook Used from the front for lecture notes on 'Differential solid geometry', and from the back for notes on students and Russian language notes.	N.d., 1950s

Lectures, E.1-E.91

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|------------------|---|----------------------------|
| E.37-E.44 | 'Various Quantum Theory notes' | 1940-1960s |
| | Contents of folder so inscribed divided into eight for ease of reference: manuscript lecture notes etc. | |
| | Many of the notes are written on the reverse of student examination scripts. | |
| | May include lecture notes prepared at Manchester. | |
| | | |
| E.45-E.53 | 'Miscellanea' | 1950s |
| | Contents of folder so inscribed divided into nine for ease of reference: manuscript and duplicated typescript examination problems and associated calculations, manuscript lecture notes. | |
| | Many notes written on reverse of examination scripts. | |
| | | |
| E.54-E.91 | PUBLIC AND INVITATION LECTURES | 1927-1995,
n.d. |
| | | |
| E.54 | Jeffreys's manuscript note found with lecture notes | 1990s |
| | The note lists a few of her lectures for which notes survive and continues, 'I have not been able to sort these completely. I seem to have treated them to a rather tough amount of mathematics...' | |
| | | |
| E.55 | Untitled lecture on developments in quantum theory, Adams Society (St Johns College Cambridge mathematics society), 1927 | 1927 |
| | 15pp manuscript lecture notes. | |
| | | |
| E.56 | 'Quantum mechanics applied to everyday problems' | ?late 1920s |
| | 14pp manuscript lecture notes. | |
| | | |
| E.57 | 'Elementary applications of vectors & tensors',
?Mathematical Association, Bristol, 1931 or 1932 | 1931/1932 |
| | 19pp manuscript lecture notes. | |

Lectures, E.1-E.91

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|-----------|--|---------|
| E.58 | Untitled lecture on mathematics for physicists, Cambridge Physical Society, 2 March 1944

Manuscript lecture notes paginated 1-21 (lacks p11). | 1944 |
| E.59 | 'Atomic wave functions', Trinity Mathematical Society, Cambridge, 16 November 1944

Manuscript notes and calculations. | 1944 |
| E.60 | 'Stability', The New Pythagoreans, Cambridge, 1952

Manuscript lecture notes paginated 1-16; loose pages. | 1952 |
| E.61 | 'The conflict of studies', Mathematical Association Sydney branch, Australia, 31 July 1959

5pp manuscript and 2pp typescript lecture summaries; covering letter. | 1959 |
| E.62 | 'Top People take the Times', Oxford, ?1960

Manuscript lecture notes. | ca 1960 |
| E.63 | Untitled lecture at Royal Holloway College London, ca 1960

Manuscript lecture notes. | ca 1960 |
| E.64 | Untitled lecture to 'GPDST [Girls Public Day School Trust] Mathematics Teachers', 1966

12pp manuscript lecture notes, plus ?example problem. | 1966 |
| E.65-E.67 | 'SEMINARS. Various Dallas 1967'

Contents of envelope so inscribed divided into three for ease of reference: manuscript lecture notes and reading list (at E.65) for three seminars at Southern Methodist University, Dallas, Texas, April 1967. | 1967 |

Lectures, E.1-E.91

- E.68 Untitled lecture, November 1969
- Miscellaneous manuscript notes etc. Most of the notes appear to predate 1969.
- E.69 'Four minute mile', Singapore Mathematical Society, 30 April 1971, and Leicester Mathematical Association, autumn 1971 1971
- 9pp typescript of version as delivered in Singapore; offprint of Singapore lecture; additional manuscript material for use in Leicester; manuscript notes.
- E.70 Lunchtime talk on travels of mathematicians, The Archimedean (Cambridge University Mathematical Society), Cambridge, 1972 1972
- Manuscript notes.
- E.71 Untitled lecture on the history of the British Federation of University Women (BFUW), British Federation of University Women, Cambridge Association, Cambridge, ?1975 ?1975
- Possibly Jeffreys's Presidential Address to the BFUW.
- E.72-E.77 'Noether's theorem. Lecture to New Pythagoreans. Notes on Besselhagen, Bromwich, Cunningham, Larmor' 1974-ca1975
- Contents of folder so labelled.
- E.72 Manuscript and typescript notes headed 'Paper read to New Pythagoreans. 1975?'
- E.73 'Noether's theorem', 12pp typescript lecture notes
- E.74 'Emmy Noether and the Calculus of Variations', Letter by Jeffreys to the *Bulletin of the Institute of Mathematics and its Applications*, November/December 1974 1974
- Manuscript and typescript drafts of Letter with associated

Lectures, E.1-E.91

correspondence; copy as published; copy of C. Lanczos, 'Emmy Noether and the Calculus of Variations', Bulletin of the Institute of Mathematics and its Applications, August 1973; manuscript draft beginning, 'I wonder if you have seen an article in the August 1973 I.M.A. Bulletin...on Emmy Noether'

Jeffreys's Letter was written to supplement the article by Lanczos.

- E.75 Background information on Noether.

Photocopy and manuscript notes.
- E.76, E.77 Background information on E. Cunningham, E. Bessel-Hagen, etc.

2 folders.
- E.78-E.83 'Augustus de Morgan. New Pythagoreans 1978' 1974-1995

Contents of folder so labelled.
- E.78 Correspondence *re* de Morgan, the four-colour problem 1974-1995
and Jeffreys's lecture

Includes photographs of Jeffreys, 1995.
- E.79 Letter by Jeffreys on Augustus de Morgan and the four- 1979
colour problem, *Mathematical Gazette*, June 1979

1p typescript; copy of Letter as published. See also
D.51.
- E.80 Manuscript lecture notes on de Morgan.
- E.81-E.83 Background information on de Morgan: manuscript note

3 folders.

Lectures, E.1-E.91

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|------------|---|------|
| E.84 | Untitled lecture to British Universities Summer School in Theoretical Elementary Particle Physics, Pembroke College Cambridge, 7 September 1993

Information on the summer school; manuscript lecture notes. | 1993 |
| E.85 | 'Culinary mathematics or Bessel Functions in the Saucepan', to ?New Pythagoreans

Manuscript lecture notes; manuscript notes headed 'Rayleigh's porridge problem' | N.d. |
| E.86 | 'Modern mathematics at the time of the Gunpowder Plot'

Manuscript lecture notes. | N.d. |
| E.87 | 'The Shavian solar system'

Manuscript lecture notes paginated 7-11. | N.d. |
| E.88 | Untitled lecture beginning 'It is nearer to 50 than 40 years since I last read a paper to this Society'

Manuscript draft.

This may refer to the lecture at E.55 on developments in quantum theory delivered to the Adams Society, St Johns College Cambridge, 1927. | N.d. |
| E.89 | 'Pythagoreans'

Contents of folder so labelled: miscellaneous manuscript notes for lectures on historical topics. | N.d. |
| E.90, E.91 | Miscellaneous manuscript notes, probably incomplete or outline notes for lectures

2 folders. | N.d. |

SECTION F	VISITS AND CONFERENCES, F.1-F.24	1927-1999
	<p>For letters home during visits abroad, often with detailed descriptions of activities, see section J. For newspaper cuttings from Jeffrey's visit to Australia in 1959 see A.221.</p>	
F.1	<p>Visit to Georg-August Universität, Göttingen, Germany, 1927-1928</p> <p>'BJ in Göttingen 1927-8'. Contents of envelope so inscribed: memorabilia from period as a researcher at the university.</p> <p>Includes certificate of registration at the university; timetable booklet; attendance payment book (includes Max Born on 'Atommechanik' and 'Seminar über mathematische und theoretische Physik'); notebook used by Jeffreys for notes of expenses.</p>	1927-1928
F.2	<p>British Association for the Advancement of Science 115th Annual Meetings, Liverpool, September 1953</p> <p>Memorabilia only (programmes for Honorary Degree congregation, 2 September and Call to Blessing, 6 September).</p>	1953
F.3	<p>International Union of Geodesy and Geophysics 10th General Assembly, Rome, Italy, September 1954</p> <p>Menu for dinner only.</p>	1954
F.4-F.15	<p>Symposium on Computer Science, Girton College Cambridge, 8-10 August 1969</p> <p>This symposium was held as part of the 1969 celebrations of the centenary of Girton College. Jeffreys was the organiser. The proceedings were published as volume 6 part 1 of the <i>Bulletin of the Institute of Mathematics and its Applications</i> (April 1970).</p>	1968-1970
F.4	<p>Circulars and programme; annotated lists of those invited and participants</p>	1968-1969

Visits and conferences, F.1-F.24

F.5	Correspondence with participants <i>re</i> attendance	1969
F.6	Bookings, symposium accounts etc	1969-1970
F.7	Message of best wishes from the Mistress of Girton College; manuscript draft of Jeffreys's words of welcome	1969
F.8	Press coverage Cuttings from <i>The Woman Engineer</i> , <i>Computer Weekly</i> (illustrated), <i>Cambridge News</i> and <i>Daily Mirror</i>	1969
F.9	Three photographs of proceedings	1969
F.10	Report on symposium for Girton College Council	1969
F.11	Correspondence with participants arising Chiefly letters of thanks	1969-1970
F.12	Correspondence with Institute of Mathematics and its Applications <i>re</i> publication of proceedings	1968-1970
F.13, F.14	Correspondence with contributors 2 folders.	1969-1970
F.15	Copy of <i>Bulletin of the Institute of Mathematics and its Applications</i> , vol 6 part1 (April 1970).	1970
F.16-F.21	International Astronomical Union Symposium no. 48 'Rotation of the Earth', Morioka, Japan, May 1971 Jeffreys accompanied Sir Harold Jeffreys, a UK delegate,	1971-1972

Visits and conferences, F.1-F.24

to the symposium. She edited the proceedings into an English language version for publication.

For photographs see A.237.

- F.16 List of participants; handbook of programme and abstracts
- F.17 Manuscript notes on expenses of the visit
- F.18 Memorabilia from International Latitude Observatory, Mizusawa and Tokyo Astronomical Observatory
- F.19-F.21 Correspondence *re* Jeffreys's correcting and editing of English-language versions of papers delivered
3 folders.
- F.22 International Union of Geodesy and Geophysics 20th General Assembly, Vienna, Austria, 11-24 August 1991 1991
Assembly handbook of programme and abstracts.
- F.23 Final Meeting on Exponential Asymptotics, Isaac Newton Institute for Mathematical Sciences, Cambridge, 19-22 June 1995 1995
Annotated programme; correspondence found therewith.
- F.24 International Centennial Symposium on the Electron, Cambridge, 15-17 September 1997 1999
Letter *re* symposium video.

SECTION G **MATHEMATICAL ASSOCIATION, G.1-G.12** **1968-1972**

Jeffreys was President of the Mathematical Association for 1969-1970, in succession to C.A. Coulson. She was followed as President by M.J. Lighthill 1970-1971. Jeffreys then served as a Vice-President of the Association to 1972.

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|----------|---|--------------------|
| G.1 | Correspondence <i>re</i> Presidency and Vice-Presidency

Includes Jeffreys's 2pp typescript note of outstanding issues in the Association, sent to her successor M.J. Lighthill, 22 December 1969. | 1969-1970,
1972 |
| G.2-G.4 | Policy Committee

In December 1968 the Policy Committee was asked by the Council of the Association 'to make recommendations on future policy and methods of working of the Mathematical Association'. It reported to Council in November 1969. | 1968-1969 |
| G.2, G.3 | Meetings of the Policy Committee

2 folders. | 1968-1969 |
| G.4 | Correspondence <i>re</i> reception of Policy Committee report, September-December | 1969 |
| G.5 | Correspondence and papers <i>re</i> Standing Committee

Chiefly <i>re</i> location of the Association offices. | 1969 |
| G.6 | Papers for meeting of Council, 24 January

Includes Jeffreys's manuscript notes. | 1970 |
| G.7-G.9 | Mathematics education and the training of school teachers of mathematics | 1969-1970 |

Mathematical Association, G.1-G.12

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|------------|--|--------------------|
| G.7 | Papers of one-day conference on teacher training for science and mathematics held at Royal Society, London, 17 October 1969

Includes Jeffreys's manuscript notes on proceedings. | 1969 |
| G.8 | Reports on training of teachers for mathematics etc. | 1960s |
| G.9 | Correspondence re Schools Council/Standing Conference on University Entrance recommendations on the examination system (the 'Q and F' report)

The Q and F report suggested a two stage system of 'Qualifying' and 'Further' examinations. | 1970 |
| G.10, G.11 | Annual Conference, Cambridge, 1-4 April 1970

Jeffreys delivered the Presidential Address, 'An easy commerce of the old and the new', published in the <i>Mathematical Gazette</i> , vol. 54 (October 1970). | 1970 |
| G.10 | Conference programme; annotated minutes of 1969 Conference; offprint of Jeffreys's lecture | 1970 |
| G.11 | Correspondence and papers found in envelope inscribed 'Conference'

Background information etc. | 1970-1971 |
| G.12 | General correspondence and papers

Includes correction sent by Jeffreys to <i>Mathematical Gazette</i> , January 1970, and undated letter from Joyce Linfoot re the situation within the Mathematical Association, annotated by Jeffreys. | 1969-1970,
n.d. |

SECTION H	HISTORY OF SCIENCE AND OTHER INTERESTS, H.1-H.132	1917-1999, n.d.
	H.1-H.108	HISTORY OF SCIENCE
	H.109-H.119	WOMEN IN SCIENCE
	H.120-H.132	EDUCATION ISSUES
H.1-H.108	HISTORY OF SCIENCE	1917-1999
	H.1-H.95	Scientists and mathematicians
	H.96-H.108	History of mathematics and science
H.1-H.95	Scientists and mathematicians	1917-1999
	Arranged alphabetically by scientist.	
	For material <i>re</i> Sir Harold Jeffreys see A.94-A.186.	
H.1-H.4	Sir Edward Victor Appleton (1892-1965)	1975-1996
H.1	Correspondence with K.G. Budden <i>re</i> Appleton	1977, 1994
H.2	Correspondence with C.S. Gillmor <i>re</i> Appleton and E. Cunningham	1977, 1982, 1994
	Includes offprint of 'Wilhelm Altar, Edward Appleton and the Magneto-Ionic Theory' by Gillmor, <i>Proceedings of the American Philosophical Society</i> vol. 126 (1982).	
H.3	Correspondence with M.V. Wilkes <i>re</i> Appleton	1996
	Includes offprint of 'Sir Edward Appleton and early ionospheric research', <i>Notes Rec. R. Soc. Lond.</i> vol. 51 (1997).	

History of science and other interests, H.1-H.132

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|------------|---|---------------------|
| H.10 | Advance obituary notice for <i>The Times</i>

Jeffreys updated the obituary shortly before Cartwright's death in April 1998. | 1997-1998 |
| H.11 | Typescript copy of 'The mathematical collaboration of M.L. Cartwright and J.E. Littlewood' by F. Olver

With related correspondence. | 1997 |
| H.12 | Obituaries of Cartwright | 1998 |
| H.13 | Memorial Service

Includes copy of address by J.C. Polkinghorne, and correspondence <i>re</i> Cartwright's death. | 1998-1999 |
| H.14 | Miscellaneous historical material <i>re</i> Cartwright | 1970, 1994,
n.d. |
| H.15, H.16 | Subrahmanyan Chandrasekhar (1910-1995) | 1983-1996 |
| H.15 | Correspondence

1983 correspondence is <i>re</i> credit for work on white dwarfs; 1995-1996 posthumous correspondence chiefly with L. Mestel. | 1983-1996 |
| H.16 | Obituaries of Chandrasekhar | 1995 |
| H.17 | William Kingdon Clifford (1845-1879)

'Exeter's Mathematician' by E.A. Power, 18pp duplicated typescript. | N.d. |
| H.18-H.28 | Paul Adrien Maurice Dirac (1902-1984) | 1985-1997 |

History of science and other interests, H.1-H.132

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|------|---|--------------------|
| H.18 | Correspondence | 1985-1987 |
| H.19 | Dirac Memorial Meeting, St John's College, Cambridge, 19 April 1985

Includes 2pp typescript of Jeffreys's after-dinner address at the meeting, and correspondence <i>re</i> subsequent tribute volume. | 1985-1986 |
| H.20 | Recollections of Dirac for 'The Eagle' (St John's College journal) by Jeffreys | ca 1985 |
| H.21 | Correspondence | 1994-1997,
n.d. |
| H.22 | Commemoration of Dirac, Westminster Abbey, 13 November 1995

A memorial plaque was dedicated to Dirac. | |
| H.23 | 'Paul Dirac: aspects of his life and work', Dirac Memorial Address by A. Pais

42pp typescript + references.

Also includes correspondence with Pais.

This address was delivered at the Royal Society following the unveiling of the memorial plaque (H.22). | 1995, 1996 |
| H.24 | Obituaries of Dirac | 1985 |
| H.25 | 'The monopole' by D. Olive

11pp typescript + figures.

Paper on Dirac's investigation of the magnetic monopole. | ca 1986 |

History of science and other interests, H.1-H.132

- H.26-H.28 Miscellaneous background material
- Includes manuscript notes by Jeffreys, photocopies, offprints.
- 3 folders.
- H.29 Charlotte Froese Fischer (1929-) 1999
- 12pp typescript autobiographical account with related correspondence.
- H.30 Ralph Howard Fowler (1889-1944) 1986-1996
- Correspondence and papers chiefly *re* commemoration of the centenary of the birth of Fowler (1889).
- Also includes photocopies *re* Heisenberg in Cambridge.
- H.31 Dorothy Annie Elizabeth Garrod (1892-1969) 1998-1999
- 'From "small, dark and alive" to "crippingly shy": Dorothy Garrod as the first woman Professor at Cambridge' by P.J. Smith, 28pp and 19pp typescripts; related correspondence.
- H.32-H.38 John Arthur Gaunt (1904-1944) 1985-1993
- Jeffreys wrote an account of Gaunt, 'John Arthur Gaunt (1904-1944)' for *Notes and Records of the Royal Society* vol. 44 (1990), 73-79. The bulk of the material relates to this article.
- H.32-H.34 Correspondence *re* Gaunt 1985-1989,
1993
- 3 folders.
- H.35 Typescript drafts of Jeffreys's article 1989

History of science and other interests, H.1-H.132

H.36	Proof; offprint	1989, 1990
H.37	Photocopy of memoir of Gaunt by his father	
H.38	Miscellaneous biographical material on Gaunt Includes 1948 account from 'The Chimes' newsletter.	
H.39	George Green (1793-1841) Material assembled for bicentennial celebration of the birth of this mathematician and physicist.	1993
H.40, H.40A	Godfrey Harold Hardy (1877-1947)	post 1967, 1985
H.40	'Hardy's mathematical apology' by L.J. Mordell, 10pp duplicated typescript, with manuscript corrections	post 1967
H.40A	Correspondence and papers, chiefly <i>re</i> Hardy's mother Sophia Hall, born in Northampton 1845	1985
H.41-H.55	Douglas Rayner Hartree (1897-1958) Jeffreys had a close research association with Hartree, whom she first met as a student at Cambridge in 1925. Her early research under R.H. Fowler on the polarisability of the atomic core was a problem passed on to her by Hartree. Jeffreys moved to Manchester as Assistant Lecturer in Mathematics in 1928 and their association continued the following year when Hartree succeeded E.A. Milne in the chair in Mathematics there. They met less often after Jeffreys return to Cambridge in 1938 but in 1946 Hartree was appointed Plummer Professor of Mathematical Physics at Cambridge. Jeffreys wrote her reminiscences of Hartree, 'Douglas Rayner Hartree 1897-1958', for <i>Comments on Atomic and Molecular Physics</i> (CAMP), vol. 20.	1929-1995

History of science and other interests, H.1-H.132

- H.41 Copies of obituaries and other biographical information of Hartree 1958, 1986
- H.42 'Note on OII wave functions' 1963
1p typescript Note by Jeffreys correcting error in paper by her and Hartree; related correspondence.
- H.43 Correspondence re archive of Hartree 1976-1977,
1986-1987
- H.44 'Letters to and from Mike Seaton re CAMP article' 1986-1988
Contents of envelope so inscribed: correspondence with M.J. Seaton.
- H.45 'Schubauer's Ellipse. Button. Christ's' 1986-1987
Contents of envelope so inscribed: correspondence chiefly with M.V. Wilkes and L. Howarth re 'Schauber's ellipse' and Hartree's calculations.
- H.46 Correspondence with J.N.L. Connor re wartime research of Hartree. 1987
- H.47 Typescript drafts of 'Douglas Rayner Hartree 1897-1958' 1986
- H.48 Copy of *Comments on Atomic and Molecular Physics*, vol. 20 (1987) 1987
With article 'Douglas Rayner Hartree 1897-1958' annotated by Jeffreys.
- H.49 'Letters acknowledging CAMP article' 1987-1990
Contents of envelope so inscribed.

History of science and other interests, H.1-H.132

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| H.50 | Miscellaneous correspondence | 1977-1987 |
| H.51 | 'Quantum chemistry in the University of Cambridge' by N.C. Handy, <i>International Reviews in Physical Chemistry</i> vol. 7 (1988), 351-370

Typescript copy, sent to Jeffreys for reference to Hartree's work. | 1990 |
| H.52 | 'Early atomic quantum chemistry. The contributions of Hartree and Hylleras' by E. Scerri

10pp typescript sent to Jeffreys for interest; typescript comments by Jeffreys. | 1995 |
| H.53 | Miscellaneous manuscript calculations

The calculations may date from the 1950s. The folder includes a copy of letter to Hartree from Jeffreys, August 1955, found with the calculations. | 1955, n.d. |
| H.54 | Jeffreys's manuscript notes and other background material | |
| H.55 | Selected offprints of Hartree | 1929-1944 |
| H.56 | Henry Ronald Hassé (1884-1955)

Biographical information. | 1995 |
| H.57-H.59 | Werner Heisenberg (1901-1976) | 1976-1997 |
| H.57, H.58 | Correspondence <i>re</i> Heisenberg, chiefly <i>re</i> visit to Cambridge in the 1920s

2 folders. | 1994-1997 |

History of science and other interests, H.1-H.132

- H.59 Manuscript notes; newspaper cuttings
- H.60-H.66 Inge Lehmann (1888-1993) 1934-1997
- Jeffreys wrote her recollections of Lehmann, 'Inge Lehmann: Reminiscences', for the *Quarterly Journal of the Royal Astronomical Society* vol 35 (1994).
- H.60 Correspondence from Lehmann 1952, 1972-1977
Chiefly personal news.
- H.61 Correspondence with E. Hjortenbergs re Lehmann 1934, 1988
Re Lehmann's hundredth birthday.
Includes 1934 letter of G. Rasch to Lehmann with mathematical proof as sent to Harold Jeffreys.
- H.62 Correspondence, chiefly arising from article in the *Guardian* by P.J. Smith, 'The heart of darkness', 10 May 1988 1988
The article was in celebration of Lehmann's hundredth birthday. Jeffreys believed it overlooked other long-lived seismologists.
- H.63 Correspondence re life of Lehmann 1992-1997
- H.64 Typescript drafts; proof; offprint of Jeffreys's reminiscences 1993, 1994
- H.65 Miscellaneous articles etc re work of Lehmann 1971, 1987, n.d.
- H.66 Obituaries and memoirs of Lehmann 1993

History of science and other interests, H.1-H.132

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| H.67 | Lise Meitner (1878-1968) | 1992 |
| | Copy of letter from Sir Brian Pippard to Michael [?] re article on Meitner and O. Hahn (with copy of article) | |
| H.68, H.69 | Edward Arthur Milne (1896-1950) | 1988-1998 |
| | Chiefly correspondence with M. Weston-Smith (daughter) re life of Milne. Includes reminiscences of D.R. Hartree. | |
| H.68 | Correspondence | 1988-1992 |
| | Includes 1p typescript recollections of Hartree family by Jeffreys. Also includes (anonymous) 15pp typescript 'Edward Arthur Milne - Recollections and Reflections'. | |
| H.69 | Typescript draft of chapter 6 of Weston-Smith's book, 'Manchester and Marriage'; copy of booklet on Milne | 1998 |
| | Covering letter thanks Jeffreys for her contribution. | |
| | Also includes photocopies of pages of manuscript calculations. | |
| H.70 | John Milne (1850-1913) | N.d., 1988 |
| | Chiefly photocopied information and manuscript notes. | |
| | See also H.98, H.99. | |
| H.71-H.74 | Barbara Mary Middlehurst (1915-1995) | 1987-1996 |
| | Jeffreys wrote the obituary of Middlehurst for the <i>Quarterly Journal of the Royal Astronomical Society</i> vol 36 (1995). See also D.74. | |
| H.71 | Correspondence from Middlehurst | 1987-1994 |

History of science and other interests, H.1-H.132

H.72	Correspondence <i>re</i> Middlehurst and Jeffreys's obituary	1995-1996
H.73	3pp typescript; proof of Jeffreys's obituary of Middlehurst	1995
H.74	Photocopied and manuscript biographical information on Middlehurst; typescript obituary of Middlehurst by Geoff Mules	1995
H.75, H.76	Andrija (1857-1936) and Stjepan Mohorovicic (1880-1980) Correspondence and biographical information on the Mohorovicics. 2 folders.	1917-1993
H.77-H.79	Nevill Francis Mott (1905-1996) Jeffreys contributed to a tribute volume to Mott, <i>Nevill Mott: reminiscences and appreciations</i> ed. E.A. Davis (1998).	1995-1997
H.77	Correspondence <i>re</i> tribute volume	1996-1997
H.78	4pp typescript draft and proof of Jeffreys's contribution	1997
H.79	Obituaries and photocopied background information	1995
H.80-H.82	Maxwell Herman Alexander Newman (1897-1984)	1995-1997, n.d.
H.80	Correspondence with copies of Newman letters 1926 (Weyl) and 1931 (Einstein)	1995-1996
H.81	Material for Maxwell Centenary Exhibition	1997

History of science and other interests, H.1-H.132

- H.90 Manuscript notes
- H.91 Photocopied obituaries etc
- H.92 Robert Stoneley (1894-1976) 1994
- Typescript draft and proof of Jeffreys's reminiscences.
Jeffreys wrote reminiscences of Stoneley for *Geophys. J. Int.* (1994).
- H.93 Llewellyn Hilleth Thomas (1903-1992) 1995
- Correspondence *re* Thomas; copy of obituary.
- H.93A Joseph John Thomson (1856-1940) 1997, 2000
- Includes '...reminiscences of Bertha Swirles who married Harold Jeffreys in 1940' for Centenary celebrations (of his discovery of the electron) 1997, and photograph of Jeffreys from the occasion.
- H.94 Olga Tausky-Todd (1906-1995) 1995-1997
- Correspondence *re* Tausky-Todd; obituaries.
- H.95 Dorothy M. Wrinch (1894-1976) 1976-1998
- Correspondence *re* obituary and subsequent reminiscences; obituaries; photocopies of biographical information.
Dorothy Wrinch collaborated with Sir Harold Jeffreys on papers on the theory of the scientific method 1919-1923.

History of science and other interests, H.1-H.132

H.96-H.108	History of mathematics and science	1944-1998
H.96	'Mathematical Congresses' Contents of Jeffreys's folder so inscribed: miscellaneous photocopied typescript and manuscript notes on early International Mathematical Congresses.	1984
H.97	'N.H. Abel etc' Contents of Jeffreys's folder so labelled: correspondence and manuscript notes.	1984
H.98, H.99	'Darius A.A. Hughes Wartnaby' Contents of Jeffreys's folder so labelled: correspondence re John Milne and seismology. See also H.70.	1988
H.98	Correspondence with J. Darius	
H.99	Correspondence with A.A. Hughes, J.V. Field and J. Wartnaby	
H.100	'International Conference on Physics 1934' Contents of Jeffreys's envelope so labelled: correspondence, photocopies and manuscript notes re 1934 conference.	1993
H.101	'Fermat's Last Theorem' Contents of Jeffreys's envelope so labelled: newspaper cuttings and photocopies re proof of Fermat's Last Theorem.	1993

History of science and other interests, H.1-H.132

H.102-H.104	'Mathematical Gazette'	1944, 1994-1996
	Contents of Jeffreys's folder so labelled: material <i>re</i> Centenary Issue of the <i>Mathematical Gazette</i> , vol. 80 (March 1996).	
	Jeffreys was invited to submit a short article of some of her recollections to the issue. She wrote about the teaching of mathematics (pp 37-39).	
H.102	Correspondence <i>re</i> Jeffreys's recollections	
H.103	Typescript draft of Jeffreys's article and copy of follow-up letter; copy of 'The Teaching of Mathematics to Physicists', 1944 report to which Jeffreys refers.	1944, 1996
H.104	Issue of the <i>Mathematical Gazette</i> , vol. 80 (March 1996).	1996
H.105	'Huppert (Geophysics in Cambridge. Summer School 1997)'	1997
	Manuscript notes, print-out from summer school programme.	
H.106	'Tommy's Voice' by Alba Lalitha Ramaswamy	1998
	Unpublished account of physics at Cambridge from James Clerk Maxwell onwards, January 1998	
	'Tommy' was the term given to laboratory technicians at the Cavendish. The largely account is drawn from the recollections of one former laboratory technician.	
H.107	Miscellaneous correspondence <i>re</i> history of science	1994
H.108	Copies of articles by D.O. Forfar	N.d.

History of science and other interests, H.1-H.132

H.109-H.119 WOMEN IN SCIENCE 1977-1998

H.109 Correspondence with K. Ollerenshaw 1977

H.110 Correspondence *re* eminent women mathematicians 1983-1984,
1992
With later note added 1992.

In 1983 the Equal Opportunities Commission produced a poster of influential women mathematicians. Jeffreys was critical of the choices of figures, suggesting in particular that Dame Mary Cartwright should have been included. The correspondence went on to discuss video recordings of contemporary eminent women scientists (including Cartwright).

H.111 'Girls and Mathematics', joint report of Royal Society and the Institute of Mathematics and its Applications 1986
Press release; copy of report.

H.112 Correspondence with Joan Mason 1991-1995

H.113 'Women in DAMTP' 1991, 1993
Contents of envelope so inscribed: correspondence and papers *re* position of and treatment of women in the Cambridge Department of Applied Mathematics and Theoretical Physics.
Includes Jeffreys's manuscript notes on her experiences in the department.

H.114 Correspondence and papers *re* White Paper on Science and Technology and 'The Rising Tide' 1992-1995

In 1992 William Waldegrave MP, Minister for Public Service and Science, announced a White Paper on Science and Technology. One of the issues identified in the consultation process was the participation of women in these areas. In response the Committee on Women in Science, Engineering and Technology was established in

History of science and other interests, H.1-H.132

1993. Its report, *The Rising Tide*, was published the following year.

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| H.115 | Material re launch and reception of Association for Women in Science and Engineering (AWISE) | 1994 |
| H.116 | 50th anniversary of the election of the first women to the Fellowship of the Royal Society

Draft of 'The Women's Fellows' Jubilee' by Joan Mason; photocopy of 'The admission of the first women to the Royal Society of London' by Joan Mason, <i>Notes Rec. R. Soc. Lond.</i> vol 46 (1992); exhibition brochure. | 1995 |
| H.117 | Correspondence and papers re 'Contributions of Twentieth Century Women to Physics'

Includes drafts of entries for Jeffreys (corrected by Jeffreys), K.B. Blodgett, Inge Lehmann and H.D. Megaw.

This was a project of Martha Keyes and Nina Byers. | 1997 |
| H.118 | Miscellaneous correspondence | 1983, 1995-1998 |
| H.119 | Background material: photocopies and print-outs of articles on women in science | |
| H.120-H.132 | EDUCATION ISSUES | 1956-1999,
n.d. |
| H.120 | Schooling

Contents of envelope inscribed 'Model Schools': photocopied material on education in Ireland in the nineteenth century.

This material may also have had family history interest for Jeffreys. | N.d. |

History of science and other interests, H.1-H.132

H.121-H.126	Mathematics education	1956-1983, n.d.
H.121	First and Second Reports on the Shortage of Teachers in Mathematics, Institute of Mathematics and its Applications, 1969 and 1970; 'Further Careers of Cambridge Mathematicians' by J.W.S. Cassels, 1970.	1969, 1970
H.122	Contents of Jeffreys's envelope: material <i>re</i> mathematics teaching and <i>re</i> Archimedean and New Pythagorean clubs	1973-1983
H.123	Letter to the Editor, <i>Mathematics in Schools</i> , <i>re</i> women mathematicians. Jeffreys wrote in response to an editorial in the January 1974 issue.	1974
H.124	Correspondence with T. Leddy <i>re</i> mathematics teaching	1977
H.125, H.126	Contents of untitled folder: miscellaneous notes, correspondence etc <i>re</i> mathematics education and schooling generally 2 folders.	1956, n.d.
H.127-H.132	University education of women Chiefly concerns admission of women to Cambridge University and its Colleges.	1978-1999
H.127	Industrial Tribunal: Christine Hugh-Jones vs St John's College Cambridge Newspaper cuttings and other material. Hugh-Jones had appealed against the College discriminating against a research fellowship application on the grounds of her sex.	1978

History of science and other interests, H.1-H.132

- | | | |
|--------------|---|------------------|
| H.128 | 'Memorandum on the Constitution of the Senate at Cambridge', by C.B. Rootham

3pp typescript; letter from E.S. Leedham-Green on the context of the Memorandum. | ca 1920s |
| H.129 | Fiftieth Anniversary of the Admission of Women to Degrees of Cambridge University

Order of Proceedings for Commemoration; brochure 'Women at Cambridge'. | 1998 |
| H.130, H.131 | 'Educating Eve: Five Generations of Cambridge Women'

2 folders.

This photographic exhibition of eminent Cambridge women marked the fiftieth anniversary of women being admitted to degrees of Cambridge University. | 1998-1999 |
| H.132 | Newspaper cuttings | 1970s, 1992-1993 |

SECTION J

CORRESPONDENCE, J.1-J.314

1902-2000

Jeffreys's correspondence was found in a number of separate sequences and parts of sequences, in individual folders, plastic bags and loose. Correspondence found together might include letters from family members, family friends, former students, scientific colleagues and fellow Girtonians. For ease of reference these various groups of correspondence and individual letters have been consolidated into series of correspondence arranged alphabetically and a chronological sequence. In addition there is a series of postcards which Jeffreys kept separate, and references and recommendations, again kept separately.

Subjects vary widely, from family and personal news, topics in the history of science and information about individual scientists, to detailed mathematical questions. Some of the correspondence is to both Sir Harold and Lady Jeffreys (before Sir Harold's death in 1989) and occasionally exchanges are begun with Sir Harold alone and then continued by Lady Jeffreys.

The great bulk of the correspondence is incoming. Jeffreys's outgoing correspondence is sparsely represented by rough manuscript drafts or occasionally a typescript carbon copy.

A discrete sequence of correspondence with Girtonians has been retained in section B.

J.1-J.42	FAMILY
J.43-J.207	ALPHABETICAL SEQUENCES
J.208-J.269	CHRONOLOGICAL SEQUENCE
J.270-J.298	POSTCARDS AND GREETINGS CARDS
J.299-J.314	REFERENCES AND RECOMMENDATIONS

Correspondence, J.1-J.314

J.1-J.42	FAMILY	1902-1997
J.1, J.2	<p>'Letters. Mother; BB b 1902-19'</p> <p>Contents of envelope so inscribed: letters to Bertha Blaxley, including some from Jeffreys. 'BB' is Bertha Blaxby, 'b' is Bertha Swirles.</p> <p>2 folders.</p> <p>Folder J.2 includes two newspaper cuttings on Jeffreys's 'Great distinction' as 'Northampton's 1st Lady Wrangler'.</p>	1902-1924, 1956
J.3	<p>'August 1914 postcard and letter from Mother in Whitby to BJ'</p> <p>Three letters and a postcard. Letter dated 5 August makes reference to outbreak of war.</p>	1914
J.4	<p>Postcard to Jeffreys from 'Jack', December</p> <p>In French</p>	1919
J.5-J.10	<p>Bundle of correspondence, principally between Jeffreys and her aunt Bertha Blaxby</p> <p>6 folders.</p>	1921-1931
J.11-J.15	<p>'Letters from Michael Stewart & Bertha Swirles (1920s & 1930s)'</p> <p>Contents of envelope so inscribed: letters to Mercy Blaxley (aunt) from Jeffreys, 1921-1934; three letters from Michael to Mercy Blaxby, 1917, 1919, 1927.</p> <p>5 folders.</p>	1917-1934
J.16, J.17	<p>'Letters to Lady J from her aunt Bertha'</p> <p>Contents of box so labelled (at a later date).</p>	1923-1927 and n.d. /...

Correspondence, J.1-J.314

- J.31 Marriage of Harold Jeffreys and Bertha Swirles, 1940
Northampton, 6 September 1940
- Invitation; manuscript booklet of lists of gifts received,
those sent cake and cards, etc; 6 photographs;
newspaper cuttings.
- See also A.231.
- J.32 Correspondence from Sir Harold at Southern Methodist 1967
University, Texas, USA
- With later (1992) explanatory note by Jeffreys.
- J.33-J.36 'Letters from BJ in U.S.A. to Northampton 1950-51' 1950-1951
- Contents of envelope so inscribed: correspondence to H.
Swirles (mother), October 1950-March 1951 and material
found therewith.
- J.33 Calendar 1950-1951 covering the visit to the USA
- J.34, J.35 Letters home, kept in the form of a journal
- 2 folders.
- J.36 Postcard memorabilia sent home by Jeffreys; two letters
received.
- J.37 'Letters from BJ 1958 IAU Moscow & Leningrad 1958
Stockholm, Copenhagen'
- Correspondence chiefly to Bertha Blaxby during 10th
International Astronomical Union General Assembly and
thereafter.
- J.38 'Letters from my mother and aunts June-Nov 1959' 1959
- Contents of plastic bag so labelled: correspondence to
Jeffreys in Australia.

Correspondence, J.1-J.314

J.39-J.41	'Cousins' Contents of envelope so inscribed. 3 folders.	1973-1980, n.d.
J.42	'Bakers' Contents of envelope so inscribed. The Bakers wrote from Winchester and Gibraltar.	1977-1997
J.43-J.207	ALPHABETICAL SEQUENCES	1942-2000
J.43-J.141	Sequence found in wooden filing drawers	
J.142-J.160	Sequence found in metal filing drawers	
J.161-J.189A	Sequence found in envelopes and folders	
J.190-J.207	Sequence divided by index card	
J.43-J.141	Sequence found in wooden filing drawers	1945-1999
J.43	Albritton, C.C. and J.C. Personal news. Claude Albritton was Professor of Geology at Southern Methodist University, Dallas, Texas, USA.	1972-1997
J.44	Bamford, S. Stephanie Bamford was a musician.	1970, 1971
J.45	Barnard, G.A. R.A. Fisher, Bayesian statistics.	1991, 1992

Correspondence, J.1-J.314

- | | | |
|-----------|--|------------|
| J.46 | BBC | 1993, 1996 |
| | Interview of Jeffreys for 'Women in Mathematics' 1993; appearance on BBC Radio 4 'Woman's Hour', 1996. | |
| J.47-J.51 | Bolt, B.A. | 1963-1989 |
| | Much of the correspondence is with Sir Harold. | |
| | Includes scientific correspondence, comments on drafts, personal news. | |
| | Bolt was Professor of Earth and Planetary Science at the University of California, Berkeley and Director of the Berkeley Seismological Stations 1963-1991. | |
| J.47 | 1963-1972 | |
| J.48 | Bolt's Report on visit to China, June-July 1973 | 1973 |
| J.49 | 1974-1982 | |
| J.50 | 1984-1989 | |
| | Includes 'One hundred years of contributions of the University of California seismographic stations' by Bolt. | |
| J.51 | Index cards of letters 1963-1989 | |
| J.52 | Bostrom, R.C. | 1997 |
| J.53 | Bowles, M.D. | 1995 |
| | Draft of article by Bowles on differential analyzers, with Jeffreys's reply and comments. | |
| | Bowles was a historian of science at Case Western Reserve University, USA. | |

Correspondence, J.1-J.314

- | | | |
|-----------|--|-----------|
| J.54 | Brand, Maya
Poetry.
Brand (also Boyarskaya) was a Russian-born poet | 1990-1992 |
| J.55 | Brush, S.G.
Also includes correspondence with B.A. Bolt and F. Olver.
Chiefly arising from Brush's reference to work of Sir Harold Jeffreys in the book <i>Twentieth Century Physics</i> . | 1997 |
| J.56 | Bullen, M.
Mary Bullen was the widow of K.E. Bullen, | 1977-1994 |
| J.57 | Burcham, W.E.
Royal Society memoir of P.B. Moon. | 1995 |
| J.58 | Burkill, H.
Reminiscences re J.C. Burkill. | 1993 |
| J.59-J.62 | Button, H.G.
4 folders.
Button was Honorary Archivist of Christ's College Cambridge. He wrote prolifically on University of Cambridge subjects. | 1986-1998 |
| J.63 | Campbell, A.
Campbell was (Labour) MP for Cambridge. Jeffreys wrote to her on transport issues and Old Age Pensions. | 1992-1999 |

Correspondence, J.1-J.314

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|------|--|-----------|
| J.64 | Cassels, J.W.S. | 1956 |
| | Query on examination question. | |
| | Cassels was lecturer in Mathematics at Cambridge at this time. | |
| J.65 | Dalitz, R.H. | 1990 |
| | Letter from Dalitz <i>re</i> Tom Cherry, Professor of Mathematics at Melbourne University (d. 1967). | |
| J.66 | Drazin, P.G. | 1963 |
| | Corrections to equations. | |
| | Drazin was based at the School of Mathematics, University of Bristol. | |
| J.67 | Dzhun, I.V. | 1991-1993 |
| | Russian-language translation of <i>Theory of Probability</i> by H. Jeffreys. | |
| | Dzhun's letters are in Russian, some with translations. | |
| J.68 | Easton, L.P. | 1994-1996 |
| | Personal news. | |
| J.69 | Farid, B. | 1994-1998 |
| | Farid moved to Stuttgart after a period of study at Girton College. | |
| J.70 | Fielder, G. | 1993 |
| | Moon craters. | |

Correspondence, J.1-J.314

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|------------|--|-----------|
| J.71, J.72 | Fowler, C.M.R. | 1988-1991 |
| | <p>Later note by Jeffreys states: 'Correspondence with Mary Fowler about The Solid Earth and Moho-Milne and others related'.</p> <p>2 folders.</p> <p>Fowler was based in the Department of Geological Sciences, University of Saskatchewan.</p> | |
| J.73 | Frayn, M. | 1998 |
| | <p>'Copenhagen' play.</p> <p>Includes letters from Sir Charles Frank and Hans Bethe commenting on the play and newspaper reviews of the play.</p> | |
| J.74 | Froman, N. | 1965-1978 |
| | <p>Includes 'JWKB-approximation - Contributions to the theory', 8pp typescript, sent to Sir Harold and Lady Jeffreys for comment, 1965; and 'Summary of the Fömann's method' by Jeffreys, 4pp manuscript, n.d.</p> | |
| J.75 | Garstang, R.H. | 1950-1997 |
| | <p>Includes progress of research, personal news and study of J.A Gaunt (1904-1944).</p> <p>Roy Garstang was a mathematician colleague at Cambridge, moving to the University of London Observatory, and then to the Joint Institute for Laboratory Astrophysics, University of Colorado.</p> | |
| J.76 | Giacaglia, G.E.O. | 1979 |
| | <p>Includes 'Hansen's coefficients and spherical harmonics', sent to Jeffreys for comment, with Jeffreys manuscript calculations.</p> | |

Correspondence, J.1-J.314

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|-----------|---|---------------------|
| J.77 | Hartree, D.R. | 1945-1946 |
| | Correspondence <i>re</i> research. | |
| | See also H.41-H.55. | |
| J.78 | Harvey, P. | 1991 |
| | Family history research on Ella Veitch. | |
| J.79 | Hayman, W.K. | 1999 |
| | Royal Society Memoir of Mary Cartwright. | |
| J.80 | Howie, D. | 1996-1998 |
| | Research on the Bayesian controversy in the 1920s and 1930s and study of papers of Sir Harold Jeffreys; Oxford Nanotechnology plc. | |
| | Howie was a historian of science based at the University of Pennsylvania, USA. | |
| J.81 | Hoyle, F. | 1988, 1995,
1996 |
| | Includes corrections to Hoyle's work; photographs from Hoyle's 80th birthday party and the Institute of Astronomy, Cambridge, 1995. | |
| J.82-J.84 | Huzurbazar, V.S. | 1946-1998 |
| | Chiefly personal news. | |
| | 3 folders. | |
| | Huzurbazar was Head of the Department of Mathematics, University of Poona, India. | |
| J.85 | Kemmer, N. | 1992-1993 |
| | Chiefly reminiscences. | |

Correspondence, J.1-J.314

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|------------|--|------------|
| J.91, J.92 | 1994
2 folders.
Includes drafts sent to Jeffreys for comment. | |
| J.93 | 1995-1997, n.d. | |
| J.94 | Kumagai, N.
Personal news. | ?1970-1989 |
| J.95 | Lapwood, E.R.
Biographical information including draft of obituary. | 1985 |
| J.96 | Lefever, R.M.H. and M.E.
Personal news. | 1992-1995 |
| J.97 | Lenton, G.K. | 1996, n.d. |
| J.98 | Re Lighthill, M.J.
Printed-out email of part of transcript of radio interview. | 1998 |
| J.99 | Lindley, D.V.
Reminiscences, including D.M. Wrinch. | 1989-1998 |
| J.100 | Linfoot, J.
Includes 7pp draft of 'A brief collaboration. Hans Heilbronn & E.H.Linfoot 1933-1935' by J. Linfoot.
Joyce Linfoot (the widow of E.H. Linfoot) was researching the scientific collaboration between E.H. Linfoot and H.A. Heilbronn. | 1990-1993 |

Correspondence, J.1-J.314

- J.101 Lyttleton, R.A. 1972, 1992-1993
Includes material *re* Sir Harold Jeffreys and anti-continental drift theories.
- J.102 McVittie, G.C. 1986, n.d.
Correspondence *re* possible 'real variable' theory error in *Methods of Mathematical Physics*.
- J.103 Magarshack, E.D. 1991
Chiefly *re* Chekhov plays and the Cambridge Amateur Dramatic Society.
Elsie Magarshack was the widow of the playwright David Magarshack.
- J.104 *Re* Matthews, D.H. 1997
Reminiscences of Matthews (1931-1997).
- J.105 Moon, P.B. 1991-1992
Includes material *re* London Physics Club.
- J.106 Mott, N.F. 1990
- J.107 Myers, V. 1996
Myers was an Associate Producer with ZKK Productions working on a Channel 4 Television series on women in science.
- J.108-J.110 Nafe, S. 1974-1996
Chiefly personal news. J.110 is material *re* death of J.E. Nafe.

/...

Correspondence, J.1-J.314

- /... 3 folders.
Sally Nafe was the wife of the geophysicist J.E. Nafe (1914-1996).
- J.111 Narlikar, J.V. and A.V. 1988-1998
Chiefly personal news.
- J.112 Olver, F.W.J. 1987-1998
Includes personal news, reminiscences, comments on work.
Olver was Professor Emeritus in the Institute for Physical Science and Technology, University of Maryland.
- J.113 Pekeris, C.L. 1981
Pekeris was based at the Department of Applied Mathematics, Weizmann Institute of Science, Rehovot, Israel.
- J.114 Perutz, M.F. 1994, 1995
Marking scientific discoveries in Cambridge, photocopy of Perutz's wartime recollections from the *New Yorker*, 12 August 1985.
- J.115 Piper, A. 1996
Includes copy of talk on Rosalind Franklin by Piper.
- J.116 Pitman, E.J. 1975-1977
Personal news.
- J.117 Porter, A. 1995-1996
Includes correspondence *re* M.D. Bowles's history of the

Correspondence, J.1-J.314

differential analyser.

- | | | |
|-------------|--|---------------------|
| J.118 | Quiney, H.M.

'BERTHA' computer program. | 1997 |
| J.119 | Ramaswamy, A.L. | 1997-1998 |
| J.120-J.123 | Robertson, W. and family

Personal and family news.

4 folders.

Wendy Robertson and her husband were based at the University of Western Australia. | 1973-1996 |
| J.124 | Runcorn, S.K.

Includes press-cuttings <i>re</i> Runcorn's murder. | 1991, 1995-
1996 |
| J.125 | Series, C.M.

Series delivered the 1992 Rouse Ball lecture on 'Geometry and Chaos'. | 1988, 1992 |
| J.126-J.130 | Shimshoni, M.

Shimshoni was based at the Department of Applied Mathematics, Weizmann Insitute of Science, Rehovot, Israel. He was a Visiting Scholar at St John's College Cambridge 1985. | 1982-1996 |
| J.126 | 1982-1987 | |
| J.127 | 1988

Chiefly <i>re</i> the Moho (Mohorovicic Discontinuity) and | |

Correspondence, J.1-J.314

ascription of the credit for the discovery thereof. Also personal news.

- J.128 1989-1990
Personal news, including reflections on Israeli society.
- J.129 1991
- J.130 1992-1996
Chiefly personal news, also progress of research.
- J.131 Slack, B. 1975-1990
Personal news.
- J.132 Smeaton, M.J. 1992-1993
Includes correspondence and papers on work of S. Mohorovicic.
- J.133 Sondheimer, E.H. 1986, 1996
Chiefly reminiscences including of Sir Alan Wilson.
- J.134 Stannage, W. 1983-1985
Correspondence with Sir Harold Jeffreys *re* continental drift theory.
- J.135 Stephenson, R. 1974
Criticism of I. Velikovsky's book *Worlds in Collision*.

Correspondence, J.1-J.314

- | | | |
|-------------|--|---------------------|
| J.136 | Taylor, R.J. | 1986-1990 |
| | Includes correspondence <i>re</i> Royal Astronomical Society matters. | |
| J.137 | Waerden, B.L. v.d. | 1981, 1983,
1997 |
| | Correspondence on research, including tidal friction, and reminiscences. Also correspondence with Y. Dold-Samplonius <i>re</i> Waerden, 1997. | |
| J.138 | Wallis, R. | 1996, 1998 |
| J.139 | Walmsley, M. | 1975-1980,
1991 |
| | Personal correspondence. | |
| | Mary Walmsley entered Girton College in 1960. She excelled as an undergraduate and went on to research at the Mathematical Institute, Oxford, under C.A. Coulson before moving to the University of Leicester. | |
| | See also C.80, C.81. | |
| J.140 | Woolfson, M.M. | 1991, 1997,
1998 |
| | Includes reminiscences. | |
| J.141 | Zellner, A. | 1995-1999 |
| | Chiefly <i>re</i> Bayesian analysis, including references to Sir Harold Jeffreys. | |
| J.142-J.160 | Sequence found in metal filing drawers | 1947-1992 |
| | This was divided into groups of letters, e.g. 'A-C'. The material has been further subdivided for ease of reference where required. The bulk dates from the late 1980s to the early 1990s. | |

Correspondence, J.1-J.314

J.142-J.144	'A-C'	1979-1992
J.142	A	1990-1991
J.143	B	1979-1992
J.144	C and unidentified	1987-1990
J.145	'D-F'	1987-1995
J.146	'G-I'	1979-1990
J.147	'J-L'	1947, 1980- 1991
J.148-J.150	'M-O'	1985-1990
J.148	M	1985-1988
J.149	N	1985-1990
J.150	O and unidentified	1986-1990
J.151, J.152	'P-R'	1984-1991
J.151	P, Q	1986-1989
J.152	R and unidentified	1984-1991

Correspondence, J.1-J.314

J.153-J.156	'S-T'	1983-1990
J.153	S	1983-1990
J.154	Re Smith, F.M. Smith was Bursar of Girton College 1930-1946.	1986
J.155	Stratton, W.G. Correspondence re D.M. Wrinch and Bertrand Russell.	1987
J.156	T and unidentified	1985-1989
J.157-J.160	'U-Z'	1960-1991
J.157	V	1987-1990
J.158	W	1984-1990
J.159	Y	1970-1990
J.160	Z and unidentified	1960-1991
J.161-J.189	Sequence found in envelopes and folders Although there are earlier letters, the bulk dates from the 1990s.	1942-2000
J.161	A	1986-1998

Correspondence, J.1-J.314

J.162	B	1961-1998
J.163	C	1942-1999
J.164	Collins, M.	1984-1995
J.165	D	1965-1998
J.166	Defrise-Carter, L.	1985-1997
J.167	E	1989-1992
J.168	F	1963-1999
J.169	Fowler, C.M.R. Includes reminiscences of earth sciences and the Cavendish Laboratory.	1996, 1998
J.170	G	1988-1997
J.171-J.173	Goodman, K., L.E. and J.R. Personal news. 3 folders.	1986-1998
J.174	H	1990-1995
J.175	Hudson, J.A. Contents of envelope inscribed 'Heaviside Lomnitz.	1992

Correspondence, J.1-J.314

	Correspondence with Hudson 1992'. manuscript calculations.	Includes
J.176	J	1961-1997
J.177	K-L	1984-1999
J.178	M, N	1974-1997
J.179	McCrea, W.H.	1985-1994
J.180	O	1992-1996
J.181	Okamoto, N.	1982-1991
J.182	P	1990-1998
J.183	R	1991-1999
J.184, J.185	Roman, P. and Lanczos, C. Contents of folder inscribed 'Roman, Lanczos. Correspondence with them & R. Williams'. Includes manuscript calculations. 2 folders.	1972-1973
J.186	S Undated item is letter from Joan Slater with manuscript calculations.	1987-1998, n.d.

Correspondence, J.1-J.314

- | | | |
|-------------|--|---------------------|
| J.187 | Sen, K.K. | 1971-1972 |
| | Found in folder also inscribed 'Singapore 1971-73':
correspondence, manuscript calculations etc. | |
| | Sen was based at the University of Singapore, where
Jeffreys was an external examiner. Folder includes
newspaper cutting from a visit made in April 1971. | |
| J.188 | V | 1951, 1988-
1993 |
| | 1951 letter from J.H. Van Vleck with offprint and
manuscript calculations interleaved. | |
| J.189 | W | 1991-1996 |
| J.189A | Williams, R.M. | 1965-1970,
1987 |
| | Ruth Williams was a student at Girton in the early 1960s.
She went on to postgraduate research at Imperial
College London, then a postdoctoral fellowship at the
University of Miami before returning to the UK. She
worked in particular on the theory of relativity. | |
| J.190-J.207 | Sequence divided by index card | 1989-1999 |
| | This was divided by letter. It is personal correspondence,
including many greetings cards. It dates from the 1990s
although a large proportion of the correspondence is
undated. Many of the correspondents are identified by
first name only and not all appear to have been correctly
filed. They include family members, although Jeffreys
also seems to have often been accorded the title 'Aunt'
by children of friends and former students. | |
| | Retained in original order. | |
| J.190 | A | 1991-1996 |
| J.191 | B | 1991-1993 |

Correspondence, J.1-J.314

J.192	C	1992-1995
J.193	D	1991-1997
J.194	F and G	1991, 1992
J.195, J.196	G Correspondence from the Goodmans. 2 folders.	
J.197	H	1992-1995
J.198	J	1994-1999
J.199	K	1992
J.200	L	1991-1993
J.201	M	1991-1993
J.202	N, O	1992-1995
J.203	P	1993-1994
J.204	R	1990-1995
J.205	S	1991-1995

Correspondence, J.1-J.314

J.206 T 1993

J.207 W 1991-1995

J.208-J.269 CHRONOLOGICAL SEQUENCE 1922-2000

The bulk of this material dates from the 1980s and 1990s. The content is enormously diverse. Thank you letters, sometimes charmingly illustrated, from young children, may be found next to reminiscences from aged contemporaries, chatty letters from former pupils next to detailed scientific correspondence.

J.208 1922, 1939, 1941, 1949

Includes letter of congratulation on Tripos results, 1922, and letter from L. Howarth *re* lecture course on statics and dynamics, 1949.

J.209 1953-1957

J.210, J.211 'Letters various 1959'

Contents of plastic bag so labelled.

2 folders.

Those at J.210, found clipped together, are from undergraduate students. The contents and tone of the letters to Jeffreys testify to the care she paid to the education of her students.

J.212 1966-1969

J.213 1970-1972

Correspondence, J.1-J.314

J.214	1973	
J.215	1974	
J.216	1975-1976	
J.217	'Australia'	1977-1980
	Contents of envelope so inscribed: correspondence from Australian and New Zealand colleagues.	
J.218	1977	
J.219	1978	
J.220	1979	
	Includes 1p typescript draft letter to the <i>The Observer</i> re meccano and D.R. Hartree. With newspaper cutting and photograph of Hartee with a meccano model of differential analyser.	
J.221	1970s	
J.222	January-April 1980	
J.223	May-July 1980	
J.224	August-October 1980	
J.225	November 1980	

Correspondence, J.1-J.314

J.226	December 1980
J.227	January-March 1981
J.228	April-August 1981
J.229	September-December 1981
J.230, J.231	'Various letters 1981' Contents of envelope so inscribed divided into two for ease of reference.
J.232	1982
J.233	January-March 1983
J.234	May-December 1983
J.235	January-June 1984
J.236	August-December 1984
J.237	1985
J.238	1986
J.239	1987

Correspondence, J.1-J.314

J.240	1988
J.241	1989
J.242-J.245	'Various letters 1989, 90, 91, 92' Contents of envelope so inscribed.
J.242	1989
J.243	1990
J.244	1991
J.245	1992
J.246	1990
J.247	1991
J.248	1992
J.249	1993
J.250	January-May 1994
J.251	September-December 1994
J.252	January-August 1995

Correspondence, J.1-J.314

- | | |
|-------|-------------------------|
| J.253 | September-December 1995 |
| J.254 | January-May 1996 |
| J.255 | June-December 1996 |
| J.256 | February-June 1997 |
| J.257 | July-October 1997 |
| J.258 | November-December 1997 |
| J.259 | January-June 1998 |
| J.260 | July-September 1998 |
| J.261 | October-December 1998 |
| J.262 | January-February 1999 |
| J.263 | March-April 1999 |
| J.264 | May-July 1999 |
| J.265 | August-November 1999 |

Correspondence, J.1-J.314

J.266 December 1999-January 2000

Lady Jeffreys died 18 December and some of these
communications were received after her death.

J.267-J.269 N.d.

3 folders.

J.270-J.298

POSTCARDS AND GREETINGS CARDS

1960-1995

Postcards and some greetings cards retained by Jeffreys
in discrete sequences arranged by year.

Not indexed.

J.270 1960-1971

J.271 1978-1981

J.272 1983

J.273 1984-1986

J.274 1987

J.275, J.276 1988

2 folders.

J.277-J.279 1989

3 folders.

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J.280, J.281	1990 2 folders.	
J.282-J.284	1991 3 folders.	
J.285-J.289	1992 5 folders.	
J.290-J.292	1993 3 folders.	
J.293-J.295	1994 3 folders.	
J.296-J.298	1995 3 folders.	
J.299-J.314	REFERENCES AND RECOMMENDATIONS	1940-1984
J.299-J.312	'Testimonials Reports' Contents of folder so inscribed: references for former students of Jeffreys at Girton College.	1940-1984
J.299	'Fairly recent testimonials for Mathematical Students' Contents of envelope so inscribed: chiefly rough manuscript drafts.	1940-1949

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J.300	'Testimonials 1949' Contents of envelope so inscribed.	1949
J.301	1949-1954	
J.302	1955-1958	
J.303	1959-1963	
J.304	1964-1965	
J.305	1966	
J.306	1967	
J.307	1968	
J.308	1969	
J.309	1970	
J.310	1971-1973	
J.311	1974-1976	
J.312	1978-1984	

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J.313, J.314	Miscellaneous references and recommendations	1954-1973
J.313	1954, 1957	
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