



THE ARCHIVES OF THE
CALIFORNIA INSTITUTE OF TECHNOLOGY

THE PAPERS OF GERRY NEUGEBAUER

Unit Date: 1954-1998
Subject area: Astrophysics
Extent: 10 linear feet
Processing completed: May, 2002
Processed by: Kevin C. Knox

THE PAPERS OF GERRY NEUGEBAUER

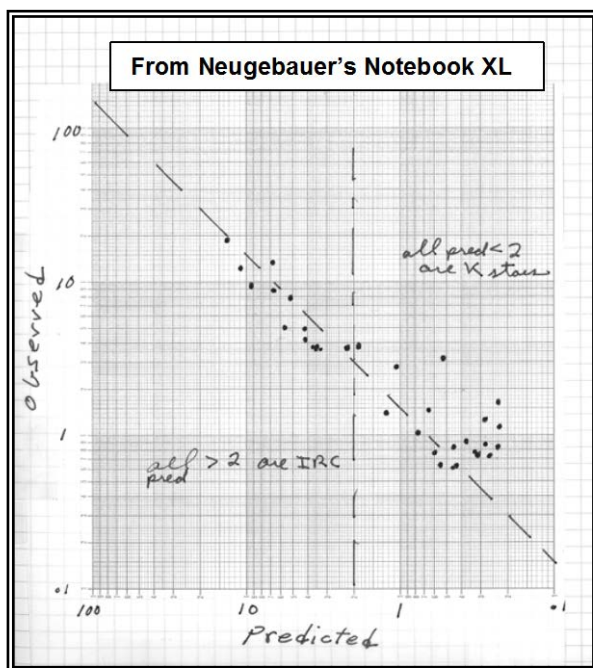
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THE PAPERS OF GERRY NEUGEBAUER

BIOGRAPHICAL SKETCH

DR. GERRY NEUGEBAUER was born in Göttingen, Germany, in 1932, the son of Otto Neugebauer. After moving to the United States he received his AB degree from Cornell University in 1954 and his PhD in physics from Caltech in 1960. He joined the Caltech faculty in 1962 as an assistant professor, becoming a full professor of physics in 1970. He served as the director of the Palomar Observatory from 1980, and he was named Howard Hughes Professor in 1985. Currently Dr. Neugebauer is the Emeritus Robert Andrews Millikan Professor of Physics.



Neugebauer is internationally recognized as a pioneer in infrared astronomy, and has played a leading role in infrared studies of the planets. In addition—and largely through his activities with the Infrared Astronomical Satellite (IRAS) and the Infrared Processing and Analysis Center (IRAC)—he has led both ground- and space-based infrared studies of the stars, the Milky Way and other galaxies. Observations by him and his colleagues at Mount Wilson and Palomar observatories have revealed hundreds of

new infrared sources in the sky, and afforded the first infrared view of the galactic center. He also played a major role in the design and construction of the W. M. Keck Observatory in Hawaii.

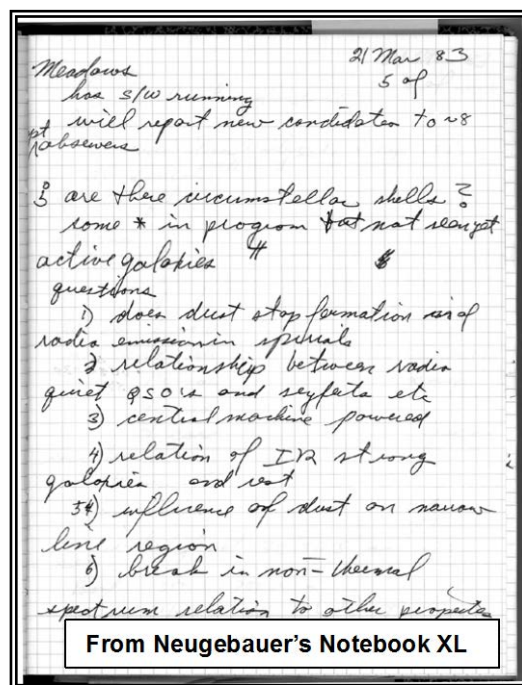
Among Neugebauer's numerous awards are two NASA Exceptional Scientific Achievement Medals (1972, 1984), the 1985 Space Science Award of the American Institute of Aeronautics and Astronautics, and the 1985 Richmyer Lecture Award. He was named California Scientist of the Year for 1986 by the Californian Museum of Science and Industry, and he has been elected to the National Academy of the Sciences, the American Philosophical Society, the American Academy of Arts and Sciences and the Royal Astronomical Society.

SCOPE AND CONTENT OF THE COLLECTION

GERRY NEUGEBAUER donated his papers to the Archives at the California Institute of Technology in April, 2002. Comprising 21 boxes and approximately ten linear feet, the collection includes early coursework, research material, technical designs and administrative correspondence and documents. The first series, Neugebauer's astronomical notebooks, encompasses eighty per cent of the collection and covers his astronomical work from the mid nineteen-sixties to the early nineties. The subject matter is diverse, ranging from technical designs to notes from meetings. Series II also includes diverse material. Within the series are numerous documents related to the operations and maintenance of Palomar's 60 and 200 inch telescopes, reports from the construction of the W.M. Keck Observatory in Hawaii, hundreds of photographic slides, graduate course notes and reports on the controversy concerning the construction of LIGO.

OTHER COLLECTIONS

There are a number of collections in the Caltech Archives related to Gerry Neugebauer and his diverse activities that researchers may wish to consult. For further material on the Palomar Observatory see also the collection of "Palomar papers". For more information on the Keck Observatory researchers may wish to consult the "Papers of the Keck telescope," as well as the collection of oral histories devoted to the subject. For the Laser Interferometer Gravitational-Wave Observatory (LIGO) project, there are, for example, the "Documents of the Drever-LIGO controversy" and the oral history of Kip Thorne, although both of these objects have restricted access.



Kevin C. Knox

May 2002

SERIES I: NOTEBOOKS: TECHNICAL AND MISCELLANEOUS NOTES

Box 1

<i>notebook no.</i>	<i>inclusive dates</i>
I	9 Jul 1964 – 11 Sep 1966
II	12 Sep 1966 – 20 Mar 1968
III	21 Mar 1968 – 10 Mar 1969
IV	10 Mar 1969 – 1 Jun 1970
V	1 Jun 1970 – 1 Nov 1971
VI	1 Nov 1971 – 8 May 1973
VII	8 May 1973 – 24 Apr 1974

Box 2

<i>notebook no.</i>	<i>inclusive dates</i>
VIII	24 Apr 1974 – 28 Dec 1974
IX	1 Jan 1975 – 21 Jul 1975
X	21 Jul 1975 – 2 Mar 1976
XI	3 Mar 1976 – 28 Aug 1976
XII	29 Aug 1976 – 18 Feb 1977
XIII	20 Feb 1977 – 6 Jul 1977
XIV	7 Jul 1977 – 3 Nov 1977

Box 3

<i>notebook no.</i>	<i>inclusive dates</i>
XV	4 Nov 1977 – 9 Feb 1978
XVI	9 Feb 1978 – 11 Aug 1978
XVII	13 Aug 1978 – 26 Jan 1979
XVIII	27 Jan 1979 – 13 Jun 1979
XIX	13 Jun 1979 – 1 Nov 1979
XX	1 Nov 1979 – 1 Feb 1980
XXI	1 Feb 1980 – 22 Apr 1980

Box 4

<i>notebook no.</i>	<i>inclusive dates</i>
XXII	23 Apr 1980 – 23 Jul 1980
XXIII	23 Jul 1980 – 19 Sep 1980
XXIV	20 Sep 1980 – 19 Jan 1981 (IRAS – Infrared Astronomical Satellite)
XXV	20 Sep 1980 – 20 Feb 1981
XXVI	20 Jan 1981 – 26 May 1981 (IRAS)
XXVII	21 Feb 1981 – 14 Jul 1981
XXVIII	27 May 1981 – 21 Aug 1981 (IRAS)

Box 5

<i>notebook no.</i>	<i>inclusive dates</i>
XXIX	14 Jul 1981 – 30 Dec 1981
XXX	21 Aug 1981 – 5 Dec 1981 (IRAS)
XXXI	5 Dec 1981 – 6 Apr 1982 (IRAS)
XXXII	1 Jan 1982 – 16 Jun 1982
XXXIII	6 Apr 1982 – 20 Aug 1982 (IRAS)
XXXIV	16 Jun 1982 – 1 Nov 1982
XXXV	23 Aug 1982 – 12 Nov 1982 (IRAS)

Box 6

<i>notebook no.</i>	<i>inclusive dates</i>
XXXVI	1 Nov 1982 – 29 Dec 1983
XXXVII	14 Nov 1982 – 13 Jan 1983 (IRAS)
XXXVIII	14 Jan 1983 – 15 Feb 1983 (IRAS)
XXXIX	15 Feb 1983 – 18 Mar 1983 (IRAS)
XL	19 Mar 1983 – 23 Apr 1983 (IRAS)

Box 7

<i>notebook no.</i>	<i>inclusive dates</i>
XLI	24 Apr 1983 – 16 Jun 1983 (IRAS)
XLII	17 Jun 1983 – 27 Aug 1983 (IRAS)
XLIII	27 Aug 1983 – 15 Nov 1983 (IRAS)
XLIV	15 Nov 1983 – 29 Feb 1984 (IRAS)
XLV	30 Dec 1983 – 27 Apr 1984

Box 8

<i>notebook no.</i>	<i>inclusive dates</i>
XLVI	1 Mar 1984 – 6 Aug 1984 (IRAS)
XLVII	27 Apr 1984 – 4 Oct 1984
XLVIII	6 Aug 1984 – 26 Mar 1985 (IRAS)
XLVIX	10 Oct 1984 – 17 Jan 1985
L	15 Jan 1985 – 14 Jun 1985
LI	27 Mar 1985 – 1 Jan 1986 (IRAS)

Box 9

<i>notebook no.</i>	<i>inclusive dates</i>
LII	15 Jun 1985 – 12 Nov 1985
LIII	13 Nov 1985 – 10 Mar 1986
LIV	3 Jan 1986 – 3 Dec 1986 (IRAS)
LV	11 Mar 1986 – 13 Jul 1986
LVI	14 Jul 1986 – 4 Nov 1986
LVII	4 Nov 1986 – 23 Mar 1987

Box 10

<i>notebook no.</i>	<i>inclusive dates</i>
LVIII	23 Mar 1987 – 17 Jun 1987
LIX	17 Jun 1987 – 20 Oct 1987
LX	21 Oct 1987 – 16 Dec 1987
LXI	16 Dec 1987 – 17 Feb 1988
LXII	17 Feb 1988 – 22 Apr 1988 [note: mislabeled “22 Feb”]
LXIII	24 Apr 1988 – 15 Aug 1988 [note: mislabeled “24 Feb”]

Box 11

<i>notebook no.</i>	<i>inclusive dates</i>
LXIV	15 Aug 1988 – 4 Oct 1988
LXV	4 Oct 1988 – 1 Dec 1988
LXVI	1 Dec 1988 – 6 Feb 1989
LXVII	6 Feb 1989 – 29 Mar 1989
LXVIII	29 Mar 1989 – 6 Jun 1989
LXIX	8 Jun 1989 – 24 Aug 1989

Box 12

<i>notebook no.</i>	<i>inclusive dates</i>
LXX	24 Aug 1989 – 12 Nov 1989
LXXI	13 Nov 1989 – 23 Jan 1990
LXXII	24 Jan 1990 – 27 Mar 1990
LXXIII	27 Mar 1990 – 27 May 1990
LXXIV	29 May 1990 – 26 Jul 1990
LXXV	27 Jul 1990 – 22 Oct 1990

Box 13

<i>notebook no.</i>	<i>inclusive dates</i>
LXXVI	22 Oct 1990 – 11 Dec 1990
LXXVII	11 Dec 1990 – 25 Jan 1991
LXXVIII	25 Jan 1991 – 5 Mar 1991
LXXIX	5 Mar 1991 – 16 Apr 1991
LXXX	16 Apr 1991 – 5 Jun 1991
LXXXI	6 Jun 1991 – 9 Aug 1991
LXXXII	9 Aug 1991 – 4 Nov 1991

Box 14

<i>notebook no.</i>	<i>inclusive dates</i>
LXXXIII	4 Nov 1991 – 28 Jan 1992
LXXXIV	28 Jan 1992 – 7 Apr 1992
LXXXV	7 Apr 1992 – 5 Jun 1992
LXXXVI	5 Jun 1992 – 16 Jul 1992
LXXXVII	16 Jul 1992 – 31 Aug 1992
LXXXVIII	1 Sep 1992 – 16 Oct 1992

Box 15

<i>notebook no.</i>	<i>inclusive dates</i>
LXXXIX	16 Oct 1992 – 19 Nov 1992
XC	20 Nov 1992 – 9 Jan 1993
XCI	9 Jan 1993 – 29 Jan 1993
XCII	29 Jan 1993 – 25 Feb 1993
XCIII	25 Feb 1993 – 23 Mar 1993
XCIV	24 Mar 1993 – 3 May 1993

Box 16

<i>notebook no.</i>	<i>inclusive dates</i>
XCV	3 May 1993 – 3 Jun 1993
XCVI	3 Jun 1993 – 15 Jul 1993
XCVII	15 Jul 1993 – 9 Sep 1993
XCVIII	9 Sep 1993 – 22 Oct 1993
XCIX	22 Oct 1993 – 26 Jan 1994

Box 17

<i>notebook no.</i>	<i>inclusive dates</i>
C	26 Jan 1994 – 22 Feb 1994
CI	23 Mar 1994 – 6 Jul 1995
CII	7 Aug 1995 – 19 Sep 1996
CIII	19 Sep 1996 – 13 Aug 1998

SERIES II: OTHER PAPERS AND MATERIAL

A. PALOMAR OBSERVATORY

Box 18

	200 inch telescope
	Documents and correspondence
18.1	1987
18.2	1988
18.3	1989
18.4	1990
18.5	1991
18.6	1992
18.7	1993
18.8	1994
	60 inch telescope
	Documents and correspondence
18.9	1965-80
18.10	1989

18.11	1990
18.12	1991
18.13	1992

B. KECK OBSERVATORY

Box 18 cont.

18.14	Keck Observatory: reports 1989-90
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C. PHOTOGRAPHIC SLIDES

Box 19

19.1	Miscellaneous astronomical images, graphs and observatories c. 1970-90
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D. COURSE NOTEBOOKS

Box 20

20.1	Physics 205: Quantum Mechanics 1954
20.2	Astronomy 131: Astrophysics 1954
20.3	Physics 131a; Physics 2a; Physics 2b 1954-57
20.4	Physics 205: Quantum Electrodynamics 1955

Box 21

21.1	Astronomy 132: Stellar Interiors 1955-56
21.2	Physics 102 no date

E. THE DREVER-LIGO CONTROVERSY

Box 21 cont.

	<i>The Drever-LIGO Controversy</i> (Note: closed until May 2015) 1994
21.3	<i>Part One – Response to AFTC</i>
21.4	<i>Part Two – Response to DGD</i>
21.5	<i>Part Three – Arbitration Process</i>