

VITA AND BIBLIOGRAPHY

GIOVANNI G. FAZIO

I. ADDRESS

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II. EDUCATION

St. Mary's University (Texas), B.S., Physics (1954); Summa Cum Laude
St. Mary's University (Texas), B.A., Chemistry (1954); Summa Cum Laude
Massachusetts Institute of Technology, Ph.D., Physics (1959)

III. EMPLOYMENT HISTORY

Current Positions:

1983- Senior Physicist, Harvard Smithsonian Center for Astrophysics
1987- Faculty, International Space University, Strasbourg, France
1962-02, 2004- Lecturer, Astronomy Department, Harvard University

Previous Positions:

1954-56 Teaching Assistant, Massachusetts Institute of Technology
1955-56 Physicist, Nucleonics Division, Naval Research Laboratory
1956-59 Research Assistant, Massachusetts Institute of Technology
1959-61 Research Associate and Instructor, University of Rochester
1961-62 Assistant Professor of Physics, University of Rochester
1961-62 Guest Associate Physicist, Brookhaven National Laboratory
1997 Research Associate, Harvard College Observatory
1962-83 Physicist, Smithsonian Astrophysical Observatory
1987-93 Chair and Co-Chair, Space Physical Sciences Department, International
 Space University
1993 Dean, International Space University, Summer Session

IV. FELLOWSHIPS AND AWARDS

1968 NATO Senior Fellowship in Science (U.K. Atomic Energy Research Establishment, Harwell, England)
1970 NATO Senior Fellowship in Science (U.K.A.E.R.E., Harwell, England)

1975	Elected Fellow, American Physical Society
1977	Smithsonian Institution Women's Program Certificate of Appreciation
1979	Distinguished Alumnus of the Year, St. Mary's University (Texas)
1980	Elected Fellow, American Association for the Advancement of Science
1981	Award for Exceptional Service Rendered in the Performance of Duty, Smithsonian Institution
1984	Award for Exceptional Service Rendered in the Performance of Duty, Smithsonian Institution
1986	Elected Corresponding Member, International Academy of Astronautics
1986	National Aeronautics and Space Administration Public Service Group Achievement Award, Spacelab 2 Payload Principal Investigator Team
1990	Award for Exceptional Service Rendered in the Performance of Duty, Smithsonian Institution
1996	Award in Official Recognition of Special Achievement reflecting a High Standard of Accomplishment, Smithsonian Institution
1997	"Most Caring Employee" Award, Smithsonian Astrophysical Observatory.
1998	Tsiolkovsky Medal, Russia's State Museum of the History of Cosmonautics, for contributions to international space cooperation.
1998	Award in Official Recognition of Special Achievement Reflecting a High Standard of Accomplishment, Smithsonian Institution
2002	Award in Official Recognition of Special Achievement Reflecting a High Standard of Accomplishment, Smithsonian Institution.
2004	Award of Official Recognition of Special Achievement Reflecting a High Standard of Accomplishment, Smithsonian Institution.
2004	Certificate of Appreciation, Jet Propulsion Laboratory/Caltech, for contributions to the successful launch and operation of the Spitzer Space Telescope.
2004	NASA Group Achievement Award for the Spitzer Space Telescope Mission Operations Team.
2004	NASA Group Achievement Award for the Spitzer Space Telescope Payload Team.
2004	NASA Group Achievement Award for the Spitzer Space Telescope Helium Utilization Intergrated Product Team.
2005	UNICO National Marconi Science Award and Medal.
2005	NASA Public Service Medal.
2006	The McMaster Cosmology Colloquium, University of Toledo
2008	The Royal Society of London/COSPAR Massey Award (Gold Medal)

2009	Celebrating 50 Years of Astrophysics: A Symposium Honoring Giovanni Fazio
2009	Smithsonian Institution, Smithsonian Distinguished Scholar Award
2010	Astronomical Society of the Pacific Mulhman Award to the Spitzer Space Telescope Team
2010	NASA Group Achievement Award, Spitzer IRAC IWIC Anomaly Recovery Team
2012	Ph.D. Degree, honoris causa, St. Mary's University, Texas.
2012	Commencement Speaker, St. Mary's University, Texas
2014	NASA Group Achievement Award, Spitzer OPZ Operations Re-Engineering Team
2015	American Astronomical Society Henry Norris Russell Lectureship prize and lecture
2017	NASA Group Achievement Award, Spitzer Microlensing Ground System Adaptation Team
2019	SPIE George W. Goddard Award in Space and Airborne Optics

V. **PROFESSIONAL ORGANIZATIONS**

(a) Membership:

American Association for the Advancement of Science (Fellow)
 American Astronomical Society (Legacy Fellow)
 American Physical Society (Fellow)
 American Radio Relay League (W1BFO)
 International Astronomical Union
 Optical Society of America
 Royal Astronomical Society (Fellow)
 SPIE
 Sigma Xi

(b) Offices Held in Professional Organizations:

American Physical Society

1973-74	Member, Nominating Committee, Division of Cosmic Physics
1981-82	Chairman, Nominating Committee, Division of Cosmic Physics
1986-87	Vice-Chairman, Astrophysics Division
1987-88	Chairman, Astrophysics Division
1988-89	Member, Executive Committee, Astrophysics Division
1988-89	Division Representative (Acting), APS Council
1989-90	Member, Nominating Committee, Astrophysics Division

2000-01 Member, Hans Bethe Prize Committee

American Astronomical Society

1993-94 Officer, High Energy Astrophysics Division

1979 Chairman, High Energy Astrophysics Division

1980 Member, Committee on AAS Meetings

International Astronomical Union

1967- Member, IAU Commission 44 (Astronomy from Space)

1970- Member, IAU Commission 48 (High Energy Astrophysics)

1980 IAU Representative to COSPAR Commission E-1 (Galactic and Extragalactic Astrophysics)

1982 IAU Representative to COSPAR Symposium on Advanced Space Instrumentation, Ottawa, Canada

1987- Member, IAU Commission 51 (Bioastronomy)

1988-91 Member, Organizing Committee, IAU Commission 44 (Astronomy from Space)

1991-94 Vice President, IAU Commission 44 (Astronomy from Space)

1994-97 President, IAU Commission 44 (Space and High Energy Astrophysics)

1994-97 President, IAU Division XI (Space and High Energy Astrophysics)

1997-00 Member, Organizing Committee, Division XI (Space and High Energy Astrophysics)

International Council of Scientific Unions, Committee on Space Research (COSPAR)

1979- Member, COSPAR Interdisciplinary Scientific Commission E on Research in Astrophysics from Space

1980-86 Executive Member, COSPAR Commission ISC-E

1982-86 Vice-Chairman, COSPAR Commission ISC-E (Research in Astrophysics from Space)

American Association for the Advancement of Science (AAAS)

2009-12 Member, Electorate Nominating Committee, Astronomy Section

VI. ADVISORY COMMITTEES

(a) National Aeronautics and Space Administration (NASA)

- 1966 Member, NASA Committee on Study of Manned Space Investigation in X- and Gamma-Ray Astronomy
- 1967 Member, Astronomy Working Group, NAS 1967 Summer Study of Lunar Science and Exploration
- 1968-69 Member, X-Ray and Gamma Ray Panel, NASA Astronomy Missions Board
- 1976-85 Member, NASA Airborne Astronomy Management and Operations Working Group
- 1977-79 Member, Focal Plane Instruments and Requirements Team Working Group, Shuttle Infrared Telescope Facility
- 1981 Member, Ad Hoc Subcommittee, NASA High Energy Astrophysics Management and Operations Working Group
- 1982 Member, Shuttle Infrared Telescope Facility Technology Review Panel
- 1982 Member, Large Deployable Reflector (LDR) Science and Technology Workshop
- 1983-86 Member, NASA Balloon Working Group
- 1984-88 Member, Space and Earth Sciences Advisory Committee (SESAC) Task Force on the Scientific Uses of the Space Station; Associate Member of SESAC.
- 1985-88 Member, Space Station Users Working Group, NASA Goddard Space Flight Center
- 1985-88 Member, Astrophysics Management and Operations Working Group (Astrophysics Council)
- 1985-89 Stratospheric Observatory for Infrared Astronomy (SOFIA) Science Consulting Group
- 1990 Co-Chairman, Infrared/Submillimeter/Radio Astrophysics Research and Analysis Program Proposal Review
- 1990-93 NASA/GSFC Space Sciences Visiting Committee
- 1992 Member Peer Review Team, University of Arizona/NASA Space Engineering Research Center for the Utilization of Local Planetary Resources
- 1999 Member, Peer Review Team, Pre-Phase A Studies of Science Instrument Concepts for the Next Generation Space Telescope (NGST)
- 2000 Member, NASA SOFIA Science Instrument Development Advisory Group (SIDAG)
- 2011 NASA JWST Analysis of Alternatives (AoA) Survey Team
- 2012 Member, NASA ARPA-SAT Visible and NIR Detectors Panel
- 2014 Member, SOFIA Science Assessment Review
- 2013-16 Member, NASA Astrophysics Subcommittee

(b) Association of Universities for Research in Astronomy, Inc. (AURA)

- 1987-90 Member, NOAO Observatories Visiting Committee

2009-15 Member, Space Telescope Institute Council (STIC)

2014-15 Member, AURA Space Telescope Science Institute Director Search Committee

(c) University Center for Atmospheric Research (UCAR)

1973 Member, University Center for Atmospheric Research Board of Trustees' Committee on the Budget and Program of the National Scientific Balloon Facility.

1973-75 Member and Vice-Chairman, Scientific Advisory Committee of the National Scientific Balloon Facility.

1975-76 Chairman, Scientific Advisory Committee, National Scientific Balloon Facility.

1977-79 Member, Scientific Advisory Committee, National Scientific Balloon Facility.

1981 Member, UCAR Workshop on Scientific Ballooning in the United States, Washington, D.C.

(d) National Academy of Sciences (NAS)

1965 Member, Working Group on X- and Gamma-Ray Astronomy, Space Science Board, Study in Space Research, Woods Hole, MA.

1970 Member, X-Ray and Gamma-Ray Panel, Astronomy Survey Committee.

1980 Member, National Research Council, Commission on Human Resources, team to evaluate NRC Fellowships at NASA/MSFC

1987 Member, National Research Council/Naval Studies Board on ONR Research Opportunities in Astronomy and Astrophysics

1991 Member, National Research Council/Naval Studies Board on ONR Research Opportunities in Astronomy and Astrophysics

(e) Max Planck Institute

1981-88 Member, Scientific Advisory Committee (Fachbeirat) Max-Planck Institute of Extraterrestrial Physics, Munich, West Germany

(f) St. Mary's University (Texas)

1999 Member, Board of Trustee's Advisory Committee

2012- Member, Advisory Board, School of Science, Engineering, and Technology

2012 Commencement Speaker, December 2012 Graduation Exercises

(g) National Science Foundation

1985-86 NSF Advisory Committee for Astronomical Sciences, Subcommittee on Large Optical/Infrared Telescopes

(h) Universities Space Research Association (USRA)

1988-91 Member, USRA Science Council for Astronomy and Space Physics

1991-95 Chairman, USRA Science Council for Astronomy and Space Physics

1997-03 Member USRA Stratospheric Observatory for Infrared Astronomy (SOFIA) Science Council

2006 Member, Review Committee, NASA Proposal

2010 Member, SOFIA Science Instrument Development Advisory Group (SIDAG)

(i) Massachusetts Institute of Technology

1989-93 Visiting Committee, Physics Department

(j) Infrared Processing and Analysis Center (IPAC), California Institute of Technology

1992 Member, IPAC Visiting Committee

(k) International Space University (ISU)

1987-93 Chair and Co-Chair, Space Physical Sciences Department

1987-93 Member, Board of Director's Advisory Committee on Education

1991-93 Member, Master of Space Studies Working Group

1993 Chair, Review Committee for Selection of Affiliated Campuses

1994-96 Chair, Academic Council

1993-95 Chair, Presidential Search Committee

1994 Chair, Dean Search Committee

1993 Member, Governing Membership

1997 Chair, Presidential Search Committee

1998 -19 Chair, Committee on Academic Appointments, Review and Evaluation (CARE)

2006-09 Member, Academic Council

2013-18 Member, ISU Research Steering Committee
2019- Vice-Chair, Committee on Academic Appointments, Review and Evaluation (CARE)

(l) Spitzer Science Center

2002 Member, SIRTf Name Committee, SIRTf Science Center
2002 Member, SIRTf Science Center Operations Review
2003 Member, SIRTf Mission Science Strategy Review, SIRTf Science Center

(m) Micro Satellite Launch Systems, Inc.

1989-93 Science Advisor

(n) HiEnergy Microdevices Inc. (Irvine, CA)

1995-05 Science Advisor

(o) Space Adventures Inc. (Rockville, MD)

1995 Science Advisor

VII. ORGANIZATIONAL RESPONSIBILITY FOR SCIENTIFIC MEETINGS AND CONFERENCES

1967 Member, Organizing Committee, Joint Discussions on New Techniques in Space Astronomy, XIII, General Assembly of the International Astronomical Union, Prague.
1994 Member, Organizing Committee, IAU Symposium No. 55 on X- and GammaRay Astronomy, Madrid.
1975-76 Chairman, COSPAR/IAU/URSI Symposium on Infrared and Submillimeter Astronomy, Philadelphia.
1977 Co-Director, NATO Advanced Study Institute on Infrared Astronomy, Erice, Sicily.
1979 Member, Organizing Committee, Space Optics Symposium, SPIE, Huntsville Electro-Optical Technical Symposium and Workshop.
1979-80 Member, Scientific Organizing Committee, IAU Symposium No. 96 on Infrared Astronomy, Kailua-Kona, Hawaii.
1979-80 Member, Organizing Committee, High Energy Astrophysics Division, American Astronomical Society Meeting on X-Ray Astronomy, Cambridge, Massachusetts.
1979 Member, Advisory Committee, Fourth International Conference on Infrared and Submillimeter Waves, Miami Beach, Florida.
1980-82 Member, Organizing Committee, COSPAR Symposium on Advanced Space Instrumentation, Toronto, Canada.

- 1981 Co-Chairman, SPIE Symposium on Shuttle Optical Environment, Washington, D.C.
- 1982 Member, Organizing Committee, SPIE Symposium on Instrumentation in Astronomy - IV, Tucson, Arizona.
- 1983-84 Member, International Organizing Committee, Third International Conference on Infrared Physics (CIRP 3), Zurich, Switzerland.
- 1984 Chairman, COSPAR XXV, Topical meeting on Infrared Astronomy from Space, Graz, Austria.
- 1986 Member, Program Committee, SPIE Conference on Instrumentation in Astronomy VI.
- 1986 Chairman, COSPAR XXII, Workshop on Contamination Environment of the Space Shuttle for Astronomical Observations, Toulouse, France.
- 1987-88 Member, International Organizing Committee, Fourth International Conference on Infrared Physics (CIRP 4), Zurich, Switzerland.
- 1987 Chairman, Organizing Committee, Symposium on Dark Matter and Large Scale Structure of the Universe, American Physical Society Meeting, Crystal City, Virginia.
- 1990 Co-Chair, Organizing Committee, Symposium on Currents in Astrophysics and Cosmology, honoring the 75th birthday of Dr. Maurice M. Shapiro, Washington, D.C.
- 1993-94 Member, International Organizing Committee, Texas Symposium 1994, Munich, Germany
- 1993 Member, Organizing Committee, US/India Program Workshop on AGN and Quasars at the Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India.
- 1994 Member, Organizing Committee, US/India Program Workshop on Array Detectors and Image Processing at the Inter University Center for Astronomy and Astrophysics (IUCAA), Pune, India.
- 1996-97 Member, Scientific Organizing Committee, Joint Discussion 18, High Energy Transients, XXIII General Assembly of the International Astronomical Union, August 18-28, 1997, Kyoto, Japan.
- 1998-99 Member, Scientific Organizing Committee IAU Symposium No. 195, and X-Ray Emission from Astrophysical Plasmas July 6-11, 1999, Bozeman, Montana, USA
- 1998-99 Member, Scientific Organizing Committee "A New Millennium for Galaxy Morphology: From $z=0$ to the Lyman Break" September 13-18, 1999, Johannesburg, South Africa
- 2004 Member, Scientific Organizing Committee "The Spitzer Space Telescope: New Views of the Cosmos", Pasadena, CA.
- 2005 Member, Scientific Organizing Committee, Lijiang International Starburst Workshop, Lijiang, China.
- 2006 Member, Scientific Organizing Committee, Studying Galaxy Evolution with Spitzer and Herschel, Agios Nikolaos, Crete, Greece.
- 2007 Co-Chair, Scientific Organizing Committee, Legacy of Multi-Wavelength Surveys Conference, Xining, China
- 2008 Member, Scientific Organizing Committee, The Starburst-AGN Connection Conference, Shanghai, China.

- 2010 Member, Organizing Committee, Galaxies and their Masks, A Conference to Honor Ken Freeman, Sossusvlei, Namibia.
- 2010 Co-Chair, Astronomical Telescopes and Instrumentation I: Optical, Infrared and Millimeter, SPIE Meeting, San Diego, CA.
- 2010 Co-Chair, Scientific Organizing Committee, Symposium on Galaxy Evolution: Infrared to Millimeter Perspective, Guilin, China.
- 2012 Chair, Astronomical Telescopes and Instrumentation I: Optical, Infrared and Millimeter, SPIE Meeting, Amsterdam, The Netherlands
- 2014 Chair, Astronomical Telescopes and Instrumentation I: Optical, Infrared and Millimeter, SPIE Meeting, Montreal, Canada.
- 2014 Member, Scientific Organizing Committee, Lessons Learned from the Local Group, The Block-Elementary Conference, Seychelles.
- 2014 Member, Scientific Organizing Committee, Joint WISH + First Galaxies International Workshop, Marseille, France.
- 2016 Chair, Space Telescopes and Instrumentation I: Optical, Infrared and Millimeter, SPIE Meeting, Edinburgh, Scotland, UK.
- 2017 Member, Program Committee, UVOIR Space Telescope Conference VII, SPIE 2017 Optics and Photonics Conference, San Diego, CA.
- 2018 Chair, Space Telescopes and Instrumentation I: Optical, Infrared and Millimeter, SPIE Meeting, Austin, Texas.
- 2019 Member, Program Committee, UV/Optical/IR Space Telescopes and Instruments, SPIE Meeting, San Diego, CA.

VIII. EDITORIAL RESPONSIBILITIES

- 1985-99 Regional Editor, Astrophysical Letters and Communications
- 2012- Founder and Editor-in-Chief, Journal of Astronomical Instrumentation
- 2012- Editor-in-Chief, Encyclopedia of Cosmology, a set of four books on Dark Energy, Dark Matter, Galaxy Formation and Evolution, and Numerical Simulations in Cosmology, World Scientific Publishing Co., 2018
- 2018- Editor-in-Chief, Encyclopedia of Cosmology II, World Scientific Publishing Co.

IX. Ph.D. THESIS STUDENTS

Joseph Dolan	1966
Floyd Stecker	1968
David Hearn	1968
George Rieke	1969
Chung-Chieh Cheng	1970 (deceased)
Jonathan Grindlay	1971
Stephen J. Cavrak, Jr.	1971
Catherine Cesarsky	1972
James Eliot	1972 (deceased)
Edward L. Wright	1976
Marc Aaronson	1977 (deceased)
Mark Steir	1980
Daniel Jaffe	1981
Sten Odenwald	1982
Richard Tresh-Feinberg	1985
Lynne Deutsch	1990 (deceased)
Steve Eikenberry	1997
Petri Vaisanen	1999
Massimo Marengo	2000
Ray Jayawardana	2000 (with Lee Hartmann)
Scott Ransom	2001
Kamson Lai	2008
Shinae Park	2009
Joshua Younger	2009 (with Lars Hernquist)
Stephanie Bush	2010 (with Lars Hernquist)
Vivian U	2011 (with David Sanders)
Yu (Sophia) Dai	2013
Allyson Reneau	2016 (MLA)

BIBLIOGRAPHY

GIOVANNI G. FAZIO

I. BOOKS

(a) Books Edited

- 1977 Infrared and Submillimeter Astronomy, ed. by G. G. Fazio, Astrophysics and Space Science Library, D. Reidel Publishing Co., Dordrecht, Holland.
- 1978 Infrared Astronomy, ed. by G. Setti and G. G. Fazio, Proceedings of the NATO Advanced Study Institute, Erice, Sicily. July 9-20, 1977, D. Reidel Publishing Co., Dordrecht, Holland.
- 1981 Shuttle Optical Environment, ed. by E. R. Miller and G. G. Fazio, Proceedings of SPIE, vol. 287, The International Society for Optical Engineering, Bellingham, Wash.
- 1985 Advances in Space Research "Astronomy from Space", Vol. 5, No. 3, ed. by G. G. Fazio, J. A. M. Bleeker, P. A. J. De Korte, J. J. Caldwell. Pergamon Press, Oxford, England.
- 1987 Advances in Space Research "Environments of Planetary Bodies and Shuttle", Vol. 7, 1987, ed. by J. Oro, T. Owen, F. Raulin, G. G. Fazio. Pergamon Press, Oxford, England.
- 1988 Infrared Astronomical Satellite and the Space Infrared Telescope Facility, Giovanni G. Fazio, a Special Issue of the Journal of Astrophysical Letters and Communications, Gordon and Breach Science Publishers, Ltd.
- 1990 Spacelab 2 Mission, Giovanni G. Fazio, a Special Issue of the Journal of Astrophysical Letters and Communications, Gordon and Breach Science Publishers, Ltd.
- 1993 Currents in Astrophysics and Cosmology, ed. by G. G. Fazio and R. Silberberg. Cambridge University Press.
- 2018 Encyclopedia of Cosmology, ed. by G. G. Fazio, World Scientific Publishing Co.

(b) Chapters in Books

- 1967 Gamma Radiation from Celestial Objects, in Ann. Rev. Astron. and Astrophysics, 5, 481-525.
- 1974 X-Ray and Gamma-Ray Detection by Means of Atmospheric Interactions: Fluorescence and Cerenkov Radiation, in Methods of Experimental Physics, 12, 315359, ed. by N. P. Carleton, Academic Press, New York.
- 1976 Infrared Astronomy, in Frontiers of Astrophysics, pp. 203-258, ed. by E. H. Avrett, Harvard University Press, Cambridge, Mass.
- 1978 Infrared Astronomy, in High Energy Astrophysics, Summer School of Space Physics, La Rochelle, France, 1976, ed. by G. Vedrenne.

- 1978 Infrared Observations of HII Regions, in Infrared Astronomy, pp. 25-49, ed. by G. Setti and G. G. Fazio, D. Reidel Publishing Co., Dordrecht, Holland.
- 1999 The Space Environment: Vacuum, Temperature and Microgravity, in Fundamentals of Space Life Sciences, Vol. 1, ed. by S. Churchill. Kreiger Publishing Co., Malabar, Florida.
- 1999 The Space Environment: The Electromagnetic Spectrum, in Keys to Space. An Interdisciplinary Approach to Space Studies, p. 3-12 to 3-19, ed. by A. Houston and M. Rycroft, McGraw Hill Companies, Inc., New York.
- 1999 Space Physical Sciences: Our Universe, in Keys to Space. An Interdisciplinary Approach to Space Studies, p. 17-3 to 17-7, ed. by A. Houston and M. Rycroft, McGraw Hill Companies, Inc., New York.
- 1999 Space Physical Sciences: Stars: Their Birth, Evolution and Death, in Keys to Space. An Interdisciplinary Approach to Space Studies, p. 3-12 to 3-19, ed. by A. Houston and M. Rycroft, McGraw Hill Companies, Inc., New York.
- 2004 Recent Results from the Spitzer Space Telescope: A New View of Galaxy Morphology and Classification, in Penetrating Bars Through Masks of Cosmic Dust, p. 389-404, ed. by D.L. Block, I. Puerari, K.C. Freeman, R. Groess, E.K. Block, Springer, The Netherlands.
- 2005 Recent Results from the Spitzer Space Telescope: A New View of the Infrared Universe, in Neutrinos and Explosive Events in the Universe, p. 47-71, ed. By M.M. Shapiro, T. Stanev and J.P. Wefel, Springer.
- 2010 Spitzer's View of Galaxies in the High Redshift Universe, in Galaxies and their Masks, p. 425-436, ed. by David L. Block, Kenneth C. Freeman, and Ivanio Puerari, Springer.
- 2012 Photography Changes What We Can See in the Universe, in Photography Changes Everything, p. 71-72, ed. by Marvin Heiferman, Smithsonian Institution and Aperture Foundation.
- 2014 The Local Group Through the Eyes of the Spitzer Space Telescope, in Lessons from the Local Group, A Conference in honour of David Block and Bruce Elmegreen, p. 119-135, ed. by Kenneth C. Freeman, Bruce Elmegreen, David L. Block, and Matthew Woolway, Springer.

II. PAPERS IN REFEREED JOURNALS, CONTRIBUTIONS TO CONFERENCE PROCEEDINGS,
AND OTHER PUBLICATIONS.

- 1959 *Search for Anomalous Mass and Lifetime Values in Sea-Level Cosmic Radiation*, Fazio, Giovanni Gene, Ph.D. Thesis, Massachusetts Institute of Technology.
- 1959 Sea-level cosmic-ray mass spectrum in the Interval 30 me-2000 me (with M. Widgoff). *Phys. Rev.*, 116, 1263-1266.
- 1959 Search for anomalous lifetime values in the Sea-level Cosmic Radiation (with D. M. Ritson). *Phys. Rev.*, 116, 1267-1269.
- 1961 Directional high energy gamma-ray counter (with E. M. Hafner). *Rev. Sci. Instr.*, 32, 697-702.
- 1961 π -meson production in 2.9-Bev p-p collisions (with A. C. Melissinos, T. Yamanouchi, S. J. Lindenbaum, and L. C. L. Yaun). *Phys. Rev., Lett.* 7, 454-457.
- 1962 Monopolar and bipolar stimulation of the brain (with E. S. Boyd and P. Stark). *Amer. J. Physiol.*, 203, 371.
- 1962 pi-meson production in 2.9-Bev p-p collisions (with A. C. Melissinos, T. Yamanouchi, S. J. Lindenbaum, and L. C. L. Yaun). *Phys. Rev.* 128, 2373-2381.
- 1963 Gamma rays at high altitudes (with J. G. Duthie, E. M. Hafner, and M. F. Kaplon). *Phys. Rev. Lett.* 10, 364-367.
- 1963 High-energy gamma-ray astronomy (with C. J. Cook and E. M. Hafner). *IEEE Trans. Nucl. Sci.*, NS-10, 10-14.
- 1963 Production of pi-mesons and gamma radiation in the galaxy by cosmic rays (with J. B. Pollack). *Phys. Rev.* 131, 2684-2691.
- 1963 The cosmic ray exposure age of the Farmington meteorite from radioactive isotopes (with J. DeFelice and E. L. Fireman). *Science*, 142, 673-674.
- 1963 Comments on gamma rays. In AAS-NASA Symposium on the Physics of Solar Flares, Goddard Space Flight Center, Greenbelt, MD., NASA SP-50, p. 145.
- 1964 A vidicon spark chamber system for use in artificial earth satellites, *Proceedings of Symposium on Filmless Spark Chamber Techniques and Associated Computer Uses*. Geneva, Switzerland, CERN Report 64-30.
- 1965 The gamma-ray spectrum of the sun (with J. F. Dolan). *Rev. Geophys.* 3, 319-343.
- 1965 Nuclear interactions of cosmic rays as the source of the synchrotron radiating particles of our galaxy (with J. B. Pollack). *Astrophys. J.* 141, 730-744.
- 1966 Cosmic black-body radiation, high-energy electrons, and the origin of isotropic X-ray and gamma radiation (with J. Wright and F. Stecker). *Astrophys. J.* 144, 611-614.
- 1966 Vidicon spark chamber system for gamma ray astronomy (with H. Helmken). *IEEE Trans. Nucl. Sci.* NS-13, 486-492.

- 1967 On the possibility of searching for quarks by radio- astronomical techniques (with R. Zuckerman). *Astrophys. J.* 147, 1196-1199.
- 1967 Gamma radiation from celestial objects. *Ann. Rev. Astron.Astrophys.* 5, 481-524.
- 1967 The OSO-1 high-energy gamma-ray experiment (with E. M. Hafner). *J. Geophys. Res.* 72, 2452-2455.
- 1968 The effects of the decay of nucleon isobars and hyperons on the cosmic gamma-ray spectrum (with F. W. Stecker and S. Tsuruta). *Astrophys. J.* 151, 881-893.
- 1968 Search for cosmic gamma radiation with a vidicon spark chamber (with H. F. Helmken, S. J. Cavrak, and D. R. Hearn). *Can. J. Phys.* 46, S427-S432.
- 1968 An experiment to search for discrete sources of cosmic gamma rays in the 10^{11} -to 10^{12} -eV region (with H. Helmken, G. H. Rieke, and T. C. Weekes). *Can. J. Phys.* 46, S451-S455.
- 1968 Application of the vidicon spark chamber to gamma-ray astronomy from highaltitude balloons and satellites (with H. F. Helmken). *Can. J. Phys.* 46, S456-460.
- 1968 A search for discrete sources of cosmic gamma rays of energies near 2×10^{12} eV (with H. G. Helmken, G. H. Rieke, and T. C. Weekes). *Astrophys. Journ. (Lett.)*, 154, L83-L89.
- 1968 Solar gamma rays and their correlation with space and ground-based observations. In Highlights of Astronomy, ed. by L. Perek, D. Reidel Publ. Co., Dordrecht, Holland, pp. 544-546.
- 1968 Upper limits to the gamma-ray fluxes from three pulsating radio sources (with H. F. Helmken, G. H. Rieke, and T. C. Weekes). *Nature*, 220, 892-893.
- 1969 The design of an air fluorescence experiment to search for X-rays and gamma rays from pulsars (with J. V. Jelley). United Kingdom Atomic Energy Authority Research Group Report, AERE-R 6095.
- 1970 High-energy gamma-ray astronomy. *Nature*, 225, 905-911.
- 1970 A 10-meter light collector to search for cosmic gamma rays. In Enciclopedia della Scienza e della Tecnica, Mondadori, S + T, Italy.
- 1970 Upper-air fluorescence as a tool in X-ray astronomy and searches for X-rays from NP 0532 and other pulsars (with W. N. Charman, R. W. P. Drever, J. H. Fruin, J. V. Jelley, J. L. Elliot, D. R. Hearn, H. F. Helmken, G. H. Rieke, and T. C. Weekes). In Non-Solar X- and Gamma-Ray Astronomy, Proc. IAU Symp., No. 37, ed. by L. Gratton, D. Reidel Publ. Co., Dordrecht, Holland, pp. 41-49.
- 1970 A search for high-energy gamma-rays from pulsars (with D. R. Hearn, H. F. Helmken, G. H. Rieke, and T. C. Weekes). In Non-Solar X- and Gamma-Ray Astronomy, Proc. IAU Symp., No. 37, ed. by L. Gratton, D. Reidel Publ. Co., Dordrecht, Holland, pp. 192-195.
- 1970 Upper limits to the emission of 10^{11} -eV gamma rays from discrete sources (with H. F. Helmken, G. H. Rieke, and T. C. Weekes). *Acta Phys. Acad. Scient. Hungarica*, 29, suppl. 1, 115-121.
- 1970 Predicted high energy break in the isotropic gamma ray spectrum: A test of cosmological origin (with F. W. Stecker). *Nature*, 226, 135-136.
- 1970 Generation of Cerenkov light flashes by cosmic radiation within the eyes of the Apollo astronauts (with J. V. Jelley and W. N. Charman). *Nature*, 228, 260-264.

- 1970 X-ray and gamma-ray astronomy. In Proceedings 6th Interamerican Seminar on Cosmic Rays, La Paz, Bolivia, vol. 1, pp. 72-100.
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