

CURRICULUM VITAE

PAUL J. WIITA

PERSONAL

Born February 1953 in The Bronx, New York

Married Brinda Umberkoman in 1978; we have two adult sons, Arun and Neil.

ADDRESSES

Department of Physics & Astronomy
Georgia State University
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PROFESSIONAL EMPLOYMENT

Professor of Physics and Astronomy, Georgia State University: September 1993 –

Director of Graduate Studies in Astronomy, Georgia State University: September 1994 –
December 1999

Associate Professor of Physics and Astronomy, Georgia State University: September 1989 –
August 1993

Assistant Professor of Physics and Astronomy, Georgia State University: September 1986 –
August 1989

Assistant Professor of Astronomy and Astrophysics, University of Pennsylvania: July 1979 –
June 1986

Research Associate, Enrico Fermi Institute, University of Chicago: September 1976 – June
1977, and September 1978 – June 1979

NSF-NATO Postdoctoral Fellow, Institute of Astronomy, Cambridge University: July 1977 –
August 1978

EDUCATION

Ph.D. in Physics, Princeton University, December 1976

Thesis Title: “Models of Extragalactic Double Radio Sources”

Thesis Advisor: Prof. William H. Press

M.A. in Physics, Princeton University, May 1974

B.S. in Physics, Summa cum laude, The Cooper Union, New York, June 1972

PROFESSIONAL AND HONORARY SOCIETY MEMBERSHIPS

International Astronomical Union

American Physical Society

Astronomical Society of India

Sigma Pi Sigma

American Association of University Professors

American Astronomical Society

Royal Astronomical Society

Sigma Xi

Phi Beta Delta

GRADUATE STUDENTS SUPERVISED

M. Javad Siah: Ph.D., May 1984	Navarun Gupta: M.S., June 1992
Joshua J. Mitteldorf: Ph.D., August 1987	Xiong Ying: M.S., May 1996
R. Alexander Rosen: Ph.D., December 1989	James Marie: M.S., May 1998
Arun V. Mangalam: Ph.D., December 1994	A. Benjamin Hocking: M.S., May 2000
Jagbir S. Hooda: Ph.D., August 1997	M. Angela Osterman: M.S., May 2003
Paramita Barai: Ph.D., August 2006	Eunwoo Choi: Ph.D., May 2007

RESEARCH SUPPORT

Faculty Summer Research Fellowship, University of Pennsylvania, 1980, \$3000.

National Science Foundation Grant AST-8211065, “Theoretical Extragalactic Astrophysics” (Sole Principal Investigator), 3/83–8/85, \$26,500.

Smithsonian Institution Foreign Currency Grant, “Nuclear, Elementary Particle and Relativistic Physics Applications in Astrophysics” (Co-Principal Investigator with D.N. Schramm of University of Chicago), 3/85–2/88, Indian rupee equivalent of \$63,000.

Georgia State University Research Grant, #88-041 “The Formation, Collimation and Propagation of Extragalactic Radio Jets”, (Sole PI), 9/86–6/88, \$6000.

Georgia State University Research Grant, #87-077 “The Cosmological Evolution of the Size of Radio Galaxies”, (Sole PI), 1/87–6/87, \$1900.

National Center for Supercomputing Applications Grant, AST890028N, and renewals “Radio Jet Propagation Across an Interface”, (Sole PI), 7/87–6/93, 300 Service Units

Georgia State University Research Grant, #89-005 “Interaction of Extragalactic Radio Jets with Surrounding Media”, (Sole PI), 7/88–6/89, \$1400.

National Science Foundation Grant, AST-8717912, “Models of Extragalactic Jets”, (Sole PI), 7/88–12/90, \$55,000.

Smithsonian Institution Foreign Currency Grant, FR 10263600, “Astrophysical Investigations of Radio Jet Propagation, Active Galactic Nuclei and Rotating Stars”, (Sole PI), 1/91–8/94; Indian rupee equivalent of \$20,740.

National Science Foundation Grant, AST-9102106, “Numerical and Analytical Studies of Radio Galaxies and Active Galactic Nuclei”, (Sole PI), 8/91–1/95, \$156,000.

Georgia State University Chancellor’s Initiative Fund Grant, #93-022, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/92–6/93, \$24,000

Pittsburgh Supercomputer Center Grant, AST930007P, “Radio Jet Propagation Across an Interface”, (Sole PI), 3/93–7/94, 121 Service Units

Georgia State University Chancellor’s Initiative Fund Grant, #94-005, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/93–6/94, \$20,500

Pittsburgh Supercomputer Center Grant, AST930007P, “Radio Jet Propagation Across an Interface”, (Sole PI), 7/94–7/95, 200 C90 Service Units

Georgia State University Chancellor’s Initiative Fund Grant, #95-006, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/94–6/95, \$20,500

RESEARCH SUPPORT, continued

- Pittsburgh Supercomputer Center Grant, AST930007P, “Radio Jet Propagation Across an Interface”, (Sole PI), 7/95–7/96, 315 C90 Service Units
- Georgia State University Chancellor’s Initiative Fund Grant, #96-017, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/95–6/96, \$18,000
- Georgia State University Chancellor’s Initiative Fund Grant, #97-010, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/96–6/97, \$29,000
- Pittsburgh Supercomputer Center Grant, AST930007P, “Radio Jet Propagation Across an Interface”, (Sole PI), 7/96–7/98, 720 C90 Service Units
- Georgia State University Research Program Enhancement Grant, #98-006/002/4, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/97–6/98, \$33,000
- San Diego Supercomputing Center Grant, “Radio Jet Propagation Across Interfaces”, (Sole PI), 4/98–3/99, 415 T90 Service Units
- NASA Astrophysical Theory Program Grant, NAG 5-3098, “Intraday Variability in Active Galactic Nuclei”, (Sole PI), 10/95–4/99, \$197,100
- Georgia State University Research Program Enhancement Grant, #99-007/004/4, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/98–6/99, \$33,000
- San Diego Supercomputing Center Grant, “Radio Jet Propagation Across Interfaces”, (Sole PI), 4/99–6/00, 500 T92 Service Units
- Georgia State University Research Program Enhancement Grant, #00-020/004/4, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/99–6/00, \$33,000
- Georgia State University Research Program Enhancement Grant, #01-020/004/4, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/00–6/01, \$33,000
- NPACI Supercomputing Grant, “Radio Jet Propagation Across an Interface” (Sole PI), 7/00–6/01, 500 T90 Service Units
- Georgia State University Research Program Enhancement Grant, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller), 7/01–6/02, \$33,000
- Georgia State University Research Program Enhancement Grant, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller & D.M. Crenshaw), 7/02–6/03, \$33,000
- NASA/Hubble Space Telescope, GO-09440.01, Cycle 11 award, “UV Spectrum of the Massive X-ray Binary LS 5039”, (Co-I, D.R. Gies, PI), 12/02-11/04, 3 full orbits; \$41,439
- Georgia State University Research Program Enhancement Grant, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller & D.M. Crenshaw), 7/03–6/04, \$45,000
- NASA/Hubble Space Telescope, GO-9840, Cycle 12 award, “Wind Accretion and State Transitions in the Black Hole Binary Cyg X-1”, (Co-I, D.R. Gies, PI), 10/03-9/05, 3 full orbits; \$33,435
- Georgia State University Research Program Enhancement Grant, “Program in Extragalactic Astronomy”, (Co-PI with H.R. Miller & D.M. Crenshaw), 7/04–6/05, \$45,000
- National Science Foundation Grant, AST-0507529, “Interpretation of Modern Radio Surveys: Test of the Unification Paradigm”, (GSU PI with Zeljko Ivezić, University of Washington PI), 9/05–8/09, \$299,111; GSU portion \$90,054

AWARDS AND HONORS

New York State Regents' Scholarship; 1969–1972

NSF Pre-doctoral Fellowship; 1972–1975

Elected Compton Lecturer by the Faculty of the Enrico Fermi Institute, University of Chicago; Spring, 1977

Outstanding Faculty Award, College of Arts & Sciences, Georgia State University; 1990–1991 Academic Year

CONCURRENT PROFESSIONAL POSITIONS

Lecturer, Adler Planetarium, Chicago; January–March 1977

Visiting Fellow, Copernicus Astronomical Center, Warsaw, Poland; September–November 1978

Visiting Fellow, Tata Institute of Fundamental Research (TIFR), Bombay & Bangalore, India; June–August 1981, July–August 1985

Visiting Fellow, Raman Research Institute, Bangalore; June–August 1982

Visiting Professor, TIFR, Bombay, Bangalore, & Pune and Indian Institute of Science, Bangalore; July–August 1986, June–August 1987, June–August 1989

Member, Institute for Theoretical Physics, University of California, Santa Barbara; September–December 1988

Visiting Professor, TIFR, Pune & Bombay; July–August 1990, July–August 1991, July–August 1992, July–August 1994, December 1995, December 1997, May–June 1999, June 2001, July 2004, July–August 2005, June–July 2007

Visiting Professor, Indian Institute of Astrophysics, Bangalore; July 1991, June–July 1993, July 1994, December 1995, December 1997, June 1999, July 2001, June 2004

Faculty Fellow, Mathey College, Princeton University, September 2000–January 2001

Visiting Professor, Department of Astrophysical Sciences, Princeton University, September 2000–June 2001

Member, Scientific Advisory Council, Centre for Space Physics, Kolkata, India, January 2001–
Affiliated Faculty, Department of Astrophysical Sciences, Princeton University, July 2001 – June 2008

Member, Editorial Board, Asian Journal of Physics, January 2005 –

Visitor, Institute for Advanced Study, Princeton, August–September 2007

Adjunct Professor, School of Physics, Georgia Institute of Technology, January 2008 –

Member, School of Natural Sciences, Institute for Advanced Study, September 2008 – June 2009

TEACHING

At Georgia State University

Astronomy 101(0): introductory solar system astronomy: W87, W88, W89, F90, F91, F92, W93, F93, F95, F96*, S99, F02, S03, F03, S05

Astronomy 102(0): introductory stellar and extragalactic astronomy: S87, F87, S89, F89, W90, S90, S91*, S92, S93, S95, S97, F97, F99, S00, F01, F02, F05, S06, F06, S08

Astronomy 352: intermediate galactic and extragalactic astronomy, S91*

Astronomy 3010: topics in astronomy and astrophysics, S03

TEACHING, continued

- Astronomy 4000/6000: upper level introduction to astrophysics: F90, F94
Astronomy 4010: astronomy methods laboratory: S87*, F89*, W92*, F93*, F95*, F97*, F98*, S02*, S04*, S06*, S08*
Astronomy 6300: astronomy pedagogy: F98, F99
Astronomy 6310: laboratory practicum: S99, F99, S00
Astronomy 810: stellar interiors: F86, W91, W94, W96, W98
Astronomy 815: stellar evolution: S94, S98
Astronomy 8100: stellar structure and evolution: S00, S04, S06, S08
Astronomy 840: extragalactic astronomy: S91*
Astronomy 8700: relativistic astrophysics and cosmology: S88, W92, W95, W97, S99, S02, F04, S07
Astronomy 8900: graduate seminar: W87, F87, F89, S90, F90, S92, S93, F93, S95, F96, F01, S02, S04, F04, S05, F05
Astronomy 8910/8999: graduate directed study: F86, W87, S87, F87, W88, S88, F88, W89, F90, W91, F91, W92, S92, F92, W93, S93, Su93, F93, W94, S94, W95, S95, Su95, F95, W96, S96, Su96, F96, W97, S97, Su97, F97, W98, S98, F98, S99, Su99, F99, S00, F01, S02, F02, S03, Su03, F03, S04, Su04, F04, S05, Su05, F05, S06, Su06, F06, S07
Physics 4900: undergraduate directed study: S90, W94, S94, F98, S99
Physics 8120: plasma physics and astrophysics: S96, F98, F01, S05, F07
Physics 8910: graduate directed study: F91, S97, F02, S03, F03, S04, Su04, F04, S05, Su05, F05, S06, Su06

At Princeton University

- Astrophysical Sciences 205: from planets to quasars: F00

At the University of Pennsylvania

- Astronomy 1: one semester introduction to astronomy: F79, S80, F80, S81, F81
Astronomy 3: solar system astronomy: F84, F85
Astronomy 4: stars and stellar evolution: F81, F82, S83, F83, S84, F84
Astronomy 6: search for extraterrestrial life: S80*, S86*
Astronomy 8: space astronomy: S80, F80, S81, S82, F82, S84, S85, S86
Astronomy 390: undergraduate independent study: F81, F83
Astronomy 410: mathematical methods in astrophysics: F83, F85
Astronomy 506: graduate level interstellar medium: S83
Astronomy 511: introduction to stellar structure and cosmology: S86
Astronomy 606: graduate level plasma astrophysics: S82, S85
Astronomy 701: seminar on formation of planets, stars & galaxies: F79
Astronomy 999: graduate independent study: F79, S80, F80, F82, F83, F84, S85
Physics 999: graduate independent study: S85, F85, S86

*co-taught

PARTICIPATION IN INTERNATIONAL MEETINGS

- Enrico Fermi School on the Physics and Astrophysics of Neutron Stars and Black Holes, Varenna, Italy; June 1975
- Eighth Texas Symposium on Relativistic Astrophysics, Dallas, Texas; December 1976
- NATO Advanced Study Institute on Quasars, Cambridge, England; July-August 1977
- Winter School on Binary Stars, Tata Institute of Fundamental Research, Bombay, India; January 1978
- Workshop on Astrophysical Winds and Accretion, Aspen, Colorado; June 1979
- Eleventh Texas Symposium on Relativistic Astrophysics, Austin, Texas; December 1982
- Workshop on Active Galactic Nuclei, Santa Cruz, California; July 1984
- NRAO Workshop on Physics of Energy Transport in Extragalactic Radio Sources, Green Bank, West Virginia; August 1984–invited
- Canadian Institute for Theoretical Astrophysics Workshop on Jets, Toronto, Ontario; June 1985
- Workshop on Supermassive Black Holes, Fairfax, Virginia; October 1986
- Thirteenth Texas Symposium on Relativistic Astrophysics, Chicago, Illinois; December 1986
- Indian Institute of Astrophysics Workshop on Astronomical Instrumentation, Kodaikanal; August 1987
- Conference on Active Galactic Nuclei, Atlanta, Georgia; October 1987 – organizer
- Max Planck Institute Workshop on Hot Spots in Extragalactic Radio Sources, Ringberg Castle, Germany; February 1988 – invited
- International Astronomical Union (IAU) Symposium 134, Active Galactic Nuclei, Santa Cruz, California; August 1988
- Program on Computational Fluid Dynamics, Institute for Theoretical Physics, Santa Barbara, California; September-December 1988 – invited
- Conference on Variability of Active Galactic Nuclei, Atlanta, Georgia; May 1990 – organizer
- IAU Colloquium 129, Structure and Emission Properties of Accretion Disks, Paris, France; July 1990
- Meeting on Variability of Blazars, Turku, Finland; January 1991 – invited
- Testing the AGN Paradigm, 2nd Annual Maryland Astrophysics Meeting, College Park, Maryland; October 1991
- Astrophysical Jets Symposium, Space Telescope Science Institute, Baltimore, Maryland; May 1992 – invited
- Workshop on Accretion and Jets in Astrophysics, Wuhan, China; November 1992 – invited
- Sixteenth Texas Symposium on Relativistic Astrophysics and Third International Symposium on Particles, Strings, and Cosmology, Berkeley, California; December 1992
- Conference on Mass Transfer within Galaxies, Lexington, Kentucky; April 1993
- IAU Symposium 159, Active Galactic Nuclei across the Electromagnetic Spectrum, Geneva, Switzerland; August – September 1993
- Quasars and AGN: High Resolution Radio Imaging, National Academy of Sciences Colloquium, Irvine, California; March 1995
- Workshop on Energy Transport in Radio Galaxies and Quasars, Tuscaloosa, Alabama; September 1995 – invited

MEETINGS, continued

- Blazar Variability, Miami, Florida; February 1996 – invited
- Workshop on Galaxy Formation and Evolution, Aspen, Colorado; June 1996
- Workshop on the Bright Spot Model for AGN, Trieste, Italy; September 1996 – invited
- Conference on Blazars, Black Holes and Jets, Girona, Catalonia; September 1996
- Colloquium on the Frontiers of Physics, Nashville, Tennessee; May 1997
- Symposium on Non-linear Phenomena in Accretion Disks around Black Holes, Reykjavik, Iceland; June 1997 – invited
- General Relativity XV, Pune, India; December 1997
- Workshop on Observational Evidence for Black Holes in the Universe, Calcutta, India; January 1998 – invited
- AAAS Conference on Networking Resources for Collaborative Research in the Southeast, Atlanta, Georgia; June 1998
- BL Lacertae Phenomenon, Turku, Finland; June 1998 – invited
- Lifecycles of Radio Galaxies, Baltimore, Maryland; July 1999
- Particles and Acceleration in Radio Galaxies, Oxford, England; August 2000
- International Astronomical Union General Assembly, Manchester, England; August 2000
- Active Galactic Nuclei: Central Engine to Host Galaxy, Meudon, France; July 2002 – invited
- AGN Physics with the Sloan Digital Sky Survey, Princeton, New Jersey; July 2003
- Virtual Astrophysical Jets, Dogliani, Italy; October 2003 – invited
- The Impact of Active Galaxies on the Universe at Large, London, England; February 2004 – invited
- Blazar Variability: GLAST and Beyond, Miami, Florida; April 2005 – invited
- XXIXth International Cosmic Ray Conference, Pune, India; August 2005
- Third Asian Pacific Center for Theoretical Physics Winter School on Black Hole Astrophysics, Pohang, Korea; January 2006 – invited
- TIARA Winter School on Relativistic Astrophysics, Hsin-chu, Taiwan, January–February 2007 – invited, and lectures prepared and posted, but could not attend because of mother's illness
- Extragalactic Jets, Girdwood, Alaska; May 2007
- The Variable Universe: A Celebration of Bohdan Paczyński, Princeton, New Jersey; September 2007
- Magneto-Rotational Instability Workshop, Princeton, New Jersey; June 2008

The above list does not include participation at national meetings of the **American Astronomical Society** as well as national and regional meetings of the **American Physical Society**; typically, one such general meeting per year is attended.

LECTURES

Over 130 invited seminars, colloquia and lectures at universities and research institutions other than my then current one have been given. The **American** institutions at which presentations were made include: Alabama, Auburn, Berkeley, Caltech, Chicago, Columbia, Cornell, Emory, Florida Atlantic, Georgia, Georgia State, Georgia Tech, Harvard, Haverford, Illinois, Indiana, Institute for Advanced Study, Iowa, Irvine, Kentucky, Livermore, Maryland, National Radio Astronomical Observatory, New Mexico, North Carolina, Oklahoma, Pennsylvania, Penn State, Princeton, Rochester, Rutgers, Santa Barbara, Santa Cruz, South Carolina, Space Telescope Science Institute, Texas, Trenton State, Valdosta State, Villanova, Virginia and Yale. In **Europe**: Bonn, Cambridge, Copenhagen, Geneva, Helsinki, Oxford, Paris, Stockholm, Torino, Trieste, Turku, and Warsaw. In **Asia and Australia**: Ahmedabad, Bangalore, Beijing, Calcutta, Canberra, Delhi, Mumbai, Ootacamund, Pohang, Pune, Shanghai, Sydney and Wuhan.

CONFERENCE ORGANIZATION

Co-chair of both the Scientific Organizing Committee and the Local Organizing Committee (with H. Richard Miller) of the Georgia State University Conference on Active Galactic Nuclei, which was held October 28–30, 1987, and supported by an NSF Grant of \$5,000. Co-edited the proceedings of this conference, published by Springer-Verlag in July 1988.

Co-chair of both the Scientific Organizing Committee and the Local Organizing Committee (with H. Richard Miller) of the Georgia State University Conference on Variability of Active Galactic Nuclei, which was held May 2–4, 1990, and supported by an NSF Grant of \$8,000. Co-edited the proceedings of this conference, published by Cambridge University Press in April 1991.

Member, Local Organizing Committee, 181st Meeting of the American Astronomical Society, Atlanta, Georgia, January 1992.

Member, Scientific Organizing Committee, Workshop on Blazar Variability, Florida International University, Miami, Florida, held 6–9 February, 1996.

Member, Scientific Organizing Committee, Workshop on Observational Evidence for Black Holes in the Universe, Calcutta; held 1–17 January 1998.

Member, Local Organizing Committee, 195th Meeting of the American Astronomical Society, Atlanta, Georgia, January 2000.

Member, Scientific Organizing Committee, GLAST and Beyond: Second Workshop on Blazar Variability, Florida International University, Miami, Florida, 10-12 April 2005.

UNIVERSITY AND COLLEGE ADMINISTRATION

At Georgia State University

College of Arts and Sciences, Natural and Computational Sciences Promotion and Tenure Area
Committee: F02 – S08; Chair F06 – S08

Senate Academic Program Review Sub-Committee for Health Administration: F06 – S07

College of Arts and Sciences representative to Honors Council: F92 – S05

Academic Group on the University's Strategic Plan: F99 – S00

University Senator: S91 – S97

Senate Committee on Academic Programs and Continuing Education: S91 – S92; S93 – S95
Chair, Undergraduate Council of APACE: F93 – S95

Senate Committee on Admissions and Standards: S91 – S93, S94 – S97
Chair, S95 – S97

Subcommittee on Transfer of D grades: W93 – S93

Subcommittee on Faculty Workload Policy: F94 – S96

Subcommittee on Transfer and Admissions Standards: W95 – S97

Chair, Housing Advisory Subcommittee: S95 – S97

SACS Reaccreditation Strategic Focus Committee: S96 – F98

SACS Reaccreditation Undergraduate Programs Compliance Subcommittee: F96 – F98

Enrollment Management Task Force: S96 – S97

Senate Committee of Chairs: S95 – S97

Senate Committee on Planning and Development: S95 – S97

Master Plan Subcommittee: S95 – S97

Strategic Planning Subcommittee: S96 – S97

Recreation Center Task Force: F94 – S95

Student Services and Student Fee Utilization Task Force: W96

University Senate ad hoc Subcommittee on Computer Visualization: S90

College of Arts and Sciences ad hoc Committee on Assessment of General Education: S93, S94
– F94

College of Arts and Sciences ad hoc Committee on Kell Hall Space Allocation: W90 – S90

At the University of Pennsylvania

University Community Relations Committee: F82 - S84

University Bookstore Committee: F85 - S86

Faculty of Arts and Sciences Curriculum Committee: F81 - S83

Faculty of Arts and Sciences Computer Committee: F81 - S86

Faculty of Arts and Sciences Graduate Education Committee: F85 - S86

DEPARTMENTAL ADMINISTRATION

At Georgia State University

Graduate Director for Astronomy: F94 – F99

Chair, Academic Program Review Self-Study Committee: F98 – F00; F06 – S08

Chair, National Research Council Astronomy Program Review Committee: F06 – S07

Department Chair Evaluation Committee: Member, S90; Chair, S97; Member, S00; Chair, S03; Member S08

Executive Committee: S91 – W92; F95 – S00

Promotion & Tenure Advisory Committee: F93 – S02; Chair, F93–Su95, F01 – S02

Contract Renewal Committee: S99 – S00

Faculty Search Committee: S88 –

Graduate Student Recruitment Committee: S02 –

Qualifying Examination Committee: S02 –

Research Committee: F92 – S99

Scheduling Committee: F94 –

Graduate Faculty Committee: S87 – ; Chair, W91 –

Astronomy Graduate Curriculum Committee: S02 –

Astronomy Textbook Selection Committee: S01 –

Graduate Student Advisory Committee: F86 –

Editor of Observatory Report: F89 – F99

Departmental Goals Statement Committee: W90 – F90

Ad hoc Regents' Professor Evaluation Committee: W98

At the University of Pennsylvania

Undergraduate Chairman: S83 – F83

Chair, Graduate Student Admissions Committee: F84 – S86

Chair, Graduate Examination Committee: S80 – S86

Computer Account Administration: F81 – S86

In charge of undergraduate courseware development: F80 – S86

Organizer of Weekly Seminar: F79 – F85

Librarian: S80

REFEREEING AND REVIEWING

Reviewed over 120 papers for **The Astrophysical Journal**, **Monthly Notices of the Royal Astronomical Society**, **Astronomy and Astrophysics**, **Nature**, **Physical Review Letters**, **Astronomical Journal**, and various other journals. Reviewed over 110 grant proposals for NSF (Astronomy, Theoretical Physics, and International Divisions) and over 160 proposals for NASA (UV/Visible Research & Analysis, Astrophysical Data Processing, Astro-2 Mission, Astrophysics Theory, Hubble Fellow, RXTE). Proposals to the Research Corporation, The Third World Academy of Sciences, the Civilian Research and Development Foundation (for the FSU), the Netherlands National Science Foundation, the Czech National Science Foundation and the International Centre for Theoretical Physics have also been reviewed. Reviewed chapters for five different introductory astronomy texts. Served as external reader for ten Ph.D. dissertations from other universities. Served as external reviewer for promotion for six cases at other universities.

Paul J. Wiita, PUBLICATIONS

REFEREED PAPERS

1. “Mechanisms for Inducing Synchronous Rotation and Small Eccentricities in Close Binary Systems”, W.H. Press, P.J. Wiita, & L.L. Smarr, **Astrophys. J. Letters**, **202**, L135–137 (1975)
2. “Mass–Angular Momentum Regimes for Certain Instabilities of a Compact, Rotating Stellar Core”, P.J. Wiita & W.H. Press, **Astrophys. J.**, **208**, 525–533 (1976)
3. “Twin Beam Models for Double Radio Sources: I. Steady State Configurations”, P.J. Wiita, **Astrophys. J.**, **221**, 41–50 (1978)
4. “Twin Beam Models for Double Radio Sources: II. Dynamical Calculations”, P.J. Wiita, **Astrophys. J.**, **221**, 436–448 (1978)
5. “Neutron Beams in Active Galactic Nuclei”, D. Eichler & P.J. Wiita, **Nature**, **274**, 38–39 (1978)
6. “On the Flow of Special Relativistic Fluids through Channels”, P.J. Wiita, **Astrophys. & Space Sci.**, **54**, 407–415 (1978)
7. “Self-Gravitating Accretion Disks with Realistic Equations of State and Opacities”, M. Kozłowski, P.J. Wiita & B. Paczyński, **Acta Astronomica**, **29**, 157–176 (1979)
8. “Star and Planetary System Formation in Collapsing, Viscous, Rotating Clouds”, P.J. Wiita, D.N. Schramm & E.M.D. Symbalisty, **Proc. Xth Lunar & Planetary Sci. Conf.**, **2**, 1849–1865 (1979)
9. “Soliton Solutions and their Stability for the Flow of Relativistic Fluids through Channels”, I. Lerche & P.J. Wiita, **Astrophys. & Space Sci.**, **68**, 207–219 (1980)
10. “Self-Similar Solutions and their Stability for the Flow of Relativistic Fluids through Channels”, I. Lerche & P.J. Wiita, **Astrophys. & Space Sci.**, **68**, 475–485 (1980)
11. “Thick Accretion Disks and Supercritical Luminosities”, B. Paczyński & P.J. Wiita, **Astron. & Astrophys.**, **88**, 23–31 (1980)
12. “Beam Models for Radio Sources: III. Offset Sources and Single Jets”, P.J. Wiita & M.J. Siah, **Astrophys. J.**, **243**, 710–715 (1981)
13. “Some Biochemical and Behavioral (Sensation-Seeking) Correlates in Healthy Adults”, B. Umberkoman-Wiita, W. Vogel & P.J. Wiita, **Res. Comm. Psycho. Psychi. Behav.**, **6**, 303–316 (1981)
14. “Rotation and Luminosity Variations in Post-Main Sequence Stars”, P.J. Wiita, **J. Astrophys. Astron.**, **2**, 387–403 (1981)
15. “Physical Properties of Thick, Supercritical Accretion Disks”, P.J. Wiita, **Astrophys. J.**, **256**, 666–680 (1982)
16. “Nuclear Jets in Cygnus A”, D.J. Saikia & P.J. Wiita, **Mon. Not. Roy. Astron. Soc.**, **200**, 83–89 (1982)
17. “Magnetic Fields and Accretion Disks Around Black Holes”, N. Dadhich & P.J. Wiita, **J. Phys. A.: Math. Gen.**, **15**, 2645–2653 (1982)
18. “Relativistic Beams, Thick Accretion Disks and Active Galactic Nuclei”, P.J. Wiita, V.K. Kapahi & D.J. Saikia, **Bull. Astron. Soc. India**, **10**, 304–308 (1982)
19. “Beam Models for Radio Sources: IV. Improved Collimation of Jets”, M.J. Siah & P.J. Wiita, **Astrophys. J.**, **270**, 427–433 (1983)

Paul J. Wiita, Refereed Papers

20. “The Luminosity of Particle Beams from Thick Accretion Discs”, R. Narayan, R. Nityananda & P.J. Wiita, **Mon. Not. Roy. Astron. Soc.**, **205**, 1103–1116 (1983)
21. “Magnetic Fields and Accretion Disks Around Kerr Black Holes”, P.J. Wiita, C.V. Vishveshwara, M.J. Siah & B.R. Iyer, **J. Phys. A.: Math. Gen.**, **16**, 2077–2086 (1983)
22. “Local Stability of Thick Accretion Disks. I. Basic Equations and Parallel Perturbations in the Negligible Viscosity Case”, M.A. Abramowicz, M. Livio, T. Piran & P.J. Wiita, **Astrophys. J.**, **279**, 367–383 (1984)
23. “Active Galactic Nuclei: Observations and Fundamental Interpretations”, P.J. Wiita, **Physics Reports**, **123**, 117–213 (1985)
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2. “Numerical Magnetohydrodynamics with Ambipolar Diffusion”, E. Choi, J. Kim, & P.J. Wiita (in preparation for **Astrophys. J. Supplement**)
3. “Multiple QPOs Arising from Shocks in Accretion Flows”, S.K. Chakrabarti & P.J. Wiita (in preparation for **Astrophys. J.**)
4. “Radio Properties of a Large Sample of SDSS Quasars”, A. Kimball, Z. Ivezić & P.J. Wiita (in preparation for **Astrophys. J.**)

ABSTRACTS

List available on request. Seventy-one have been published through October 2008.