

# JOHN P. HUGHES

## Professional History

- 2011 – Professor II, Rutgers University
- 2005 – 2011 Professor I, Rutgers University
- 2000 – 2005 Associate Professor, Rutgers University
- 1996 – 2000 Assistant Professor, Department of Physics and Astronomy,  
Rutgers University, New Brunswick, NJ
- 1988 – 1996 Staff Scientist, Harvard-Smithsonian Center for Astrophysics,  
Cambridge, MA
- 1984 – 1987 Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics,  
Cambridge, MA

## Education

- 1984 Columbia University, Ph.D., Physics
- 1980 Columbia University, M.A., Physics
- 1978 Columbia College, A.B., Physics

## Awards and Appointments

- 2010 Elected member, Executive committee of the High Energy  
Astrophysics Division of the American Astronomical Society
- 2009 Rutgers University Board of Trustees Award for  
Excellence in Research
- 2008 Fellow, American Physical Society
- 2006 – 2007 Visiting Fellow, Department of Astrophysical Sciences,  
Princeton University
- 1999 – 2000 Visiting Scientist, Service d’Astrophysique, CEA-Saclay
- 1993 NASA Public Service Medal
- 1993 Visiting Research Scientist, Kyoto University, Japan
- 1992 NASA Group Achievement Award for *AXAF VETA*
- 1992 Smithsonian Institution Special Achievement Award
- 1991 NASA Group Achievement Award for *ROSAT*
- 1985 Japanese Foreign Research Fellow, The Institute of Space  
and Astronautical Science, Tokyo, Japan
- 1984 – 1996 Associate, Harvard College Observatory
- 1984 – 1987 Smithsonian Postdoctoral Fellow
- 1978 – 1980 Columbia University Faculty Fellow
- 1977 Summer Research Assistant, Bell Labs, Murray Hill, NJ

## Professional Activities (current)

- 2011 Chair, Rutgers SALT TAC
- 2011 Member, Nominating committee of the APS DAP
- since 2009 Co-Investigator on ACTPol, NSF funded (2010-2015)
- since 2009 Member, NASA Astrophysics Subcommittee
- since 2009 Selected member, *Astro-H* International Science Working Group

since 2008 Proposal review, Canadian NSERC  
 since 2008 Member, Editorial Board “Advances in Astronomy”  
 since 2005 Member, *Suzaku* Steering Committee  
 since 2005 Member, *Suzaku* Users’ Committee  
 since 2005 Guiding Board Member, Atacama Cosmology Telescope (ACT) & ACTPol  
 since 2005 Proposal review, US-Israel Binational Science Foundation  
 since 2004 Proposal review, Swiss National Science Foundation  
 since 2003 Member, Deep Lens Survey project team  
 since 2001 Referee, Italian Space Agency  
 since 2000 P.I., *XMM-Newton* General Observer program, 15 investigations  
 since 1998 P.I., *Chandra* General Observer program, 20 investigations  
 since 1990 Referee, *Ap. J.*, *M.N.R.A.S.*, *Astr. & Ap.*, *Nature*, *A. J.*, *P.A.S.J.*,  
*Advances in Space Research*, *P.N.A.S.*  
 since 1986 Visiting Astronomer, CTIO, La Serena, Chile

### Professional Activities (past)

2008 – 2011 *International X-Ray Observatory* science definition team member  
 2007 – 2010 Rutgers representative on SALT science working group  
 2007 Member, International Scientific organizing committee for  
 “The *Suzaku* X-Ray Universe” conference, San Diego, CA  
 2006 Referee and chair, *Chandra* Fellows Selection Committee  
 2006 Member, International Scientific organizing committee for  
 “The Extreme Universe in the *Suzaku* Era” conference, Kyoto, Japan  
 2005 Referee, ESA *XMM-Newton* AO-5 program review  
 2004 – 2006 Collaborator, *Generation-X* mission concept study team  
 2004 – 2005 Member, NASA “Structure and Evolution of the Universe” (SEU)  
 Advisory Committee  
 2004 – 2005 Member, International Scientific organizing committee for  
 “The X-ray Universe 2005” conference, El Escorial, Spain  
 2004 – 2005 Member, NASA “Universe” Legacy Roadmap team  
 2003 – 2005 Member, Study team for the workshop “Physics of SNRs in the *Chandra*,  
*XMM-Newton* and INTEGRAL Era” International Space Science  
 Institute (Bern, Switzerland)  
 2003 Member, NASA/MSFC Independent Implementation Review of the  
*Chandra X-ray Observatory*  
 2003 Member, Scientific organizing committee for the  
 “1st Constellation-X Spectroscopy Workshop,” New York, NY  
 2002 Referee, ESA *XMM-Newton* AO-2 program review  
 2001 Referee, *Chandra* Fellows Selection Committee  
 2001 Referee, NASA *Chandra* AO-3 program review  
 2001 Member, Scientific organizing committee for the workshop  
 “Neutron Stars in Supernova Remnants (II),” Boston, MA  
 2000 – 2004 Member and chair (2002–2004), *Chandra* Users’ Committee  
 2000 – 2002 Member, International advisory committee for the seventh  
 “Nuclei in the Cosmos” symposium

2000 Referee, NASA SMEX program review  
1999 – 2000 Member (ex officio), US *Astro-E* Users' Committee  
1999 Referee, ESA *XMM-Newton* AO-1 program review  
1999 Proposal reviewer for the National Science Foundation  
1999 Represented the Committee on International Space Programs at the European Science Foundation meeting (November), Granada, Spain  
1998 – 2001 Member, Committee on International Space Programs, Space Studies Board, National Research Council  
1998 Referee and panel chair, NASA *AXAF* AO-1 Program Review  
1997 – 2008 *Constellation-X Facility* science team member and chair of supernova remnant science panel  
1997 Member, Scientific organizing committee for the “*ASCA* Cherry Blossom Workshop,” Washington, DC  
1996 Member, Scientific organizing committee for the conference “X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas,” Tokyo, Japan  
1996 – 2002 P.I., NASA Long Term Space Astrophysics grant  
1995 – 2005 *Astro-E* and *Astro-E2* international science working group member and co-chair of galactic diffuse emission science panel  
1995 Member, Nominating committee of the APS DAP  
1995 Member, Scientific organizing committee for the workshop “Rates, Codes and Astrophysics,” Cambridge, MA  
1995 Advisor, SAO summer intern program  
1994 – 1997 Member, High Throughput X-Ray Spectroscopy (HTXS) science study team (a NASA New Mission Concept study)  
1994 Referee and panel chair, NASA *ASCA* AO-3 Program Review  
1993 – 1998 P.I., *ASCA* Guest Observer program, 18 investigations  
1993 P.I., NSF Japan Program long-term visit  
1992 – 1995 Member, NASA HEAMOWG  
1991 – 1995 Chair, US *Astro-D* Users' Committee  
1991 – 1996 Visiting Astronomer, Whipple Observatory  
1991 – 1998 P.I., *ROSAT* Guest Observer program, 19 investigations  
1990 P.I., SI International exchange program grant  
1989 – 1996 Visiting Astronomer, Multiple Mirror Telescope  
1989, 1990 Visiting Astronomer, ESO, La Silla, Chile  
1989 – 1991 Research project supervisor in Astronomy 98 and 99, Harvard University  
1988 Referee, NASA *Ginga* Visiting investigator program review  
1988, 1990 Referee, NASA ADP review  
1988 – 1993 NSF Japanese language fellowship  
1987 – 1994 P.I., NASA *Ginga* Visiting investigator program, 4 investigations  
1987 – 1989 P.I., NASA Astrophysics Data Program (ADP), 2 investigations  
1982 – 1983 Instructor, New York Institute of Technology, New York, NY

### Grant Funding

2005 –	NSF PIRE program	1 grant	\$622,855
2005 –	<i>Suzaku</i> GO program	2 grants	\$228,617

2000 –	<i>Chandra</i> GO program	22 grants	\$1,430,377
2000 –	<i>XMM-Newton</i> GO program	15 grants	\$612,682
1997 –	<i>HST</i> GO program	3 grants	\$114,042
1996 – 2008	NASA LTSA program	2 grants	\$1,226,856
1993 – 1999	<i>ASCA</i> GO program	5 grants	\$173,271
1990 – 1999	<i>ROSAT</i> GO program	7 grants	\$213,757
1988 – 1993	NSF Japan program	3 grants	\$49,949
1987 – 1992	<i>Ginga</i> GO program	4 grants	\$240,231
1987 –	NASA ADP program	3 grants	\$228,347

### Professional Societies

American Physical Society  
American Astronomical Society  
International Astronomical Union

### Research Interests

Multiwavelength studies of supernova remnants (SNRs)  
Hydrodynamical models for SNR evolution  
Nonequilibrium ionization in SNR X-ray spectra  
Observational constraints on nucleosynthesis  
Mass determination in clusters of galaxies  
Sunyaev-Zel'dovich effect in clusters of galaxies  
Gravitational lensing

## Refereed Publications

- 1 “A Solar Flare X-Ray Polarimeter for the Space Shuttle,” J. R. Lemen, G. A. Chanan, J. P. Hughes, M. R. Laser, R. Novick, I. T. Rockwager, M. Sackson, and L. J. Tramiel, *Solar Physics*, **80**, 333–349 (1982).
- 2 “A Search for X-Ray Polarization from Cosmic X-Ray Sources,” J. P. Hughes, K. S. Long, and R. Novick, *The Astrophysical Journal*, **280**, 255–258 (1984).
- 3 “Interpretation of the Number Versus Diameter Distribution for the Supernova Remnants in the Large Magellanic Cloud,” J. P. Hughes, D. J. Helfand, and S. M. Kahn, *The Astrophysical Journal Letters*, **281**, L25–L28 (1984).
- 4 “Self-Consistent Models for the X-Ray Emission from Supernova Remnants: An Application to Kepler’s Remnant,” J. P. Hughes and D. J. Helfand, *The Astrophysical Journal*, **291**, 544–560 (1985).
- 5 “X-Ray Studies of the Supernova Remnant N132D: (I) Morphology,” J. P. Hughes, *The Astrophysical Journal*, **314**, 103–110 (1987).
- 6 “A Redetermination of the X-Ray Spectrum of SN1006 and Excess Diffuse Emission from the Lupus Region,” K. Koyama, H. Tsunemi, R. H. Becker, and J. P. Hughes, *Publ. Astron. Soc. Japan*, **39**, 437–445 (1987).
- 7 “Isothermality of the Gas in the Coma Cluster,” J. P. Hughes, K. Yamashita, Y. Okumura, H. Tsunemi, and M. Matsuoka, *The Astrophysical Journal*, **327**, 615–626 (1988).
- 8 “Measurements of the Gas Temperature and Iron Abundance Distribution in the Coma Cluster,” J. P. Hughes, P. Gorenstein, and D. Fabricant, *The Astrophysical Journal*, **329**, 82–96 (1988).
- 9 “*Tenma* Observations of the X-Ray Spectra of the Coma, Ophiuchus, and Perseus Clusters of Galaxies,” Y. Okumura, H. Tsunemi, K. Yamashita, M. Matsuoka, K. Koyama, S. Hayakawa, K. Masai, and J. P. Hughes, *Publ. Astron. Soc. Japan*, **40**, 639–652 (1988).
- 10 “A Second Supernova Inside Puppis A,” P. F. Winkler, R. P. Kirshner, J. P. Hughes, and S. Heathcote, *Nature*, **337**, 48–50 (1989).
- 11 “The Mass of the Coma Cluster: Combined X-Ray and Optical Results,” J. P. Hughes, *The Astrophysical Journal*, **337**, 21–33 (1989).
- 12 “A Measurement of the Value of the Hubble Constant from the X-Ray Properties and the Sunyaev-Zel’dovich Effect of Abell 665,” M. Birkinshaw, J. P. Hughes, and K. A. Arnaud, *The Astrophysical Journal*, **379**, 466–481 (1991).
- 13 “A2163: an Exceptionally Hot Cluster of Galaxies,” M. Arnaud, J. P. Hughes, W. Forman, C. Jones, M. Lachieze-Rey, K. Yamashita, and I. Hatsukade, *The Astrophysical Journal*, **390**, 345–349 (1992).
- 14 “Semi-Empirical Limits on the Thermal Conductivity of Intracluster Gas,” L. P. David, J. P. Hughes, and W. H. Tucker, *The Astrophysical Journal*, **394**, 452–458 (1992).

- 15 “The X-Ray Spectrum of Abell 665,” J. P. Hughes and Y. Tanaka, *The Astrophysical Journal*, **398**, 62–68 (1992).
- 16 “*Ginga* Observations of the Coma Cluster and Studies of the Spatial Distribution of Iron,” J. P. Hughes, J. A. Butcher, G. C. Stewart, and Y. Tanaka, *The Astrophysical Journal*, **404**, 611–619 (1993).
- 17 “The Insignificance of Heating Flows in Cooling Flow Clusters of Galaxies,” C. R. Canizares, T. H. Markert, S. Markoff, and J. P. Hughes, *The Astrophysical Journal Letters*, **405**, L17–L20 (1993).
- 18 “High-Resolution X-Ray Spectroscopy of the Supernova Remnant N132D,” U. Hwang, J. P. Hughes, C. R. Canizares, and T. H. Markert, *The Astrophysical Journal*, **414**, 219–229 (1993).
- 19 “A Measurement of the Hubble Constant from the X-Ray Properties and the Sunyaev-Zel’dovich Effect of Abell 2218,” M. Birkinshaw and J. P. Hughes, *The Astrophysical Journal*, **420**, 33–43 (1994).
- 20 “Detection of X-rays from SN1987A with *ROSAT*,” P. Gorenstein, J. P. Hughes, and W. H. Tucker, *The Astrophysical Journal Letters*, **420**, L25–L28 (1994).
- 21 “Elemental Abundances of the Supernova Remnant G292.0+1.8: Evidence for a Massive Progenitor,” J. P. Hughes and K. P. Singh, *The Astrophysical Journal*, **422**, 126–135 (1994).
- 22 “Discovery of Be/X-ray Stars in Two Supernova Remnants in the Small Magellanic Cloud,” J. P. Hughes and R. C. Smith, *The Astronomical Journal*, **107**, 1363–1370 (1994).
- 23 “A New Transient Pulsar in the Small Magellanic Cloud with an Unusual X-ray Spectrum,” J. P. Hughes, *The Astrophysical Journal Letters*, **427**, L25–L28 (1994).
- 24 “X-Ray Spectroscopy of SNR E0102–72 with the *ASCA* Satellite,” I. Hayashi, K. Koyama, M. Ozaki, E. Miyata, H. Tsunemi, J. P. Hughes, and R. Petre, *Publ. Astron. Soc. Japan*, **46**, L121–L124 (1994).
- 25 “Non-Polytropic Model for the Coma Cluster,” R. Fusco-Femiano, and J. P. Hughes, *The Astrophysical Journal*, **429**, 545–553 (1994).
- 26 “Abundance Gradients in Cooling Flow Clusters: *Ginga* LAC & *Einstein* SSS Spectra of A496, A1795, A2142 & A2199,” R. E. White, III, C. S. R. Day, I. Hatsukade, and J. P. Hughes, *The Astrophysical Journal*, **433**, 583–601 (1994).
- 27 “Evidence for Elemental Variation in the Ejecta of the Tycho Supernova Remnant,” O. Vancura, P. Gorenstein, and J. P. Hughes, *The Astrophysical Journal*, **441**, 680–688 (1995).
- 28 “*ASCA* Observations of the Large Magellanic Cloud Supernova Remnant Sample: Typing Supernovae from Their Remnants,” J. P. Hughes, I. Hayashi, D. J. Helfand, U. Hwang, M. Itoh, R. P. Kirshner, K. Koyama, T. H. Markert, H. Tsunemi, and J. Woo, *The Astrophysical Journal Letters*, **444**, L81–L84 (1995).
- 29 “A New X-ray-Discovered Cluster of Galaxies Associated with CL0016+16,” J. P. Hughes, M. Birkinshaw, and J. P. Huchra, *The Astrophysical Journal Letters*, **448**, L93–L96 (1995).

- 30 “Discovery of an X-ray Synchrotron Nebula Associated with the Radio Pulsar PSR B1853+01 in the Supernova Remnant W44,” I. Harrus, J. P. Hughes, and D. J. Helfand, *The Astrophysical Journal Letters*, **464**, L161–L164 (1996).
- 31 “A Study of the Evolutionary State of the Supernova Remnant G299.2–2.9,” P. Slane, O. Vancura, and J. P. Hughes, *The Astrophysical Journal*, **465**, 840–844 (1996).
- 32 “*Hubble Space Telescope* Observations of Oxygen-rich Supernova Remnants in the Magellanic Clouds. I. Narrow-band Imaging of N132D in the LMC,” J. A. Morse, W. P. Blair, M. A. Dopita, J. P. Hughes, R. P. Kirshner, K. S. Long, J. C. Raymond, R. S. Sutherland, and P. F. Winkler, *The Astronomical Journal*, **112**, 509–533 (1996).
- 33 “Detection of a Temperature Structure in the Coma Cluster of Galaxies with *ASCA*,” H. Honda, M. Hirayama, M. Watanabe, H. Kunieda, Y. Tawara, K. Yamashita, T. Ohashi, J. P. Hughes, and J. P. Henry, *The Astrophysical Journal*, **473**, L71–L74 (1996).
- 34 “Supernova Remnants Associated with Molecular Clouds in the Large Magellanic Cloud,” K. R. Banas, J. P. Hughes, L. Bronfman, and L.-Å. Nyman, *The Astrophysical Journal*, **480**, 607–617 (1997).
- 35 “Interpretation of the Center-Filled X-ray Emission from the Supernova Remnant W44,” I. Harrus, J. P. Hughes, K. P. Singh, K. Koyama, and I. Asaoka, *The Astrophysical Journal*, **488**, 781–791 (1997).
- 36 “Another X-ray-Discovered Cluster of Galaxies Associated with CL 0016+16,” J. P. Hughes and M. Birkinshaw, *The Astrophysical Journal*, **497**, 645–649 (1998).
- 37 “The X-ray Iron Emission from Tycho’s Supernova Remnant,” U. Hwang, J. P. Hughes, and R. A. Petre, *The Astrophysical Journal*, **497**, 833–841 (1998).
- 38 “Study of the Composite Remnant MSH 11–62,” I. M. Harrus, J. P. Hughes, and P. O. Slane, *The Astrophysical Journal*, **499**, 273–281 (1998).
- 39 “A Measurement of the Hubble Constant from the X-Ray Properties and the Sunyaev-Zel’dovich Effect of CL0016+16,” J. P. Hughes and M. Birkinshaw, *The Astrophysical Journal*, **501**, 1–14 (1998).
- 40 “A Very Hot, High Redshift Cluster of Galaxies: More Trouble for  $\Omega_0 = 1$ ,” M. Donahue, G. M. Voit, I. Gioia, G. Luppino, J. P. Hughes, and J. T. Stocke, *The Astrophysical Journal*, **502**, 550–557 (1998).
- 41 “*ASCA* X-ray Spectroscopy of LMC Supernova Remnants and the Metal Abundances of the LMC,” J. P. Hughes, I. Hayashi, and K. Koyama, *The Astrophysical Journal*, **505**, 732–748 (1998).
- 42 “BVR<sub>I</sub> Light Curves for 22 Type Ia Supernovae,” A. G. Riess, R. P. Kirshner, B. P. Schmidt, S. Jha, P. Challis, P. M. Garnavich, A. A. Esin, C. Carpenter, R. Grashius, R. E. Schild, P. L. Berlind, J. P. Huchra, C. F. Prosser, E. E. Falco, P. J. Benson, C. Briceño, C., W. R. Brown, N. Caldwell, I. P. Dell’Antonio, A. V. Filippenko, A. A. Goodman, N. A. Grogin, T. Groner, J. P. Hughes, P. J. Green, R. A. Jansen, J. T. Kleyana, J. X. Luu, L. M. Macri, B. A. McLeod, K. K. McLeod,

- B. R. McNamara, B. McLean, A. A. E. Milone, J. J. Mohr, D. Moraru, C. Peng, J. Peters, A. H. Prestwich, K. Z. Stanek, A. Szentgyorgyi, and P. Zhao, *The Astronomical Journal*, **117**, 707–724 (1999).
- 43 “Nonthermal X-Ray Emission from the Shell-Type SNR G347.5–0.5,” P. Slane, B. Gaensler, T. Dame, J. P. Hughes, P. P. Plucinsky, and A. Greene, *The Astrophysical Journal*, **525**, 357–367 (1999).
- 44 “The Extraordinarily Rapid Expansion of the X-Ray Remnant of Kepler’s Supernova (SN 1604),” J. P. Hughes, *The Astrophysical Journal*, **527**, 298–309 (1999).
- 45 “The Second Most Distant Cluster of Galaxies in the Extended Medium Sensitivity Survey,” M. Donahue, G. M. Voit, C. Scharf, I. Gioia, C. R. Mullis, J. P. Hughes, and J. T. Stocke, *The Astrophysical Journal*, **527**, 525–534 (1999).
- 46 “Nucleosynthesis and Mixing in Cassiopeia A,” J. P. Hughes, C. E. Rakowski, D. N. Burrows, and P. O. Slane, *The Astrophysical Journal Letters*, **528**, L109–L113 (2000).
- 47 “The X-ray Line Emission from the Supernova Remnant W49B,” U. Hwang, R. Petre, and J. P. Hughes, *The Astrophysical Journal*, **532**, 970–979 (2000).
- 48 “*Chandra* Observations of the Crab-Like Supernova Remnant G21.5–0.9,” P. O. Slane, Y. Chen, N. Schultz, F. Seward, J. P. Hughes, and B. Gaensler, *The Astrophysical Journal Letters*, **533**, L29–L32 (2000).
- 49 “Sunyaev-Zel’dovich Effect Derived Distances to the High Redshift Clusters MS 0451.6–0305 and CL 0016+16,” E. D. Reese, J. J. Mohr, J. E. Carlstrom, M. Joy, L. Grego, G. P. Holder, W. L. Holzapfel, J. P. Hughes, S. Patel, and M. Donahue, *The Astrophysical Journal*, **533**, 38–49 (2000).
- 50 “*Hubble Space Telescope* Observations of Oxygen-rich Supernova Remnants in the Magellanic Clouds. II. Elemental Abundances in N132D and 1E 0102.2–7219.” W. P. Blair, J. A. Morse, J. C. Raymond, R. P. Kirshner, J. P. Hughes, M. A. Dopita, R. S. Sutherland, K. S. Long, and P. F. Winkler, *The Astrophysical Journal*, **537**, 667–689 (2000).
- 51 “A Merger Scenario for the Dynamics of Abell 665,” P. Gómez, J. P. Hughes, and M. Birkinshaw, *The Astrophysical Journal*, **540**, 726–740 (2000).
- 52 “Distance and Mass of the Galaxy Cluster A1995 Derived from Sunyaev-Zel’dovich Effect and X-ray Measurements,” S. K. Patel, M. Joy, J. E. Carlstrom, G. P. Holder, E. D. Reese, P. L. Gómez, J. P. Hughes, L. Grego, and W. L. Holzapfel, *The Astrophysical Journal*, **541**, 37–48 (2000).
- 53 “Discovery of X-ray Emission from G328.4+0.2, a Crab-Like Supernova Remnant,” J. P. Hughes, P. Slane, and P. P. Plucinsky, *The Astrophysical Journal*, **542**, 386–391 (2000).
- 54 “Electron Heating and Cosmic Rays at a Supernova Shock from *Chandra* X-ray Observations of 1E 0102.2–7219,” J. P. Hughes, C. E. Rakowski, and A. Decourchelle, *The Astrophysical Journal Letters*, **543**, L61–L65 (2000).
- 55 “The Expansion of the X-Ray Remnant of Tycho’s Supernova (SN 1572),” J. P. Hughes, *The Astrophysical Journal Letters*, **545**, L53–L56 (2000).



- 56 “A Broadband X-ray Study of Supernova Remnant 3C397,” S. Safi-Harb, R. Petre, K. A. Arnaud, J. W. Keohane, K. J. Borkowski, K. K. Dyer, S. P. Reynolds, and J. P. Hughes, *The Astrophysical Journal*, **545**, 922–938 (2000).
- 57 “Measuring Cluster Temperature Profiles with it XMM/EPIC,” M. Arnaud, D. M. Neumann, N. Aghanim, R. Gastaud, S. Majerowicz, and J. P. Hughes, *Astronomy & Astrophysics*, **365**, L80–L86 (2001).
- 58 “Two New Ejecta-Dominated Galactic Supernova Remnants: G337.2–0.7 and G309.2–0.6,” C. Rakowski, J. P. Hughes, and P. Slane, *The Astrophysical Journal*, **548**, 258–268 (2001).
- 59 “RXJ 0852.0–0462: Another Nonthermal Shell-Type SNR (G266.2–1.2),” P. Slane, J. P. Hughes, R. Edgar, P. P. Plucinsky, H. Tsunemi, E. Miyata, and B. Aschenbach, *The Astrophysical Journal*, **548**, 814–819 (2001).
- 60 “*ASCA* Observation of the Twin Supernova Remnants in the Large Magellanic Cloud, DEM L316,” M. Nishiuchi, J. Yokogawa, K. Koyama, and J. P. Hughes, *Publ. Astron. Soc. Japan*, **53**, 99–104 (2001).
- 61 “A New *ASCA* and *ROSAT* Study of the Supernova Remnant G272.2–3.2,” I. M. Harrus, P. O. Slane, Randall Smith, and J. P. Hughes, *The Astrophysical Journal*, **552**, 614–623 (2001).
- 62 “A Pulsar Wind Nebula in the Oxygen-Rich Supernova Remnant G292.0+1.8,” J. P. Hughes, P. O. Slane, D. N. Burrows, G. Garmire, J. A. Nousek, C. M. Olbert, and J. W. Keohane, *The Astrophysical Journal Letters*, **559**, L153–L156 (2001).
- 63 “An X-Ray Study of the Supernova Remnant G290.1–0.8,” P. Slane, R. Smith, J. P. Hughes, and R. Petre, *The Astrophysical Journal*, **564**, 284–290 (2002).
- 64 “The Structure of the Oxygen-rich Supernova Remnant G292.0+1.8 from *Chandra* X-ray Images: Shocked Ejecta and Circumstellar Medium,” S. Park, P. W. A. Roming, J. P. Hughes, P. O. Slane, D. N. Burrows, G. Garmire, and J. A. Nousek, *The Astrophysical Journal Letters*, **564**, L39–L43 (2002).
- 65 “*Chandra* Observations of Unresolved X-Ray Sources Around Two Clusters of Galaxies,” S. M. Molnar, J. P. Hughes, M. Donahue, and M. Joy, *The Astrophysical Journal*, **573**, L91–L94 (2002).
- 66 “*ASCA* Study of the High-Luminosity SNR G349.7+0.2,” P. O. Slane, Y. Chen, J. S. Lazendic, and J. P. Hughes, *The Astrophysical Journal*, **580**, 904–908 (2002).
- 67 “Iron Rich Ejecta in the Supernova Remnant DEM L71,” J. P. Hughes, P. Ghavamian, C. E. Rakowski, and P. O. Slane, *The Astrophysical Journal Letters*, **582**, L95–L99 (2003).
- 68 “The Radial Structure of Supernova Remnant N103B,” K. T. Lewis, D. N. Burrows, J. P. Hughes, P. O. Slane, G. P. Garmire, and J. A. Nousek, *The Astrophysical Journal*, **582**, 770–782 (2003).
- 69 “Revealing New Physical Structures in the Supernova Remnant N63A through *Chandra* Imaging Spectroscopy,” J. S. Warren, J. P. Hughes, and P. O. Slane, *The Astrophysical Journal*, **583**, 260–266 (2003).

- 70 “X-ray Emission from Multi-phase Shock of Supernova Remnant N49 in the Large Magellanic Cloud,” S. Park, D. N. Burrows, G. Garmire, J. A. Nousek, J. P. Hughes, and R. M. Williams, *The Astrophysical Journal*, **586**, 210–223 (2003).
- 71 “The Physics of Supernova Remnant Blast Waves. I. Kinematics of DEM L71 in the LMC,” P. Ghavamian, C. E. Rakowski, J. P. Hughes, and T. B. Williams, *The Astrophysical Journal*, **590**, 833–845 (2003).
- 72 “The Physics of Supernova Remnant Blast Waves. II. Electron-Ion Equilibration in DEM L71 in the LMC,” C. E. Rakowski, P. Ghavamian, and J. P. Hughes, *The Astrophysical Journal*, **590**, 846–857 (2003).
- 73 “An X-Ray Pulsar in the Oxygen-Rich Supernova Remnant G292.0+1.8,” J. P. Hughes, P. O. Slane, S. Park, P. W. A. Roming, and D. N. Burrows, *The Astrophysical Journal Letters*, **591**, L139–L142 (2003).
- 74 “Detection of Magnesium-Rich Ejecta in the Middle-Aged Supernova Remnant N49B,” S. Park, J. P. Hughes, P. O. Slane, D. N. Burrows, J. S. Warren, G. Garmire, and J. A. Nousek, *The Astrophysical Journal Letters*, **592**, L41–L44 (2003).
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- 1994 “Using the Sunyaev-Zel’dovich Effect in Galaxy Clusters for Determining the Hubble Constant: Recent Progress and Future Promise,” seminar at the Department of Astronomy, Yale University (8 April, New Haven, CT).

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- 1994 “Abundance Determinations from X-ray Observations of SNRs,” seminar to the CfA Supernova Remnant Group, (9 November, Cambridge, MA).
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- 1995 “Physical Processes in Shocked Plasmas,” invited talk at the *AXAF* Science Center Workshop “Rates, Codes, and Astrophysics,” (17–20 July, Cambridge, MA).
- 1996 “The Expansion of Tycho’s Supernova Remnant,” seminar to the CfA Supernova Remnant Group, (29 January, Cambridge, MA).
- 1996 “Supernova Remnants and Cosmic Abundances,” invited presentation at the High Throughput X-Ray Spectroscopy Workshop, (29 September–1 Oct, Boston, MA).
- 1996 “Untangling the Riddle of the Supernova Remnant W44,” seminar at the NASA/GSFC Laboratory for High Energy Astrophysics, (26 November, Greenbelt, MD).
- 1997 “X-rays from Young SNRs,” invited talk at the Minnesota SNR Workshop “ $10^{51}$  Ergs: The Evolution of Shell SNRs,” (23–26 March, Minneapolis, MN).
- 1997 “Recent X-ray Observations of Supernova Remnants,” invited talk at the 190<sup>th</sup> meeting of the American Astronomical Society (9–12 June, Winston-Salem, NC) (*Bull. Amer. Astr. Soc.*, **29**, 827).
- 1997 “X-ray Observations of Supernova Remnants,” invited talk at the conference “Supernova Explosions: Their Causes and Consequences,” (5–9 August, Institute for Theoretical Physics, Santa Barbara, CA).
- 1997 “Hot Electrons and Cold Photons: Galaxy Clusters and the Sunyaev-Zel’dovich Effect,” invited talk at IAU Symposium No. 188, “The Hot Universe,” (26–30 August, Kyoto, Japan).
- 1997 “Hot Electrons and Cold Photons: Galaxy Clusters and the Sunyaev-Zel’dovich Effect,” Pennsylvania State University, Astronomy and Astrophysics Colloquium (8 October, University Park, PA).
- 1998 “Hot Electrons and Cold Photons: Galaxy Clusters and the Sunyaev-Zel’dovich Effect,” University of Pennsylvania, Astronomy and Astrophysics Colloquium (6 March, Philadelphia, PA).
- 1998 “Hot Electrons and Cold Photons: Galaxy Clusters and the Sunyaev-Zel’dovich Effect,” Columbia University, Physics Colloquium (3 April, New York, NY).

- 1998 “Understanding Plasmas in Galaxy Clusters,” invited talk at the 1998 Joint APS/AAPT meeting (18–21 April, Columbus, OH).
- 1998 “Supernovae and their Remnants,” invited talk at the 192<sup>nd</sup> meeting of the AAS (8–11 June, San Diego, CA) (*Bull. Amer. Astr. Soc.*, **30**, 876).
- 1999 “Thermal X-ray Emission of Supernova Remnants: the View from *ASCA* and *ROSAT* to *Astro-E*,” invited talk at the *ASCA* Symposium on “Heating and Acceleration in the Universe” (17–19 March, Tokyo, Japan).
- 1999 “Using Supernova Remnants in the Large Magellanic Cloud to Probe Evolution, Progenitors, and the Interstellar Medium,” seminar to the Princeton ISM group, (2 April, Princeton, NJ).
- 1999 “U.S. Views on the *ASCA* Mission,” invited review at the Workshop on U.S.-European-Japanese Cooperation in Space Research (19–21 May, Tokyo, Japan).
- 1999 “How the Intrinsic Shapes of Galaxy Clusters Influence Distance Determinations using the SZ Effect,” invited talk at the 194<sup>th</sup> meeting of the AAS (30 May–3 June, Chicago, IL) (*Bull. Amer. Astr. Soc.*, **31**, 915).
- 2000 “Nucleosynthesis and Mixing in the Supernova Remnant Cassiopeia A,” seminar at Centre d’Etudes de Saclay, Service d’Astrophysique (20 January, Saclay, France).
- 2000 “Recent Advances in the S-Z Observations of Clusters of Galaxies,” *Le Thé de la Cosmologie* seminar at Centre d’Etudes de Saclay, Service d’Astrophysique (7 March, Saclay, France).
- 2000 “Nucleosynthesis and Mixing in the Supernova Remnant Cassiopeia A,” seminar at Osservatorio Astrofisico di Arcetri (6 April, Firenze, Italy).
- 2000 “*Chandra* X-ray Spectroimagery of Supernova Remnants,” invited talk given at the symposium “New Vistas from X-Ray Observatories” during the 33rd COSPAR Scientific Assembly (16–23 July, Warsaw, Poland).
- 2000 “Young Supernova Remnants in the Magellanic Clouds,” invited talk at the 11<sup>th</sup> Annual October Maryland Astrophysics Conference “Young Supernova Remnants” (16–18 October, Greenbelt, MD).
- 2001 “*Chandra* Views of the Supernova Remnant/Compact Object Connection,” invited talk at the 197<sup>th</sup> meeting of the AAS (7–11 January, San Diego, CA) (*Bull. Amer. Astr. Soc.*, **32**, 1560).
- 2001 “Sharper Views of Magellanic Cloud Supernova Remnants,” invited talk at the *Chandra* Science Symposium (16–18 July, St. Paul, MN).
- 2001 “*Chandra* View of Nucleosynthesis, Pulsars, Cosmic Rays and More!” University of Massachusetts, Astronomy Colloquium (1 November, Amherst, MA)
- 2002 “Instabilities and Cosmic Ray Acceleration in Supernova Remnants,” invited talk at the 4th International Conference on High Energy Density Laboratory Astrophysics (23–25 Feb, Ann Arbor, MI).
- 2002 “A Tale of Two Remnants,” lunchtime seminar at STScI (14 March, Baltimore, MD).
- 2002 “A Tale of Two Remnants: Cassiopeia A and G292.0+1.8,” seminar at the NASA/GSFC Laboratory for High Energy Astrophysics (21 May, Greenbelt, MD).

- 2002 “X-ray Spectral Morphology of Young Supernova Remnants,” invited talk given at the symposium “High Energy Studies of Supernova Remnants and Neutron Stars” during the 34th COSPAR Scientific Assembly (10–12 October, Houston, TX).
- 2003 “Supernova Remnants and the Interstellar Medium,” invited talk given at the 201st meeting of the AAS (5–9 Jan, Seattle, WA) (*Bull. Amer. Astr. Soc.*, **34**, 1270).
- 2003 “Abundances from Supernova Remnants,” invited talk given at the Carnegie Observatories Astrophysics Symposium 4 “Origin and Distribution of the Elements” (16–21 February, Pasadena, CA).
- 2003 “New Insights into Supernova Remnants from Four Years of *Chandra* Observations,” invited talk given at the symposium “Four Years of *Chandra* Observations: A Tribute to Riccardo Giacconi” (16–18 September, Huntsville, AL).
- 2004 “Observing Nucleosynthesis in Type Ia Supernova Remnants,” invited talk given at the symposium “Young Neutron Stars and Supernova Remnants” during the 35th COSPAR Scientific Assembly (18–25 July, Paris, France).
- 2004 “Searching for Galaxy Clusters in the Dark,” Astronomy Seminar, Rutgers University (8 October, Piscataway, NJ).
- 2005 “New Insights into the Physics of Supernovae and their Remnants: A Comprehensive X-ray Study of SN 1572,” McGill University and Université de Montréal, Joint Astrophysics Colloquium (13 September, Montréal, CA).
- 2005 “New Insights into the Physics of Supernovae and their Remnants: A Comprehensive X-ray Study of SN 1572,” Kyoto University, Astrophysics Seminar (18 October, Kyoto, Japan).
- 2006 “Evidence for the Hadronic Component of Cosmic Rays at the Forward Shock of Tycho’s Supernova Remnant,” seminar to the Princeton ISM group (16 January, Princeton, NJ).
- 2006 “Review of X-Ray Observations of Core Collapse SNRs,” invited talk given at the KITP Conference: Supernova and Gamma-Ray Burst Remnants (6 February, Santa Barbara, California).
- 2006 “X-ray Observations of the Tycho Supernova Remnant,” invited talk given at the 208th meeting of the AAS (4–8 June, Calgary, CA).
- 2006 “Constraints on SN Ia from Their Remnants: X-ray Studies of the Tycho SNR”, invited talk at Joint Discussion 9 during the 26th meeting of the International Astronomical Union, (17–18 August, Prague, Czech Republic).
- 2006 “New Insights into the Physics of Supernovae and their Remnants: A Comprehensive X-ray Study of SN 1572,” Harvard University, Astronomy Colloquium, (21 Sept, Cambridge, MA)
- 2006 “Recent and Future Topics Concerning the X-Ray Emission from Supernova Remnants,” invited talk at the conference “Extreme Universe in the *Suzaku* Era” (4–8 December, Kyoto, Japan)
- 2007 “New Insights into the Physics of Supernovae and their Remnants: A Comprehensive X-ray Study of SN 1572,” Princeton University, Astrophysics Colloquium, (6 March, Princeton, NJ)



- 2007 “ACT: The Atacama Cosmology Telescope,” invited talk at the SCS/PIRE Summer School on the Large Scale Structure – CMB connection (23 March, Santiago, Chile)
- 2007 “New Insights into the Physics of Supernovae and their Remnants: A Comprehensive X-ray Study of SN 1572,” Pennsylvania State University, Astrophysics Colloquium, (11 April, State College, PA)
- 2007 “Spectral Inhomogeneities in SNIa Remnants,” invited speaker of the week, (8 May, KITP UC Santa Barbara CA)
- 2008 “Recent X-ray Results on Supernova Remnants,” invited talk at the “The X-ray Universe 2008” symposium, (27–30 May, Granada, Spain)
- 2009 “A Tale of Two Remnants: Cosmic Rays in SN1006 and SN1572,” the Astronomy CSSA-KIPAC-SLAR Seminar, (11 June, Stanford, CA)
- 2009 “First Results from the Atacama Cosmology Telescope: SZ Detections of Galaxy Clusters,” Pontificia Universidad Católica de Chile, Astronomy Colloquium, (20 August, Santiago, Chile)
- 2009 “SZ-Selected Clusters from the New mm-Wave Telescopes: ACT and SPT,” SALT/MeerKAT Science Workshop, (3 November, Cape Town, South Africa)
- 2009 “First Results from the Atacama Cosmology Telescope: SZ Detections of Galaxy Clusters,” HEAD lunch talk at the Harvard-Smithsonian Center for Astrophysics, (2 December, Cambridge, MA)
- 2009 “What’s New from the Atacama Cosmology Telescope?” invited talk at the Rutgers-PUC Astrophysics Workshop 2009, (14-15 December, Santiago, Chile)
- 2009 “First Results from the Atacama Cosmology Telescope: SZ Detections of Galaxy Clusters,” Universidad de Chile, Astronomy Colloquium, (16 December, Santiago, Chile)
- 2010 “Observational Constraints on Cosmic Ray Acceleration in Supernova Remnants,” invited talk at the APS “April” Meeting (13-17 February, Washington, DC)
- 2010 “Recent X-ray Results on Young Supernova Remnants,” invited talk at the workshop “Exploring Supernova Remnants and Pulsar Wind Nebulae in X-rays: before and after ASTRO-H” (18-20 February, ISAS, Sagamihara, Japan)
- 2010 “First Results from the Atacama Cosmology Telescope: SZ Detections of Galaxy Clusters,” Columbia University, Astronomy Colloquium (3 March, New York, NY)
- 2010 “First Results from the Atacama Cosmology Telescope: SZ Detections of Galaxy Clusters,” University of Maryland, Astronomy Colloquium (21 April, College Park, MD)
- 2010 “Clusters and Cosmology from the Atacama Cosmology Telescope,” University of Miami, Physics Colloquium (1 December, Coral Gables, FL)
- 2011 “Clusters and Cosmology from the Atacama Cosmology Telescope,” Pennsylvania State University, Astrophysics Colloquium, (31 August, State College, PA)

## Abstracts

- 1982 “An Eigenvalue Approach to the Solution of Nonequilibrium Ionization and Applications to Models of Supernova Remnants,” J. P. Hughes, *Bull. Amer. Astr. Soc.*, **14**, 666.
- 1983 “Kepler’s Supernova Remnant – Nonequilibrium Ionization Effects,” J. P. Hughes, D. J. Helfand, K. S. Long, and R. White, *Bull. Amer. Astr. Soc.*, **14**, 936.
- 1983 “The Number-Diameter Relationship for the Supernova Remnants in the Large Magellanic Cloud,” J. P. Hughes and D. J. Helfand, *Bull. Amer. Astr. Soc.*, **15**, 668.
- 1984 “Nonequilibrium Ionization and the Supernova Remnants in the Large Magellanic Cloud,” J. P. Hughes and D. J. Helfand, *Bull. Amer. Astr. Soc.*, **15**, 965.
- 1984 “Kepler’s Supernova Remnant – Self-Consistent Models for the X-Ray Emission,” J. P. Hughes and D. J. Helfand, *Bull. Amer. Astr. Soc.*, **16**, 466.
- 1985 “A Statistical Study of the Supernova Remnants in the Large Magellanic Cloud,” J. P. Hughes and D. J. Helfand, *Bull. Amer. Astr. Soc.*, **16**, 927.
- 1985 “X-Ray Studies of the Supernova Remnant N132D,” J. P. Hughes, *Bull. Amer. Astr. Soc.*, **17**, 546.
- 1986 “X-Ray Spectra of Supernova Remnants – A Model Independent Approach,” J. P. Hughes, *Bull. Amer. Phys. Soc.*, **31**, 851.
- 1986 “High-Resolution X-Ray Spectroscopy of Cas A: A Nonequilibrium Interpretation,” T. H. Markert, P. L. Blizzard, C. R. Canizares, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **18**, 704.
- 1987 “The Mass of the Coma Cluster from X-Ray Observations,” J. P. Hughes, *Bull. Amer. Astr. Soc.*, **18**, 1015.
- 1987 “The Distribution of Dark Matter in the Coma Cluster,” J. P. Hughes, *Bull. Amer. Phys. Soc.*, **32**, 1063.
- 1987 “Morphological Studies of the Supernova Remnant E0102.2-72.2,” J. P. Hughes, R. P. Kirshner, and P. F. Winkler, *Bull. Amer. Astr. Soc.*, **19**, 730.
- 1988 “A Second Supernova Remnant in Puppis A ?” P. F. Winkler, R. P. Kirshner, J. P. Hughes, and S. Heathcote, *Bull. Amer. Astr. Soc.*, **20**, 671.
- 1988 “The Gas Content of A665,” M. Birkinshaw, K. A. Arnaud, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **20**, 719.
- 1989 “Astronomical Image Processing with Iterative Deconvolution,” P. Nisenson, C. Standley, and J. Hughes, *Bull. Amer. Astr. Soc.*, **21**, 1072.
- 1990 “Velocities of Galaxies in Abell 665,” M. Birkinshaw, J. P. Huchra, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **22**, 882.
- 1991 “Abell 2218 and the Hubble Constant,” M. Birkinshaw, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **23**, 973.
- 1991 “Elemental Abundances in the Supernova Remnant G292.0+1.8: Evidence for a Massive Progenitor,” J. P. Hughes, and K. P. Singh, *Bull. Amer. Astr. Soc.*, **23**, 918.
- 1991 “FeLiX: An X-Ray Telescope to Perform a Medium Resolution All-Sky Survey in the 2-10 keV Band,” P. Slane, M. Elvis, G. Fabbiano, J. Hughes, F. Seward, A. Szentgyorgyi, D. Worrall, *Bull. Amer. Astr. Soc.*, **23**, 1452.

- 1991 “X-Ray Imaging Properties of the *AXAF* Outer Mirror,” E. Kellogg, R. Brissenden, J. Chappell, G. Chartas, L. Cohen, K. Flanagan, M. Freeman, D. Graessle, M. Jones, J. Hughes, P. McKinnon, D. Nguyen, W. Podgorski, J. Roll, D. Schwartz, P. Slane, H. Tananbaum, L. Van Speybroeck, A. Szentgyorgyi, P. Zhao, M. Zombeck, T. Casey, G. Matthews, M. Waldman, J. Wynn, T. Gordon, M. Magida, P. Reid, J. Bilbro, M. Joy, J. Kolodziejczak, M. Weisskopf, D. Zissa, J. Arenberg, S. Texter, *Bull. Amer. Astr. Soc.*, **23**, 1349.
- 1992 “*Ginga* Observation of an Oxygen-Rich Supernova Remnant,” I. Asaoka, J. P. Hughes, and K. Koyama, abstract in *Frontiers of X-Ray Astronomy*, Proceedings of the 28<sup>th</sup> Yamada Conference, (Universal Academy Press: Tokyo), eds. Y. Tanaka & K. Koyama, p. 385.
- 1992 “X-Ray Spectroscopy of SNR N132D,” U. Hwang, C. R. Canizares, T. H. Markert, and J. P. Hughes, in *Frontiers of X-Ray Astronomy*, Proceedings of the 28<sup>th</sup> Yamada Conference, (Universal Academy Press: Tokyo), eds. Y. Tanaka & K. Koyama, p. 389.
- 1992 “High Resolution X-Ray Spectroscopy of the Supernova Remnant N132D,” U. Hwang, C. R. Canizares, T. H. Markert and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **24**, 790.
- 1992 “*ROSAT* High Spatial Resolution Observations of Kepler’s Supernova Remnant,” P. Slane, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **24**, 1196.
- 1993 “Comparative X-ray Studies of the Tycho and Cas A Supernova Remnants,” O. Vancura, J. P. Hughes, and P. Gorenstein, *Bull. Amer. Astr. Soc.*, **25**, 785.
- 1993 “*Ginga* LAC and *Einstein* SSS X-Ray Spectral Evidence of Abundance Gradients in Galaxy Clusters,” R. E. White, III, C. S. R. Day, I. Hatsukade and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **25**, 1374
- 1994 “A New X-Ray–Discovered Cluster of Galaxies Associated with CL0016+16,” J. P. Hughes, M. Birkinshaw, and J. P. Huchra, *Bull. Amer. Astr. Soc.*, **26**, 1395.
- 1994 “An X-Ray Study of the Supernova Remnant W44,” I. Harrus, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **26**, 1429.
- 1995 “The Distance to CL0016+16 and the Hubble Constant,” J. P. Hughes, and M. Birkinshaw, *Bull. Amer. Astr. Soc.*, **27**, 1292.
- 1995 “The Association of Supernova Remnants and Molecular Clouds in the Large Magellanic Cloud,” K. R. Banas, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **27**, 1395.
- 1995 “An X-ray Synchrotron Nebula Associated with the Radio Pulsar PSR B1853+01 in the Supernova Remnant W44,” I. Harrus, and J. P. Hughes, *Bull. Amer. Astr. Soc.*, **27**, 1307.
- 1995 “Predicted X-ray Performance of the *AXAF* High Resolution Mirror during Ground Calibration at the Marshall Space Flight Center,” D. Jerius, L. Cohen, R. Edgar, M. Freeman, T. Gaetz, J. Hughes, E. Kellogg, W. Podgorski, D. Schwartz, L. Van Speybroeck, and P. Zhao, *Bull. Amer. Astr. Soc.*, **27**, 1395.
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- 1995 “Absolute Calibration of *AXAF* Effective Area,” E. Kellogg, E. Tsiang, D. Schwartz, J. Hughes, T. Gaetz, B. Wargelin, J. Kolodziejczak, F. Scholze, G. Ulm, S. O’Dell, and R. Elsner, *Bull. Amer. Astr. Soc.*, **27**, 1394.
- 1995 “Ground Calibration of *AXAF*: The HRMA X-ray Detection System,” B. J. Wargelin, J. P. Hughes, E. M. Kellogg, T. J. Norton, and D. A. Schwartz, *Bull. Amer. Astr. Soc.*, **27**, 1395.
- 1995 “*AXAF* Calibration at the XRCF,” J. Z. Juda, L. P. David, R. H. Donnelly, C. Jones, B. R. McNamara, H. D. Tananbaum, H. L. Marshall, J. P. Hughes, E. M. Kellogg, B. Wargelin, J. H. Chappell, A. Kenter, R. Kraft, S. S. Murray, M. V. Zombeck, M. W. Bautz, J. A. Nousek, D. Dewey, T. H. Markert, A. C. Brinkman, C. J. Th. Gunsing, P. Predehl, R. A. Austin, J. J. Kolodziejczak, M. C. Weisskopf, J. W. Arenberg, R. Carlson, and S. C. Texter, *Bull. Amer. Astr. Soc.*, **27**, 1394.
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- 1996 “The X-ray Expansion of Tycho’s Supernova Remnant,” J. P. Hughes, *Bull. Amer. Astr. Soc.*, **28**, 1334.
- 1996 “Study of the Composite Remnant MSH 11–62,” I. M. Harrus, J. P. Hughes, and P. O. Slane, *Bull. Amer. Astr. Soc.*, **28**, 1334.
- 1997 “Fe Emission in Tycho’s Supernova Remnant,” U. Hwang, J. P. Hughes, R. Petre, and E. V. Gotthelf, poster presented at the Minnesota SNR Workshop “ $10^{51}$  Ergs: The Evolution of Shell SNRs,” (March 23–26, Minneapolis MN).
- 1997 “Center-filled X-ray Morphology in SNRs,” P. Slane, J. P. Hughes, R. Petre, and J.-H. Rho, poster presented at the Minnesota SNR Workshop “ $10^{51}$  Ergs: The Evolution of Shell SNRs,” (March 23–26, Minneapolis MN).
- 1997 “Study of the Composite Remnant MSH 11–62,” I. M. Harrus, J. P. Hughes, and P. Slane, poster presented at the Minnesota SNR Workshop “ $10^{51}$  Ergs: The Evolution of Shell SNRs,” (March 23–26, Minneapolis MN).
- 1997 “Interferometric Images of the Sunyaev-Zel’dovich Effect in Galaxy Clusters from  $z = 0.15$  to  $z = 0.83$ : toward an Independent Determination of  $H_0$  and Omega,” M. Joy, J. Carlstrom, L. Grego, W. Holzzapfel, J. P. Hughes, and M. Donahue, talk given at the conference “Clusters of Galaxies at Different Redshifts,” (May 28–31, Ruidoso, NM).
- 1997 “Systematic X-ray Spectroscopy of Supernova Remnants in the Magellanic Clouds,” I. Hayashi, K. Koyama, and J. P. Hughes, poster presented at IAU Symposium No. 188, “The Hot Universe,” (August 26–30, Kyoto, Japan).
- 1997 “*ASCA* Observation of Distant Clusters of Galaxies,” T. Tsuru, H. Tomida, K. Koyama, J. P. Hughes, N. Arimoto, T. Kii, and M. Hattori, poster presented at IAU Symposium No. 188, “The Hot Universe,” (August 26–30, Kyoto, Japan).

- 1997 “*ASCA* X-ray Spectroscopy of LMC Supernova Remnants and the Metal Abundances of the LMC,” I. Hayashi, K. Koyama, and J. P. Hughes, poster presented at IAU Symposium No. 187, “Cosmic Chemical Evolution,” (August 26–30, Kyoto, Japan).
- 1997 “Determining the Hubble Constant from the Sunyaev-Zel’dovich Effect of CL 0016+16 and MS 0451.6–0305,” J. P. Hughes, J. Carlstrom, M. Joy, L. Grego, and W. Holzapfel, talk given at the High Energy Astrophysics Division meeting of the AAS, (Nov 4–7, Estes Park, CO).
- 1997 “To Be or Not to Be . . . Composite: An *ASCA* Study of the SNR G272.2–3.2,” I. Harrus, P. Slane, and J. P. Hughes, poster presented at the High Energy Astrophysics Division meeting of the AAS, (Nov 4–7, Estes Park, CO).
- 1997 “Nonthermal Emission from SNR G347.5–0.5: Another Case of Cosmic Ray Acceleration?” P. Slane, P. Plucinsky, I. M. Harrus, J. P. Hughes, A. J. Green, and B. M. Gaensler, *Bull. Amer. Astr. Soc.*, **29**, 1368.
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- 1998 “The Structure of Galaxy Clusters from Deep *ROSAT* X-ray Images,” J. P. Hughes, poster presented at the conference “Highlights in X-ray Astronomy” (June 17–18, Garching, Germany).
- 1998 “SNRs in the LMC,” J. P. Hughes, talk given at the First *XMM* Workshop “Science with *XMM*” (Sept 30–Oct 2, ESTEC, Noordwijk, The Netherlands).
- 1998 “New Ejecta-Dominated Young Galactic SNRs,” J. P. Hughes, talk presented at the Young Supernova Remnant Workshop (Oct 11-13, Boulder, CO).
- 1998 “X-Ray Observations of LMC SNRs,” J. P. Hughes, talk presented at the Young Supernova Remnant Workshop (Oct 11-13, Boulder, CO).
- 1998 “The Shapes of X-ray Galaxy Clusters: Effect on the Hubble Constant from the SZ Effect and the Distribution of Intrinsic Axial Ratios,” talk given at the workshop “Cosmological Constraints from X-Ray Clusters” (Dec 9–11, Strasbourg, France).
- 1999 “The Dynamical State of Abell 665 and  $H_0$ ,” P. L. Gómez, J. P. Hughes, and M. Birkinshaw, *Bull. Amer. Astr. Soc.*, **31**, 665.
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