

Patrick Olson Slane - Senior Astrophysicist

CONTACT INFORMATION	Harvard-Smithsonian Center for Astrophysics 60 Garden Street Cambridge, MA 02138 USA	Phone: 617-495-7256 email: slane@cfa.harvard.edu
RESEARCH INTERESTS	High energy astrophysics of shocks and particle acceleration, with applications to pulsar winds and supernova remnants; Semi-analytical and hydrodynamical modeling of pulsar wind nebulae, and supernova remnants; X-ray and infrared observations of supernova ejecta and dust; X-ray and gamma-ray studies of cosmic-ray production in supernova remnants; X-ray polarization; Population studies of Galactic X-ray sources	
EDUCATION	University of Wisconsin - Madison, Ph.D., Physics (1988) University of Wisconsin - Milwaukee, M.S., Mathematics (1983) University of Wisconsin - Whitewater, B.S.E., Physics/Mathematics (1977)	
POSITIONS HELD	2020–date Director, Chandra X-ray Center 1988–date Astrophysicist, Smithsonian Astrophysical Observatory 2015–2020 Assistant Director for Science, Chandra X-ray Center 2003–2014 Lecturer, Department of Astronomy, Harvard University 1991–1993 Instructor, Harvard University Extension School 1988 Postdoctoral Research Associate, University of Wisconsin - Madison 1986–1988 Research Assistant, University of Wisconsin - Madison 1982–1985 Teaching Assistant, University of Wisconsin - Madison 1982 Teaching Assistant, University of Wisconsin - Milwaukee 1981–1982 Instructor, Summer Physics Camp, University of Wisconsin - Whitewater 1978–1982 Physics/Astronomy Instructor, Wayland Academy	
HONORS AND AWARDS	American Astronomical Society Fellow (2025) Team Member, Bruno Rossi Prize (Martin Weisskopf, Paolo Soffitta, and the IXPE team - 2024) American Physical Society Fellow (2015) Smithsonian Institution Superior Accomplishment Award (2004) NASA Group Achievement Award - Chandra Mission Planning and Review Subgroup (2003) Smithsonian Institution Superior Accomplishment Award (2003) Smithsonian Institution Superior Accomplishment Award (2001) NASA Group Achievement Award - Chandra Science Team (2000) NASA Group Achievement Award - Chandra Telescope Development/Integration/Test Team (2000) NASA Group Achievement Award - CXC Development and Operations Team (2000) NASA Group Achievement Award - Chandra Systems Engineering and Flight Dynamics Team (2000) Smithsonian Institution Superior Accomplishment Award (2000) NASA Group Achievement Award - AXAF VETA Test Team (1992) Smithsonian Institution Superior Accomplishment Award (1992) Outstanding Recent Alumni Award (University of Wisconsin - Whitewater 1989) Domestic Travel Fellowship Recipient (University of Wisconsin 1986) Nominee for Excellence in Teaching Award (Department of Physics, University of Wisconsin 1984) Cum Laude graduate, University of Wisconsin - Whitewater (1978)	
PROFESSIONAL SOCIETIES	American Astronomical Society (AAS) AAS High Energy Astrophysics Division American Physical Society (APS) APS Division of Astrophysics International Astronomical Union National Physics Honor Society (Sigma Pi Sigma)	

PROFESSIONAL
ACTIVITIES

2021–2024	Science Organizing Committee, Co-Chair - “Supernova Remnants: An Odyssey in Space after Stellar Death III” (Crete, 2024)
2017–2019	Science Organizing Committee, Co-Chair - “Supernova Remnants: An Odyssey in Space after Stellar Death II” (Crete, 2019)
2017–date	Collaborator - Imaging X-ray Polarimetry Explorer (NASA/IXPE) Chair: IXPE Topical Working Group on Supernova Remnants Member: IXPE Topical Working Group on Pulsar Wind Nebulae Member: IXPE Topical Working Group on Magnetars
2017–date	Member - Athena Topical Panel/Working Group: SNRs & ISM
2017	Session Convener - “TeV Particle Astrophysics 2017” (Columbus, OH)
2017–2019	Member - Space Telescope Users Committee
2017	AAS Career Center Panelist - “Beyond the Academy” - 230th AAS Meeting (Austin, TX)
2016–date	Member - Lynx Stellar Lifecycles Science Working Group.
2015	AAS Job Center “Office Hours” Volunteer
2014–2016	Science Organizing Committee - “Supernova Remnants: An Odyssey in Space after Stellar Death” (Crete, 2016)
2014	Reviewer - NASA Science Enhancement Option Mission Request
2014	Science Organizing Committee - “Cosmic-Ray Origin - Beyond the Standard Models” (Italy)
2013–2014	Agent - American Astronomical Society
2013	Science Organizing Committee - “CTA LINK: X-raying the Gamma-ray Universe” (Japan)
2012–2013	Science Organizing Committee - “The Fast and the Furious: Energetic Phenomena in Isolated Neutron Stars, Pulsar Wind Nebulae and Supernova Remnants” (Madrid, Spain)
2012	AAS Career Center Panelist - “Career Paths” - 219th AAS Meeting (Austin, TX)
2011–2012	Science Organizing Committee, Co-Chair - “The Cosmic Kaleidoscope: Pulsars and Their Nebulae, Supernova Remnants and More - A Conference in Memory of Okkie de Jager” (Kruger National Park, South Africa)
2011	Reviewer - NASA Einstein Fellowship Program
2010	Member - AAS/HEAD Nominating Committee
2010	Science Organizing Committee Member - Fermi Symposium 2011 (Rome, Italy)
2010	Science Organizing Committee Member - COSPAR Symposium on “The Next Generation Ground-based Gamma-ray Experiments” (Bremen, Germany)
2009–2011	Member - APS/DAP Executive Committee
2009,2010	Chair - ESA Peer Review Panel for XMM-Newton
2009	Science Organizing Committee Member - “SNRs and PWNe in the Chandra Era” (Boston, MA)
2008	Candidate, AAS/HEAD Vice-Chair
2008	Chair - NASA Peer Review Panel for Fermi
2008–2012	Member - Fermi Users’ Group
2008–date	Referee for the journals Science and MNRAS
2007	Candidate - AAS Council
2007–date	Member - Constellation-X/IXO FST Science Panel
2005–2006	Deputy Organizer - COSPAR Symposium on “New High-Energy Results on Supernova Remnants and Pulsar Wind Nebulae” (Beijing, China, 2006)
2003–2015	Member - Science Alliance Board for the University of Wisconsin - Whitewater
2003–2008	Member, CfA Computation Facility Science Advisory Committee (Chair)
2003–2006	Member, Smithsonian Astrophysical Observatory Council (Vice Chair, 2004)
2003–2004	Team Member - International Space Science Institute (Bern, Switzerland) - Study Team for Physics of SNRs in the Chandra, XMM-Newton and INTEGRAL Era
2003–2004	Science Organizing Committee Member - COSPAR Symposium on “Young Neutron Stars and Supernova Remnants” (Paris, France, 2004)
2003–2005	Member, AAS/HEAD Executive Committee
2002	Science Organizing Committee Member - COSPAR Symposium on “High Energy Studies of Supernova Remnants and Neutron Stars”
2002–date	Referee for PASJ
2001	Co-Organizer - International Workshop on “Neutron Stars in Supernova Remnants” (Boston, MA)
2001–2005	Member - XMM-Newton User’s Group
2000–2002	Member - NASA HEASARC User’s Group

1999–date	Referee for A&A, and A&A Letters ('99, '00)
1999	Chair - SNR Session at AAS/HEAD Meeting (Charleston, SC)
1998	Reviewer - Book proposal for Institute of Physics Publishing
1995	Chair - Pulsar Session at AAS/HEAD Meeting (Napa Valley, CA)
1992–date	Referee for ApJ ('92, '95, '97, '99, '00, '01, '02)
1992–1996	Served on NASA Peer Review Panel for ASCA Proposal Reviews
1995–2005	Served on Application Selection Committee for SAO Summer Intern Program ('95, '97, '01)
1994–1998	AXAF Science Center Representative - AXAF Mission Planning Working Group
1990–1991	Member - AXAF Mirror Coating Working Group

STUDENT AND POSTDOCTORAL ADVISING

2021–date	Research Advisor for Tyler Holland-Ashford (Harvard Future Faculty Postdoctoral Fellow)
2020	Summer Research Advisor for Emily Zhang (Undergraduate, Columbia University)
2018	Summer Research Advisor for Emily Zhang (Undergraduate, Columbia University)
2016–2018	Research Advisor for Hui Zhu (Postdoctoral Fellow, CfA)
2014–2015	Research Advisor for Visiting Scientist Aytap Sezer (Boğaziçi University, Turkey)
2012–2015	PhD Thesis Advisor for Katie Auchettl (SAO Predoc, Monash University)
2013	Junior Thesis Advisor for Adrian Arteaga (Harvard)
2012	Masters Thesis supervisor for Katie Auchettl (Perimeter Institute)
2009–2011	Research Supervisor for Undergraduate Student Igor Lovchinsky (Harvard)
2007–2009	PhD Thesis Advisor for Tea Temim (SAO Predoc, University of Minnesota)
2007–2010	PhD Thesis Advisor for Daniel Castro (SAO Predoc, Universidad Simon Bolivar, Venezuela)
2006	Senior Thesis Advisor for Tim Morton (Harvard)
2005	Junior Thesis Advisor for Erika Hamden (Harvard)
2005–2007	Research Supervisor for Postdoctoral Research Associate Dan Patnaude
2005–2007	PhD Thesis Co-Advisor for Yosi Gelfand (Harvard)
2003–2006	Research Supervisor for Postdoctoral Research Associate Cara Rakowski
2003–2004	Research Co-Supervisor for Undergraduate Student Andrei Nechita (Harvard)
2003	Junior Thesis Advisor for Erik Zimmerman (Harvard)
2002–2003	Research Co-Advisor for Graduate Student Johnathan Jenkins (Harvard)
2001–2004	Research supervisor for Postdoctoral Research Associate Jasmina Lazendic
1999–2000	Research supervisor for graduate student Ming Sun (Harvard)
1998	Junior Thesis advisor for Simon DeDeo (Harvard)
1997–1999	Research supervisor for Postdoctoral Research Associate Ilana Harrus
1997	Advisor for SAO Summer Intern Program participant Jason Wright (BU)
1994	Advisor for SAO Summer Intern Program participant Nicole Lloyd (Cornell)
1990–1993	Supervised research work for undergraduate students Eric Blackman (MIT), Dylan Jones (Harvard), Cameron Ives (BU), & Joanne Barrett (BU)

EDUCATIONAL ACTIVITIES

2016–2017	Chair, Predoctoral Research Review Committee for SAO Predoc Jun Yang
2014	Christa McAuliffe Center presentation: “STOP for Science!” (Teacher workshop)
2013–2014	Chair, Predoctoral Research Review Committee for SAO Predoc Joshua Schroeder
2013	NASA Museum Alliance presentation, “Here, There, and Everywhere”
2012	Webinar presentation, “STOP for Science!” (Chandra X-ray Center)
2012	Wrote and appeared in podcast “STOP for Science: Listening to Light” (YouTube)
2010–2016	CfA HEAD Postdoc Liaison
2010–date	Science Lead: “Here, There, and Everywhere” - a NASA/EPOESS public outreach program
2009	Film appearance in “Pulsars and Quasars” episode of “The Universe” series (History Channel)
2008	Podcast interview in “Supernovas: When Stars Die” (Chandra X-ray Center)
2008	Podcast interview in “Until Their Dying Day: Stars on the Brink” (Chandra X-ray Center)

2006-date AAS Harlow Shapley Lecturer
 2006-date Principal Investigator: EPO Project “STOP for Science”
 2003-2005 Co-Chair, PTA Science Enrichment Committee (Fiske Elementary School, Lexington, MA)
 2003 On-camera interview for Wright Center for Science Education video series on Stellar Explosions
 2001 Participated in NASA Office of Space Science review of *Structure and Evolution of the Universe* educational materials
 2001 Performed science demonstrations in “Live from a Black Hole” and “Live from the Edge of the Universe” broadcasts (Passport to Knowledge series)
 1991–1995 Coordinator for SAO/HEAD participation in NASA Project JOVE
 1989–date Member of CfA Public Speakers Bureau
 1994–1996 Chair, Predoctoral Research Review Committee for SAO Predoc Ilana Harrus
 1991–1993 Instructor - “Introduction to Modern Astrophysics” - Harvard Summer School

PRESS/IMAGE
RELEASES

2024 Investigating the Origins of the Crab Nebula With NASA’s Webb (T. Temim et. al., JWST Science Release, 6/17/24)
 2024 NASA Telescopes Chase Down ”Green Monster” in Star’s Debris (D. Milisavljevic et al., Chandra Press Release, 1/8/24)
 2023 NASA’s Webb Stuns With New High-Definition Look at Exploded Star (D. Milisavljevic et al., JWST Science Release, 12/10/2023)
 2023 NASA X-ray Telescopes Reveal the “Bones” of a Ghostly Cosmic Hand (R. Romani et al., NASA Press Release, 10/30/23)
 2023 IXPE Untangles Theories Surrounding Historic Supernova Remnant (P. Zhao et al., NASA Press Release, 10/26/23)
 2023 Historic Nebula Seen Like Never Before With NASA’s IXPE (N. Bucciantini, NASA Press Release, 4/7/23)
 2023 Vela Pulsar Wind Nebula Takes Flight in New Image From NASA’s IXPE (F. Xie et al., NASA Press Release, 3/7/23)
 2023 NASA’s IXPE Unlocks Mysteries of Historic Tycho Supernova (R. Ferrazzeli et al., NASA Press Release, 2/28/23)
 2022 NASA’s Chandra Catches Pulsar in X-ray Speed Trap (T. Temim et al., CXC Press release, 6/15/22)
 2022 NASA’S IXPE Helps Unlock the Secrets of Famous Exploded Star (J. Vink et al., NASA Press Release, 10/18/22)
 2021 G344.7-0.1: When a Stable Star Explodes (K. Fukushima et al., CXC Image Release, 10/12/21)
 2020 Kepler’s Supernova Remnant: Debris from Stellar Explosion Not Slowed After 400 Years (M. Millard et al., CXC Image Release, 8/19/20)
 2015 Geminga and B0355+54: Chandra Images Show That Geometry Solves a Pulsar Puzzle (B. Posselt et al., CXC Press Release, 1/18/17)
 2015 GK Persei: ”Mini Supernova” Explosion Could Have Big Impact (D. Takei et al., CXC Press Release, 3/16/15)
 2015 G299.2-2.9: Exploded Star Blooms Like a Cosmic Flower (S. Post et al., CXC Press Release, 2/12/15)
 2014 MSH 11-62 and G327.1-1.1: Supernova Shock Waves, Neutron Stars, and Lobsters (T. Temim et al., CXC Image Release, 11/19/14)
 2014 Four Supernova Remnants: NASA’s Chandra X-ray Observatory Celebrates 15th Anniversary (NASA/CXC/SAO, CXC Image Release, 7/22/14)
 2012 G350.1-0.3: Remnant of an Explosion With a Powerful Kick? (I. Lovchinsky et al., CXC Image Release, 2/1/12)
 2011 Exploding Stars and Stripes (K. Eriksen et al., Rutgers University Release: 3/24/11)
 2010 G327.1-1.1: Pushing the Envelope (T. Temim et al., CXC Image Release, 10/5/10)
 2009 PSR B1509-58: A Young Pulsar Shows its Hand (P. Slane et al., CXC Image Release, 4/3/09)
 2007 G347.3-0.5 and RCW 86: Taking it to the Edge (P. Slane et al., J. Hiraga et al., CXC Image Release, 8/8/07)

- 2007 Stellar Forensics with Striking Image from Chandra (S. Park, et al., CXC Release, 10/23/07)
- 2006 J0617 in IC 443: The Case of the Neutron Star With a Wayward Wake (B. Gaensler et al., CXC Image Release, 6/1/2006).
- 2005 Tycho's Remnant Provides Shocking Evidence for Cosmic Rays (J. Warren et al., CXC Release: 05-07)
- 2004 3C58: Pulsar Power (P. Slane et al. APOD, 12/23/04))
- 2004 Going to Extremes: Pulsar Gives Insight on Ultra Dense Matter and Magnetic Fields (P. Slane et al., Chandra Release 04-13)
- 2004 Deepest Image of Exploded Star Uncovers Bipolar Jets (U. Hwang et al., NASA Release 04-09)
- 2003 Celestial Illumination: The X-Ray Glow From An Exploded Star (J. Warren et al., CXC Image Release, 12/19/03)
- 2003 Chandra Finds Rich Oxygen Supply Inside Glowing Ring (S. Park et al., CXC Press Release: 03-03)
- 2002 Cosmic X-rays Reveal Evidence For New Form Of Matter (P. Slane, J. Drake, et al., CXC Press Release: 02-65)
- 2001 Elements in the Aftermath (J. P. Hughes et al. APOD, 10/26/01)
- 2001 Young Pulsar Reveals Clues to Supernova (S. S. Murray et al., CXC Press Release: 01-13)
- 1999 Chandra Maps Vital Elements From Supernova (J. P. Hughes et al., CXC Press Release: 99-12)
- 1999 Chandra Images Provide New Vision of Cosmic Explosions (CXC Press Release: 99-05)

COLLOQUIA AND
INVITED TALKS

- 2024 "Probing Magnetic Fields in Young Supernova Remnants with IXPE," - Invited Talk, A Broadband Excursus Through Stellar Afterlife (Florence, Italy)
- 2023 "Workshop Summary: Supernova Remnants in Complex Environments," Invited Talk, Lorentz Center (Leiden, The Netherlands)
- 2023 "MeV Studies of Supernova Remnants and Pulsar Wind Nebulae," Invited Talk, International Space Science Institute (Bern, Switzerland)
- 2022 "The IXPE View on the Supernova Remnants," Invited Talk, European Astronomical Society Meeting (Valencia, Spain)
- 2021 "X-ray Polarimetry Studies of Supernova Remnants and Pulsar Wind Nebulae," Invited Talk, 43rd COSPAR Scientific Assembly (Sydney, Australia - remote)
- 2019 "The X-ray Sky in High Definition: Twenty Years of Science with the Chandra X-ray Observatory," Colloquium, Jet Propulsion Laboratory (Pasadena, CA)
- 2019 "The X-ray Sky in High Definition: Twenty Years of Science with the Chandra X-ray Observatory," Colloquium, Purdue University (West Lafayette, IN)
- 2018 "The Evolving Story of Pulsar Wind Nebulae," Colloquium, University of Texas (Austin, TX)
- 2018 "The Evolving Story of Pulsar Wind Nebulae," Invited Talk, IWARA 2018 (Ollantaytambo, Peru)
- 2018 "X-ray Astronomy in the Context of CTA," Invited Talk, 42nd COSPAR Scientific Assembly (Pasadena, CA)
- 2017 "The Supernova Remnant - Neutron Star Connection," Invited Talk, Physics of Neutron Stars - 2017, St. Petersburg, Russia
- 2017 "Energetic Windbags Young and Old: The Evolving Story of Pulsar Wind," Invited Talk, CCAP Seminar, Ohio State, Columbus, OH
- 2017 "Modeling Composite Supernova Remnants," Invited Talk, Theories of Astrophysical Big Bangs, Tokyo, Japan
- 2017 "X-ray Observations of Pulsar Wind Nebulae," Invited Talk, Cosmic Rays, Pulsars & Dark Matter, Santa Fe, NM
- 2016 "Composite Supernova Remnants," Invited Talk, Los Alamos Astrophysics Distinguished Seminar Series, Los Alamos, NM
- 2016 "Energetic Particles in Supernova Remnants: Results from VHE Observations," Invited Talk, High Energy Gamma-Rays with VERITAS and BEYOND, AAS, Kissimmee, FL

- 2015 “Supernova Remnants in High Definition,” Invited Talk, X-Ray Vision Workshop, Washington, DC
- 2015 “The Evolving Story of Pulsar Wind Nebulae,” Invited Talk, MIAPP Workshop: The Many Faces of Neutron Stars, Garching, Germany
- 2015 “Cosmic Ray Acceleration in Tycho’s Supernova Remnant,” Invited Talk, Accelerating Cosmic Ray Comprehension, Princeton University
- 2014 “A Broadband View of Composite Supernova Remnants,” Invited Talk, The Many Facets of Supernova Remnants, Rikkyo University (Tokyo, Japan)
- 2014 “The Evolving Story of Pulsar Wind Nebulae,” Invited Talk, 40th COSPAR Scientific Assembly (Moscow, Russia)
- 2014 “VHE Gamma-Rays as Probes of PWN Evolution,” Invited Talk, 2nd Workshop on Galactic Physics with VERITAS (New York, NY)
- 2014 “Supernova Remnants as Particle Accelerators,” Colloquium, US Naval Observatory (Washington, DC)
- 2014 “Energetic Windbags Young and Old: The Structure and Evolution of Pulsar Wind Nebulae,” Colloquium, University of New Hampshire
- 2014 “Twirling and Sweeping: The Busy Lives of Pulsars and Supernova Remnants,” Colloquium, Keystone College (La Plume, PA)
- 2013 “Gamma-ray Observations of Supernova Remnants,” Invited talk, 4th Fermi Asian Network Workshop (Hong Kong, HK)
- 2013 “Multiwavelength Studies of Pulsar Wind Nebulae,” Invited talk, MODE-SNR-PWN Workshop (Orsay, France)
- 2013 “Structure and Evolution of Pulsar Wind Nebulae,” Invited talk, International Space Science Institute Workshop (Bern, Switzerland)
- 2013 “Thermal X-rays from Supernova Remnants,” Invited talk, IAU Symposium 296: Supernova Environmental Impacts (Raichak, India)
- 2012 “Multiwavelength Observations of Galactic Cosmic Ray Sources,” Invited talk, CTA LINK Meeting (Buenos Aires, Argentina)
- 2012 “Multiwavelength Observations of Pulsar Wind Nebulae,” Invited talk, ‘The Cosmic Kaleidoscope: Pulsars and Their Nebulae, Supernova Remnants and More’ (Kruger National Park, South Africa)
- 2012 “Cosmic Ray Acceleration in Supernova Remnants,” Colloquium, APC, University of Paris - Diderot
- 2012 “Cosmic Ray Acceleration in Supernova Remnants,” Colloquium, University of Texas at Arlington
- 2011 “High Energy Studies of Composite Supernova Remnants,” Invited talk, AAS/HEAD Meeting, Newport, RI
- 2010 “Multiwavelength Studies of Pulsar Wind Nebulae,” Colloquium, Naval Research Laboratory, Washington, DC
- 2010 “Gamma-Rays from Pulsar Wind Nebulae,” Invited talk, 38th COSPAR Scientific Assembly, Bremen, Germany
- 2010 “High Energy Emission from Composite Supernova Remnants,” Invited talk, GeV and TeV Sources in the Milky Way, Aspen Center for Physics
- 2010 “Pulsar Wind Nebulae: A Multi-wavelength Perspective,” Invited talk, Workshop on High Energy Galactic Physics, Barnard College, Columbia University
- 2010 “Multiwavelength Studies of Pulsar Wind Nebulae,” Invited talk, ICREA Workshop on The High-Energy Emission from Pulsars and their Systems, Barcelona, Spain
- 2010 “Gamma-Ray Observations of Pulsar Wind Nebulae,” Invited talk, The GeV to TeV Connection, Ringberg, Germany
- 2010 “Multiwavelength Studies of Pulsar Wind Nebulae,” Invited talk, American Astronomical Society, Washington, DC
- 2009 “Supernova Remnants and Pulsar Wind Nebulae in the Fermi Era,” Invited talk, Fermi Symposium, Washington, DC
- 2009 “Observations of Pulsar Wind Nebulae,” Invited talk, Particle Acceleration in Astrophysical Plasmas, KITP, Santa Barbara, CA
- 2009 “Ten Years of Chandra Science,” Summer Colloquium, Harvard-Smithsonian Center for As-

trophysics

- 2009 “Observations of Pulsar Bowshock Nebulae,” Invited talk, Pulsars in Their Diversity, Elba Island, Italy
- 2009 “Compact Central Objects in Supernova Remnants,” Invited talk, Pulsars in Their Diversity, Elba Island, Italy
- 2009 “The Structure and Evolution of Pulsar Wind Nebulae,” Colloquium, University of Alabama - Huntsville
- 2009 “The Structure and Evolution of Pulsar Wind Nebulae,” Colloquium, Harvard-Smithsonian Center for Astrophysics
- 2009 “The Structure and Evolution of Pulsar Wind Nebulae,” Colloquium, Princeton University
- 2009 “Observations of Pulsar Wind Nebulae,” Invited Talk, Panda Symposium, Lijiang, China
- 2009 “Supernova Remnants and Their Environments,” Invited Tutorial, Panda Symposium, Lijiang, China
- 2008 “Observations of Pulsar Wind Nebulae,” Invited talk, COSPAR Symposium, Montreal, Canada
- 2008 “X-ray Observations of SNR Shocks,” Invited talk, COSPAR Symposium, Montreal, Canada
- 2008 “Pulsar Wind Nebulae,” Invited talk, 4th Heidelberg International Symposium on High Energy Gamma-Ray Astronomy, Heidelberg, Germany
- 2008 “Particle Acceleration in Supernova Remnant Shocks,” Invited talk, Particle Acceleration in Supernova Remnant Shocks, Penn State University
- 2007 “Exploring the Galaxy with a Bang: X-ray Studies of Supernova Remnants and Their Neutron Stars,” Colloquium, Marquette University, Milwaukee, WI
- 2007 “Recent Progress on Studies of Pulsar Wind Nebulae,” Invited talk, Astrophysics of Compact Objects, Huangshan, China
- 2007 “Supernova Remnants and GLAST,” Invited talk, GLAST Workshop, Cambridge, MA
- 2007 “VHE Gamma-Rays from Supernova Remnants,” Invited talk, The Future of Very High Energy Gamma-Ray Astronomy, Chicago, IL
- 2007 “Supernova Remnants and GLAST,” Invited talk, First GLAST Symposium, Stanford University
- 2006 “Neutron Star Cooling from Chandra Observations of 3C 58,” Invited talk, The Nuclear Equation of State in Astrophysics, Montreal, Canada
- 2006 “Structure of Pulsar Winds and Jets,” Invited talk, Challenges of Relativistic Jets, Cracow, Poland
- 2006 “Neutron Star Cooling, Demographics, and Pulsar Wind Nebulae,” Invited lecture series at Seventeenth Chris Engelbrecht Summer School in Theoretical Physics, Drakensberg, South Africa
- 2005 “A Detailed Study of the Pulsar Wind Nebula 3C 58,” Six Years of Science with Chandra Symposium
- 2004 “Compact Structures in Pulsar Wind Nebulae,” ISSI Workshop: Physics of SNRs in the Chandra, XMM-Newton and INTEGRAL Era
- 2004 “Compact Structures in Pulsar Wind Nebulae,” COSPAR Symposium, Paris, France
- 2004 “Young Neutron Stars and Their Wind Nebulae,” NATO Advanced Study Institute, Marmaris, Turkey
- 2004 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebulae,” Physics Colloquium, Rice University
- 2003 “X-Ray Observations of Crab-like and Composite Supernova Remnants,” ISSI Workshop: Physics of SNRs in the Chandra, XMM-Newton and INTEGRAL Era
- 2003 “Blasts and Embers: Probing the Products of Stellar Explosions with X-rays,” Physics Colloquium - Purdue University
- 2003 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebula,” Physics Colloquium - University of Albany
- 2003 “Chandra Studies of Supernova Remnants and Young Neutron Stars,” Plenary Talk at American Physical Society Meeting - Philadelphia, PA
- 2003 “Supernova Remnants from the Outside In,” 7th Meeting of the AAS High Energy Astrophysics Division

- 2002 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebula,” Physics Colloquium - University of Vermont
- 2002 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebula,” Physics Colloquium - Rutgers University
- 2002 “Particle Acceleration in Supernova Remnants and Pulsar Wind Nebulae,” University of Tokyo Workshop 2002: The Universe Viewed in Gamma-rays - Kashiwa, Chiba, Japan
- 2002 “Particle Acceleration in Supernova Remnants and Plerions,” XXIIInd Moriond Astrophysics Meeting: The Gamma-Ray Universe - Les Arcs, France
- 2001 “Exploring the Galaxy with a Bang: X-ray Studies of Supernova Remnants,” Physics Colloquium - University of Wisconsin - Madison
- 2001 “Exploring the Galaxy with a Bang: X-ray Studies of Supernova Remnants,” Physics Colloquium - Ohio University
- 2000 “Chandra Observations of Supernova Remnants,” Invited Talk at Meeting of AAS High Energy Astrophysics Division, Honolulu, HI
- 2000 “Guiding the Way to Gamma-Ray Sources: X-ray Studies of Supernova Remnants,” Invited Talk at Conference on “The Nature of Unidentified Galactic High-Energy Gamma-ray Sources,” Puebla, Mexico
- 2000 “Chandra/XMM Results on Shell-Type Supernova Remnants,” Invited Talk at ITP, UCSB, Conference on “Spin, Magnetism and Cooling of Young Neutron Stars”
- 2000 “Chandra Studies of Supernova Remnants and Pulsars,” Invited Talk at IAU Symposium 205, Manchester, England (August 2000)
- 2000 “Peering into the Hearts of Supernova Remnants,” Summer Colloquium - Harvard-Smithsonian Center for Astrophysics
- 1999 “Listening to the Soprano’s Song: Astrophysics with the Chandra X-ray Observatory,” Physics Colloquium - University of Wisconsin - Milwaukee
- 1999 “Pulsars Young and Old: The Story Told by Supernova Remnants,” Invited Talk at Centennial Meeting of the American Physical Society, Atlanta, GA
- 1999 “Pulsars Young and Old: The Story Told by Supernova Remnants,” Astrophysics Colloquium - Massachusetts Institute of Technology
- 1998 “X-Ray Astronomy: Exploring the Energetic Universe with AXAF,” Invited talk at meeting of the Astronomical Society of the Pacific
- 1998 “Pulsars, Plerions, and Blast Waves: Using X-Rays to Study Composite Supernova Remnants,” Colloquium at Osservatorio Astrofisico di Arcetri
- 1998 “X-ray Studies of Composite Supernova Remnants,” Colloquium - ATNF

SEMINARS AND
PUBLIC LECTURES

- 2022 “I Studied Physics at UW-Whitewater. What Happened Next?” - Physics Career Seminar, UW-Whitewater (Whitewater, WI)
- 2021 “The X-ray Sky in High Definition: High Energy Astrophysics with the Chandra X-ray Observatory” - Seminar, LSU (remote)
- 2021 “The X-ray Sky in High Definition: High Energy Astrophysics with the Chandra X-ray Observatory” - Seminar, LSU (remote)
- 2021 “X-rays from Stellar Explosions: Chandra Observations of Supernova Remnants,” - Seminar for CfA Summer Interns.
- 2021 “Probing Particle Acceleration in Tycho’s SNR with X-ray Polarization,” - Contributed talk, 43rd COSPAR Scientific Assembly (Sydney, Australia - remote)
- 2020 “The X-ray Sky in High Definition: High Energy Astrophysics with the Chandra X-ray Observatory,” - California Institute of Technology (Pasadena, CA)
- 2020 “Probing the Relics of Stellar Explosions with Chandra” - CfA (Cambridge, MA)
- 2019 “The X-ray Sky in High Definition,” Public presentation and webcast at “All Space Considered” - Griffith Observatory (Los Angeles, CA)

- 2019 “The Evolving Story of Pulsar Wind Nebulae,” Seminar - California Institute of Technology (Pasadena, CA)
- 2019 “The Evolving Story of Pulsar Wind Nebulae,” Seminar - Arcetri Astrophysical Observatory (Florence, Italy)
- 2017 “Energetic Windbags Young and Old: The Evolving Story of Pulsar Wind Nebulae,” CCAP Seminar, Ohio State University
- 2016 “Energetic Windbags Young and Old: The Evolving Story of Pulsar Wind Nebulae,” Seminar, Los Alamos National Laboratory
- 2016 “Modeling Composite Supernova Remnants,” Contributed Talk, Workshop on Modeling Nebulae, Sant Cugat, Spain
- 2016 “Energetic Windbags Young and Old: The Structure and Evolution of Pulsar Wind Nebulae,” Seminar, University of Massachusetts - Lowell
- 2015 “Because the World is Round,” University of Wisconsin - Whitewater
- 2014 “Because the World is Round,” Harlow Shapley Visiting Lecture, Bunker Hill Community College
- 2014 “Here, There, and Everywhere: Applying Physics Near and Far,” Seminar, Bunker Hill Community College
- 2014 “Here, There, and Everywhere: Applying Physics Near and Far,” Seminar, University of Wisconsin - Whitewater
- 2014 “After the Explosion: Shock Heating and Particle Acceleration in Supernova Remnants,” Seminar, University of New Hampshire
- 2014 “Because the World is Round,” Harlow Shapley Visiting Lecture, Keystone College (La Plume, PA)
- 2014 “Here, There, and Everywhere: Applying Physics Near and Far,” Seminar, Keystone College (La Plume, PA)
- 2013 “Thermal X-ray Spectra from Supernova Remnants,” Seminar, University of Wisconsin - Madison
- 2012 “Particle Accelerators in the Sky” Seminar, NYU Abu Dhabi
- 2012 “STOP for Science!” Seminar, NSTA STEM Forum, Atlantic City, NJ
- 2012 “STOP for Science!” Seminar, Wisconsin Education Innovations, Pewaukee, WI
- 2012 “Because the World is Round” Seminar, Wisconsin Education Innovations, Pewaukee, WI
- 2012 “Cosmic Ray Acceleration in Supernova Remnants,” Seminar, University of Wisconsin - Milwaukee
- 2011 “STOP for Science!” Seminar, NSTA Meeting, Seattle, WA
- 2011 “STOP for Science!” Seminar, NSTA Meeting, New Orleans, LA
- 2011 “STOP for Science!” Seminar, NSTA Meeting, Hartford, CT
- 2011 “STOP for Science!” Seminar, A.S.P Meeting, Baltimore, MD
- 2011 “Gamma Rays from SNR and PWNe,” Seminar, Fermi Summer School, Lewes, DE
- 2010 “Because The World Is Round,” Public Lecture, Keene Public Museum, Keene, NH
- 2009 “Because The World Is Round,” Public Lecture, Milwaukee Public Museum, Milwaukee, WI
- 2009 “Because The World Is Round,” Public Lecture, Sci-Quest, Huntsville, AL
- 2009 “The Structure and Evolution of Pulsar Wind Nebulae,” Seminar, KIPAC/Stanford
- 2009 “Because The World Is Round,” Public Lecture, Harvard-Smithsonian CfA
- 2007 “Particle Acceleration in Supernova Remnant Shocks,” Seminar - University of Wisconsin - Madison
- 2006 “Cosmic Ray - Not Just Some Dude from the New Wave Crystal Shoppe,” Seminar - University of Wisconsin - Whitewater
- 2005 “Einstein’s Universe and Beyond: Black Holes, Dark Matter, and Dark Energy,” Seminar - University of Wisconsin - Whitewater
- 2005 “The Explosive Death of Massive Stars,” Public Lecture at Christa McAuliffe Planetarium, Concord, NH
- 2004 “Young Neutron Stars and Their Wind Nebulae,” Seminar - Laboratory for High Energy Astrophysics, NASA/GSFC
- 2004 “The Shocking Story of Stellar Explosions: X-ray Studies of Supernova Remnants,” Seminar - Rice University

- 2002 “Exploring the Mysterious X-ray Universe,” Public Lecture at CfA Monthly Observatory Night
- 2002 “Twirling and Sweeping: The Busy Lives of Pulsars and Supernova Remnants,” Public lecture at the University of Vermont
- 2002 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebula,” Astrophysics Seminar - Tufts University
- 2002 “Spinning, Cooling, and Blowing Off Steam: Young Neutron Stars and Their Wind Nebula,” Astrophysics Seminar - Northwestern University
- 2001 “New Constraints on Neutron Star Cooling from Chandra Observations of 3C58,” Astrophysics Seminar - Institute for Advanced Study
- 2001 “Young Neutron Stars and Their Wind Nebulae,” High Energy Astrophysics Division Seminar - CfA
- 2001 Chandra X-ray Studies of Supernova Remnants - Rutgers University
- 2001 “Young Neutron Stars: Not Just Radio Pulsars Anymore...,” Astrophysics Seminar - University of Wisconsin - Madison
- 2000 “Twirling and Sweeping: The Busy Lives of Pulsars and Supernova Remnants,” Public lecture at University of Wisconsin - Whitewater Annual Physics Day Program
- 1999 “Listening to the Soprano’s Song: Astrophysics with the Chandra X-ray Observatory,” Public lecture - Physics Club of Milwaukee
- 1998 “Twirling and Sweeping: The Busy Lives of Pulsars and Supernova Remnants,” Public lecture in Harvard-Smithsonian Center for Astrophysics Monthly Observatory Night series
- 1998 “Nonthermal Emission From SNR G347.5-0.5: Another Case of Cosmic Ray Acceleration?,” Seminar - CfA (Joint CfA/MIT Pulsar and Supernova Seminar Series)
- 1997 “X-Ray Studies of Composite Supernova Remnants,” Seminar - UW - Madison
- 1997 “X-Ray Studies of Composite Supernova Remnants,” Seminar - CfA (Supernova Remnant Research Group, weekly series)
- 1996 “X-ray Astronomy: An Energetic Window to the Universe,” Wellesley University, Invited Speaker - STARCONN Convention
- 1995 “The Evolutionary State of G299.2-2.9,” Seminar - CfA (Supernova Remnant Research Group, weekly series)
- 1994 “ROSAT/ASCA Studies of W28,” Seminar - CfA (Supernova Remnant Research Group, weekly series)
- 1993 “What is X-Ray Astronomy?,” CfA - workshop for high school science teachers.
- 1989 “X-Ray Astronomy: An Energetic Window to the Universe,” University of Wisconsin - Whitewater, Invited Speaker - Annual Astronomy Day
- 1988 “VHE Gamma-Ray Astronomy: The Atmospheric Cerenkov Technique”, Milwaukee Astronomical Society Meeting, Milwaukee, WI.
- 1987 “Preliminary Results from the Haleakala gamma-ray Telescope”, Seminar - University of Hawaii, Department of Physics and Astronomy.

RESEARCH
GRANTS

- 2024 IXPE Principal Investigator, “X-ray Polarimetry of SN 1006 Southwestern Shell in an Inhomogeneous Interstellar Medium”
- 2020 Chandra Principal Investigator, “Ground-Truth PWN Spectral Images for IXPE Polarization Maps”
- 2018 Chandra Principal Investigator, “A Remnant Hits the Wall: The Structure of G349.7+0.2”
- 2015 Chandra Principal Investigator, “Modeling the Structure of Composite Supernova Remnants”
- 2014 Chandra Principal Investigator, “Changes in Latitude: A Chandra Study of G296.5+10.0”
- 2013 Chandra Principal Investigator, “Following the Temperature of a Neutron Star”
- 2012 Chandra Principal Investigator, “A Detailed Study of the Composite Supernova Remnant MSH 11-62” (Chandra Large Project)
- 2011 Herschel Principal Investigator, “Uncovering Supernova Ejecta: Herschel Spectral Mapping of G21.5-0.9”
- 2011 Chandra Principal Investigator, “Bowling to Pressure During the Reformation: A Study of the Composite SNR G327.1-1.1” (Chandra Large Project)
- 2011 Fermi Principal Investigator, “Fermi LAT Observations of supernova Remnants Interacting

- with Molecular Clouds”
- 2010 Chandra Principal Investigator, “A High Resolution Study of the Vela X Cocoon”
- 2010 Chandra Principal Investigator, “Clumpy Winds and a Bursting X-ray Source: A Chandra Study of G296.1-0.5”
- 2009 XMM Principal Investigator, “An XMM-Newton Study of the SNR G296.1–0.5”
- 2009 XMM Principal Investigator, “Crushing of Pulsar Wind Nebulae: A Detailed XMM-Newton Study of Vela X” (XMM Large Project)
- 2009 Fermi Principal Investigator, “A Fermi Study of Particle Acceleration in G347.3-0.5”
- 2008 Chandra Principal Investigator, “Rediscovering the Young Ejecta-Dominated Supernova Remnant G350.1-0.3”
- 2008 Spitzer Principal Investigator, “IRS Spectroscopy of Kes 75: Constraints on the Properties of Dust in Supernova Remnants”
- 2008 Spitzer Principal Investigator, “Probing the Spectral Breaks in 3C 58”
- 2007 Chandra Principal Investigator, “A Deep Observation of G54.1+0.3” (Chandra Large Project)
- 2007 Spitzer Principal Investigator, “IRS Spectroscopy of G54.1+0.3”
- 2006 Smithsonian Endowment Grant, “Filling the Gap in Galactic X-ray Population Studies”
- 2006 XMM Principal Investigator, “An XMM-Newton Study of the Supernova Remnant G296.1–0.5”
- 2005 Chandra EPO Principal Investigator, “Stop for Science: A Set of Science Enrichment Materials for Elementary Schools”
- 2005 Chandra Principal Investigator, “A Deep Chandra Observation of the Supernova Remnant Kes 75”
- 2004 Spitzer Principal Investigator, “Breaking Down the Spectra of Pulsar Wind Nebulae”
- 2004 Chandra Principal Investigator, “The Structure and Composition of Pulsar Winds and Their Nebulae” (Chandra Large Project)
- 2003 XMM Principal Investigator, “An XMM Study of the Composite Supernova Remnant G327.1-1.1”
- 2002 XMM Principal Investigator, “An XMM Search for Crab-Like Supernova Remnants”
- 2002 Chandra Principal Investigator, “A Detailed Study of 3C 58 - The Youngest Known Pulsar Nebula in the Galaxy” (Chandra Large Project)
- 2002 Chandra Principal Investigator, “Monitoring the Spectral Variability of the Ultraluminous X-ray Source in Holmberg IX”
- 2001 Chandra Principal Investigator, “An ACIS Study of the High Luminosity SNR G349.7+0.2”
- 2001 Chandra Principal Investigator, “An Ultraluminous Binary in a Horseshoe Nebula?”
- 2000 Chandra Principal Investigator, “Uncovering the young neutron star in G327.1-1.1”
- 2000 XMM Principal Investigator, “Probing for Pulsars: An XMM Study of the Composite SNRs G327.1-1.1 and CTA1”
- 1999 NASA LTSA Principal Investigator, “Uncovering the Properties of Young Neutron Stars and Their Surrounding Supernova Remnants”
- 1998 NASA ADP Principal Investigator, “X-ray Studies of CTA 1 and G349.7+0.2”
- 1998 Chandra Principal Investigator, “A Chandra Study of the Nonthermal X-ray Emission in G347.5-0.5”
- 1998 Chandra Principal Investigator, “A Chandra Study of Kes 73”
- 1998 Chandra Principal Investigator, “Getting to the Heart of 3C 58”
- 1998 ATCA Principal Investigator, “SNR G347.5-0.5 and the Origin of Cosmic Rays”
- 1998 ASCA Principal Investigator, “An X-ray Study of the Supernova Remnant G349.7+0.2”
- 1997 MOST Principal Investigator, “Radio observations of ASCA SNRs. I. G347.5-00.5”
- 1997 ASCA Principal Investigator, “A Study of the Shell Emission of CTA 1”
- 1997 ASCA Principal Investigator, “An X-ray Study of the SNR G347.5-0.5”
- 1996 NASA ADP Principal Investigator [2-year study], “A Study of Supernova Remnants With Center-Filled X-ray Morphology”
- 1996 ASCA Principal Investigator, “An X-ray Study of the Newly Discovered Supernova Remnant G299.2-2.9”
- 1996 ASCA Principal Investigator, “A Study of the X-Ray Spectrum And Morphology of CTA 1”
- 1995 ASCA Principal Investigator, “An X-Ray Study of G272.2-3.2 - A Newly Discovered Super-

nova Remnant”

- 1995 ASCA Principal Investigator, “An ASCA Study of the Crab-Like Supernova Remnant 3C58”
- 1995 ROSAT Principal Investigator, “A High Spatial Resolution Study of the Supernova Remnant W28”
- 1994 ASCA Principal Investigator, “An X-Ray Spectral Study of W28”
- 1994 ASCA Principal Investigator, “A Spectral Mapping of the Supernova Remnant MSH 11-61A”
- 1994 ROSAT Principal Investigator, “A Study of the X-Ray Emission from PSR 1642-03”
- 1993 ROSAT Principal Investigator, “A Study of the X-Ray Emission from PSR 0355+54”

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Refereed Publications: 270

Citations: 11245

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- 2024 Evidence for a shock-compressed magnetic field in the northwestern rim of Vela Jr. from X-ray polarimetry (Prokhorov, D.A. et al., A&A, 692, 59)
- 2024 Parkes Radio and NuSTAR X-Ray Observations of the Composite Supernova Remnant B0453-685 in the Large Magellanic Cloud (Eagle, J. et al., ApJ, 975, 247)
- 2024 Probing the polarized emission from SMC X-1: The brightest X-ray pulsar observed by IXPE (Forsblom, S.V. et al., A&A, 691, 216)
- 2024 Studying geometry of the ultraluminous X-ray pulsar Swift J0243.6+6124 using X-ray and optical polarimetry (Poutanen, J. et al., A&A, 691, 123)
- 2024 Probing Magnetic Fields in Young Supernova Remnants with IXPE (Slane, P. et al., Galaxies 12(5), 59)
- 2024 X-Ray and Multiwavelength Polarization of Mrk 501 from 2022 to 2023 (Chen, C.-T. et al., ApJ, 974, 50)
- 2024 Analysis of Crab X-Ray Polarization Using Deeper Imaging X-Ray Polarimetry Explorer Observations (Wong, J. et al., ApJ, 973, 182)
- 2024 Observations of Low and Intermediate Spectral Peak Blazars with the Imaging X-Ray Polarimetry Explorer (Marshall, H.L. et al., ApJ, 972, 74)
- 2024 X-ray polarization measurement of the gold standard of radio-quiet active galactic nuclei: NGC 1068 (Marin, F. et al., A&A, 689, 238)
- 2024 IXPE observation of PKS 2155-304 reveals the most highly polarized blazar (Kouch, P.M. et al., A&, 689, 119)
- 2024 Complex rotational dynamics of the neutron star in Hercules X-1 revealed by X-ray polarization (Heyl, J. et al., NatAs, 8, 1047)
- 2024 Cygnus X-3 revealed as a Galactic ultraluminous X-ray source by IXPE (Veledina, A. et al., NatAs, 8, 103)
- 2024 Discovery of a strong rotation of the X-ray polarization angle in the galactic burster GX 13+1 (Bobrikova, A. et al., A&A, 688, 170)
- 2024 X-ray polarization: A view deep inside cosmic ray driven turbulence and particle acceleration in supernova remnants (Bykov, A.M. et al., PhRvD, 110b, 3041)
- 2024 An IXPE-led X-Ray Spectropolarimetric Campaign on the Soft State of Cygnus X-1: X-Ray Polarimetric Evidence for Strong Gravitational Lensing (Steiner, J.F. et al., ApJ, 969, L30)
- 2024 Shockingly Bright Warm Carbon Monoxide Molecular Features in the Supernova Remnant Cassiopeia A Revealed by JWST (Rho, J. et al., ApJ, 969, L9)
- 2024 Dissecting the Crab Nebula with JWST: Pulsar Wind, Dusty Filaments, and Ni/Fe Abundance Constraints on the Explosion Mechanism (Temim, T. et al., ApJ, 968, L18)
- 2024 Tracking the X-Ray Polarization of the Black Hole Transient Swift J1727.8-1613 during a State Transition (Ingram, A. et al., ApJ, 968, 76)
- 2024 Discovery of a Shock-compressed Magnetic Field in the Northwestern Rim of the Young Supernova Remnant RX J1713.7-3946 with X-Ray Polarimetry (Ferrazzoli, R., et al., ApJ, 967, L38)
- 2024 Pulsar-wind-nebula-powered Galactic center X-ray filament G0.13-0.11. Proof of the synchrotron nature by IXPE (Churazov, E., et al., A&A, 686, A14)
- 2024 A JWST Survey of the Supernova Remnant Cassiopeia A (Milisavljevic D. et al. ApJ, 965L, 27)
- 2024 Discovery of a variable energy-dependent X-ray polarization in the accreting neutron star GX 5-1 (Fabiani S. et al. A&A, 684A.137)
- 2024 IXPE observation confirms a high spin in the accreting black hole 4U 1957+115 (Marra L. et al. A&A, 684A, 95)
- 2024 X-Ray Diagnostics of Cassiopeia A's "Green Monster": Evidence for Dense Shocked Circumstellar Plasma (Vink J. et al. ApJ, 964L, 11)
- 2024 X-Ray Polarization of the Black Hole X-Ray Binary 4U 1630-47 Challenges the Standard Thin Accretion Disk Scenario (Ratheesh A. et al. ApJ, 964, 77)

- 2024 X-Ray Polarimetry of the Dipping Accreting Neutron Star 4U 1624–49 (Saade M. et al. *ApJ*, 963, 133)
- 2024 Detection of X-Ray Polarization from the Blazar 1ES 1959+650 with the Imaging X-Ray Polarimetry Explorer (Errando M. et al. *ApJ*, 963, 5)
- 2024 The detection of polarized X-ray emission from the magnetar 1E 2259+586 (Heyl J. et al. *MNRAS*, 527, 2219)
- 2024 First Detection of Polarization in X-Rays for PSR B0540-69 and Its Nebula (Xie F. et al. *ApJ*, 962, 92)
- 2024 Updated Proper Motion of the Neutron Star in the Supernova Remnant Cassiopeia A (Holland-Ashford T. et al. *ApJ*, 962, 82)
- 2024 X-Ray Polarization of the Eastern Lobe of SS 433 (Kaaret P. et al. *ApJ*, 961L, 12)
- 2024 X-Ray Polarized View of the Accretion Geometry in the X-Ray Binary Circinus X-1 (Rankin J. et al. *ApJ*, 961L, 8)
- 2024 Highly Significant Detection of X-Ray Polarization from the Brightest Accreting Neutron Star Sco X-1 (La Monaca F. et al. *ApJ*, 960L, 11)
- 2024 First X-Ray Polarization Measurement Confirms the Low Black Hole Spin in LMC X-3 (Svoboda J. et al. *ApJ*, 960, 3)
- 2024 Magnetic field properties inside the jet of Mrk 421. Multiwavelength polarimetry, including the Imaging X-ray Polarimetry Explorer (Kim D. et al. *A&A*, 681A, 12)
- 2023 Magnetic-field structure of the Crab pulsar wind nebula revealed with IXPE (Mizuno T. et al. *PASJ*, 75, 1298)
- 2023 The first X-ray polarimetric observation of the black hole binary LMC X-1 (Podgorný J. et al. *MNRAS*, 526, 5964)
- 2023 The Swift Deep Galactic Plane Survey (DGPS) Phase I Catalog (O'Connor B. et al. *ApJS*, 269, 49)
- 2023 X-Ray Polarization of the BL Lacertae Type Blazar 1ES 0229+200 (Ehlert S. et al. *ApJ*, 959, 61)
- 2023 The X-ray polarization of the Seyfert 1 galaxy IC 4329A (Ingram A. et al. *MNRAS*, 525, 5437)
- 2023 Swift Deep Galactic Plane Survey classification of Swift J170800-402551.8 as a candidate intermediate polar cataclysmic variable (O'Connor B. et al. *MNRAS*, 525, 5015)
- 2023 The geometry of the hot corona in MCG-05-23-16 constrained by X-ray polarimetry (Tagliacozzo D. et al. *MNRAS*, 525, 4735)
- 2023 Discovery of X-Ray Polarization from the Black Hole Transient Swift J1727.8-1613 (Veledina A. et al. *ApJ*, 958L, 16)
- 2023 The First X-Ray Polarization Observation of the Black Hole X-Ray Binary 4U 1630-47 in the Steep Power-law State (Rodriguez Cavero N. et al. *ApJ*, 958L, 8)
- 2023 Identification of 1RXS J165424.6-433758 as a Polar Cataclysmic Variable (O'Connor B. et al. *ApJ*, 957, 89)
- 2023 Magnetic Structures and Turbulence in SN 1006 Revealed with Imaging X-Ray Polarimetry (Zhou P. et al. *ApJ*, 957, 55)
- 2023 The Polarized Cosmic Hand: IXPE Observations of PSR B1509-58/MSH 15-5² (Romani R. et al. *ApJ*, 957, 23)
- 2023 Discovery of X-ray polarization angle rotation in the jet from blazar Mrk 421. (Di Gesu L. et al. *NatAs*, 7.1245)
- 2023 X-ray polarimetry of the accreting pulsar GX 301-2 (Suleimanov V. et al. *A&A*, 678A.119)
- 2023 X-ray polarimetry of X-ray pulsar X Persei: another orthogonal rotator? (Mushtukov A. et al. *MNRAS*, 524, 2004)
- 2023 Estimating Ejecta Mass Ratios in Kepler's Supernova Remnant: Global X-Ray Spectral Analysis Including Suzaku Systematics and Emitting Volume Uncertainties (Holland-Ashford T. et al. *ApJ*, 955, 77)
- 2023 IXPE and XMM-Newton Observations of the Soft Gamma Repeater SGR 1806-20 (Turolla R. et al. *ApJ*, 954, 88)
- 2023 Complex variations in X-ray polarization in the X-ray pulsar LS V +44 17/RX J0440.9+4431 (Doroshenko V. et al. *A&A*, 677A, 57)
- 2023 IXPE and Multiwavelength Observations of Blazar PG 1553+113 Reveal an Orphan Optical

- Polarization Swing (Middei R. et al. *ApJ*, 953L, 28)
- 2023 First Detection of X-Ray Polarization from the Accreting Neutron Star 4U 1820-303 (Di Marco A. et al. *ApJ*, 953L, 22)
- 2023 X-ray polarimetry and spectroscopy of the neutron star low-mass X-ray binary GX 9+9: An in-depth study with IXPE and NuSTAR (Ursini F. et al. *A&A*, 676A, 20)
- 2023 X-ray polarization evidence for a 200-year-old flare of Sgr A* (Marin F. et al. *Natur.* 619, 41)
- 2023 X-ray pulsar GRO J1008-57 as an orthogonal rotator (Tsygankov S. et al. *A&A*, 675A, 48)
- 2023 Discovery of strongly variable X-ray polarization in the neutron star low-mass X-ray binary transient XTE J1701-462 (Cocchi M. et al. *A&A*, 674L, 10)
- 2023 Simultaneous space and phase resolved X-ray polarimetry of the Crab pulsar and nebula (Bucciantini N. et al. *NatAs*, 7, 602)
- 2023 X-Ray Polarization of BL Lacertae in Outburst (Peirson A. et al. *ApJ*, 948L, 25)
- 2023 IXPE Observations of the Quintessential Wind-accreting X-Ray Pulsar Vela X-1 (Forsblom S. et al. *ApJ*, 947L, 20)
- 2023 Accretion geometry of the neutron star low mass X-ray binary Cyg X-2 from X-ray polarization measurements (Farinelli R. et al. *MNRAS*, 519, 3681)
- 2023 The IXPE View of GRB 221009A (Negro M. et al. *ApJ*, 946L, 21)
- 2023 X-Ray Polarimetry Reveals the Magnetic-field Topology on Sub-parsec Scales in Tycho's Supernova Remnant (Ferrazzoli R. et al. *ApJ*, 945, 52)
- 2023 Fermi-LAT Gamma-Ray Emission Discovered from the Composite Supernova Remnant B0453-685 in the Large Magellanic Cloud (Eagle J. et al. *ApJ*, 945, 4)
- 2023 Mapping the circumnuclear regions of the Circinus galaxy with the Imaging X-ray Polarimetry Explorer (Ursini F. et al. *MNRAS*, 519, 50)
- 2023 A Strong X-Ray Polarization Signal from the Magnetar 1RXS J170849.0-400910 (Zane S. et al. *ApJ*, 944L, 27)
- 2023 Polarization Properties of the Weakly Magnetized Neutron Star X-Ray Binary GS 1826-238 in the High Soft State (Capitanio F. et al. *ApJ*, 943, 129)
- 2023 X-Ray Polarization Observations of BL Lacertae (Middei R. et al. *ApJ*, 942L, 10)
- 2023 Uncovering the Geometry of the Hot X-ray Corona in the Seyfert Galaxy NGC 4151 with IXPE (Gianolli, V. E., et al., *MNRAS*, 523, 4468)
- 2023 X-ray Pulsar GRO J1008-57 as an Orthogonal Rotator (Tsygankov, S., et al., *A&A*, 675A, 48)
- 2023 Doppler Broadening and Line-of-Sight Effects in Core-Collapse Supernovae and Young Remnants (T. Jacovich et al.) - *ApJ*, 951, 57.
- 2023 A Polarimetrically Oriented X-ray Stare at the Accreting Pulsar EXO 2030+375 (Malacaria, C., et al., *A&A*, 675A, 29)
- 2023 Simultaneous space and phase resolved X-ray polarimetry of the Crab Pulsar and Nebula (N. Bucciantini et al., 2022, *Nature Astronomy*, 7, 602)
- 2022 MeV-GeV Gamma-ray Emission from SNR G327.1-1.1 discovered by the Fermi-LAT (J. Eagle et al., 2022, *ApJ*, 940, 143)
- 2022 Vela pulsar wind nebula X-rays are polarized to near the synchrotron limit (F. Xie et al., 2022, *Nature*, 612, 658)
- 2022 A Quarter Century of Guitar Nebula/Filament Evolution (M. de Vries et al. 2022, *ApJ*, 939, 70)
- 2022 The X-ray polarimetry view of the accreting pulsar Cen X-3 (S.S. Tsygankov et al. 2022, *ApJL*, 941, 14)
- 2022 The X-ray Polarization View of Mrk 421 in an Average Flux State as Observed by the Imaging X-ray Polarimetry Explorer (L. Di Gesu et al., 2022, *ApJL*, accepted)
- 2022 Polarization Constraints on the X-ray Corona in Seyfert Galaxies: MCG-05-23-16 (A. Marinucci et al.) - *MNRAS* (accepted for publication).
- 2022 Polarized Blazar X-rays imply particle acceleration in shocks (I. Liodakis et al., 2022, *Nature*, accepted)
- 2022 The 3-D X-ray Ejecta Structure of Tycho's Supernova Remnant (M. Millard et al. 2022, *ApJ*, 937, 121)

- 2022 Limits on X-ray Polarization at the Core of Centaurus A as Observed with the Imaging X-ray Polarimetry Explorer (S. Ehlert et al.) - *ApJ*, 935, 116.
- 2022 Polarized X-rays Constrain The Disk-Jet Geometry in a Black Hole X-ray Binary (H. Krawczynski et al.) - *Science* 378, 650.
- 2022 Determination of X-ray Pulsar Geometry with IXPE Polarimetry (V. Doroshenko et al.) - *Nature Astronomy*, 6, 2433.
- 2022 X-ray polarization detection of Cassiopeia A with IXPE (J. Vink et al.) - *ApJ*, 928, 40.
- 2022 Polarized X-rays From a Magnetar (R. Taverna et al.) - *Science* 378, 645.
- 2022 The Curious Case of the "Heartworm" Nebula (W.D. Cotton et al.) - *ApJ*, 934, 78.
- 2022 SNR G292.0+1.8: A Remnant of a Low-mass Progenitor Stripped-envelope Supernova (T. Temim et al.) - *ApJ*, 932, 26.
- 2022 The Imaging X-Ray Polarimetry Explorer (IXPE): Pre-Launch (M. Weisskopf et al.) - *JATIS*, 8, 2.
- 2022 Identification of an X-ray Pulsar in the BeXRB system IGR J18219-1347 (B. O'Connor et al.) - *ApJ*, 927, 139.
- 2021 Swift/XRT Deep Galactic Plane Survey Discovery of a New Intermediate Polar Cataclysmic Variable, Swift J183920.1-045350 (N. Gorgone et al.) - *ApJ*, 923, 243.
- 2021 A Grid of Core-collapse Supernova Remnant Models. I. The Effect of Wind-driven Mass Loss (T. Jacovich et al.) - *ApJ*, 914, 41.
- 2021 PSR J1709-4429's Proper Motion and its Relationship to SNR G343.1-2.3 (M. de Vries et al.) - *ApJ*, 908, 50.
- 2020 The Nonstandard Properties of a "Standard" PWN: Unveiling the Mysteries of PWN G21.5-0.9 Using its IR and X-ray emission (S. Hattori et al.) - *ApJ*, 904, 32.
- 2020 Uncovering Magnetic Turbulence in Young Supernova Remnants with Polarized X-ray Imaging (A. Bykov et al.) - *ApJ*, 899, 142.
- 2020 Element Stratification in the Middle-Aged Type Ia Supernova Remnant G344.7-0.1 (K. Fukushima et al.) - *ApJ*, 897, 62.
- 2020 NuSTAR Detection of Quiescent Hard X-Ray Emission from SGR 0526-66 in the Large Magellanic Cloud (S. Park et al.) - *ApJ*, 894, 17.
- 2020 An Ejecta Kinematics Study of Kepler's Supernova Remnant with High-Resolution Chandra HETG Spectroscopy (M. Millard et al.) - *ApJ*, 893, 98.
- 2019 Interpreting Crab Nebula's Synchrotron Spectrum: Two Acceleration Mechanisms (M. Lyutikov et al.) - *MNRAS*, 489, 2403.
- 2019 Dust Destruction in Non-Radiative Shocks (H. Zhu et al.) - *ApJ*, 882, 135.
- 2019 Probing the Innermost Ejecta Layers in Supernova Remnant Kes 75: Implications for the Supernova Progenitor (T. Temim et al.) - *ApJ*, 878, L19.
- 2018 Chandrasekhar and Sub-Chandrasekhar Models for the X-ray Emission of Type Ia Supernova Remnants (I): Bulk Properties (Martínez-Rodríguez et al.) - *Apj*, 865, 151.
- 2018 Investigating the Structure of Vela X (P. Slane et al.) - *ApJ*, 865, 86.
- 2018 J0453-6655, the Supernova Remnant in N4D (F.D. Seward et al.) - *ApJ*, 861, 154.
- 2017 Proper Motion of the High-Velocity Pulsar in SNR MSH 15-56 (T. Temim et al.) - *ApJ*, 851, 128.
- 2017 The Asymmetric Bowshock/PWN of PSR J2124-3358 (Romani, Slane, & Green) - *ApJ*, 851, 61.
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