

Curriculum Vitae – Nathalie Degenaar

Contact Information

University of Amsterdam (UvA) – Anton Pannekoek Institute (API)
Science Park 904 (office C4.120), Amsterdam, The Netherlands
E-mail degenaar@uva.nl
Web <https://nathaliedegenaar.com>

Research Focus

The physics and impact of accretion, jets and disk winds
X-ray binaries as probes of binary evolution
Neutron stars as probes of ultra-dense matter
Multi-wavelength observations of astrophysical transients and explosions

Research Positions

2023–present	Associate professor (Universitair Hoofddocent), UvA
2020–2023	Assistant professor (Universitair Docent), UvA
2016–2021	Vidi research group leader, UvA
2014–2016	Marie Curie research fellow, University of Cambridge, UK
2011–2014	Hubble research fellow, University of Michigan, USA
2010–2011	Postdoctoral researcher, UvA

Education

2006–2010	PhD, <i>Exploring sub-luminous X-ray binaries</i> (UvA, advisor prof. R. Wijnands)
2004–2006	Master degree in Astronomy (<i>cum laude</i>), UvA

Personal Grants and Fellowships

2025	Vici grant from the Dutch research council NWO (5 years) – 1 500 000 euro
2024	Incentive grant from the Dutch national government – 110 000 euro
2023	Groot consortium grant from the Dutch research council NWO – 3 450 000 euro
2020	XS grant from the Dutch research council NWO – 50 000 euro
2015	Vidi grant from the Dutch research council NWO (5 years) – 800 000 euro
2015	College Research Fellowship from St John’s College in Cambridge, UK (5 years)
2014	Marie Skłodowska-Curie fellowship from the EC (2 years) – 280 000 euro
2011–2014	NASA observing grants Hubble, Chandra, XMM-Newton, Swift – 605 000 euro
2011	Hubble fellowship from NASA (3 years) – 340 000 euro

Main Scientific Networks

2025–present	Science lead of the international TORCH collaboration
2024–present	Athena X-ray Integral Field Unit (X-IFU) consortium
2023–present	African Millimeter Telescope (AMT) consortium
2021–present	Extremely Large Telescope (ELT) MOSAIC consortium
2017–present	International partner Joint Institute for Nuclear Astrophysics (JINA)
2009–present	Science lead of the Swift Galactic center X-ray monitoring team of the Swift satellite

Management Responsibilities

2025–present	Board of the Jan van Paradijs trust fund
2025–present	Head of Astronomy education (UvA/API)
2025–present	National astronomy education committee (LOCNOC)
2024–2025	Chair advisory committee institute director (API)
2023–2024	Chair hiring committee tenure-track position (API)
2023–2025	PhD monitoring committee (API)
2022–2023	Writing & managing team Strategic Evaluation Protocol (API)
2021–present	Development & implementation Social Safety Program (API)
2021–present	Management Team API
2021–2024	Curriculum committee BSc Science Technology & Innovation (UvA)
2020–2024	Deputy chair national science network Extreme Astrophysics (NOVA-NW3)
2020–2022	Exam committee Physics & Astronomy (UvA)
2017–2022	Board of the European neutron-star network PHAROS

Overview of Research Output

Publication Record – Summary

First author refereed publications	37 (including 10 Letters, 4 reviews)
First author non-refereed publications	113
Co-author refereed publications	165 (including 34 Letters, 5 reviews)
Co-author non-refereed publications	208 (including 9 white papers)

Talk Record – Summary

Invited talks international conferences	40
Colloquia and seminars	31
Contributed talks conferences	22

Telescope Time Acquisition Record – Summary

PI accepted observing proposals	>200
Co-I accepted observing proposals	>200
Facilities used as PI	<i>X-ray:</i> XRISM, Einstein Probe, Chandra, XMM-Newton, NuSTAR, Swift, RXTE, NICER, INTEGRAL, <i>UV/optical/nIR:</i> HST, VLT, NTT, SMARTS, INT, Gemini, Magellan, JWST, <i>Radio:</i> VLA, ATCA

Organization of Scientific Meetings – Summary

SOC/LOC co-chair	<i>From discovery to a population, benchmarking stripped stars and companions</i> (2024) Lorentz Center Leiden, July. International focus workshop, 50 participants
SOC/LOC chair	<i>Annual Netherlands Astronomy Conference</i> (2024) Egmond aan Zee, May. National conference, 260 participants
SOC/LOC co-chair	<i>100 years of astronomy research at the Anton Pannekoek Institute</i> (2022) Held in Amsterdam, June. International conference, 75 participants
SOC chair, LOC	<i>From winds to jets, the role of outflows in X-ray binaries</i> (2019) Held in Amsterdam, July. International focus workshop, 65 participants
SOC chair, LOC	<i>ICONS: Investigating the Crust of Neutron Stars</i> (2019) Held in Amsterdam, April. International focus workshop, 50 participants
SOC, LOC, treasurer	<i>A decade of accreting millisecond X-ray pulsars</i> (2008) Held in Amsterdam, April. International focus workshop, 60 participants
SOC (32)	<i>A total of 32 other</i> international conferences and workshops, see CV Appendix Since 2009, various countries, 50–250 participants each
LOC (3)	<i>A total of 3 other</i> international conferences, see CV Appendix Held in 2009, 2011, 2022 in the Netherlands, 200 participants each

Editorial and Commissions of Trust

Science review boards	Chair, Center for Astrophysics and Space Science, NYU Abu Dhabi (2025–present) RU eROSITA View of Stellar Endpoints, German Research Foundation DFG (2023)
Funding panels	Center of Excellence program, Research Council Academy of Finland (2025) Vidi grant scheme, Dutch Research Council NWO (2024) Open Competition XS grant scheme, Dutch Research Council NWO (2020, 2023) Academy Research Fellowships, Research Council Academy of Finland (2021) NASA Hubble Fellowship Program (2018) NASA Earth Space and Science Fellowship NESSF (2013)
Instrument definition	NewAthena X-ray Integral Field Unit science advisory team XSAT (2024–present) Transient science African Millimeter Telescope (2023–present) Athena Wide Field Camera team DARWISH (2021–2022) Time-domain astronomy with the Chandra X-ray satellite (2021)
Time allocation	XMM-Newton (<i>chair</i> , 2022+23), ESO (2020+21), INTEGRAL (2019+20), ING (2017+18), AstroSAT (2017+18), Chandra (<i>chair</i> 2018; 2014, 2025), Gemini (2013)
Journal referee	Nature, Science, Nature Astronomy, Astrophysical Journal, New Astronomy Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics
Co-editor	<i>A decade of accreting millisecond X-ray pulsars</i> , AIP conf. proceedings 1068 (2008)

Editorial and Commissions of Trust – Continued

PhD committees (40) UvA (NL), UNAM (Mexico), U. of Palermo (Italy), KU Leuven (Belgium), U. of Potsdam (Germany), U. of Trondheim (Norway), CEA Paris-Saclay (France)

Press and science communication – Recent examples

Press releases	ESA: <i>Nuclear explosions on a neutron star feed its jets</i> (2024) ESO: <i>Astronomers discover micrometeoroids, a new kind of stellar explosion</i> (2022) NOVA: <i>Black hole in the centre of the Milky Way unpredictable</i> (2022)
Media coverage	<i>Dutch involvement in building new space mission</i> (Netherlands Space Office, 2025) <i>Jet ejects from neutron star at one-third the speed of light</i> (New Scientist, 2024) <i>Cosmic fire works from a neutron star</i> (Universe Today, 2023) <i>Astronomers discover a new type of stellar explosion</i> (Kijk, 2022) <i>Our supermassive black hole is unpredictable</i> (New Scientist, 2022) <i>A powerful warm wind blown by a cosmic cookie monster</i> (NY Post, 2022)
Popular articles	National Geographic: <i>Kosmische lijkschouwer</i> (2025) Zenit: <i>Astrophysical jets</i> (2024) Zenit: <i>Matter ejection of black holes and neutron stars</i> (2022) Zenit: <i>The rumble of our supermassive black hole</i> (2022)
Science podcasts	VPRO/Nooit Meer Slapen: <i>Love in and for the universe</i> (2026) UvA/Net Echt: <i>The science behind Interstellar</i> (2024) NRC/Cosmos of Pannekoek: <i>Astronomer without a telescope</i> (2022) BNN/Bijvangst: <i>The astronomers, the ninja and the unreachable telescope</i> (2021)
Interviews	NPO 1, Nooit Meer Slapen: <i>About life as an astronomer</i> (2026) Radio 1, Vroeg: <i>On the scientific accuracy of movies</i> (2024) Volkskrant newspaper <i>On the discovery of a new type of explosion</i> (2022) Parool newspaper <i>On 30 years of science with the Hubble Space Telescope</i> (2022)
Public lectures	Lustrum Association for Meteorology and Astronomy (KNVWS): <i>Black holes and neutron stars as cosmic powerhouses</i> (2026) Lustrum Association for Science Journalism (VWN): <i>Embracing serendipity</i> (2025) Opening academic year University of Amsterdam: <i>Mysteries of black holes</i> (2024) Fabrique du Lumières, Destination Cosmos: <i>The infinite universe</i> (2023) Concerts & lectures: <i>Sounds of Interstellar Space jazz combo TRIFID</i> (2019–2020)
High schools	Meet the professor: <i>Escaping gravity</i> , 35 participants, Amsterdam (2025, 2026) Viva Fysica: <i>The big black hole in our Milky Way</i> , 150 participants, national (2021)

Overview of Supervision and Teaching

Advisory of Postdoc Projects (6)

2026–present	Dr. A. Gurpide Lasheras, UvA, independent Marie Curie fellow
2025–present	Dr. E. Patti, UvA, funded by my Vici grant
2025–present	Dr. J. Speichler, UvA, funded by my Vici grant
2018–2020	Dr. T. Russell, UvA, independent Veni fellow
2019–2020	Dr. A. Parikh, UvA, funded by my Vidi grant
2016–2019	Dr. J. Hernández Santisteban, UvA, funded by my Vidi grant

Advisory of PhD Projects (11)

2026–present	Mr. S. van de Vosse, University of Amsterdam. Primary advisor, funded on Vici grant
2025–present	Ms. S. Peluso, UvA/ESO. Promotor and co-advisor, funded through ESO collaboration
2025–present	Mr. C. Wei, UvA. Primary advisor, funded by my Vici grant
2023–present	Ms. E. Caruso, UvA/SRON. Primary advisor, funded through SRON collaboration
2022–2026	Mr. M. Snelders, UvA/ASTRON. Co-promotor, promotor J. Hessels
2021–2025	Ms. S. Fijma, UvA. Primary advisor, funded on API start-up grant
2020–2024	Dr. D. Hewitt, UvA. Co-promotor, promotor J. Hessels
2016–2020	Dr. J. van den Eijnden, UvA. Primary advisor, funded by my Vidi grant
2015–2019	Dr. A. Parikh, UvA. Co-promotor, promotor R. Wijnands
2015–2019	Dr. A. Rouco Escorial, UvA. Co-promotor, promotor R. Wijnands
2009–2013	Dr. M. Armas Padilla, UvA. Co-advisor, promotor R. Wijnands

Supervision of Master and Undergraduate Projects

2017–present 33 (post-)MSc projects, 21 undergraduate projects, see CV Appendix

Lecturing and teaching qualifications

2024–present Lecturer *Astronomy I*, BSc yr-1 (190 students, UvA)
2022–2025 Lecturer *Proposal writing*, MSc (20 students, UvA)
2020 Co-lecturer *Structure & Evolution of Stars*, MSc (20 students, UvA)
2019–2023 Lecturer *Astrophysics*, BSc yr-2 (75 students, UvA)
Teaching degrees BKO (2020) and SKO (2026)

Full List of Invited talks at International Conferences

- 2026 September: The many tones of accretion. Cefalù, Italy
Invited talk: *States and transitions in X-ray binaries*
- August: Cospar scientific assembly session E.1.18. Florence, Italy
Invited talk: *Revolutionising studies of compact objects with NewAthena*
- August: Cospar scientific assembly session E.1.3. Florence, Italy
Invited talk: *Neutron star low-mass X-ray binaries: a comprehensive view*
- 2024 October: INTEGRAL 22 years: catching results and discoveries. Madrid, Spain
Invited talk: *Thermonuclear bursts on neutron stars reveal the speed of their jets*
- July: From discovery to a population: benchmarking stripped stars and companions. Leiden, Netherlands
Invited review: *The connection between stripped stars and X-ray binaries*
- July: Cospar scientific assembly session E.1.17. Busan, South Korea
Invited review: *Observational review of the cooling of accretion-heated neutron stars*
- July: Cospar scientific assembly session E1.19. Busan, South Korea
Invited talk: *Thermonuclear bursts on neutron stars reveal the speed of their jets*
- 2023 June: The renaissance of black hole detection. Leiden, Netherlands
Invited review: *Black holes in accreting binaries*
- May: Microquasar workshop. Heraklion (Crete), Greece
Invited review: *Spectral evolution of microquasars during outburst: what are the issues?*
- 2022 October: Two decades of high-energy astronomy with INTEGRAL. Darmstadt, Germany
Invited review: *Studying X-ray binaries with future X-ray missions*
- August: Black hole accretion workshop. Charleston (South Carolina), USA
Invited talk: *Jets from accreting neutron stars*
- 2021 October: Swift senior review strategy workshop. Online
Invited review: *Galactic X-ray transients*
- September: Micro-quasar workshop. Cagliari (Sardinia), Italy
Invited review: *The physics of accretion and ejection*
- 2020 October: Chandra frontiers of time domain science. Online.
Invited review: *Accretion and outflows in neutron star low-mass X-ray binaries*
- June: EAS 2020, XMM-Newton: Current scientific highlights and future prospects. Online.
Invited review: *Low-mass X-ray binaries and transitional millisecond pulsars*
- 2019 December: Texas 2019, Relativity at work: discs, jets and magnetic fields. Portsmouth, UK
Review: *The neutron star jet and magnetic field paradigm*
- June: Connecting thermonuclear burst research to a wider community. Leiden, NL
Invited review: *Observational signatures of X-ray bursts affecting accretion in X-ray binaries*
- 2018 August: Chandra workshop, Accretion in stellar systems. Boston, USA
Invited review: *Outflows from X-ray binaries*
- 2017 June: EWASS symposium. Prague, Czech republic
Invited review: *Crust heating and cooling of transiently accreting neutron stars*
- February 2017: Nuclear reactions in superdense matter – Laboratory to stars. Bern, Switzerland
Invited talk: *Crust constraints from observing neutron star low-mass X-ray binaries in quiescence*
- January: The disk-magnetosphere interaction for transitional pulsars. Bern, Switzerland
Invited talk: *Low-level accretion in neutron star low-mass X-ray binaries*

- 2016 October: Gamma-ray astrophysics in multi-wavelength perspective. Amsterdam, NL
Invited review: *Low-level accretion in neutron star LMXBs*
 May: Stellar remnants at the junction. Junction, Texas, USA
Invited review: *Compact objects accreting at low mass-accretion rates*
 January: Transient thinkshop 2016. Bormio, Italy
Invited review: *The X-ray view of Galactic X-ray binaries*
- 2015 August: The zoo of accreting compact objects workshop. Leiden, NL
Invited review: *The quiescent properties of neutron star low-mass X-ray binaries*
 July: Paving the way to simultaneous multi-wavelength astronomy. Leiden, NL
Invited talk: *Multi-wavelength observations and modeling of Sgr A**
 June: 40 years of X-ray bursts. Madrid, Spain
Invited talk: *The delicate connection between X-ray bursts and the accretion flow*
 May: Coronae in the flashlight. Beijing, China
Invited talk: *NuSTAR observations of the changing accretion morphology during X-ray bursts*
- 2014 December: Probing deep inside the neutron star crust. Bern, Switzerland
Invited talk: *New observational results in neutron star crust cooling*
 December: Swift mission conference, celebrating ten years. Rome, Italy
Invited talk: *A Swift legacy: The X-ray monitoring campaign of the Galactic center*
 January: American Astronomical Society's winter meeting. Washington DC, USA
Invited talk: *News from the Galactic center: daily X-ray monitoring observations with Swift*
- 2013 December: European Space Research and Technology Center (ESTEC). Noordwijk, NL
Invited talk: *Slowly accreting neutron stars and black holes*
 October: Swift mission conference. State College, USA
Invited talk: *A Swift legacy: The X-ray monitoring campaign of the Galactic center*
 September: Probing deep inside the neutron star crust. Bern, Switzerland
Invited talk: *An update on the crust cooling curves of EXO 0748–676 and Terzan 5 X-2*
 September: Probing deep inside the neutron star crust. Bern, Switzerland
Invited talk: *Evidence of crust cooling in short-outburst transients?*
 March: Annual Hubble fellowship symposium. STScI, Baltimore, USA
Invited talk: *Feeding the supermassive black hole in the center of the Milky Way Galaxy*
- 2012 October: Nuclear astrophysics town meeting. Detroit, USA
Invited talk: *Heating and cooling of transiently accreting neutron stars*
- 2011 March: Mapping neutron stars with Type-I X-ray bursts. Bern, Switzerland
Invited talk: *Long thermonuclear bursts from hydrogen accretors*
- 2010 July: X-ray bursts and burst oscillations. Leiden, NL
Invited talk: *X-ray bursters accreting at low luminosities*
- 2009 May: Defining the neutron star crust. Santa Fe, USA
Invited talk: *Crustal cooling of EXO 0748–676 and XTE J1701–462*

Full List of Colloquia and Seminars

- 2026 June: Astronomy department of Radboud University. Nijmegen, NL
Colloquium: *New frontiers in jet research*
 February: NewAthena X-ray advances science webinars. Online
Webinar: *Binary outflows and their impact with next-gen X-ray vision*
- 2025 January: Kapteyn Institute, University of Groningen. Groningen, NL
Colloquium: *An out-of-the-box approach to study the jets that shape our universe*
- 2022 October: Anton Pannekoek Institute, University of Amsterdam. Amsterdam, NL
Colloquium: *Crazy Jet Experiment*

- 2020 February: Instituto de Astrofísica de Canarias (IAC). Santa Cruz (Tenerife), Spain
Seminar: *The notorious LB-1*
- 2019 June: L’Institut de Recherche en Astrophysique et Plantologie (IRAP). Toulouse, France
Colloquium: *The important role of outflows in X-ray binaries*
- February: European Space Astronomy Center (ESAC). Madrid, Spain
Colloquium: *Radio jets launched by strongly magnetic neutron stars*
- January: Netherlands Institute for Space Research (SRON). Utrecht, NL
Colloquium: *The important role of outflows in X-ray binaries*
- 2018 October: University of Amsterdam. Amsterdam, NL
Colloquium: *The launching, mass loss and power of X-ray binary outflows*
- April: New York University Abu Dhabi. Abu Dhabi, United Arab Emirates
Colloquium: *Probing dense matter physics with neutron stars*
- 2017 January: Dutch astronomers member’s council meeting. Amsterdam, NL
Colloquium: *The appetite of a neutron star*
- 2016 October: IoA seminar. University of Cambridge, Cambridge, UK
Seminar: *Probing the physics of neutron stars with X-ray observations*
- July: X-ray group seminar. University of Cambridge, Cambridge, UK
Seminar: *An in-depth study of a neutron star accreting at low Eddington rate*
- April: X-ray group seminar. University of Cambridge, Cambridge, UK
Seminar: *Disk reflection and a possible disk wind during the soft state of 1RXS J180408.9–342058*
- 2015 November: Gravity seminar. University of Southampton. Southampton, UK
Seminar: *Probing fundamental physics with accreting neutron stars*
- November: X-ray group seminar. University of Cambridge, Cambridge, UK
Seminar: *NuSTAR observations of neutron star low-mass X-ray binaries*
- October: Sabancı University. Istanbul, Turkey
Seminar: *Crust cooling of neutron stars as a probe of fundamental physics*
- July: X-ray group seminar. University of Cambridge, Cambridge, UK
Seminar: *Probing accretion flows with thermonuclear X-ray bursts*
- February: IoA seminar. University of Cambridge, Cambridge, UK
Seminar: *Monitoring the supermassive black hole in the Milky Way Galaxy*
- 2014 October: High-energy astrophysics seminar. University of Michigan, Ann Arbor, USA
Seminar: *Low-level accretion flows in X-ray binaries*
- October: Physics seminar. University of Michigan, Ann Arbor, USA
Seminar: *Neutron stars as probes of fundamental physics*
- April: X-ray group seminar. University of Cambridge, Cambridge, UK
Seminar: *Peeking into the crust of neutron stars*
- March: Astrophysics seminar. University of Southampton, Southampton, UK
Seminar: *Probing fundamental physics with transiently accreting neutron stars*
- January: Max Planck institut für Extraterrestrische physik, Garching, Germany
Colloquium: *Probing fundamental physics with transiently accreting neutron stars*
- 2013 March: Annual Hubble fellowship symposium. STScI, Baltimore, USA
Seminar: *Feeding the supermassive black hole in the center of the Milky Way Galaxy*
- 2012 September: Astrophysics colloquium. Michigan State University, East Lansing, USA
Colloquium: *Probing fundamental physics with transiently accreting neutron stars*
- April: Astrophysics seminar. University of Michigan, Ann Arbor, USA
Seminar: *Probing fundamental physics with transiently accreting neutron stars*
- March: Annual Hubble fellowship symposium. STScI, Baltimore, USA
Seminar: *Probing fundamental physics with transiently accreting neutron stars*

- February: Astrophysics seminar. University of Wisconsin, Milwaukee, USA
Seminar: *Probing fundamental physics with transiently accreting neutron stars*
- 2009 November: Astrophysics colloquium. University of Leicester, UK
Colloquium: *Crust cooling of accretion heated neutron stars*

Full List of Contributed Conference Talks

- 2026 August: Cospar scientific assembly session E.1.10. Florence, Italy
Talk: *How thermonuclear bombs can reveal jet (and wind) physics*
- 2025 September: A Microquasar Odyssey: Unveiling the Complexities. Cefalù, Italy
Talk: *Out with a bang: Simulating the impact of thermonuclear explosions on accretion disks and jets*
- March: Celebrating 20 years of Swift Discoveries. Florence, Italy
Talk: *Completing 20 years of X-ray monitoring of the Galactic Center: A Swift legacy*
- 2019 December: Texas 2019, Relativity at work: neutron stars. Portsmouth, UK
Talk: *Probing the interior of transiently accreting neutron stars*
- 2014 August: The 40th COSPAR Scientific Assembly. Moscow, Russia
Talk: *An accretion disk swept up by a powerful thermonuclear X-ray burst*
- August: The 40th COSPAR Scientific Assembly. Moscow, Russia
Talk: *The Swift Monitoring Campaign of the Galactic center*
- March: Structure and Signal of Neutron Stars, from Birth to Death. Florence, Italy
Talk: *Probing the crusts of transiently accreting neutron stars*
- 2013 November: JSI 2013 workshop, Putting Accretion Theory to the Test. Annapolis, USA
Talk: *Swift J1910.2–0546: A new perspective on accretion flows*
- September: Chandra XVP meeting 2013. Santa Fe, USA
Talk: *Update on the Swift monitoring campaign of the Galactic Center*
- April: High Energy Astrophysics Division (HEAD) 2013. Monterey, USA
Talk: *The Swift monitoring campaign of Sagittarius A**
- March: Compact Objects in Michigan. Wayne State University, Detroit, USA
Talk: *The Swift monitoring campaign of Sagittarius A**
- 2012 August: 28th IAU General Assembly, Beijing, China
Talk: *A new breakthrough in understanding the crusts of neutron stars*
- August: 28th IAU General Assembly, Beijing, China
Talk: *Seven years of nearly-daily observations of Sgr A* with Swift*
- July: X-ray Binaries, Celebrating 50 years since the Discovery of Sco X-1. Boston, USA
Talk: *Probing Fundamental Physics with Transiently Accreting Neutron Stars*
- June: CompStar 2012, The physics of compact stars. Tahiti, French Polynesia
Talk: *A new breakthrough in understanding the crusts of neutron stars*
- 2011 October: Swift mission conference. Clemson, USA
Talk: *Rare thermonuclear X-ray bursts caught by Swift*
- September: High Energy Astrophysics Division (HEAD) 2011. Newport (RI), USA
Talk: *Probing fundamental physics with transiently accreting neutron stars*
- July: International conference Physics of Neutron Stars 2011. St. Petersburg, Russia
Talk: *Transiently accreting neutron stars: peeking into their crusts*
- 2010 March: High Energy Astrophysics Division (HEAD) 2010. Hawaii Big Island, USA
Talk: *Very-faint X-ray binaries*
- 2009 November: Swift mission conference: Celebrating five years. Penn State, USA
Talk: *Swift as a key tool to study sub-luminous X-ray transients*
- June: NOVA Network III Science Meeting. Amsterdam, NL
Talk: *Crust cooling of accretion heated neutron stars*

2008 July: The 37th COSPAR Scientific Assembly. Montreal, Canada
Talk: *Sub-luminous X-ray transients near the Galactic center*

Full List of Conference Organization

- 2026 August: **SOC** *Chandra's dynamic universe*. Cambridge, USA
 August: **SOC** *Origin and dynamics of outflows near compact objects*. Florence, Italy
 August: **SOC** *Timing low-mass X-ray binaries across the electromagnetic spectrum*. Florence, Italy
- 2025 March: **SOC** *Celebrating 20 years of Swift discoveries*. Florence, Italy
- 2024 July: **SOC/LOC co-chair** *Benchmarking stripped stars and companions*. Leiden, Netherlands
 July: **SOC** *Multi-wavelength fast variability across mass scales*. Busan, South Korea
 July: **SOC** *Exploring the link between X-ray binaries and Radio millisecond pulsars*. Padova, Italy
 June: **SOC** *The X-ray Mysteries of Neutron Stars and White Dwarfs*. Madrid, Spain
 May: **SOC/LOC co-chair** *Dutch Astronomer's Conference*. Egmond aan Zee, Netherlands
- 2023 July: **SOC** *From dormant to ultra-luminous compact objects in X-ray binaries*. Kraków, Poland
 June: **SOC** *The first Vasto accretion meeting*. Vasto, Italy
- 2022 June: **SOC chair** *Celebrating 100 years of astronomy research at the API*. Amsterdam, Netherlands
 May: **SOC** *The multi-messenger physics and astrophysics of neutron stars*. Rome, Italy
- 2021 May: **SOC** *Nederlandse Astronomen Conferentie*. Online
- 2020 August: **SOC** *Accretion on All Scales*. Sydney, Australia
 August: **SOC** *Accretion and Ejection in Galactic Compact Objects*. Sydney, Australia
- 2019 October: **SOC** *New Horizons in Galactic Center Astronomy and Beyond*. Yokohama, Japan
 July: **SOC chair and LOC** *The Role of Outflows in X-ray Binaries*. Amsterdam, Netherlands
 May: **SOC chair and LOC** *Delving into the neutron star crust*. Amsterdam, Netherlands
- 2018 October: **SOC** *Time-Domain Astrophysics with Swift*. Clemson, USA
 June: **SOC** *Bursts and nuclei*. Prato, Italy
- 2017 October: **SOC** *Fermi 2017*. Garmisch-Partenkirchen, Germany
 September: **SOC** *La Gomera Accretion Week*. La Gomera, Spain
 June: **SOC** *The X-ray Universe 2017*. Rome, Italy
 June: **SOC** *Exploring Neutron Star Structure by Timing and Spectroscopy*. Prague, Czech republic
 February: **SOC** *The New Era of X-ray Astronomy*. London, UK
- 2016 August: **SOC** *Chandra Science for the Next Decade*. Boston, USA
 August: **SOC** *Universal Accretion*. Aspen, USA
 May: **SOC** *Stellar remnants*. Junction, USA
 August: **SOC** *Accretion in neutron star and black hole X-ray binaries*. Istanbul, Turkey
 August: **SOC** *Crust cooling in accreting neutron stars and magnetars*. Istanbul, Turkey
- 2015 June: **SOC** *40 years of X-ray bursts*. Madrid, Spain
- 2011 September: **LOC** *First LOFT Science Meeting*. Amsterdam, NL
- 2009 May: **LOC** *Nederlandse Astronomen Conferentie*. Kerkrade, NL
- 2008 April: **SOC and LOC treasurer** *A decade of accreting millisecond X-ray pulsars*. Amsterdam, NL

Full List of Observing Grants

- 2015 **Chandra**, *Probing the physics of neutron stars using Terzan 5*, USD 27 000
Swift, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 40 000
- 2014 **HST**, *The nature of the transient X-ray binary Swift J1910.2–0546*, USD 50 000
HST, *The evolutionary link between LMXBs and radio millisecond pulsars*, USD 50 000
Swift, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 40 000
Chandra, *The nature of the transient X-ray binary Swift J1910.2–0546*, USD 37 000
- 2013 **HST**, *The evolution and accretion morphology of Swift J1357.2–0933*, USD 51 000
Swift, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 37 000
Swift, *Crust cooling of accretion-heated neutron stars*, USD 36 000
Chandra, *Observing a cooling neutron star crust in Terzan 5*, USD 57 000
XMM-Newton, *The peculiar X-ray burster SAX J2224.9+5421*, USD 59 000
- 2012 **HST**, *The X-ray and UV spectra of EXO 0748–676*, USD 49 000
Chandra, *The X-ray and UV spectra of EXO 0748–676*, USD 38 000
Chandra, *A snapshot survey of Galactic Be/X-ray transients in quiescence*, USD 41 000
Chandra, *Observations of a cooling neutron star crust in Terzan 5*, USD 49 000
- 2011 **Chandra**, *Quiescent monitoring of the 11 Hz X-ray pulsar in Terzan 5*, USD 46 000

Full List of Accepted Observing Proposals as Principal Investigator

Radio PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
Breaking new grounds in understanding relativistic jets	VLA 2026	9 hours
A young stripped star in the intriguing binary LB-1?	VLA 2020B	2 hours
Swift/VLA monitoring of a giant Be/X-ray binary outburst	VLA 2019AB	6 hours
Jet outflows from a magnetic propeller	VLA 2017B	5 hours
The accretion flow properties of sub-luminous X-ray binaries	VLA 2017A	10 hours
X-ray/radio correlation for neutron star X-ray binaries	VLA 2014A	38 hours
X-ray/radio correlation for neutron star X-ray binaries	VLA 2013A	9 hours
The accretion-jet connection for neutron stars	ATCA 2017B	84 hours
DDT to search for the radio counterpart of GRO J1744–28	ATCA 2017A	8 hours
The accretion-outflow connection for neutron stars	ATCA 2016A	12 hours

Optical/near-infrared PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
Breaking new grounds in understanding relativistic jets	JWST 2026	12 hours
An accretion disk wind across the electromagnetic spectrum	VLT 2022A	3 hours
Mapping accretion disk winds across the electromagnetic spectrum	VLT 2020A	4 hours
Feedback from low-mass X-ray binaries into the ISM	VLT 2019A	3 hours
Unravelling unusual accreting neutron stars and black holes	VLT 2018A	3 hours
Unravelling unusual accreting neutron stars and black holes	VLT 2017A	3 hours
DDT for a rare chance to identify an unusual black hole system	NTT 2019B	4.5 hours
Feedback from low-mass X-ray binaries into the ISM	INT 2018B	7 nights
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2014B	1 night
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2014A	1 night
Infrared spectroscopy of sub-luminous neutron star X-ray binaries	Magellan 2014A	3 nights
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2013B	4 nights
Infrared imaging of sub-luminous neutron star X-ray binaries	Magellan 2013A	3 nights
Optical spectroscopy of MAXI J1305–704 and Cen X-4	Magellan 2012A	1 nights
Sub-luminous X-ray binaries TOO	SMARTS 2009B	0.4 nights

Ultraviolet PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
An accretion disk wind across the electromagnetic spectrum	HST cycle 29	6 orbits
DDT for UV spectroscopy of a short-period black hole in outburst	HST cycle 24	4 orbits
A radio millisecond pulsar in a low-mass X-ray binary?	HST cycle 24	4 orbits
The nature of the transient black hole candidate Swift J1910.2–0546	HST cycle 22	2 orbits
The evolutionary link between LMXBs and MSRPs	HST cycle 22	6 orbits
Evolution and accretion morphology of short-period black hole	HST cycle 21	9 orbits
The quiescent UV spectrum of the neutron star EXO 0748–676	HST cycle 20	9 orbits

X-ray PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
A magnetically-driven wind from an accreting millisecond pulsar?	XRISM AO1	100 ks
Measuring jet properties with thermonuclear bursts	Einstein Probe DDT	50 ks
Measuring jet properties with thermonuclear bursts	INTEGRAL DDT	90 ks
An unexplored regime of neutron star heating and cooling	Chandra AO22	500 ks
An unexplored regime of neutron star heating and cooling	Chandra AO20	90 ks
DDT on outflows from a nearby super-Eddington accretor	Chandra AO19	25 ks
The very cold neutron star in HETE J1900.1–2455	Chandra AO19	55 ks
New progress in understanding the crusts of neutron stars	Chandra AO18	60 ks
DDT on the very cold neutron star in HETE J1900.1–2455	Chandra AO17	30 ks
Probing physics of neutron stars using Terzan 5	Chandra AO17	135 ks
DDT on the accretion disk wind in 1RXS J180408.9–342058	Chandra AO16	30 ks
The nature of the transient X-ray binary Swift J1910.2–0546	Chandra AO16	45 ks
A cooling neutron star crust in Terzan 5	Chandra AO15	105 ks
Neutron star X-ray binary EXO 0748–676 in quiescence	Chandra AO15	45 ks
A cooling neutron star crust in Terzan 5	Chandra AO14	135 ks
Quiescent monitoring 11-Hz X-ray pulsar in Terzan 5	Chandra AO13	100 ks
DDT to detect a cooling neutron star crust in Terzan 5	Chandra AO12	40 ks
Neutron star crust cooling EXO 0748–676	Chandra AO11–AO12	40 ks
Neutron star crust cooling TOO on HETE J1900.1–2455	Chandra AO11–AO12	90 ks
Crust cooling TOO HETE J1900.1–2455 + Swift J1626.6–5156	Chandra AO9–AO10	120 ks
DDT to localize XMMUJ174716.1–281048	Chandra AO8	1 ks
Measuring the physical jet properties of the Clocked burster	NuSTAR DDT	24 ks
Linking jet suppression to accretion geometry	NuSTAR AO4	60 ks
Testing disk truncation for accreting neutron stars	NuSTAR AO4	60 ks
DDT on jet suppression and accretion geometry	NuSTAR AO3	20 ks
DDT on the “moding” of the transitional pulsar PSR J1023+0038	NuSTAR AO3	25 ks
An accretion disk wind at low Eddington rate?	NuSTAR AO2	75 ks
DDT to search for disk reflection in 4U 1608–52	NuSTAR AO1	40 ks
How neutron stars accrete at low Eddington rates	NuSTAR AO1	75 ks
DDT to search for disk reflection in MXB 1659–28	NuSTAR AO1	50 ks
DDT observations of various transient X-ray binaries, 78 in total	Swift AO6–AO21	377 ks
The nature and accretion flow of sub-luminous X-ray binaries	Swift AO19–AO21	150 ks
Swift/VLA monitoring of a giant Be/X-ray binary outburst	Swift AO15	20 ks
Testing disk truncation for accreting neutron stars	Swift AO14	11 ks
X-ray monitoring of Sgr A* during the Event Horizon Telescope	Swift AO13	52 ks
The accretion flow properties of sub-luminous X-ray binaries	Swift AO13	30 ks
Galactic center monitoring campaign	Swift AO9–AO21	3.5 Ms
Neutron star crust cooling TOO	Swift AO6–AO13	60 ks
Galactic center monitoring campaign	Swift AO6–AO8	81 ks
Breaking new grounds in understanding relativistic jets	XMM AO25	45 ks
An accretion disk wind across the electromagnetic spectrum	XMM AO21	120 ks
The nature of the compact accretor in exotic X-ray binaries	XMM AO17	100 ks
An accretion disk wind at low Eddington rate?	XMM AO15	70 ks
Neutron star crust cooling in 1RXS J180408.9–342058	XMM AO15	70 ks
DDT to search for crust cooling in 1RXS J180408.9–342058	XMM AO14	30 ks
The nature of the transient black hole candidate Swift J1910.2–0546	XMM AO13	60 ks
DDT to search for crust cooling in RX J1709–267	XMM AO12	30 ks
Peculiar X-ray burster SAX J2224.9+5421 in quiescence	XMM AO10 + AO12	50 ks
Accreting millisecond pulsar Swift J1749.4–2807 in quiescence	XMM AO9 + AO10	100 ks
Sub-luminous X-ray binary AX J1754.2–2754	XMM AO7 + AO9	35 ks
Sub-luminous X-ray binaries in outburst	RXTE AO13–AO14	100 ks

Full Overview of Education Activities

Supervision of Master Research

2026–2027	MSc research project (60 ECTS), Mr. S. Apte, UvA
2026–2027	MSc research project (60 ECTS), Mr. D.-M. Nicolcea, UvA
2026–2027	MSc research project (60 ECTS), Mr. D. Berndsen, UvA
2026–2027	MSc research project (60 ECTS), Ms. S. Ettema, UvA
2025–2026	MSc research project (60 ECTS), Ms. Y. Gerritsma, UvA
2025–2026	MSc research project (60 ECTS), Mr. D. Meuwissen, UvA
2025–2026	MSc research project (60 ECTS), Mr. Q. Chen, UvA
2025	Astrovaria (6 ECTS), Mr. Q. Chen, UvA
2024–2025	MSc research project (60 ECTS), Ms. D. Agrawal, UvA
2024–2025	MSc research project (60 ECTS), Ms. C. Olson, UvA
2024–2025	MSc research project (60 ECTS), Mr. S. Gandini, UvA
2024–2025	MSc research project (60 ECTS), Mr. S. de Vosse, UvA
2023–2024	MSc research project (60 ECTS), Ms. K. Rojas Martinez, UvA
2023–2024	MSc research project (60 ECTS), Mr. N. Hover, UvA
2023	Astrovaria (6 ECTS), Mr. V. Puthusseril Anilkumar, UvA
2022–2023	MSc research project (60 ECTS), Ms. E. Caruso, UvA
2022–2023	MSc research project (60 ECTS), Ms. I. Reitsma, UvA
2022–2023	MSc research project (60 ECTS), Mr. S. van Eeden, UvA
2022	Astrovaria (6 ECTS), Ms. E. Caruso, UvA
2021–2022	MSc research project (60 ECTS), Mr. K. Zafeiropoulos, UvA
2021–2022	MSc research project (60 ECTS), Mr. G. Zervas, UvA
2020–2021	Post-MSc research project (7 months), Mr. J. van Opijnen, UvA.
2020–2021	MSc research project (60 ECTS), Ms. L. van Haastere, UvA
2020	Astrovaria (6 ECTS), Ms. J. Kleverlaan, UvA
2020	Astrovaria (6 ECTS), Ms. S. Fijma, UvA
2020	Astrovaria (6 ECTS), Mr. J. Groot, UvA
2020	Astrovaria (6 ECTS), Ms. M. van Etten, UvA
2019–2024	Post-MSc research project, Mr. Osman Ahmed, Debre Tabor University, Ethiopia
2019–2020	MSc research project (60 ECTS), Mr. M. Stoop, UvA
2018–2019	MSc research project (60 ECTS), Ms. M. Georganti, UvA
2018	ERASMUS+ research project (4 months), Ms. E. López, UvA
2017	ERASMUS+ research project (3 months), Mr. A. Marino, UvA
2009–2010	MSc research project (60 ECTS), Dr. S. Broerse, UvA

Supervision of Undergraduate Research

2026	ASPIRE research project (3 months), Ms. A. Kamarkar, UvA
2026	BSc research project (15 ECTS), Mr. T. Kloss, UvA
2026	BSc research project (15 ECTS), Mr. J. Luyten, UvA
2025	BSc research project (15 ECTS), Mr. M. Bannink, UvA
2024	BSc research project (15 ECTS), Ms. R. Verpoort, UvA
2023	BSc research project (15 ECTS), Ms. A. van Wijck, UvA
2022	BSc research project (15 ECTS), Mr. D. de Rijk, UvA
2021–2022	Grad project Fontys Applied Physics (5 months), Ms. S. Schot, UvA
2021	BSc research project (15 ECTS), Mr. M. Petrus, UvA
2021	BSc research project (15 ECTS), Mr. S. van Eeden, UvA
2019	ASPIRE research project (2 months), Mr. A. Andres, UvA
2019	BSc research project (15 ECTS), Ms. S. Fijma, UvA
2019	BSc research project (15 ECTS), Ms. J. Kleverlaan, UvA
2019	BSc research project (15 ECTS), Ms. M. van Etten, UvA
2019	BSc research project (15 ECTS), Mr. J. Groot, UvA
2018	BSc research project (15 ECTS), Mr. B. Belhach, UvA
2018	BSc research project (15 ECTS), Mr. L. Kok, UvA
2018	BSc research project (15 ECTS), Mr. M. Rustenburg, UvA

Supervision of Undergraduate Research – Continued

2015	Summer research project (2 months), Ms. A.C. Waterhouse, University of Cambridge
2009	BSc research project (15 ECTS), Mr. O. Gurney-Champion, UvA
2008	BSc research project (15 ECTS), Mr. S. Westerhout, UvA

Lecture series

2024–present	Lecturer and coordinator <i>Astronomy I</i> , BSc yr-1 (190 students, UvA)
2022–2025	Lecturer and coordinator <i>Proposal writing</i> , MSc (20 students, UvA)
2020	Lecturer <i>Structure and Evolution of Stars</i> , MSc (20 students, UvA)
2020–2023	Lecturer and coordinator <i>Astrophysics</i> , BSc yr-2 (75 students, UvA)
2019	Co-lecturer <i>Astrophysics</i> , BSc yr-2 (75 students, UvA)

Guest and substitute lectures

2017, 2024	Guest lecturer <i>Open Problems</i> , MSc (20 students, UvA)
2009, 2017–2021	Guest lecturer <i>Compact Objects</i> , BSc yr-3 (50 students, UvA)
2012	Guest lecturer <i>High Energy Universe</i> , PhD (30 students, University of Michigan)
2008, 2009	Guest lecturer <i>Orientation</i> , BSc yr-3 (50 students, UvA)

Education management and teaching qualifications

2025–present	Head of Astronomy education (UvA/API)
2025–present	Astronomy & Astrophysics MSc track coordinator (UvA)
2025–present	National astronomy education committee (LOCNOC)
2025–present	Active learning project, BSc Physics & Astronomy (UvA)
2026	Senior Teaching Qualification (SKO) degree obtained (UvA)
2025–2026	Visible Learning Trajectories project, BSc Physics & Astronomy (UvA)
2021–2024	Curriculum committee BSc Science Technology & Innovation (UvA)
2020–2022	Exam committee Physics & Astronomy (UvA)
2020	University Teaching Qualification (BKO) degree obtained (UvA)
2007–2009	Secretary of the National astronomy education committee (LOCNOC)
2003–2004	Education Committee (OC) of the Physics program at VU University

Journal abbreviations used: ApJ = Astrophysical Journal, A&A = Astronomy & Astrophysics, MNRAS = Monthly Notices of the Royal Astronomical Society, A&G = Astronomy & Geophysics, ATel = Astronomer's Telegram, JApA = Journal of Astrophysics and Astronomy, SCPMA = Science China Physics, Mechanics & Astronomy.

Review Papers: First Author

- 2026 **Degenaar, N.**, Wijnands, R. & Maccarone, T.M., invited review for New Astronomy Reviews
Low-level accretion in low-mass X-ray binaries
- 2018 **Degenaar, N.** & Suleimanov, V., book chapter in “The physics and astrophysics of neutron stars”, Springer book collection on Astronomy and Astrophysics Library, arXiv:1806.02833
Testing the equation of state with electromagnetic observations
- Degenaar, N.**, Ballantyne, D.R., Belloni, T., Chakraborty M., Chen, Y.-P., Ji, L., Kretschmar P., Kuulkers, E., Li, J., Maccarone, T.J., Malzac J., Zhang, S., Zhang, S.-N., 2018, Space Science Reviews 214, 15
Accretion disks and coronae in the X-ray flashlight
- 2015 **Degenaar, N.**, Wijnands, R., Miller, J.M., Reynolds, M.T., Kennea, J.A., Gehrels, N., 2015, JHEAp 7, 137
The Swift X-ray monitoring campaign of the center of the Milky Way

Review Papers: Co-Author

- 2024 Neilsen, J. & **Degenaar, N.**, book chapter in High-resolution X-ray spectroscopy, Springer, arXiv:2304.05412
Disk winds in Galactic X-ray binaries
- 2022 Bahramian, A. & **Degenaar, N.**, book chapter in Handbook of X-ray and Gamma-ray Astronomy, Springer, arXiv:2206.10053
Phenomenology and populations of low-mass X-ray binaries
- 2017 Wijnands, R., **Degenaar, N.**, & Page, D., 2017, JApA 38, 49
Crust cooling of accretion-heated neutron stars
- Middleton, M., Casella, P., Gandhi, P., Bozzo, E., Anderson, G., **Degenaar, N.**, Donnarumma, I., Israel, G., Knigge, C., Lohfink, A., Markoff, S., Marsh, T., Rea, N., Tingay, S., Wiersema, K., Altamirano, D., Bhattacharya, D., Brandt, W., Carey, S., Charles, P., Diaz Trigo, M., Done, C., Kotze, M., Marsh, T., Eikenberry, S., Fender, R., Ferruit, P., Fuerst, F., Greiner, J., Ingram, A., Heil, L., Jonker, P., Komossa, S., Leibundgut, B., Maccarone, T., Malzac, J., McBride, V., Miller-Jones, J., Page, M., Maria Rossi, E., Russell, D., Shahbaz, T., Sivakoff, G., Tanaka, M., Thompson, D., Uemura, M., Uttley, P., van Moorsel, G., Van Doesburgh, M., Warner, B., Wilkes, B., Wilms, J., Woudt, P., 2017, New Astronomy Reviews 79, 28
Paving the way to simultaneous multi-wavelength astronomy

Refereed Journals: First Author

- 2021 **Degenaar, N.**, Page, D., Beznogov, M.V., van den Eijnden, J., Wijnands, R., Reynolds, M., MNRAS 508, 882
Constraining the properties of dense neutron star cores: The case of the X-ray binary HETE J1900.1–2455
- 2019 **Degenaar, N.**, Ootes, L.S., Page, D., Wijnands, R., Parikh, A., Homan, J., Cackett, E.M., Miller, J.M., Altamirano, D., Linares, M., 2019, MNRAS 488, 4477
Crust cooling of the neutron star in Aql X-1: Different depth and magnitude of shallow heating during similar accretion outbursts
- 2017 **Degenaar, N.**, Ootes, L.S., Reynolds, M.T., Wijnands, R., Page, D., 2017, MNRAS Letters 465, L10
A very cold neutron star crust in the transiently accreting millisecond X-ray pulsar HETE J1900.1–2455 after 10 years of active accretion
- Degenaar, N.**, Pinto, C., Miller, J.M., Fabian, A.C., Wijnands, R., Altamirano, D., Chakraborty, D., Paerels, F., 2017, MNRAS 464, 398
An in-depth study of a neutron star accreting at low Eddington rate: On the possibility of a truncated disk and outflows

- 2016 **Degenaar, N.**, Altamirano, D., Parker, M., Miller-Jones, J.C.A., Miller, J.M., Heinke, C.O., Wijnands, R., Ludlam, R., Parikh, A., Hessels, J.W.T., Gusinskaia, N., Deller, A., Fabian, A.C. 2016, MNRAS 461, 4049
Disk reflection and a possible disk wind during a soft X-ray state in the neutron star low-mass X-ray binary 1RXS J180408.9–342058
- Degenaar, N.**, Koljonen, K.I.I., Chakrabarty, D., Kara, E., Altamirano, D., Miller, J.M., Fabian, A.C., 2016, MNRAS 456, 4256
Probing the effects of a thermonuclear X-ray burst on the neutron star accretion flow with NuSTAR
- 2015 **Degenaar, N.**, Miller, J.M., Chakrabarty, D., Harrison, F.A., Kara, E., Fabian, A., 2015, MNRAS Letters 451, L85
NuSTAR detection of disk reflection from close to the neutron star in 4U 1608–52
- Degenaar, N.**, Wijnands, R., Brown, E.F., Cumming, A.C., Cackett, E.M., Fridriksson, J., Homan, J., Miller, J.M., Heinke, C.O., Bahramian, A., Sivakoff, G.R., Altamirano, D., Pooley, D., 2015, MNRAS 451, 2071
Neutron star crust cooling in the Terzan 5 X-ray transient Swift J174805.3–244637
- 2014 **Degenaar, N.**, Miller, J.M., Harrison, F.A., Kennea, J.A., Kouveliotou, C., Younges, G., 2014, ApJ Letters 796, L9
High-resolution X-ray spectroscopy of the bursting pulsar GRO J1744–28
- Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Altamirano, D., Kennea, J.A., Gehrels, N., Haggard, D., Ponti, G., 2014, ApJ, 792, 109
The peculiar galactic center neutron star X-ray binary XMM J174457–2850.3
- Degenaar, N.**, Medin, Z., Cumming, A., Wijnands, R., Wolff, M.T., Cackett, E. M., Miller, J. M., Jonker, P. G., Homan, J., Brown, E. F., 2014 ApJ, 791, 47
The neutron star crust cooling curve of EXO 0748–676
- Degenaar, N.**, Wijnands, R., Miller, J. M., 2014, ApJ, 787, 67
The quiescent counterpart of the peculiar X-ray burster SAX J2224.9+5421
- Degenaar, N.**, D. Maitra, E.M. Cackett, M.T. Reynolds, J.M. Miller, R.C. Reis, A.L. King, K.Gültekin, C.D. Bailyn, M.M. Buxton, R. MacDonald, A.C. Fabian, D.B. Fox, E.S. Rykoff, 2014, ApJ, 784, 122
Multi-wavelength monitoring of the new candidate black hole X-ray binary Swift J1910.2–0546
- 2013 **Degenaar, N.**, Wijnands, R., Brown, E. F., Altamirano, D., Cackett, E. M., Fridriksson, J., Homan, J., Heinke, C. O., Miller, J. M., Pooley, D., Sivakoff G. R., 2013, ApJ 775, 48
Continued neutron star crust cooling of the 11 Hz X-ray pulsar in Terzan 5
- Degenaar, N.**, Miller, J. M., Kennea, J. A., Gehrels, N., Reynolds, M. T., Wijnands, R., 2013, ApJ, 769, 155
The X-ray flaring properties of Sgr A during six years of monitoring with Swift*
- Degenaar, N.**, Miller, J. M., Wijnands, R., Altamirano, D., Fabian, A. C., 2013, ApJ Letters 767, L37
X-ray emission and absorption features during an energetic thermonuclear X-ray burst from IGR J17062–6143
- Degenaar, N.**, Wijnands, R., Miller, J. M., 2013, ApJ Letters 767, L31
A direct measurement of the heat release in the outer crust of the transiently accreting neutron star XTE J1709–267
- 2012 **Degenaar, N.**, Linares, M., Altamirano, D., Wijnands, R., 2012, ApJ 759, 8
Two new bursting neutron star low-mass X-ray binaries: Swift J185003.2–005627 and Swift J1922.7–1716
- Degenaar, N.**, Wijnands, R., Cackett, E. M., Homan, J., in 't Zand, J. J. M., Kuulkers, E., Maccarone, T. J., van der Klis, M., 2012, A&A 545, 49
A four-year Chandra/XMM-Newton monitoring campaign of the Galactic center: analyzing the X-ray transients
- Degenaar, N.**, Patruno, A., Wijnands, R., 2012, ApJ, 756, 148
The quiescent X-ray properties of the accreting millisecond X-ray pulsar and eclipsing binary Swift J1749.4–2807
- Degenaar, N.**, Starling, R.L.C., Evans, P.A., Beardmore, A.P., Burrows, D.N., Cackett, E.M., Campana, S., Grupe, D., Kennea, J., Moretti, A., Pagani, C., Page, K.L., La Parola, V., Wijnands, R., 2012, A&A 540, 22
Swift follow-up observations of unclassified ASCA sources
- Degenaar, N.**, Wijnands, R., 2012, MNRAS 422, 581
Strong X-ray variability during the quiescent state of the neutron star low-mass X-ray binary EXO 1745–248

- 2011 **Degenaar, N.**, Brown, E. F., Wijnands, R., 2011, MNRAS Letters 418, L152
Evidence for crust cooling in the transiently accreting 11-Hz X-ray pulsar in the globular cluster Terzan 5
- Degenaar, N.**, Wijnands, R., Kaur, R., 2011, MNRAS Letters 414, L104
Swift detection of an intermediately long X-ray burst from the very faint X-ray binary XMMU J174716.1–281048
- Degenaar, N.**, & Wijnands, R., 2011, MNRAS Letters 414, L50
The accretion-heated crust of the transiently accreting 11-Hz X-ray pulsar in the globular cluster Terzan 5
- Degenaar, N.**, & Wijnands, R., 2011, MNRAS Letters 412, L68
The soft quiescent spectrum of the 11 Hz pulsar in Terzan 5
- Degenaar, N.**, Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., Wijnands, R., 2011, MNRAS 412, 1409
Further X-ray observations of EXO 0748–676 in quiescence: evidence for a cooling neutron star
- 2010 **Degenaar, N.**, & Wijnands, R., 2010, A&A 524, 69
A four-year baseline Swift study of enigmatic X-ray transients located near the Galactic center
- Degenaar, N.**, Jonker, P.G., Kaur, R., Rea, N., Israel, G. L., Patruno, A., Trap, G., Cackett, E.M., D’Avanzo, P., Lo Curto, G., Torres, M. A. P., Novara, G., Krimm, H., Holland, S.T., De Luca, A., Esposito, P., Wijnands, R., 2010, MNRAS 404, 1591
Multi-wavelength observations of 1RXH J173523.7–354013: revealing an unusual bursting neutron star
- 2009 **Degenaar, N.**, Wijnands, R., Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., 2009, MNRAS Letters 396, L26
Chandra and Swift observations of the quasi-persistent neutron star transient EXO 0748–676 back to quiescence
- Degenaar, N.**, & Wijnands, R., 2009, A&A 495, 547
The behavior of sub-luminous X-ray transients near the Galactic center as observed using the X-ray telescope aboard Swift

Refereed Journals: Co-author

- 2026 Ballantyne, D. & **Degenaar, N.**, 2026, to appear in ApJ, arXiv:2608.07758
Do Accretion Disks Get Bent Out of Shape? Investigating the Origin of Rapid Fluctuations in the Tails of Long Thermonuclear X-ray Bursts
- Pattie, E.C., Maccarone, T.J., Tetarenko, A.J., **Degenaar, N.**, Díaz Trigo, M., van den Eijnden, J., Gandhi, P., Kashyap, U., Miller-Jones, J.C.A., Russell, T.D., and Sivakoff, G., submitted to A&A
Radio timing, spectral, and polarimetric investigations of four very high accretion rate neutron star X-ray binary jets
- Echevarría, J., Hernández Santisteban, J.V., Ramírez, S.H., Bigwood, L., van den Eijnden, J., **Degenaar, N.**, van Haastere, L.N.A., Russell, T.D., submitted to MNRAS
Quiescent properties of V1838 Aql: Where is the bow shock?
- Morales, J.F., Maccarone, T.J., Kashyap, U., **Degenaar, N.**, submitted to PASP
TESS Photometry of Swift J061223.0+701243: Reclassification as a Synchronized Polar
- Mandel, S., Mori, K., Ciurlo, A., Draghis, P.A., Grollimund, N., Jaisawal, G.K., Jin, C., Levin, B., Marra, L., Miao, E., Parra, M., Reynolds, M., Granados, S.A., Bachetti, M., Capitanio, F., **Degenaar, N.**, Hailey, C.J., Hong, J.S., Motta, S., Ponti, G., Shara, M.M., Shidatsu, M., Tomsick, J.A., Campbell, Randall, C., S., Fender, R., Ghez, A., Grindlay, J., Hosek, M.W., Matsunaga, K., Mikusincová, R., Nynka, M., Sanger-Johnson, G., Stel, G., Tarana, A., Wijnands, R., Zhang, S., submitted to ApJ, arXiv:2509.14465
A multi-wavelength study of the new Galactic center black hole candidate MAXI J1744–294
- Liu, H., Jiang, J., Ingram, A., Bambi, C., Fabian, A.C., Farinelli, R., Ludlam, R., **Degenaar, N.**, Podgorny, J., Santangelo, A., Steiner, J.F., Young, A.J., Zhang, Z., 2026, JHEAp 5100548L
Decoding Cygnus X-2: The critical role of reflection in IXPE data
- Pattie, E.C., Maccarone, T.J., Russell, T.D., Bachetti, M., **Degenaar, N.**, Kupfer, T., 2026, A&A 707, 192
4U 1556–60 as a very faint neutron star X-ray binary at 700 pc with an undetected radio jet

- Caruso, E., Costantini, E., **Degenaar, N.**, Diaz Trigo, M., 2026, A&A 705 176
An XMM long look at the accretion disk plasma in the dipping neutron star LMXB 4U1624–490
- Stel, G., Ponti, G., **Degenaar, N.**, Sidoli, L., Mereghetti, S., Mori, K., Bao, T., Illiano, G., Mondal, S., Reynolds, M., Jin, C., Lian, T., Mandel, S., Scaringi, S., Zhang, S., Sanger-Johnson, G., Wijnands, R., Miller, J.M., Kennea, J., Zhu, Z., 2026, A&A 705, 135
The Very Faint X-ray Transient 4XMM J174610.7–290020 at the Galactic center
- 2025 Fijma, S., **Degenaar, N.**, Castro Segura, N., Maccarone, T. J., Knigge, C., Armas Padilla, M., Sánchez, D. Mata, Muñoz-Darias, T., Hernández Santisteban, J. V., Rhodes, L., Bright, J., van den Eijnden, J., Green, D. A., 2025, MNRAS 544, 4702
A multi-wavelength view of the outflowing short-period X-ray binary UW CrB
- van den Eijnden, J., Sidoli, L., Diaz Trigo, M., El Mellah, I., Sguera, V., **Degenaar, N.**, Fürst, F., Grinberg, V., Kretschmar, P., Martínez-Núñez, S., Miller-Jones, J. C. A., Postnov, K., Russell, T. D., 2025, MNRAS 543, 862
Low-frequency spectra of neutron star + OB supergiant binaries: Does wind density drive persistent and flaring modes of accretion?
- Heinke, C.O., Zheng, J., Maccarone, T.J., **Degenaar, N.**, Bahramian, A., Sivakoff, G.R., 2024, ApJSS 279, 2
Catalog of outbursts of neutron star LMXBs
- 2024 Anitra, A., Miceli, C., Di Salvo, T., Iaria, R., **Degenaar, N.**, Miller, J.M., Reynolds, M., Barra, F., Leone, W., Burderi, L., 2024, A&A 690, 148
An X-ray view of emission lines in optical spectra: spectral analysis of the two LMXB systems Swift J1357.2–0933 and MAXI J1305–704
- van den Eijnden, J., Robins, D., Sharma, R., Sánchez-Fernández, C., Russell, T.D., Degenaar, N., Miller-Jones, J.C.A., Maccarone, T., 2024, MNRAS 533, 756
The variable radio jet of the accreting neutron star the Rapid Burster
- Ahmed, O., **Degenaar, N.**, Wijnands, R., Armas Padilla, A., 2024, RMxAA 60, 403
XMMSL1 J171900.4–353217: A new candidate neutron star low-mass X-ray binary
- Moutard, D.L., Ludlam, R.M., Buisson, D.J.K., Cackett, E.M., Chakrabarty, D., **Degenaar, N.**, Fabian, A.C., Gandhi, P., García, J.A., Shaw, A.W., Tomsick, J.A., 2024, ApJ 968, 51
Investigating Ultra-Compact X-ray Binary Candidate SLX 1735–269 with NICER and NuSTAR
- Russell, T.D., **Degenaar, N.**, van den Eijnden, J., Maccarone, T.J., Tetarenko, A.J., Sánchez-Fernández, C., Miller-Jones, J.C.A., Kuulkers, E., Del Santo, M., 2024, Nature 627, 763
Thermonuclear explosions on neutron stars reveal the speed of their jets
- Miceli, C., Mata Sánchez, D., Anitra, A., Muñoz-Darias, T., Di Salvo, T., Iaria, R., Marino, A., Del Santo, M., Armas-Padilla, M., **Degenaar, N.**, Miller, J.M., Reynolds, M., 2024, A&A 684, 67
Soft-state optical spectroscopy of the black hole MAXI J1305–704
- Shaw, A.W., **Degenaar, N.**, Maccarone, T.J., Heinke, C.O., Hernández Santisteban, J.V., Wijnands, R., van den Eijnden, J., 2024, MNRAS 527, 7603
The nature of very-faint X-ray binaries: Near-infrared spectroscopy of 1RXH J173523.7–354013 reveals a giant companion
- van den Eijnden, J., Rouco Escorial, A., Alfonso-Garzón, J., Kretschmar, P., Fürst, F., **Degenaar, N.**, Hernández Santisteban, J.V., Miller-Jones, J.C.A., Sivakoff, G., Russell, T.D., Wijnands, R., 2024, MNRAS 527, 4260
The third radio-detected neutron star Be/X-ray binary: VLA monitoring of the 2022/2023 outburst of LS V +44 17
- Castro Segura, N., Knigge, C., Matthews, J.H., Vincentelli, F.M., Charles, P.A., Long, K.S., Altamirano, D., Buckley, D., Modiano, D., Torres, M.A.P., Buisson, D.J.K., Fijma, S., Alabarta, K., **Degenaar, N.**, Georganti, M., Baglio, M.C., 2024, MNRAS 527, 2508
Shedding far-ultraviolet light on the donor star and evolutionary state of the neutron-star LMXB Swift J1858.6–0814
- 2023 van den Eijnden, J., Sidoli, L., Diaz Trigo, M., **Degenaar, N.**, El Mellah, I., Fürst, F., Grinberg, V., Kretschmar, P., Martínez Núñez, S., Miller-Jones, J.C.A., Postnov, K., Russell, T.D., 2023, MNRAS Letters 526, L129
The first mm detection of a neutron star high-mass X-ray binary

- Moutard, D.L., Ludlam, R.M., Garcia, J.A., Altamirano, D., Buisson, J.K., Cackett, E.M., Chenevez, J., **Degenaar, N.**, Fabian, A.C., Homan, J., Joadand, A., Pike, S., Shaw, A.W., Strohmayer, T.E., Tomsick, T.A., 2023, *ApJ* 957, 27
Simultaneous NICER and NuSTAR observations of the ultra-compact X-ray binary 4U 0614+091
- Janssens, S., Shenar, T., **Degenaar, N.**, Bodensteiner, J., Sana, H., Audenaert, J., Frost, A., 2023, *A&A Letters* 677, L9
MWC 656 is unlikely to contain a black hole
- Fijma, S., Castro Segura, N., **Degenaar, N.**, Knigge, C., Higginbottom, N., Hernández Santisteban, J.V., Maccarone, T.J., 2023, *MNRAS Letters* 526, L149
A transient ultraviolet outflow in the short-period X-ray binary UW CrB
- Vincentelli, F.M., Casella, G., Borghese, A., Cavecchi, Y., Mastroserio G., Stella, L., Altamirano, D., Armas Padilla, M., Baglio C., Belloni, T., Casares, J., Cuneo, V.A., **Degenaar, N.**, Diaz Trigo, M., Fender, R., Maccarone, T.J., Malzac, J., Mata Sanchez, D., Middleton, M., Migliari, S., Muñoz-Darias, T., O'Brien, K., Panizo-Espinar, G., Sánchez-Sierras, Russell, T.D., Uttley, P., 2023, *MNRAS* 525, 2509
Sub-second infrared variability from the archetypal accreting neutron star 4U 1728–34
- Marino, A., Russell, T.D., Del Santo, M., Beri, A., Sanna, A., Coti Zelati, F., **Degenaar, N.**, Altamirano, D., Ambrosi, E., Anitra, A., Carotenuto, F., D'Aí, A., Di Salvo, T., Manca, A., Motta, S.E., Pinto, C., Pintore, F., Rea, N., van den Eijnden, J., 2023, *MNRAS* 525, 2366
The accretion/ejection link in the neutron star X-ray binary 4U 1820-30 I: A boundary layer-jet (anti-)coupling?
- Vincentelli, F., Neilsen, J., Tetarenko, A.J., Cavecchi, Y., Castro Segura, N., del Palacio, S., van den Eijnden, J., Vasilopoulos, G., Altamirano, D., Armas Padilla, M., Bailyn, C.D., Belloni, T., Buisson, D.J.K., Cuneo, V.A., **Degenaar, N.**, Knigge, C., Long, K.S., Jimenez-Ibarra, F., Milburn, J., Muñoz Darias T., Ozbey Arabacı, M., Remillard, R., Russell, T.D., 2023, *Nature* 615, 45
A shared accretion instability for black holes and neutron stars
- Fijma, S., van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Miller-Jones, J.C.A., 2023, *MNRAS* 521, 4490
Evaluating the jet/accretion coupling of Aql X-1: probing the contribution of accretion flow spectral components
- Alizai, K., Chenevez, J., Cumming, A., **Degenaar, N.**, Falanga, M., Galloway, D.K., in't Zand, J.J.M., Jaisawal, G.K., Keek, L., Kuulkers, E., Lampe, N., Schatz, H., Serino, M., 2023, *MNRAS* 521, 3608
A catalog of unusually long thermonuclear bursts on neutron stars
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Miller-Jones, J.C.A., Rouco Escorial, A., Wijnands, R., Sivakoff, G.R., Hernández Santisteban, J.V., 2023, *MNRAS* 516, 4844
Radio monitoring of transient Be/X-ray binaries and the inflow-outflow coupling of strongly magnetized accreting neutron stars
- 2022 Maccarone, T.J., **Degenaar, N.**, Tetarenko, B.E., Heinke, C.O., Wijnands, R., Sivakoff, G.R., 2022, *MNRAS* 512, 2365
On the recurrence times of neutron star X-ray binary transients and the nature of the Galactic Centre quiescent X-ray binaries
- Armas Padilla, M., Rodríguez-Gil, P., Muñoz-Darias, T., Torres, M.A.P., Casares, J. **Degenaar, N.**, Dhillon, V.S., Heinke, C.O., Littlefair, S.P.; Marsh, T.R., 2022, *ApJ Letters* 931, L9
A Tentative 114 minute Orbital Period Challenges the Ultracompact Nature of the X-Ray Binary 4U 1812–12
- Akiyama, K. et al. (337 authors), 2022, *ApJ Letters* 930, L13
First Sagittarius A Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration*
- Akiyama, K. et al. (389 authors), 2022, *ApJ Letters* 930, L12
First Sagittarius A Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way*
- Scaringi, S., Groot, P.J., Knigge, C., Bird, A.J., Breed, E., Buckley, D.A.H., Cavecchi, Y., **Degenaar, N.**, de Martino, D., Done, C., Fratta, M., Ilkiewicz, K., Koerding, E., Lasota, J.-P., Littlefield, C., Manara, C. F., O'Brien, M., Szody, P., Timmes, F. X., 2022, *Nature* 604, 447
Localized thermonuclear bursts from accreting magnetic white dwarfs
- Castro Segura, N., Knigge, C., Long, K.S., Altamirano, D., Armas Padilla, M., Bailyn, C., Buckley, D.A.H., Buisson, D.J.K., Casares, J., Charles, P., Combi, J.A., Cúneo, V. A., **Degenaar, N.**, del Palacio, S., Díaz

Trigo, M., Fender, R., Gandhi, P., Georganti, M., Gutiérrez, C., Hernández Santisteban, J.V., Jiménez-Ibarra, F., Matthews, J., Méndez, M., Middleton, M., Muñoz-Darias, T., Özbey Arabacı, M., Pahari, M., Rhodes, L., Russell, T.D., Scaringi, S., van den Eijnden, J., Vasilopoulos, G., Vincentelli, F.M., Wiseman, P., 2022, *Nature* 603, 52

A persistent ultraviolet outflow from an accreting neutron star binary transient

Page, D., Homan, J., Nava-Callejas, M., Cavecchi, Y., Beznogov, M.V., **Degenaar, N.**, Wijnands, R., Parikh, A.S., 2022, *ApJ* 933, 216

A "Hyperburst" in the MAXI J0556-332 neutron star: Evidence for a new type of thermonuclear explosion

Andés, A., van den Eijnden, J., **Degenaar, N.**, Evans, P.A., Reynolds, M., Miller, J.M., Kennea, J., Wijnands, R., Markoff, S., Altamirano, D., Heinke, C.O., Bahramian, A., Ponti, G., Haggard, D., 2022, *MNRAS* 510, 2851

*A Swift study of long-term changes in the X-ray flaring properties of Sagittarius A**

2021 Russell, T.D., **Degenaar, N.**, van den Eijnden, J., Del Santo, M., Segreto, A., Altamirano, D., Beri, A., Díaz Trigo, M., Miller-Jones, J.C.A., 2021, *MNRAS Letters* 508, L6

The evolving radio jet from the neutron star X-ray binary 4U 1820–30

van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Wijnands, R., Miller-Jones, J.C.A., Hernández Santisteban, J.V., Gallo, E., Atri, P., Plotkin, R.M., Maccarone, T.J., Sivakoff, G.R., Miller, J.M., Reynolds, M., Russell, D.M., Maitra, D., Heinke, C.O., Armas Padilla, M., Bahramian, A., Shaw, A.W., Rupen, M.P., 2021, *MNRAS* 507, 3899

A new radio census of neutron star X-ray binaries

Stoop, M., van den Eijnden, J., **Degenaar, N.**, Bahramian, A., Swihart, S.J., Strader, J., Jiménez-Ibarra, F., Muñoz-Darias, T., Armas Padilla, M., Shaw, A.W., Maccarone, T.J., Wijnands, R., Russell, T.D., Hernández Santisteban, J.V., Miller-Jones, J.C.A., Russell, D.M., Maitra, D., Heinke, C.O., Sivakoff, G.R., Lewis, F., Bramich, D.M., 2021, *MNRAS* 507, 330

Multiwavelength observations reveal a faint candidate black hole X-ray binary in IGR J17285–2922

Joadand, A., Hernández Santisteban, J.V., Archibald, A., Hessels, J.W.H., Bogdanov, S., Knigge, C., **Degenaar, N.**, Deller, A., Scaringi, S., Patruno, A., to appear in *ApJ*, arXiv:2102.13145

Discovery of UV millisecond pulsations and moding in the the low-mass X-ray binary state of the transitional millisecond pulsar PSR J1023+0038

Kretschmar, P., El Mellah, I., Martínez-Núñez, S., Fürst, F., Grinberg, V., Sander, A.A.C., van den Eijnden, J., **Degenaar, N.**, Maíz Apellániz, J., Jiménez Esteban, F., Ramos-Lerate, M., Utrilla, E., 2021, *A&A* 652, 95

Revisiting the archetypical wind accretor Vela X-1 in depth

Buisson, D.J.K., Altamirano, D., Armas Padilla, M., Arzoumanian, Z., Bult, P., Castro Segura, N., Charles, P., **Degenaar, N.**, Díaz Trigo, M., van den Eijnden, J., Fogantini, F., Gandhi P., Gendreau, K., Hare, J., Homan, J., Knigge, C., Malacaria, C., Méndez, M., Muñoz Darias, T., Ng, M. Özbey Arabacı, M., Remillard, R., Strohmayer, T. E., Tombesi, F., Tomsick, J. A., Vincentelli, F., Walton, D. J., 2021, *MNRAS* 503, 5600

Dips and eclipses in the X-ray binary Swift J1858.6–0814 observed with NICER

Ilkiewicz, K., Scaringi, S., Court, J.M.C., Maccarone, T.J., Altamirano, D., Bradshaw, C.W., **Degenaar, N.**, Fratta, M., Littlefield, C., Shahbaz, T., Wijnands, R., 2021, *MNRAS* 503, 4050

Exploring the tilted accretion disc of AQ Men with TESS

Ludlam, R.M., Jaodand, A.D., García, J.A., **Degenaar, N.**, Tomsick, J. A., Cackett, E.M., Fabian, A.C., Gandhi, P., Buisson, D.J.K., Shaw, A.W., Chakrabarty, D., 2021, *ApJ* 911, 123

Simultaneous NICER and NuSTAR Observations of the Ultra-compact X-ray Binary 4U 1543–624

Bahramian, A., Heinke, C.O., Kennea, J. A., Maccarone, T.J., Evans, P. A., Wijnands, R., **Degenaar, N.**, in 't Zand, J. J. M., Shaw, A.W., Rivera Sandoval, L.E., McClure, S., Tetarenko, A.J., Strader, J., Kuulkers, E., Sivakoff, G.R., 2021, *MNRAS* 501, 2790

The Swift Bulge Survey: Motivation, strategy, and first X-ray results

Parikh, A.S., **Degenaar, N.**, Santisteban, J. V. Hernández, Wijnands, R., Psaradaki, I., Costantini, E., Modiano, D., Miller, J.M., 2021, *MNRAS* 501, 1453

UV and X-ray observations of the neutron star LMXB EXO 0748-676 in its quiescent state

de Haas, S.E.M., Russell, T.D., **Degenaar, N.**, Markoff, S., Tetarenko, A.J., Tetarenko, B.E., van den Eijnden, J., Miller-Jones, J.C.A., Parikh, A.S., Plotkin, R.M., Sivakoff, G.R., 2021, *MNRAS* 502, 521

Disk-jet coupling changes as a possible indicator for outbursts from GX 339–4 remaining within the X-ray hard state

- 2020 Armas Padilla, M., Muñoz-Darias, T., Jiménez-Ibarra, F., Fernández-Ontiveros, J. A., Casares, J., Torres, M.A.P., García-Rojas, J., Cúneo, V. A., **Degenaar, N.**, 2020, A&A 644, 63

Optical spectroscopy of 4U 1812–12: An ultra-compact X-ray binary seen through an H II region

Maccarone, T.J., van den Eijnden, J., Russell, T.D., **Degenaar, N.**, 2020, MNRAS 499, 957

Eclipses of jets and discs of X-ray binaries as a powerful tool for understanding jet physics and binary parameters

Russell, T.D., Lucchini, M., Tetarenko, A.J., Miller-Jones, J.C.A., Sivakoff, G.R., Krauss, F., Mulaudzi, W., Baglio, M.C., Russell, D.M., Altamirano, D., Ceccobello, C., Corbel, S., **Degenaar, N.**, van den Eijnden, J., Fender, R., Heinz, S., Koljonen, K.I.I., Maitra, D., Markoff, S., Migliari, S., Parikh, A.S., Plotkin, R.M., Rupen, M., Sarazin, C., Soria, R., Wijnands, R., 2020, MNRAS 498, 5772

Rapid compact jet quenching in the Galactic black hole candidate X-ray binary MAXI J1535–571

Buisson, D.J.K., Altamirano, D., Diaz Trigo, M., Mèndez, M., Armas Padilla, M., Castro Segura, N., **Degenaar, N.**, van den Eijnden, J., Fogantini, F.A., Knigge, C., Muñoz-Darias, T., Özbey Arabacı, M., Vincentelli, F.M., 2020, MNRAS 498, 68

Soft X-ray emission lines in the X-ray binary Swift J1858.6–0814 observed with XMM-Newton-RGS: disc atmosphere or wind?

Pereyra, M., Altamirano, D., Court, J.M.C., Cúneo, V., **Degenaar, N.**, Parikh, A.S., Wijnands, R., 2020, MNRAS 497, 1115

Long-term X-ray evolution of the black hole candidate IGR J17091–3624 in the last decade

van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Altamirano, D., Armas Padilla, M., Bahramian, A., Buisson, D.J.K., Castro Segura, N., Fogantini, F.A., Heinke, C.O., Maccarone, T., Maitra, D., Miller-Jones, J.C.A., Muñoz-Darias, T., Özbey Arabacı, M., Russell, D., Shaw, A.W., Sivakoff, G., Tetarenko, A., Vincentelli, F., Wijnands, R., 2020, MNRAS 496, 4127

The strongly variable radio counterpart of Swift J1858.6–0814

Parikh, A., Wijnands, R., Homan, J., **Degenaar, N.**, Wolvers, B., Ootes, L.S., Page, D., 2020, A&A Letters, 638, L2

Unexpected late-time temperature rise observed in two neutron star crust cooling sources XTE J1701–462 and EXO 0748–676

Court, J.M.C., Scaringi, S., Littlefield C., Castro Segura, N., Long, K., Maccarone, T., Altamirano, D., **Degenaar, N.**, Wijnands, R., Shahbaz, T., Zhan, Z., 2020, MNRAS 494, 4656

EX Draconis: Using Eclipses to Separate Outside-In and Inside-Out Outbursts

Muñoz-Darias, T., Armas Padilla, M., Jimenez-Ibarra F., Panizo-Espinar, G., Casares, J., Altamirano, D., Buisson, D.J.K., Castro Segura, N., Cuneo, V.A., **Degenaar, N.**, Fogantini, F.A., Knigge, C., Özbey Arabacı, M., Sanchez-Sierras, M.A., Torres, M.A.P., van den Eijnden, J., Vincentelli, F.M., 2020, ApJ Letters 893, L19

The Changing-look Optical Wind of the Flaring X-ray Transient Swift J1858.6–0814

Wijngaarden, M.J.P., Ho, W.C.G., Chang, P., Page, D., Wijnands, R., Ootes, L.S., Cumming, A., **Degenaar, N.**, Beznogov, M., 2020, MNRAS 493, 4936

The effect of diffusive nuclear burning on neutron star cooling in accreting systems

van den Eijnden, J., **Degenaar, N.**, Ludlam, R., Parikh, A., Miller, J.M., Wijnands, R., Gendreau, K.C., Arzoumanian, Z., Chakrabarty, D., Bult, P., 2020, MNRAS 493, 1318

A strongly changing accretion morphology in the outburst decay of the neutron star X-ray binary 4U 1608–52

López-Navas, J., **Degenaar, N.**, Parikh, A.S., Hernández Santisteban, J.V., van den Eijnden, J., MNRAS 493, 940

The connection between the optical/UV and X-ray emission in the neutron star low-mass X-ray binary Aql X-1

Shaw, A.W., Heinke, C.O., Maccarone, T.J., Sivakoff, G.R., Strader, J., Bahramian, A., **Degenaar, N.**, Kennea, J.A., Kuulkers, E., Rivera Sandoval, L.E., Shishkovsky, L., Swihart, S.J., Tetarenko, A.J., Wijnands, R., in 't Zand, J.J.M., MNRAS 492, 4344

The Swift Bulge Survey: Optical & near-IR follow-up featuring a likely symbiotic X-ray binary & a focused wind CV

- Gusinskaia N.V., Hessels, J.W.T, **Degenaar, N.**, Deller, A.T., Miller-Jones, J.C.A., Archibald, A.M., Heinke, C.O., Moldon, J., Patruno, A., Tomsick, J., Wijnands, R., 2020, MNRAS 492, 2858
Quasi-simultaneous radio and X-ray observations of Aql X-1: probing low luminosities
- Gusinskaia N.V., Russell, T.D., Hessels, J.W.T, Bogdanov, S., **Degenaar, N.**, Deller, A.T., van den Eijnden, J., Joadand, A.D., Miller-Jones, J.C.A., Wijnands, R., 2020, MNRAS 492, 1091
Radio and X-ray monitoring of the accreting millisecond X-ray pulsar IGR J17591–2342 in outburst
- Rouco Escorial, A., Wijnands, R., van den Eijnden, J., Patruno, A., **Degenaar, N.**, Parikh, A., Ootes, L.S., 2020, A&A 630, 105
Recurrent low-level luminosity behaviour after a giant outburst in the Be/X-ray transient 4U 0115+63
- 2019 Haggard, D., Nynka, M., Mon, B., de la Cruz Hernandez, N., Nowak, M., Heinke, C., Neilsen, J., Dexter, J., Fragile, C., Baganoff, F., Bower, G.C., Coti-Zelati, F., **Degenaar, N.**, Markoff, S., Morris, M., Ponti, G., Rea, N., Wilms, J., Yusef-Zadeh, F., 2019, ApJ 886, 96
Chandra discovery of Sgr A's brightest X-ray flares*
- Saikia, P., Russell, D., Bramich, D., Miller-Jones, J.C.A., Baglio, M.C., **Degenaar, N.**, 2019, ApJ 887, 21
Lorentz factors of compact jets in black hole X-ray binaries
- Russell, T.D., Tetarenko, A.J., Miller-Jones, J. C. A., Sivakoff, G. R., Parikh, A. S., Rapisarda, S., Wijnands, R., Corbel, S., Tremou, E., Altamirano, D., Baglio, M. C., Ceccobello, C., **Degenaar, N.**, van den Eijnden, J., Fender, R., Heywood, I., Krimm, H. A., Lucchini, M., Markoff, S., Russell, D. M., Soria, R., Woudt, P. A., 2019, ApJ 883, 198
Disk-jet coupling in the 2017/2018 outburst of the Galactic black hole candidate X-ray binary MAXI J1535–571
- Rouco Escorial, A., Wijnands, R., Ootes, L.S., **Degenaar, N.**, Snelders, M., Kaper, L., Cackett, E.M., Homan, J., 2019, A&A 630, 105
Quiescent X-ray variability in the neutron star Be/X-ray transient GRO J1750–27
- Hernández Santisteban, J.V., Cúneo, V., **Degenaar, N.**, van den Eijnden, J., Altamirano, D., Gómez, M. N., Russell, D.M., Wijnands, R., Golovakova, R., Reynolds, M. T., Miller, J.M., 2019, MNRAS 488, 4596
Evidence for the ultra-compact nature of the neutron star low-mass X-ray binary IGR J17062–6143
- van den Eijnden, J., **Degenaar, N.**, Schulz, N.S., Nowak, M.A., Wijnands, R., Russell, T.D., Hernández Santisteban, J.V., Bahramian, A., Maccarone, T., Kennea, J.A., Heinke, C.O., 2019, MNRAS 487, 4355
Chandra reveals a possible ultra-fast outflow in the super-Eddington Be/X-ray binary Swift J0243.6+6124
- Ootes, L., Vats, S., Page, D., Wijnands, R., **Degenaar, N.**, Wijngaarden, M., Altamirano, D., Bahramian, A., Cackett, E.M., Heinke, C.O., Homan, J., Miller, J.M., 2019, MNRAS 487, 1447
Continued cooling of the accretion-heated neutron-star crust in the X-ray transient IGR J17480–2446 located in the globular cluster Terzan 5
- Ponti, G., Bianchi, S., Di Marco, B., Bahramian, A., **Degenaar, N.**, Heinke, C.O., 2019, MNRAS 487, 858
Evolution of the disc atmosphere in the X-ray binary MXB 1659–298, during its 2015–2016 outburst
- Beri, A., Altamirano, D., Wijnands, R., **Degenaar, N.**, Parikh, A., 2019, MNRAS 486, 1620
Unveiling the nature of compact object in the LMXB MAXI 1957+032 using Swift-XRT
- Beri, A., Tetarenko, B.E., Bahramian, A., Altamirano, D., Ghandi, P., Sivakoff, G., **Degenaar, N.**, Middleton, M., Wijnands, R., Hernández Santisteban, J.V., Paice, J., 2019, MNRAS 485, 3064
Swift J1357.2–0933 as seen with Swift and NuSTAR during its 2017 outburst
- Parikh, A., Wijnands, R., Ootes, L.S., Page, D., **Degenaar, N.**, Bahramian, A., Brown, E.F., Cackett, E., Cumming, A., Heinke, C., Homan, J., Rouco Escorial, A., Wijngaarden, M.J.P., 2019, A&A 624, 84
Consistent accretion-induced heating of the neutron-star crust in MXB 1659–29 during two different outbursts
- Ludlam, R., Miller, J.M., Barret, D., Cackett, E., Coughenour, B., Dauser, T., **Degenaar, N.**, García, J., Harrison, F., Paerels, F., 2019, ApJ 873, 99
NuSTAR Observations of the Accreting Atolls GX 3+1, 4U 1702–429, 4U 0614+091, and 4U 1746–371
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Hernández Santisteban, J.V., Wijnands, R., Miller-Jones, J.C.A., Rouco Escorial, A., Sivakoff, G., 2019, MNRAS 483, 4628
A re-establishing jet during X-ray rebrightenings of the Be/X-ray binary Swift J0243.6+6124
- in 't Zand, J.M.M., Kries, M.J.W., Palmer, D.M., **Degenaar, N.**, 2019, A&A 621, 53
A search for the most powerful thermonuclear X-ray bursts with the Neil Gehrels Swift Observatory

- 2018 Russell, T.D., **Degenaar, N.**, Wijnands, R., van den Eijnden, J., Gusinskaia, N.V., Hessels, J.W.T., Miller-Jones, J.C.A., 2018, ApJ Letters 869, L16
The radio-bright accreting millisecond X-ray pulsar IGR J17591–2342
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Wijnands, R., Miller-Jones, J.C.A., Sivakoff, G., Hernández Santisteban, J.V., 2018, Nature 562, 233
Discovery of an evolving jet from a super-Eddington accreting X-ray pulsar
- Bahramian, A., Strader, J., Chomiuk L., Heinke, C.O., Miller-Jones, J.C.A., **Degenaar, N.**, Tetarenko, A., Tudor, V., Tremou, E., Shishkovsky, L., Wijnands, R., Maccarone, T., Sivakoff, G., Ransom, S., 2018, ApJ 864, 28
The MAVERIC survey: A transitional millisecond pulsar candidate in Terzan 5
- Court, J.M.C., Altamirano, D., Albayati, A.C., Sanna, A., Overton, T., Belloni, T., **Degenaar, N.**, Wijnands, R., Yamaoka, K., Hill, A.B., Knigge, C., 2018, MNRAS 481, 2273
The Evolution of X-Ray Bursts in the Bursting Pulsar GRO J1744–28
- Marino, A., **Degenaar, N.**, Di Salvo, T., Wijnands, R., Burderi, L., Iaria, R., 2018, MNRAS 479, 3634
On obtaining neutron-star mass and radius constraints from quiescent low-mass X-ray binaries in the Galactic plane
- Rivera Sandoval, L.E., Wijnands, R., **Degenaar, N.**, Cavecchi, Y., Heinke, C.O., Cackett, E.M., Homan, J., Altamirano, D., Bahramian, A., Sivakoff, G.R., Miller, J.M., Parikh, A.S., 2018, MNRAS 479, 2777
Extreme quiescent variability of the transient neutron star low-mass X-ray binary EXO 1745–248 in Terzan 5
- Gallo, E., **Degenaar, N.**, van den Eijnden, 2018, MNRAS Letters 478, L132
Hard state neutron star and black hole X-ray binaries in the radio:X-ray luminosity plane
- Ootes, L.S., Wijnands, R., Page, D., **Degenaar, N.**, 2018, MNRAS 477, 2540
A cooling neutron star crust after recurrent outbursts: Modelling the accretion outburst history of Aql X-1
- Vats, S., Wijnands, R., Parikh, A.S., Ootes, L.S., **Degenaar, N.**, Page, D., 2018, MNRAS 477, 2494
The quiescent state of the neutron-star X-ray transient GRS 1747–312 in the globular cluster Terzan 6
- Parikh, A.S., Wijnands, R., **Degenaar, N.**, Ootes, L., Page, D., 2018, MNRAS 476, 2230
Further constraints on neutron-star crustal properties in the low-mass X-ray binary 1RXS J180408.9–342058
- Tetarenko, A., Bahramian, A., Wijnands, R., Heinke, C.O., Maccarone, T.J., Miller-Jones, J.C.A., Strader, J., Chomiuk, L., **Degenaar, N.**, Sivakoff, G.R., Altamirano, D., Deller, A.T., Kennea, J.A., Li, K.L., Plotkin, R.M., Russell, T.D., Shaw, A., 2018, ApJ 854, 125
A new radio quiet accreting millisecond X-ray pulsar in the globular cluster NGC 6256
- Rivera Sandoval, L.E., Hernández Santisteban, J.V., **Degenaar, N.**, Wijnands, R., Knigge, C., Miller, J.M., Reynolds, M.T., Altamirano, D., van den Berg, M., Hill, A., 2018, MNRAS 476, 1086
Mid-UV studies of the transitional millisecond pulsars XSS J12270–4859 and PSR J1023+0038 during their radio pulsar states
- Sanna, A., Bahramian, A., Bozzo, E., Heinke, C., Altamirano, D., Wijnands, R., **Degenaar, N.**, Maccarone, T., Riggio, A., Di Salvo, T., Iaria, R., Burgay, M., Possenti, A., Ferrigno, C., Papitto, A., Sivakoff, G., and Burderi, L., 2018, A&A Letters 610, L2
Discovery of 105 Hz coherent pulsations in the ultracompact binary IGR J16597–3704
- van den Eijnden, J., **Degenaar, N.**, Pinto, C., Patruno, A., Wette, K., Messenger, C., Hernández Santisteban, J., Wijnands, R., Miller, J.M., Altamirano, D., Paerels, F., Chakrabarty, D., Fabian, A.C., 2018, MNRAS 475, 2027
The very-faint X-ray binary IGR J17062–6143: a truncated disk, no pulsations, and a possible outflow
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Miller-Jones, J.C.A., Wijnands, R., Miller, J.M., King, A.L., Rupen, M.P., 2018, MNRAS Letters 474, L91
Discovery of radio emission from the symbiotic X-ray binary system GX 1+4
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Miller-Jones, J.C.A., Wijnands, R., Miller, J.M., King, A.L., Rupen, M.P., 2018, MNRAS Letters, 473, L141
Radio emission from the X-ray pulsar Her X-1: a jet launched by a strong magnetic field neutron star?

- 2017 Parikh, A.S., Homan, J., Wijnands, R., Ootes, L., Page, D., Altamirano, D., **Degenaar, N.**, Brown, E.F., Cackett, E.M., Cumming, A., Deibel, A., Fridriksson, J.K., Lin, D., Linares, M., and Miller, J.M., 2017, ApJ Letters 851, L28
Different accretion heating of the neutron star crust during multiple outbursts in MAXI J0556–332
- Ludlam, R.M., Miller, J.M., **Degenaar, N.**, Sanna, A., Cackett, E.M., King, A.L., 2017, ApJ Letters 847, L135
Truncation of the Accretion Disk at One-third of the Eddington Limit in the Neutron Star Low-mass X-Ray Binary Aquila X-1
- Rouco Escorial, A., Nielsen Bak, A.S., Wijnands, R., **Degenaar, N.**, Cavecchi, Y., Patruno, A., 2017, MNRAS 472, 1802
The low luminosity behaviour of the 4U 0115+63 Be/X-ray transient
- Wijnands, R., Parikh, A., Altamirano, D., Homan, J., **Degenaar, N.**, 2017, MNRAS 472, 559
Rapid X-ray variability properties during the unusual very-hard state in neutron-star low-mass X-ray binaries
- Capellupo, D.M., Haggard, D., Choux, N., Bower, G.C., Cottom, B., **Degenaar, N.**, Dexter, J., Falcke, H., Fragile, C.P., Heinke, C.O., Law, C.J., Markoff, S., Neilsen, J., Ponti, G., Yusef-Zadeh, F., 2017, ApJ 845, 35
*Simultaneous monitoring of X-ray and radio variability in Sagittarius A**
- Shaw, A.W., Heinke, C.O., **Degenaar, N.**, Wijnands, R., Kaur, R., 2017, MNRAS 471, 2508
Near-infrared counterparts of three transient very faint neutron star X-ray binaries
- Gusinskaia, N., Hessels, J.W.T., Deller, A.T., **Degenaar, N.**, Miller-Jones, J.M.C., Wijnands, R., Parikh, A., 2017, MNRAS 470, 1871
Jet quenching of the neutron star low-mass X-ray binary 1RXS J180408.9–342058
- Tsygankov, S., Wijnands, R., Lutovinov, A., **Degenaar, N.**, Poutanen, J., 2017, MNRAS 470, 126
The X-ray properties of Be/X-ray pulsars in quiescence
- Parikh, A.S., Wijnands, R., **Degenaar, N.**, Altamirano, D., Patruno, A., Gusinskaia, N., Hessels, J.W.T., 2017, MNRAS 468, 3979
Very hard states in neutron star low-mass X-ray binaries
- Corrales, L.R., Mon, B., Haggard, D., Baganoff, F. K., Garmire, G., **Degenaar, N.**, Reynolds, M.T., 2017, ApJ 839, 76
The Chandra dust scattering halo of the Galactic center transient Swift J174540.7–290015
- Ponti, G., George, E., Scaringi, S., Zhang, S., Jin, C., Dexter, J., Terrier, R., Clavel, M., **Degenaar, N.**, Eisenhauer, F., Genzel, R., Gillessen, S., Goldwurm, A., Habibi, M., Haggard, D., Hailey, C., Harrison, F., Merloni, A., Mori, K., Morris, M.R., Nandra, K., Pfuhl, O., Plewa, P.M., Ott, T., Waisberg, I., 2017, MNRAS 468, 2447
A powerful flare from Sgr A confirms the synchrotron nature of the X-ray emission*
- Dexter, J., **Degenaar, N.**, Kerr, M.T., Deller, A., Deneva, J., Lazarus, P., Kramer, M., Champion, D., Karuppusamy, R., 2017, MNRAS 468, 1486
A transient, flat spectrum pulsar near the Galactic Center
- Parikh, A.S., Wijnands, R., **Degenaar, N.**, Ootes, L.S., Page, D., Altamirano, D., Cackett, E.M., Deller, A., Gusinskaia, N., Hessels, J., Homan, J., Linares, M., Miller, J.M., Miller-Jones, J., 2017, MNRAS 466, 4074
X-ray observations of the neutron star X-ray binary 1RXS J180408.9–342058 in quiescence
- Ludlam, R.M., Miller, J.M., Cackett, E.M., **Degenaar, N.**, Bostrom, A.C., Paerels, F., Harrison, F.A., 2017, ApJ, 838, 79
Relativistic disk reflection in the neutron star X-ray binary XTE J1709–267 with NuSTAR
- Ludlam, R.M., Miller, J.M., Bachetti, M., Barret, D., Bostrom, A.C., Cackett, E.M., Chakrabarty, D., **Degenaar, N.**, Di Salvo, T., Natalucci, L., Tomsick, J.A., Paerels, F., Parker, M.L., 2017, ApJ 836, 140
A hard look at the neutron stars and accretion disks in 4U 1636–53, GX 17+2, and 4U 1705–44 with NuSTAR
- Van den Eijnden, J., Bagnoli, T., **Degenaar, N.**, Lohfink, A.M., Parker, M., in 't Zand, J.M.M., Fabian, A.C., 2017, MNRAS Letters 466, L98
A strongly truncated inner accretion disk in the Rapid Burster
- Kaur, R., Wijnands, R., Kamble, A., Cackett, E. M., Kutulla, R., Kaplan, D., **Degenaar, N.**, 2017, MNRAS 464, 170
Searching for near-infrared counterparts of the faint neutron star X-ray transients XMMU J174716.1–281048 and SAX J1806.5–2215

- 2016 Merritt, R.L., Cackett, E.M., Brown, E.F., Page, D., Cumming, A., **Degenaar, N.**, Deibel, A., Homan, J., Miller, J.M., Wijnands, R., 2016, ApJ 833, 186
The thermal state of KS 1731–260 after 14.5 years in quiescence
- Wijnands, R., **Degenaar, N.**, 2016, MNRAS Letters 463, L46
Meta-stable low-level accretion rate states or neutron star crust cooling in the Be X-ray transients V0332+53 and 4U 0115+63?
- Ootes, L.S., Page, D., Wijnands, R., **Degenaar, N.**, 2016, MNRAS 461, 4400
Neutron star crust cooling in KS 1731–260: the influence of accretion outburst variability on the crustal temperature evolution
- Tetarenko, A., Bahramian, A., Tremou, E., Linares, M., Tudor, V., Miller-Jones, J.C.A., Heinke, C.O., Sivakoff, G., Chomiuk, L., Strader J., Altamirano, D., **Degenaar, N.**, Maccarone, T., Patruno, A., Sanna, S., Wijnands, R., 2016, MNRAS 460, 345
Disc-Jet Coupling in the Terzan 5 Neutron Star X-ray Binary EXO 1745–248
- Waterhouse, A.C., **Degenaar, N.**, Wijnands, R., Brown, E.F., Miller, J.M., Altamirano, D., Linares, M.L., 2016, MNRAS 456, 4001
Constraining the properties of neutron star crusts with the transient low-mass X-ray binary Aql X-1
- 2015 Wijnands, R., **Degenaar, N.**, Armas-Padilla, M., Altamirano D., Cavecchi, Y., Linares, M., Bahramian, A., Heinke, C.O., 2015, MNRAS 454, 1371
Low-level accretion in neutron-star X-ray binaries
- Ponti, G., De Marco, B., Morris, M.R., Merloni, A., Muñoz-Darias, T., Clavel, M., Haggard, D., Zhang, S., Nandra, K., Gillessen, S., Mori, K., Neilsen, J., Rea, N., **Degenaar, N.**, Terrier, R., Goldwurm, A., 2015, MNRAS 454, 1525
Fifteen years of XMM-Newton and Chandra monitoring of Sgr A: Evidence for a recent increase in the bright flaring rate*
- Bahramian, A., Heinke, C.O., **Degenaar, N.**, Chomiuk, L., Wijnands, R., Strader, J., Ho, W.C.G., Pooley, D., 2015, MNRAS 452, 3475
Limits on thermal variations in a dozen quiescent neutron stars over a decade
- Younes, G., Kouveliotou, C., Grefenstette, B.W., Tomsick, J.A., Tennant, A., Finger, M., Fürst, F., Pottschmidt, K., Bhallerio, V., Boggs, S.E., Chakrabarty, D., Christensen, F.E., Craig, W.W., **Degenaar, N.**, Ghandi, G., Göğüs, E., Hailey, C.J., Harrison, F.A., Kennea, J.A., Miller, J.M., Stern, D., Zhang, W.W., 2015, ApJ 804, 43
Simultaneous NuSTAR/Chandra observation of the bursting pulsar GRO J1744–28 during its third reactivation
- Heinke, C.O., Bahramian, A., **Degenaar, N.**, Wijnands, R., 2015, MNRAS 447, 3034
The nature of very faint X-ray binaries: hints from light curves
- Neilsen, J., Markoff, S., Nowak, M.A., Dexter, J., Witzel, G., Barrière, N., Li, Y., Baganoff, F.K., **Degenaar, N.**, Fragile, P.C., Gammie, C., Goldwurm, A., Grosso, N., Haggard, D., 2015, ApJ 799, 199
The X-ray flux distribution of Sagittarius A as seen by Chandra*
- Ponti, G., Bianchi, S., Munoz-Darias, T., DeMarco, B., Dwelly, T., Fender, R.P., Nandra, K., Rea, N., Mori, K., Haggard, D., Heinke, C.O., **Degenaar, N.**, Clavel, M., Goldwurm, A., Morris, M.R., Rushton, A., Terrier, R., 2015, MNRAS 446, 1536
On the Fe-K absorption – accretion state connection in the Galactic center neutron star X-ray binary AX J1745.6–2901
- 2014 Homan, J., Fridriksson J.K., Wijnands, R., Cackett, E.M., **Degenaar, N.**, Linares, M., Lin, D., Remillard R.A., 2014, ApJ 795, 131
A Strongly-heated neutron star in the transient Z-source MAXI J0556–332
- Armas Padilla, M., Wijnands, R., **Degenaar, N.**, Muñoz-Darias, T., Casares, J., Fender, R., 2014, MNRAS 444, 902
The very-faint black hole X-ray transient Swift J1357.2–0933 in quiescence
- Reynolds, M.T., Reis, R.C., Miller, J. M., Cackett, E.M., **Degenaar, N.**, 2014, MNRAS 441, 3656
The quiescent X-ray spectrum of accreting black holes

- Koch, E., W., Bahramian, A., Heinke, C.O., Mori, K., Rea, N., **Degenaar, N.**, Haggard, D., Wijnands, R., Ponti, G., Miller, J.M., Yusef-Zadeh, F., Dufour, F., Cotton, W.D., Baganoff, F., Reynolds, M., 2014, MNRAS 442, 372
*The 2013 outburst of a very faint neutron star transient X-ray binary, 23'' from Sgr A**
- Armas Padilla, M., Wijnands, R., Altamirano, D., Mendez, M., Miller, J. M., **Degenaar, N.**, 2014, MNRAS 439, 3908
An X-ray view of the very faint black hole X-ray transient Swift J1357.2–0933 during its 2011 outburst
- Bahramian, A., Heinke, C. O., Sivakoff, G. R., Altamirano, D., Wijnands, R., Homan, J., Linares, M., Pooley, D., **Degenaar, N.**, Gladstone, J. C., 2014, ApJ 780, 127
Discovery of the third transient X-ray binary in the Galactic globular cluster Terzan 5
- 2013 Miller, J. M., Raymond, J., Kallman, T. R., Maitra, D., Fabian, A. C., Proga, D., Reynolds, C. S., Reynolds, M. T., **Degenaar, N.**, King, A. L., Cackett, E.M., Kennea, J. A., Beardmore, A., 2013, ApJ 788, 53
Chandra spectroscopy of MAXI J1305–704: Detection of an infalling black hole disk wind?
- Campana, S., Brivio, F., **Degenaar, N.**, Mereghetti, S., Wijnands, R., D’Avanzo, P., Israel, G. L., Stella, L., 2013, MNRAS 441, 1984
The return to quiescence of Aql X-1 following the 2010 outburst
- Bernardini, F., Cackett, E. M., Brown, E. B., D’Angelo, C., **Degenaar, N.**, Miller, J. M., Reynolds, M. T., Wijnands, R., 2013, MNRAS, 436, 2465
Daily, multi-wavelength Swift monitoring of the neutron star low-mass X-ray binary Cen X-4: evidence for accretion and reprocessing during quiescence
- Reis, R. C., Reynolds, M. T., Miller, J. M., Walton, D. J., Maitra, D., King, A. L., **Degenaar, N.**, 2013, ApJ, 778, 155
Swift J1910.2–0546: A possible black hole binary with a retrograde spin or truncated disk
- Armas Padilla, M., Wijnands, R., **Degenaar, N.**, 2013, MNRAS Letters 436, L89
XMM-Newton and Swift spectroscopy of the newly discovered very-faint X-ray transient IGR J17494–3030
- Cao, Y., Kasliwal, M. M., Arcavi, I., Horesh, A., Hancock, P., Valenti, S., Cenko, B., Kulkarni, S. R., Gal-Yam, A., Gorbikov, E., Ofek, E. O., Sand, D., Yaron, O., Graham, M., Silverman, J. M., Wheeler, J. C., Marion, G. H., Walker, E., Mazzali, P., Howell, D. A., Bloom, J., Nugent, P. E., Surace, J., Masci, F., Carpenter, J., **Degenaar, N.**, Gelino, C., 2013, ApJ Letters, 775, L7
Discovery, progenitor and early evolution of a stripped envelope supernova iPTF13bvn
- Neilsen J., Nowak, M. A., Gammie, C., Nayakshin, S., Markoff, S. B., Dexter, J., Haggard, D., Yuan, F., Wang, D. Q., Grosso, N., Porquet, D., Tomsick, J., **Degenaar, N.**, Fragile, P. C., Houck, J. C., Davis, J., Wijnands, R., 2013, ApJ 774, 42
A Chandra/HETGS census of X-ray variability from Sgr A during 2012*
- Cackett, E.M., Brown, E. F., Cumming, A., **Degenaar, N.**, Fridriksson, J., Homan, J., Miller, J. M., Wijnands, R., 2013, ApJ 774, 131
A change in the quiescent X-ray spectrum of the neutron star low-mass X-ray binary MXB 1659–29
- Wijnands, R., **Degenaar, N.**, 2013, MNRAS 434, 1599
A low-level accretion flare during the quiescent state of the neutron-star X-ray transient SAX J1750.8–2900
- Armas Padilla, M., **Degenaar, N.**, Wijnands, R., 2013, MNRAS 434, 1586
The X-ray spectral properties of very-faint persistent neutron star X-ray binaries
- Cackett, E. M., Brown, E. F., **Degenaar, N.**, Miller, J. M., Reynolds, M., Wijnands, R., 2013, MNRAS 433, 1362
An X-ray-UV correlation in Cen X-4 during quiescence
- Wijnands, R., **Degenaar, N.**, Page, D., 2013, MNRAS 432, 2366
Testing the deep-crustal heating model using quiescent neutron star very-faint X-ray binaries and the possibility of hybrid crust in accreting neutron stars
- Kennea, J. A., Burrows, D. N., Kouveliotou, C., Palmer, D. M., Gogus, E., Kaneko, Y., Evans, P. A., **Degenaar, N.**, Reynolds, M., Miller, J. M., Wijnands, R., Mori, K., Gehrels, N., 2013, ApJ Letters 770, L24
*Swift Discovery of a New Soft Gamma Repeater, SGR J1745–29, near Sagittarius A**

- Armas Padilla, M., **Degenaar, N.**, Russell, D. M., Wijnands, R., 2013, MNRAS 428, 3083
Multi-wavelength spectral evolution during the 2011 outburst of the very faint X-ray transient Swift J1357.2–0933
- 2012 Altamirano, D., Keek, L., Cumming, A., Sivakoff, G. R., Heinke, C. O., Wijnands, R., **Degenaar, N.**, Homan, J., Pooley, D., 2012, MNRAS 426, 927
A superbust candidate in EXO 1745–248 as a challenge to thermonuclear ignition models
- Haskall, B., **Degenaar, N.**, Ho, W. C. G., 2012, MNRAS 424, 93
Constraining the physics of the r-mode instability in neutron stars with X-ray and UV observations
- 2011 Armas Padilla, M., **Degenaar, N.**, Patruno, A., Russell, D. M., Linares, M., Maccarone, T., Homan, J., Wijnands, R., 2011, MNRAS 417, 659
X-ray softening in the new X-ray transient XTE J1719–291 during its 2008 outburst decay
- Fridriksson, J. K., Homan, J., Wijnands, R., Cackett, E. M., Altamirano, D., Brown, E. F., **Degenaar, N.**, Méndez, M., Belloni, T. M., 2011, ApJ 736, 162
The Variable Quiescent X-Ray Emission of the Neutron Star Transient XTE J1701–462
- Chenevez, J., Altamirano, D., Galloway, D. K., in t Zand, J. J. M., Kuulkers, E., **Degenaar, N.**, Falanga, M., Del Monte, E., Evangelista, Y., Feroci, M., Costa, E., 2011, MNRAS 410, 179
Puzzling thermonuclear burst behavior from the transient low-mass X-ray binary IGR J17473–2721
- Altamirano, D., Cavecchi, Y., Patruno, A., Watts, A., Linares, M., **Degenaar, N.**, Kalamkar, M., van der Klis, M., Rea, N., Casella, P., Armas Padilla, M., Kaur, R., Yang, Y. J., Soleri, P., Wijnands, R., 2011, ApJ Letters 727, L18
Timing of the first eclipsing accretion-powered millisecond X-ray pulsar
- 2010 Cackett, E. M., Brown, E. F., Cumming, A., **Degenaar, N.**, Miller, J. M., Wijnands, R., 2010, ApJ Letters 722, L137
Continued cooling of the crust in the neutron star low-mass X-ray binary KS 1731–260
- Linares, M., Watts, A., Altamirano, D., Soleri, P., **Degenaar, N.**, Yang, Y., Wijnands, R., Casella, P., Homan, J., Chakrabarty, D., Rea, N., Armas-Padilla, M., Cavecchi, Y., Kalamkar, M., Kaur, R., Patruno, A., van der Klis, M., 2010, ApJ Letters 719, L84
The return of the bursts: Thermonuclear flashes from Circinus X-1
- Del Santo, M., Sidoli, L., Romano, P., Bazzano, A., Wijnands, R., **Degenaar, N.**, Mereghetti, S., 2010, MNRAS Letters 403, L89
Unveiling the hard X-ray spectrum from the 'burst-only' source SAX J1753.5–2349
- Fridriksson, J. K., Homan, J., Wijnands, R., Méndez, M., Cackett, E. M., Altamirano, D., Belloni, T. M., Brown, E. F., **Degenaar, N.**, Lewin, W. H. G., 2010, ApJ 714, 270
Rapid cooling of the neutron star in the quiescent super-Eddington transient XTE J1701–462
- Altamirano, D., Linares, M., Patruno, A., **Degenaar, N.**, Wijnands, R., Klein-Wolt, M., van der Klis, M., Markwardt, C., Swank, J., 2010, MNRAS 401, 223
Type I X-ray bursts, burst oscillations and kHz quasi-periodic oscillations in the neutron star system IGR J17191–2821
- Kaur, R., Wijnands, R., Paul, B., Patruno, A., **Degenaar, N.**, 2010, MNRAS 402, 2388
Near-infrared/optical identification of five low-luminosity X-ray pulsators
- 2009 Wiersema, K., Russell, D. M., **Degenaar, N.**, Klein-Wolt, M., Wijnands, R., Heinz, S., Read, A. M., Saxton, R. D., Tanvir, N. R., 2009, MNRAS Letters 397, L6
Discovery of a large and bright bow shock nebula associated with low-mass X-ray binary SAX J1712.6–3739
- Watts, A. L., Altamirano, D., Linares, M., Patruno, A., Casella, P., Cavecchi, Y., **Degenaar, N.**, Rea, N., Soleri, P., van der Klis, M., Wijnands, R., 2009, ApJ Letters 698, L174
Discovery of burst oscillations in the intermittent accretion-powered millisecond pulsar HETE J1900.1–2455
- Kaur, R., Wijnands, R., Patruno, A., Testa, V., Israel, G. L., **Degenaar, N.**, Paul, B., Kumar, B., 2009, MNRAS 394, 1597
Chandra and XMM-Newton observations of the low-luminosity X-ray pulsators SAX J1324.4–6200 and SAX J1452.8–5949

Linares, M., Watts, A. L., Wijnands, R., Soleri, P., **Degenaar, N.**, Curran, P. A., Starling, R. L. C., van der Klis, M., 2009, MNRAS Letters 392, L11

The Swift capture of a long X-ray burst from XTE J1701–407

2008 Cackett, E. M., Wijnands, R., Miller, J. M., Brown, E. F., **Degenaar, N.**, 2008, ApJ Letters 687, L87

Cooling of the crust in the neutron star low-mass X-ray binary MXB 1659–29

Conference Proceedings: First Author

3. **Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2014, IAUS 303, 315

The Galactic center X-ray transients AX J1745.6–2901 and GRS 1741–2853

2. **Degenaar, N.**, Wijnands, R., 2013, IAUS 290, 113

The transient neutron star X-ray binary KS 1741–291 in outburst and quiescence

1. **Degenaar, N.**, Wijnands, R., 2013, IAUS 291, 141

A peculiar thermonuclear X-ray burst from the accreting neutron star SAX J1810.8–2609

Conference Proceedings: Co-Author

2019 Kretschmar, P., Martinez-Núñez, S., Frst, F., Grinberg, V., Lomaeva, M., El Mellah, I., Manousakis, A., Sander, A.A.C., **Degenaar, N.**, van den Eijnden, J., 2019, proceedings of the 12th INTEGRAL conference ‘INTEGRAL looks AHEAD to Multimessenger astronomy’, arXiv:1905.08578

Vela X-1 as a laboratory for accretion in High-Mass X-ray Binaries

2014 Haskell, B., Andersson, N., D’Angelo, C., **Degenaar, N.**, Glampedakis, K., Ho, W.C.G., Lasky, P.D., Melatos, A., Oppenorth, M., Patruno, A., Priymak, M., 2014, proceedings of ‘Gravitational Waves Astrophysics: 3rd Session of the Sant Cugat Forum on Astrophysics, 2014’, ed. C.F. Sopuerta, arXiv:1407.8254

Gravitational waves from rapidly rotating neutron stars

Neilsen, J., Nowak, M.A., Gammie, C., Dexter, J., Markoff, S., Haggard, D., Nayakshin, S., Wang, Q.D., Grosso, N., Porquet, D., Tomsick, J.A., **Degenaar, N.**, Fragile, P.C., Houck, J.C., Wijnands, R., Miller, J.M., Baganoff, F.K., 2014, IAUS 303, 374

The 3 Ms Chandra campaign on Sgr A: a census of X-ray flaring activity from the Galactic center*

Bernardini, F., Cackett, E. M., Brown, E. F., D’Angelo, C., **Degenaar, N.**, Miller, J. M., Reynolds, M., Wijnands, R. 2014, proceedings of ‘Physics at the Magnetospheric Boundary’ held in Geneva, Switzerland. EPJ Web of Conferences, 64, ID06007, eds. E. Bozzo, P. Kretschmar, M. Audard, M. Falanga and C. Ferrigno

X-ray/UV correlation in the quiescent emission of Cen X-4, evidence of accretion and reprocessing

2009 Fridriksson, J.K., Homan, J., Wijnands, R., Méndez, M., Cackett, E.M., Altamirano, D., Belloni, T.M., Brown, E.F., **Degenaar, N.**, Lewin, W.H.G., 2009, proceedings of ‘Chandra’s First Decade of Discovery’ held in Boston, MA, USA, abstract 101, eds S. Wolk, A. Fruscione, and D. Swartz

Rapid Cooling of the Neutron Star in the Quiescent Super-Eddington Transient XTE J1701–462

White Papers: Co-Author

2025 Koss, M., et al., 2025, white paper for the AXIS satellite concept, 2025, arXiv:2511.00253

The Advanced X-ray Imaging Satellite Community Science Book

2024 Kupfer, T., Maccarone, T.J., Kosakowski, A., Geier, S., Hermes, J.J., **Degenaar, N.**, van Roestel, J., Schafferoth, V., Barlow, B., Pelisoli, I., Rivera Sandoval, L., Nelemans, G., 2024, Roman Galactic plane white paper

The high-cadence Roman Galactic plane survey

2023 Bahramian, A., **Degenaar, N.**, Heinke, C.O., Lam, C., Maccarone, T.J., Terry, S.K., 2023, Roman Core Community Survey white paper for Galactic Bulge Time Domain Survey

X-ray binaries, cataclysmic variables and transients in the Galactic bulge

2019 Steiner, J.F., et al. 2019, white paper for Astro2020 Decadal Survey, BAA 51, 3, 359

Accretion Physics with Fast X-ray Spectral Timing

Ray, P.S., et al. 2019, white paper for Astro2020 Decadal Survey, arXiv:1903.03035

STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years

in 't Zand, J.M.M., et al. 2019, SCPMA 62, 29506, arXiv:1812.04023

Observatory science with eXTP

Watts, A.L., et al., 2019, SCPMA 62, 29503, arXiv:1812.04021

Dense matter with eXTP

2017 Ghandi, P., **Degenaar, N.**, Done, C., Watson, M.G., 2017, A&G 58, 6, arXiv:1708.06364

Realising the full potential of X-ray astronomy in the UK

2015 Maccarone, T.J., Wijnands, R.A.D., **Degenaar, N.**, Archibald, A., Watts, A.L., Vaughan, S., Wynn, G., Kneivitt, G., Farr, W., Andersson, N., van der Klis, M., 2015, arXiv:1501.02769

Binary evolution with LOFT

in 't Zand, J.M.M., Altamirano, D., Ballantyne, D.R., Bhattacharyya, S., Brown, E.F., Cavecchi, Y., Chakrabarty, D., Chenevez, J., Cumming, A., **Degenaar, N.**, Falanga, M., Galloway, D.K., Heger, A., Jos, J., Keek, L., Linares, M., Mahmoodifar, S., Malone, M.C., Mndez, M., Miller, M.C., Paerels, F.B.S., Poutanen, J., Rzana, A., Schatz, H., Serino, M., Strohmayer, T.E. Suleimanov, V.F. Thielemann, F.-K., Watts, A.L., Weinberg, N.N., Woosley, S.E., Yu, W., Zhang, S., Zingale M., 2015, arXiv:1501.02776

The LOFT perspective on neutron star thermonuclear bursts

Non-refereed Publications: First Author

2026 **Degenaar, N.**, Reynolds, M., Wijnands, R., M.T., Miller, J.M., Kennea, J.A., 2026, ATel 17659

Swift/XRT observations of the Galactic center detect ongoing X-ray activity of the transient candidate black hole X-ray binary MAXI J1744–294

2025 **Degenaar, N.**, Reynolds, M., Wijnands, R., M.T., Miller, J.M., Kennea, J.A., 2025, ATel 17192

New outburst of the Galactic center transient Swift J174535.5–285921 seen with Swift/XRT

Degenaar, N., Homan, J., Cackett, E., Wijnands, R., Wolff, M.T., Buisson, D.J.K., 2025, ATel 17191

The neutron star LMXB EXO 0748–676 has returned to quiescence

2024 **Degenaar, N.**, Reynolds, M.T., Miller, J.M., Wijnands, R., J.M., Kennea, J.A., on behalf of a larger collaboration, 2024, ATel 16642

Swift/XRT captures a bright X-ray flare from the Galactic center

Degenaar, N., Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2024, ATel 16436

Swift X-ray monitoring observations of the Galactic center have resumed after Sun constraints

2021 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2021, ATel 14378

Swift resumes X-ray monitoring observations of the Galactic center after Sun constraints

2020 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2020, ATel 13839

Renewed activity of the Galactic center transient Swift J174535.5–285921 seen with Swift/XRT

Degenaar, N., Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2020, ATel 13683

Swift/XRT detects a new outburst of the Galactic Center transient GRS 1741.9–2853

Degenaar, N., Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2020, ATel 13453

Swift/XRT detects (continued) activity of the Galactic center transient AX J1745.6–2901

2019 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2019, ATel 13150

Swift/XRT detects a new outburst of the Galactic Center transient AX J1745.6–2901

Degenaar, N., Reynolds, M.T., Wijnands, R., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2019, ATel 12768

*Swift/XRT detects a bright X-ray flare from Sgr A**

2018 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2018, ATel 11263

Swift resumes X-ray monitoring observations of the Galactic center in 2018

- Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2018, ATel 11263
Swift resumes X-ray monitoring observations of the Galactic center in 2018
- 2017 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J., on behalf of a larger collaboration, 2017, ATel 10859
Swift/XRT detects a new accretion outburst of the Galactic center neutron star transient GRS 1741–2853
- Degenaar, N.**, Reynolds, M.T., Wijnands, R., Miller, J.M., Kennea, J., on behalf of a larger collaboration, 2017, ATel 10323
Swift/XRT detects renewed activity of the Galactic center transient AX J1745.6–2901
- Degenaar, N.**, Reynolds, M.T., Wijnands, R., Miller, J.M., Kennea, J., on behalf of a larger collaboration, 2017, ATel 10175
Swift/XRT detects renewed activity of the Galactic center transient CXOGC J174540.0–290005
- Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J., on behalf of a larger collaboration, 2017, ATel 10089
Swift resumes X-ray monitoring observations of the Galactic center in 2017
- 2016 **Degenaar, N.**, Wijnands, R., Reynolds, M., Miller, J.M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2016, ATel 9551
Swift/XRT detects renewed activity of the Galactic center transient XMM J174457–2850.3
- Degenaar, N.**, Wijnands, R., Reynolds, M., Miller, J.M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2016, ATel 9236
Swift/XRT detects renewed activity of the Galactic center X-ray transient Swift J174535.5–285921
- Degenaar, N.**, Reynolds, M., Wijnands, R., Miller, J.M., Kennea, J., Ponti, G., Haggard, D., Gehrels, N., on behalf of a larger collaboration, 2016, ATel 9196
Continued Swift/XRT observations of the new Galactic center transients Swift J174540.2–290037 and Swift J174540.7–290015
- Degenaar, N.**, Reynolds, M., Wijnands, R., Miller, J.M., Kennea, J., Ponti, G., Haggard, D., Gehrels, N., on behalf of a larger collaboration, 2016, ATel 9109
*Swift/XRT detection of another active X-ray transient close to Sgr A**
- Degenaar, N.**, Wijnands, R., Reynolds, M., Miller, J.M., Kennea, J., Gehrels, N., Ponti, G., Haggard, D., on behalf of a larger collaboration, 2016, ATel 8881
Swift/XRT detects renewed activity of the Galactic center transient GRS 1741–2853
- 2015 **Degenaar, N.**, Altamirano, D., Deller, A., Heinke, C., Hessels, J., Jaodand, A., Miller-Jones, J., Moldon, J., Wijnands, R., 2015, ATel 7352
The neutron star LMXB 1RXS J180408.9–342058 transitioned to a soft X-ray state
- Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2015, ATel 7023
Swift resumes X-ray monitoring observations of the Galactic center
- 2014 **Degenaar, N.**, Reynolds, M. T., Miller, J. M., Kennea, J., Wijnands, R., Haggard, D., on behalf of a larger collaboration, 2014, ATel 6458
No sustained enhanced X-ray emission near the Galactic center
- Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., Haggard, D., Ponti, G., on behalf of a larger collaboration, 2014, ATel 5861
Continued Swift/XRT monitoring observations of the Galactic center
- Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., Haggard, D., Ponti, G., on behalf of a larger collaboration, 2014, ATel 5847
Swift/XRT monitoring observations of the Galactic center have resumed
- 2013 **Degenaar, N.**, Reynolds, M. T., Miller, J. M., Wijnands, R., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2013, ATel 5246
Swift/XRT detects activity of the Galactic center transient GRS 1741–2853

- Degenaar, N.**, Kennea, J., Wijnands, R., Reynolds, M. T., Miller, J. M., Gehrels, N., on behalf of a larger collaboration, 2013, ATel 5226
New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6–2901
- Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2013, ATel 5222
Swift/XRT monitoring observations detect an active X-ray transient near the Galactic center
- Degenaar, N.**, Wijnands, R., 2013, ATel 5117
Swift observations confirm renewed activity of the transient neutron star X-ray binary Aql X-1
- Degenaar, N.**, Wijnands, R., Reynolds, M. T., Miller, J. M., Kennea, J., Gehrels, N., on behalf of a larger collaboration, 2013, ATel 5074
Swift/XRT detection of an active X-ray transient near the Galactic center
- Degenaar, N.**, Reynolds, M. T., Miller, J. M., Kennea, J., Wijnands, R., 2013, ATel 5006
Large flare from Sgr A detected by Swift*
- 2012 **Degenaar, N.**, Kennea, J. A., Wijnands, R., Miller, J. M., Gehrels, N., 2012, ATel 4308
The galactic center X-ray transient XMM J174457–2850.3 is a neutron star low-mass X-ray binary
- Degenaar, N.**, Wijnands, R., Kennea, J. A., Miller, J. M., Gehrels, N., 2012, ATel 4305
Renewed activity of the galactic center X-ray transient XMM J174457–2850.3 detected with Swift/XRT
- Degenaar, N.**, Altamirano, D., Wijnands, R., 2012, ATel 4219
IGR J17062–6143 is likely a bursting neutron star low-mass X-ray binary
- 2011 **Degenaar, N.**, Yang, Y.J., Wijnands, R., 2011, ATel 3741
Swift detection of a type-I X-ray burst from Swift J1922.7–1716
- Degenaar, N.**, Wijnands, R., Altamirano, D., Cackett, E., Linares, M., Homan, J., Fridriksson, J., 2011, ATel 3654
X-ray re-brightening detected from the neutron star transient XTE J1701–407
- Degenaar, N.**, Wijnands, R., Altamirano, D., Cackett, E., Linares, M., Homan, J., Fridriksson, J., 2011, ATel 3604
The neutron star transient XTE J1701–407 has returned to quiescence after a 3-year long outburst
- Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2011, ATel 3508
The Galactic center transient Swift J174535.5–285921 has returned to quiescence
- Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2011, ATel 3472
Swift/XRT discovers a new X-ray transient near the Galactic center: Swift J174535.5–285921
- Degenaar, N.**, Altamirano, D., Armas Padilla, M., Kaur, R., Wijnands, R., Yang, Y. J., 2011, ATel 3202
Swift/XRT localization of the neutron star X-ray transient SAX J1806.5–2215
- 2010 **Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2010, ATel 2770
Swift/XRT detects new outbursts of the galactic center X-ray transients GRS 1741–2853 and XMM J174457–2850.3
- Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2010, ATel 2690
Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6–2901
- 2008 **Degenaar, N.**, Wijnands, R., 2008, ATel 1831
Swift/XRT observations of SAX J1828.5–1037 in outburst
- Degenaar, N.**, Wijnands, R., 2008, ATel 1809
Swift/XRT localization of the X-ray burster SAX J1753.5–2349
- Degenaar, N.**, Wijnands, R., 2008, ATel 1572
Swift/XRT follow-up observation of the new X-ray source XTE J1701–407
- Degenaar, N.**, Wijnands, R., 2008, ATel 1541
Swift/XRT observations of the X-ray transients KS1741–293 and XTE J1719–291
- Degenaar, N.**, Wijnands, R., Munro, M., 2008, ATel 1531
Chandra detects activity from the Galactic X-ray transients KS 1741–293, Swift J174535.5–290135.6 and CX-OGC J174535.5–290124

Degenaar, N., Altamirano, D., Wijnands, R., 2008, ATel 1467

Re-brightening of XTE J1719–291

Degenaar, N., Altamirano, D., Klein-Wolt, M., Wijnands, R., 2008, ATel 1451

Swift/XRT follow-up observation of the field of XTE J1719–291

2007 **Degenaar, N.**, Klein-Wolt, M., Wijnands, R., 2007, ATel 1175

Swift/XRT observations of the neutron-star X-ray transient SAX J1810.8–2609

Degenaar, N., Krauss, M., Maitra, D., Wijnands, R., Jonker, P., Juett, A., Markwardt, C., Bailyn, C., Chakrabarty, D., 2007, ATel 1136

Chandra position and possible IR counterpart for the very-faint X-ray transient XMMU J174716.1–281048

Degenaar, N., Campana, S., Galloway, D., Lewin, W., Homan, J., Chakrabarty, D., Morgan, E., Jonker, P., Cackett, E., Miller, J., Wijnands, R., 2007, ATel 1106

Increased flux of HETE J1900.1–2455 detected with both Swift/XRT and RXTE/PCA

Degenaar, N., Wijnands, R., Campana, S., Galloway, D., Lewin, W., Homan, J., Chakrabarty, D., Jonker, P., Cackett, E., Miller, J., 2007, ATel 1098

Swift/XRT non-detection of HETE J1900.1–2455

Degenaar, N., Wijnands, R., Galloway, D., Lewin, W., Homan, J., Chakrabarty, D., Campana, S., Miller, J., Cackett, E., 2007, ATel 1091

Continuing flux decay of HETE J1900.1–2455 as observed with Swift/XRT

Degenaar, N., Wijnands, R., 2007, ATel 1078

Swift/XRT observations of the very-faint X-ray transient XMMU J174716.1–281048

Non-refereed Publications: Co-author

2026 Mandel, S., Mori, K., Hua, Z., Reynolds, M., **Degenaar, N.**, Marra, L., Parra, M., Draghis, P., 2026, ATel 17663
Determination of MAXI J1744–294 as a repeat outburst of the 2016 transient Swift J174540.2–290037

2025 Mandel, S., Levin, B., Mori, K., Hailey, C., Bachetti, M., **Degenaar, N.**, Draghis, P., Grindlay, J., Hong, J., Nynka, M., Parra, M., Ponti, G., Reynolds, M., Shidatsu, M., Tomsick, J., Wijnands, R., 2025, ATel 17087
Chandra position of the new Galactic center transient MAXI J1744–294

Mandel, S., Mori, K., Hailey, C., Bachetti, M., **Degenaar, N.**, Draghis, P., Grindlay, J., Hong, J., Ponti, G., Reynolds, M., Tomsick, J., Wijnands, R., Fukushima, K., Hayashi, K., Kanemaru, Y., Ogawa, S., Yoshida, T., Iizuka, R., Baluta, C., Terada, Y., Costantini, E., Guainazzi, M., Kelley, R., Matsushita, K., Petre, R., Williams, B., Yamaguchi, H., Watanabe, S., Tashiro, M., 2025, ATel 17063

XRISM follow-up observation of a new transient MAXI J1744–294 at the Galactic central region

Russell, T., Eijnden, J. van den, **Degenaar, N.**, Carotenuto, F., Tetarenko, A. J., Maccarone, T., 2025, ATel 17037

ATCA radio detection of the new outburst from the neutron star X-ray binary 4U 1608–52 (QX Nor)

Mandel, S., Mori, K., Hailey, C., Bachetti, M., **Degenaar, N.**, Draghis, P., Grindlay, J., Hong, J., Ponti, G., Reynolds, M., Tomsick, J., Wijnands, R., 2025, ATel 17031

NuSTAR follow-up observation of the new Galactic center transient MAXI J1744–294

Heinke, C.O., Nakajima, M., Kudo, Y., Negoro, H., Bahramian, A., Miller-Jones, J., **Degenaar, N.**, Maccarone, T., Yusef-Zadeh, F., Sivakoff, G. R., Ridder, M., 2025, ATel 17010

*Swift/XRT position of MAXI J1744–294 near Sgr A**

2024 Russell, T.D., Fijma, S., **Degenaar, N.**, Kuulkers, E., Sanchez-Fernandez, C., Del Santo, M., Tetarenko, A., Diaz-Trigo, M., Maccarone, T., Miller-Jones, J.C.A., 2024, ATel 16823

VLA detection of Aql X-1 during its new outburst

Rout, S.K., Alabarta, K., Russell, D.M., Bramich, D.M., Saikia, P., Baglio, M.C., Homan, J., Lewis, F., Russell, T., **Degenaar, N.**, Fijma, S., 2024, ATel 16822

LCO detects new outburst from Aql X-1

Reynolds, M., Miller, J., **Degenaar, N.**, Wijnands, R., Kennea, J., 2024, ATel 16785

X-ray flare from the Galactic Center detected by Swift/XRT

- Russell, T.D., Carotenuto, F., Eijnden, J. van den, Kuulkers, E., Sanchez-Fernandez, C., **Degenaar, N.**, Fijma, S., Maccarone, T., Miller-Jones, J.C.A., Tetarenko, A. J., Marino, A., Del Santo, M., Gusinskaia, N., 2024, ATel 16511
ATCA radio detection of the transient millisecond X-ray pulsar SRGA J144459.2–604207 at the updated X-ray position from Chandra
- Reynolds, M., **Degenaar, N.**, Wijnands, R., Miller, J., Kennea, J., 2024, ATel 16481
Swift GC monitoring program detection of low luminosity outburst a new source: Swift J174610–290018
- Russell, D.M., Baglio, M.C., **Degenaar, N.**, Alabarta, K., Armas Padilla, M., Bahramian, A., Campana, S., Covino, S., D’Avanzo, P., Fijma, S., Goldoni, P., Lewis, F., Maccarone, T., Masetti, N., Miller-Jones, J. C. A., Muñoz-Darias, T., Rout, S., Russell, T. D., Saikia, P., Shaw, A., Sivakoff, G. R., Stoop, M., van den Eijnden, J., Wijnands, R., 2024, ATel 16461
Optical confirmation of the outburst of Swift J1922.7–1716 observed with LCO and REM
- 2023 Heinke, C.O., **Degenaar, N.**, 2023, ATel 16358
The accreting millisecond pulsar LMXB MAXI J0911–655/Swift J0911.9–6452 appears to be returning to quiescence
- Reynolds, M., **Degenaar, N.**, Wijnands, R., Miller, J., Kennea, J., 2023, ATel 16134
X-ray Flare from Galactic Center Detected by Swift
- Reynolds, M., Wijnands, R., **Degenaar, N.**, Miller, J., Kennea, J., 2023, ATel 16106
Re-brightening of Galactic Center X-ray Transient AX J1745.6–2901
- van den Eijnden, J., Russell, T., Miller-Jones, J., Degenaar, N., Wijnands, R., Sivakoff, G., Rouco Escorial, A., Hernandez Santisteban, J.V., 2023, ATel 16101
Radio detection of the 2023 outburst of Be/X-ray binary Swift J0243.6+6124
- Homan, J., Gendreau, K., Arzoumanian, Z., **Degenaar, N.**, Wijnands, R., Page, D., Remillard, R., Lin, D., Chakrabarty, D., Guillot, S., Sanna, A., 2013, ATel 15959
NICER, Swift, and NuSTAR observations of a rapid decay in XTE J1701–462
- 2022 Beri, A., Altamirano, D., Wijnands, R., **Degenaar, N.**, Yamaoka, K., 2022, ATel 15446
Swift Observations of MAXI J1957+032 during its 2022 outburst
- Reynolds, M., Wijnands, R., **Degenaar, N.**, Miller, J., Kennea, J., 2022, ATel 15238
Swift GC monitoring program detection of a new outburst from the faint X-ray transient CXOGC J174538.0–290022
- 2021 Beri, A., Tetarenko, B. Bellm, E.C., Sivakoff, G.R., Bahramian, A., Homan, J. Wijnands, R., Schmeer, P. Tetarenko, A.J., Saikia, P., Baglio, M.C., Russell, D.M., Caruso, E., Paice, J.A., Altamirano, D., **Degenaar, N.**, Russell, T.D., Williams, D., Fender, R., Middleton, M., Shaw, A., Plotkin, R., Hernández Santisteban, J.V., ATel 14573
Swift J1357.2–0933 as observed with Swift during its 2021 outburst
- 2020 van den Eijnden, J., Degenaar, N., Wijnands, R., Russell, T. D., Sivakoff, G. R., Miller-Jones, J. C. A., Rouco Escorial, A., Hernández Santisteban, J., Reynolds, M., 2020, ATel 14193
VLA detection of the radio counterpart of the BeXRB 1A 0535+262
- van den Eijnden, J., Degenaar, N., Wijnands, R., Russell, T. D., Stoop, M., Armas Padilla, M., Russell, D. M., Maitra, D., Heinke, C. O., Sivakoff, G. R., Shaw, A. W., Maccarone, T. J., Miller-Jones, J. C. A., Bahramian, A., 2020, ATel 14129
VLA detection of a likely radio counterpart of IGR J17494–3030
- Gusinskaia, N. V., Hessels, J. W. T., Jaodand, A. D., Miller-Jones, J. C. A., Degenaar, N., Deller, A. T., Russell, T. D., Bogdanov, S., 2020, ATel 14061
VLA radio non-detection of IGR J17379–3747 as the X-ray flux drops
- van den Eijnden, J., Degenaar, N., Wijnands, R., Russell, T., Stoop, M., Armas Padilla, M., Russell, D. M., Maitra, D., Heinke, C. O., Sivakoff, G. R., Shaw, A. W., Maccarone, T. J., Miller-Jones, J. C. A., Bahramian, A., 2020, ATel 13716
VLA radio detection of the new X-ray transient SRGt J071522.1–191609
- 2019 Domček, V., van den Eijnden, J., Rouco Escorial, A., Hernández Santisteban, J., **Degenaar, N.**, Wijnands, R., Parikh, A.S., Zhou, P., Vink, J., 2019, ATel 13215 *Serendipitous detection of a new outburst of the HMXB IGR J19294+1816 with XMM-Newton*

- Reynolds, M.T., **Degenaar, N.**, Wijnands, R., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2019, ATel 12927 *New Galactic Center X-ray Transient Outburst Detected by Swift: SWIFT J174448.4–290729*
- Heinke, C.O., Bahramian, A., Wijnands, R., Maccarone, T.J., **Degenaar, N.**, in 't Zand, J.J.M., T.D., Kennea, J.A., Kuulkers, E., Rivera-Sandoval, L., Shaw, A.W., Sivakoff, G.R., Strader, J., Tetarenko, A.J., 2019, ATel 12843 *Swift Bulge Survey: X-ray activity of bursters KS 1741–293, IGR J17445–2747, SAX J1750.8–2900, and symbiotic X-ray binary XMMU J174445.5–295044*
- Beri, A., Wijnands, R., Russell, T.D., **Degenaar, N.**, van den Eijnden, J., Gandhi, P., Paice, J. A., Altamirano, D., Armas Padilla, M., 2019, ATel 12861 *Swift Observation during the 2019 outburst of Swift J1357.2–0933*
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Wijnands, R., Hernández Santisteban, J.V., Russell, D.M., Maitra, D., Heinke, C.O., Sivakoff, G.R., Shaw, A.W., Maccarone, T.J., Miller-Jones, J.C.A., Bahramian, A., Armas Padilla, M., 2019, ATel 12669 *VLA radio detection of the very-faint X-ray transient IGR J17285–2922*
- Armas Padilla, M., van den Eijnden, J., **Degenaar, N.**, Wijnands, R., 2019, ATel 12651 *Swift/XRT detection of the very faint X-ray binary transient IGR J17285–2922*
- van den Eijnden, J., Ludlam, R., Homan, J., Gendreau, K.C., Arzoumanian, Z., Altamirano, D., Steiner, J., Remillard, R., **Degenaar, N.**, Russell, T.D., Uttley, P., Stevens, A.L., Miller, J.M., 2019, ATel 12440 *NICER Observes Transition to the Intermediate State in MAXI J1631–479*
- Russell, T.D., Anderson, G., Miller-Jones, J., **Degenaar, N.**, van den Eijnden, J., Sivakoff, G.R., Tetarenko, A., 2019, ATel 12456 *ATCA detects the radio brightening of the X-ray transient MAXI J1348–630*
- Russell, T.D., van den Eijnden, J., **Degenaar, N.**, 2019, ATel 12396 *ATCA radio detection of the new X-ray transient MAXI J1631–478*
- 2018 Shaw, A.S., **Degenaar, N.**, Heinke, C.O., 2018, ATel 11970 *Detection of the NIR counterpart of the accreting millisecond pulsar IGR J17591–2342*
- Russell, T.D., **Degenaar, N.**, Wijnands, R., van den Eijnden, J., 2018, ATel 11954 *ATCA radio detection of the new X-ray transient IGR J17591–2342 suggests a black hole candidate*
- Parikh, A.S., Wijnands, R., **Degenaar, N.**, Altamirano, D., 2018, ATel 11869 *Black hole candidate GRS 1739-278 is exhibiting an unusual, long-duration quasi-steady hard state*
- Bahramian, A., Heinke, C., **Degenaar, N.**, Homan, J., Sivakoff, G., Miller-Jones, J.M., 2018, ATel 11747 *A new outburst from the Rapid Burster*
- Homan, J., van den Berg, M., Heinke, C.O., **Degenaar, N.**, van den Eijnden, J., Bahramian, A., Pooley, D., Gendreau, K., Arzoumanian, Z., 2018, ATel 11598 *Discovery of a new X-ray transient in the globular cluster Liller 1*
- Rouco Escorial, A., **Degenaar, N.**, van den Eijnden, J., Wijnands, R., 2018, ATel 11517 *X-ray rebrightening of the Be/X-ray transient Swift J0243.6+6124*
- van den Eijnden, J., **Degenaar, N.**, Russell, T., Wijnands, R., Hernández Santisteban, J. V., Russell, D. M., Maitra, D., Heinke, C., Sivakoff, G., Maccarone, T., Miller-Jones, J., Armas Padilla, M., Bahramian, A., 2018, ATel 11487 *VLA radio detection of the very-faint X-ray transient IGR J17379–3747*
- Reynolds, M.T., Kennea, J.A., Miller, J.M., **Degenaar, N.**, Wijnands, R., on behalf of a larger collaboration, 2018, ATel 11313 *X-ray flare from Galactic Center detected by Swift*
- 2017 van den Eijnden, J., **Degenaar, N.**, Russell, T., Wijnands, R., Hernández Santisteban, J. V., Sivakoff, G., Heinke, C., Miller-Jones, J., Bahramian, A., Maccarone, T., Kennea, J. A., Knigge, C., 2017, ATel 10946 *VLA radio detection of the newly discovered transient and super-Eddington X-ray pulsar Swift J0243.6+6124*
- Tetarenko, A.J., Bahramian, A., Sivakoff, G.R., Heinke, C.O., Wijnands, R., **Degenaar, N.**, Miller-Jones, J.C.A., Kuulkers, E., Plotkin, R., Chomiuk, L., Strader, J., Tremou, E., Kennea, J.A., Altamirano, D., in 't Zand, J.M.M., Deller, A., Maccarone, T.J., 2017, ATel 10843 *Radio Non-Detection of the Currently Outbursting Transient Source in NGC 6440*
- Bahramian, A., Kennea, J.A., Altamirano, D., Beri, A., Heinke, C.O., Sivakoff, G.R., Tetarenko, A.J., Wijnands, R., **Degenaar, N.**, 2017, ATel 10826 *Swift Confirmation of new transient activity in NGC 6440*

- Bahramian, A., Strader, J., Heinke, C.O., Sivakoff, G.R., Kennea, J.A., **Degenaar, N.**, Wijnands, R., 2017, ATel 10685
Optical Spectroscopy of IGR J17329–2731 with SOAR: A Symbiotic Binary?
- Parikh, A., Wijnands, R., **Degenaar, N.**, Altamirano, D., 2017, ATel 10612
Swift J181723.1–164300 is likely a new bursting neutron star low-mass X-ray binary
- Maccarone, T.J., Bahramian, A., Heinke, C.O., Shaw, A.W., Sivakoff, G.R., Kennea, J.A., Wijnands, R., **Degenaar, N.**, Strader, J., in 't Zand, J.J.M., Kuulkers, E., Chakrabarty, D., 2017, ATel 10428
Chandra follow-up of Swift J1752339–290952
- Tetarenko, A.J., Sivakoff, G.R., Heinke, C.O., Shaw, A.W., Bahramian, A., Strader, J., Kennea, J.A., Maccarone, T.J., Wijnands, R., **Degenaar, N.**, in 't Zand, J.J.M., Kuulkers, E., 2017, ATel 10422
Radio non-detection of the new Swift Bulge Survey transient Swift J175233.9–290952
- Maccarone, T.J., Bahramian, A., Heinke, C.O., Shaw, A.W., Sivakoff, G.R., Kennea, J.A., Wijnands, R., **Degenaar, N.**, Strader, J., in 't Zand, J.J.M., Kuulkers, E., 2017, ATel 10419
Variability from ISXPS J1742150–291453: a very nearby X-ray source?
- Bahramian, A., Heinke, C.O., Shaw, A.W., Strader, J., Kennea, J.A., Sivakoff, G.R., Wijnands, R., Maccarone, T.J., Kuulkers, E., in 't Zand, J.J.M., **Degenaar, N.**, 2017, ATel 10355
Discovery of a new X-ray transient, Swift J175233.9–290952, in the Swift Bulge Survey
- Shaw, A.W., Heinke, C.O., Sivakoff, G.R., Bahramian, A., Strader, J., Maccarone, T.J., Kennea, J.A., Kuulkers, E., in 't Zand, J.J.M., Wijnands, R., **Degenaar, N.**, 2017, ATel 10305
NIR follow-up observations of the IGR J17445–2747 field
- Kennea, J.A., Heinke, C.O., Bahramian, A., Maccarone, T.J., in 't Zand, J.J.M., Kuulkers, E., **Degenaar, N.**, Shaw, A.W., Sivakoff, G.R., Strader, J., Wijnands, R., 2017, ATel 10273
IGR J17445–2747: Updated Swift position
- Heinke, C.O., Bahramian, A., Maccarone, T., in 't Zand, J., Kennea, J.A., Kuulkers, E., **Degenaar, N.**, Shaw, A.W., Sivakoff, G.R., Strader, J., Wijnands, R., 2017, ATel 10265
Activity of IGR J17445–2747 and SAX J1747.0–2853 in the Swift Bulge Survey
- Armas Padilla, M., Wijnands, R., **Degenaar, N.**, Muñoz-Darias, T., Mata Sanchez, D., Casares J., Charles, P.A., 2017, ATel 10224
MAXI J1807+132 is fading in both X-rays and optical wavelengths
- Parikh, A., Wijnands, R., Bahramian, A., **Degenaar, N.**, Heinke, C., 2017, ATel 10169
The neutron-star low-mass X-ray binary H 1658–298 back in quiescence
- Russell, T., **Degenaar, N.**, Miller-Jones, J., Tudor, V., 2017, ATel 10106
Radio luminosity upper limits of the transient neutron star low-mass X-ray binary GRO J1744–28
- 2016 Wijnands, R., Bahramian, A., Altamirano, D., Sivakoff, G., Heinke, C.O., **Degenaar, N.**, 2016, ATel 8982
A sub-luminous outburst of a transient in the Galactic globular cluster Terzan 5, possibly due to EXO 1745–248 (aka Terzan 5 X-1)
- Tetarenko, A., Sivakoff, G.R., Bahramian, A., Heinke, C.O., Miller-Jones, J.C.A., Maccarone, T., **Degenaar, N.**, Wijnands, R., 2016, ATel 8744
VLA observations indicate GRS 1736–297 is either a black hole X-ray binary or accreting millisecond pulsar
- Bahramian, A., Heinke, C.O., Wijnands, R., **Degenaar, N.**, 2016, ATel 8699
Continuing outburst from H 1658–298
- Reynolds, M., Kennea, J., **Degenaar, N.**, Wijnands, R., Miller, J., 2016, ATel 8649
New Galactic Center X-ray Transient Detected by Swift: SWIFT J174540.7–290015
- 2015 Heinke, C.O., Bahramian, A., Kennea, J., Wijnands, R., **Degenaar, N.**, 2015, ATel 8189
Swift/XRT imaging finds no new transient near MAXI reported burst position
- Bahramian, A., Heinke, C.O., Wijnands, R., **Degenaar, N.**, Ponti, G., 2015, ATel 8046
Swift follow-up observations of outburst from H 1658–298
- Tremou, E., Sivakoff, G., Bahramian, A., Heinke, C., Tetarenko, A., Wijnands, R., **Degenaar, N.**, Linares, M., Miller-Jones, J., Patruno, A., Chomiuk, L., Strader, J., Altamirano, D., Maccarone, T., Sanna, A., 2015, ATel 7262
VLA observations identify the currently active source in Terzan 5 as the neutron star transient EXO 1745–248

- Deller, A., **Degenaar, N.**, Hessels, J., Heinke, C., Jaodand, A., Miller-Jones, J., Moldon, J., Wijnands, R., Altamirano, D., 2015, ATel 7255
Radio detection of the transient neutron star LMXB 1RXS J180408.9–342058
- Linares, M., Chakrabarty, D., Marshall H., Bahramian, A., Heinke, C., Sivakoff, G., Altamirano, D., Patruno, A., Wijnands, R., **Degenaar, N.**, Sanna, A., 2015, ATel 7247
Swift refined location points to the neutron star transient EXO 1745–248 as the source currently active in Terzan 5
- Bahramian, A., Altamirano, D., Heinke, C., Sivakoff, G., Linares, M., Patruno, A., Wijnands, R., **Degenaar, N.**, Sanna, A., 2015, ATel 7242
Swift/XRT follow up of the X-ray transient in the globular cluster Terzan 5
- Altamirano, D., Krimm, H.A., Patruno, A., Bahramian, A., Heinke, C.O., Wijnands, R., **Degenaar, N.**, 2015, ATel 7240
Swift/BAT detects an outburst from an X-ray transient in the globular cluster Terzan 5
- 2014 Reynolds, M. T., **Degenaar, N.**, Miller, J. M., Kennea, J., Wijnands, R., on behalf of a larger collaboration, 2014, ATel 6456
X-ray flare from the Galactic center detected by Swift
- 2013 Kasliwal, M. M., **Degenaar, N.**, Polishook, D., 2013, ATel 5151
FIRE Classification of iPTF13bvn
- Kennea, J. A., Burrows, D. N., Cummings, J., Kouveliotou, C., **Degenaar, N.**, Reynolds, M. T., Miller, J. M., Wijnands, R., 2013, ATel 5124
Swift/BAT detection of a burst from SGR J1745–29
- Reynolds, M. T., **Degenaar, N.**, Miller, J. M., Kennea, J., Wijnands, R., on behalf of a larger collaboration, 2013, ATel 5016
Continued Swift monitoring of the Galactic center flare
- 2012 King, A. L., Miller, J. M., **Degenaar, N.**, Reynolds, M., Reis, R., Maitra, D., 2012, ATel 4295
New radio detection of MAXI J1910–057 in hard-state transition
- Miller, J. M., Raymond, J., Kennea, J., Beardmore, A., Reynolds, M. T., Maitra, D., **Degenaar, N.**, Cackett, E. M., Fabian, A. C., Reynolds, C. S., 2012, ATel 4191
Chandra Spectroscopy of MAXI J1305–704
- Kennea, J., Miller, J. M., Beardmore, A., **Degenaar, N.**, Reynolds, M. T., 2012, ATel 4071
MAXI J1305–704 may be an eclipsing source
- Del Santo, M., Romano, P., Ferrigno, C., Sidoli, L., Mereghetti, S., Wijnands, R., Bozzo, E., Tarana, A., Nucita, A., **Degenaar, N.**, Kuulkers, E., 2012, ATel 4017
New INTEGRAL and Swift observations of the faint neutron-star X-ray transient SAX J1806.5–2215
- 2011 Kaur, R., Wijnands, R., Heinke, C., **Degenaar, N.**, 2011, ATel 3926
New Swift/XRT observation shows faint X-ray transient SAX J1806.5–2215 remains active 1 year after outburst
- Pooley, D., Homan, J., Altamirano, D., **Degenaar, N.**, Heinke, C.O., Lewin, W., Sivakoff, G.R., Wijnands, R., 2011, ATel 3743
Chandra Identification of the 2011 Transient in Terzan 5: Same as the 2000 Transient
- Altamirano, D., **Degenaar, N.**, Heinke, C. O., Homan, J., Pooley, D., Sivakoff, G. R., Wijnands, R., 2011, ATel 3720
Swift and RXTE follow up observations of the transient currently active in the globular cluster Terzan 5
- Altamirano, D., **Degenaar, N.**, Heinke, C. O., Homan, J., Pooley, D., Sivakoff, G. R., Wijnands, R., 2011, ATel 3714
New X-ray transient outburst in Terzan 5
- Linares, M., Bozzo, E., Altamirano, D., **Degenaar, N.**, Wijnands, R., Soleri, P., Belloni, T., Di Salvo, T., D’Ai, A., Papitto, A., Riggio, A., Burderi, L., 2011, ATel 3661
Swift observations of the accreting millisecond pulsar IGR J17498–2921: from outburst to quiescence
- Wijnands, R., Yang, Y. J., **Degenaar, N.**, Altamirano, D., Tudose, V., Heinke, C. O., 2011, ATel 3595
The transient IGR J17361–4441 in the globular cluster NGC 6388: an unusual very-faint transient X-ray binary or an outburst from an intermediate-mass black hole

Linares, M., Altamirano, D., Watts, A., Strohmayer, T., Chakrabarty, D., Patruno, A., van der Klis, M., Wijnands, R., Casella, P., Armas-Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Yang, Y., Rea, N., 2011, ATel 3568

RXTE detection of a thermonuclear burst from IGR J17498–2921: distance estimate and burst oscillations

Altamirano, D., Kalamkar, M., Yang, Y., **Degenaar, N.**, Wijnands, R., Casella, P., Linares, M., Rea, N., Watts, A., Patruno, A., Armas-Padilla, M., Cavecchi, Y., van der Klis, M., 2011, ATel 3334

Discovery of 1 Hz quasi-periodic oscillations in an RXTE observation of MAXI J1543–564

Kaur, R., Kotulla, R., **Degenaar, N.**, Wijnands, R., Kaplan, D., 2011, ATel 3268

Candidate near-infrared counterpart to the faint transient neutron star X-ray binary SAX J1806.5–2215

Altamirano, D., Linares, M., van der Klis, M., Wijnands, R., Kalamkar, M., Casella, P., Watts, A., Patruno, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kaur, R., Yang, Y., Rea, N., 2011, ATel 3225

Discovery of 10 mHz quasi-periodic oscillations likely from IGR J17091–3624

Linares, M., Altamirano, D., Watts, A., van der Klis, M., Wijnands, R., Patruno, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Yang, Y., Casella, P., Rea, N., 2011, ATel 3217

SAX J1747.0–2853: ‘normal’ thermonuclear bursts resumed

Del Santo, M., Romano, P., Sidoli, L., Mereghetti, S., Ferrigno, C., **Degenaar, N.**, Wijnands, R., Kuulkers, E., Nucita, A., Savchenko, V., 2011, ATel 3210

First hard X-ray detection of the neutron star X-ray transient SAX J1806.5–2215 with INTEGRAL

Yang, Y. J., Wijnands, R., **Degenaar, N.**, Russell, D. M., Altamirano, D., Kalamkar, M., 2011, ATel 3201

Swift XRT/UVOT follow-up of the Black Hole Candidate MAXI J1659–152 during a low luminosity state

Altamirano, D., Kaur, R., **Degenaar, N.**, Wijnands, R., Yang, Y., Armas Padilla, M., Strohmayer, T., Markwardt, C., 2011, ATel 3193

Possible outburst in the neutron star LMXB SAX J1806.5–2215

2010 Kaur, R., Casella, P., Linares, M., Altamirano, D., Patruno, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Russell, D., Kalamkar, M., van der Klis, M., Watts, A., Wijnands, R., Rea, N., 2010, ATel 3082

Discovery of a 0.19 Hz QPO in MAXI J1409–619

Russell, D. M., Yang, Y. J., **Degenaar, N.**, Wijnands, R., Patruno, A., Kaur, R., Armas Padilla, M., Lewis, F., Armstrong, J. D., 2010, ATel 2997

Monitoring of the likely optical counterpart of XTE J1728–295

Yang, Y. J., **Degenaar, N.**, Wijnands, R., Russell, D. M., Patruno, A., Kaur, R., Armas Padilla, M., 2010, ATel 2991

Swift/XRT follow-up of the X-ray transient XTE J1728–295 during its decaying phase

Linares M., Altamirano D., Watts A., van der Klis M., Wijnands R., Homan J., Casella P., Patruno A., Armas-Padilla M., Cavecchi Y., **Degenaar N.**, Kalamkar M., Kaur R., Yang Y., Rea N., 2010, ATel 2958

Discovery of mHz QPOs and burst rate evolution in the active Terzan 5 neutron star transient

Altamirano D., Homan J., Linares M., Patruno A., Yang Y., Watts A., Kalamkar M., Casella P., Armas-Padilla M., Cavecchi Y., **Degenaar N.**, Russell D., Kaur R., van der Klis M., Rea N., Wijnands R., 2010, ATel 2952

The transient neutron star LMXB in the globular cluster Terzan 5 has turned into a Z-source

Altamirano D., Watts A., Kalamkar M., Homan J., Yang Y., Casella P., Linares M., Patruno A., Armas-Padilla M., Cavecchi Y., **Degenaar, N.**, Kaur R., van der Klis M., Rea N., Wijnands R., 2010, ATel 2932

Discovery of 11 Hz burst oscillations from the 11 Hz Eclipsing Pulsar in Terzan 5

Russell D.M., Lewis F., Bersier D., Cano Z., Gandhi P. , Patruno A., Kalamkar M., Yang Y. J., Altamirano D., Casella P., Linares M., Armas Padilla M., Cavecchi Y., **Degenaar N.**, Kaur R., van der Klis M., Watts A., Wijnands R., Rea N., 2010, ATel 2884

Optical variability in MAXI J1659–152

Kalamkar M., Yang Y., Altamirano D., Casella P., Linares M., Patruno A., Armas-Padilla M., Cavecchi Y., **Degenaar N.**, Russell D., Kaur R., van der Klis M., Watts A., Wijnands R., Rea N., 2010, ATel 2881

MAXI J1659–152 is a black hole candidate

Russell, D. M., Yang, Y. J., Patruno, A., **Degenaar, N.**, Altamirano, D., Wijnands, R., Lewis, F., 2010, ATel 2827

Candidate optical counterparts of XTE J1728–295 = IGR J17285–2922

- Yang, Y. J., Patruno, A., **Degenaar, N.**, Russell, D. M., Altamirano, D., Wijnands, R., 2010, ATel 2824
Swift/XRT follow-up and a refined position of the X-ray transient XTE J1728–295
- Armas Padilla, M., **Degenaar, N.**, Kaur, R., Wijnands, R., Yang, Y., 2010, ATel 2738
XMMSL1 J171900.4–353217 returns to quiescence
- Armas Padilla, M., Kaur, R., **Degenaar, N.**, Wijnands, R., Lewis, F., Russell, D. M., 2010, ATel 2722
Re-brightening of XMMSL1 J171900.4–353217
- Armas Padilla, M., **Degenaar, N.**, Yang, Y., Patruno, A., Wijnands, R., 2010, ATel 2656
Decreased flux of the new X-ray source XMMSL1 J171900.4–353217 detected by Swift-XRT
- Linares, M., Soleri, P., Altamirano, D., Armas-Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., van der Klis, M., Patruno, A., Watts, A., Wijnands, R., Yang, Y., Casella, P., Rea, N., Chakrabarty, D., Homan, J., 2010, ATel 2651
Swift-XRT detects X-ray burst from Circinus X-1
- Linares, M., Soleri, P., Watts, A., Altamirano, D., Armas-Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., van der Klis, M., Patruno, A., Wijnands, R., Yang, Y., Casella, P., Rea, N., 2010, ATel 2643
RXTE detects X-ray bursts from Circinus X-1
- Yang, Y. J., Russell, D. M., Wijnands, R., van der Klis, M., Altamirano, D., Patruno, A., Watts, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Linares, M., Casella, P., Rea, N., Soleri, P., Lewis, F., Kong, A. K. H., 2010, ATel 2579
Swift J1749.4–2807: X-ray decay, refined position and optical observation
- Altamirano, D., Wijnands, R., van der Klis, M., Patruno, A., Watts, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Yang, Y. J., Casella, P., Linares, M., Soleri, P., Rea, N., 2010, ATel 2565
Detection of coherent millisecond pulsations at ~ 518 Hz in the LMXB Swift J1749.4–2807 (GRB 060602B)
- Altamirano, D., Patruno, A., Watts, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Soleri, P., Yang, Y. J., van der Klis, M., Wijnands, R., Casella, P., Linares, M., Rea, N., 2010, ATel 2426
Discovery of kilohertz QPOs in RXTE observations of SAX J1748.9–2021
- Patruno, A., Altamirano, D., Watts, A., Armas Padilla, M., Cavecchi, Y., **Degenaar, N.**, Kalamkar, M., Kaur, R., Soleri, P., Yang, Y. J., van der Klis, M., Wijnands, R., Casella, P., Linares, M., Rea, N., Heinke, C. O., Pooley, D., 2010, ATel 2407
Detection of pulsations and identification of SAX J1748.9–2021 as the X-ray transient in NGC 6440
- 2009 Linares, M., Altamirano, D., **Degenaar, N.**, Wijnands, R., 2009, ATel 2264
4U 1608–52 is back to quiescence after its 2007–2009 outburst
- Watts, A., Altamirano, D., Casella, P., Cavecchi, Y., **Degenaar, N.**, Linares, M., Patruno, A., Rea, N., Soleri, P., van der Klis, M., Wijnands, R., 2009, ATel 2004
Discovery of burst oscillations near the spin frequency in the intermittent accreting millisecond pulsar HETE J1900.1–2455
- 2008 Linares, M., **Degenaar, N.**, Wijnands, R., Altamirano, D., 2008, ATel 1777
Swift detects increased activity of the neutron star transient SAX J1750.8–2900
- Wijnands, R., Linares, M., **Degenaar, N.**, Markwardt, C. B., 2008, ATel 1700
Improved position of the new X-ray transient XTE J1637–498
- Linares, M., **Degenaar, N.**, Altamirano, D., Wijnands, R., van der Klis, M., Markwardt, C., 2008, ATel 1662
SAX J1750.8–2900 is returning to quiescence
- Altamirano, D., Galloway, D., Chenevez, J., in’t Zand, J., Kuulkers, E., **Degenaar, N.**, Del Monte, E., Feroci, M., Costa, E., Evangelista, Y., Falanga, M., Markwardt, C., Wijnands, R., Van Der Klis, M., 2008, ATel 1651
Kilohertz QPOs, spectral state transitions and the distance to the neutron star X-ray transient IGR J17473–2721
- Linares, M., Soleri, P., Curran, P., Wijnands, R., **Degenaar, N.**, van der Klis, M., Starling, R., Markwardt, C., 2008, ATel 1618
The cooling tail of a long X-ray burst from XTE J1701–407
- Sidoli, L., Romano, P., Del Santo, M., Wijnands, R., **Degenaar, N.**, 2008, ATel 1496
Swift/XRT monitoring of the latest outburst from XMMU J174716.1–281048: the source is still active

Altamirano, D., **Degenaar, N.**, in't Zand, J., Markwardt, C., Wijnands, R., 2008, ATel 1459
Swift/XRT follow-up observations of IGR J17473–2721

2007 Linares, M., **Degenaar, N.**, Wijnands, R., 2007, ATel 1260

The neutron star transient SAX J1810.8–2609 is going back to quiescence

Kennea, J. A., Campana, S., Wijnands, R., Burrows, D. N., Cackett, E., **Degenaar, N.**, Grupe, D., La Parola, V., Moretti, A., Pagani, C., Starling, R. L. C., Gehrels, N., 2007, ATel 1209

Swift/XRT detection of a possible 1.2 day period the faint persistent X-ray source AXJ1538.3–5541

Altamirano, D., Wijnands, R., **Degenaar, N.**, Casella, P., Homan, J., Belloni, T., Campana, S., 2007, ATel 1178
Following the neutron star transient XTE J1701–462 as it turns into quiescence