

Personal Information

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Research Interests

Jets and disk winds from X-ray binaries
The impact of outflows on binary evolution and the interstellar medium
Multi-wavelength observations of X-ray binaries
Evolutionary stages of X-ray binaries
Low-luminosity accretion onto neutron stars and stellar-mass black holes
Thermonuclear X-ray bursts from accreting neutron stars
Probing ultra-dense matter through neutron stars

Research Positions

2016–present	Research group leader University of Amsterdam – Anton Pannekoek Institute for Astronomy
2014–2016	Marie Curie research fellow University of Cambridge – Institute of Astronomy
2011–2014	Hubble research fellow University of Michigan – Department of Astronomy
2010–2011	Postdoctoral researcher University of Amsterdam – Anton Pannekoek Institute for Astronomy

Education

2006–2010	PhD in Astronomy University of Amsterdam – Anton Pannekoek Institute for Astronomy Thesis title: <i>Exploring sub-luminous X-ray binaries</i> Supervisor: Prof. Rudy Wijnands
2004–2006	Master degree in Astronomy, <i>cum laude</i> University of Amsterdam – Anton Pannekoek Institute for Astronomy

Grants and Fellowships

2015	Vidi grant from the Netherlands organization for scientific research Independent research grant for 5 years – 800 000 euro
2015	College Research Associate at St John’s College, Cambridge, UK Non-stipendiary post-doctoral research fellowship for up to 5 years
2014	Marie Skłodowska-Curie fellowship from the European Commission Independent post-doctoral research grant for 2 years – 280 000 euro
2011–2014	Observing grants from Hubble, Chandra, XMM-Newton, Swift Grants awarded as successful US-based PI – 605 000 euro
2011	Hubble fellowship from NASA Independent post-doctoral research grant for 3 years – 340 000 euro

Supervision of Graduate Student and Postdoc Research

Postdoc Projects

- 2019–present Dr. A. Parikh, University of Amsterdam
Primary supervisor, funded by my Vidi research grant
- 2016–2019 Dr. J. Hernández Santisteban, University of Amsterdam
Primary supervisor, funded by my Vidi research grant
Now postdoctoral fellow at the University of St. Andrews, Schotland

PhD Projects

- 2019 Mr. K. Alizai, University of Amsterdam
Exchange visit (4 months) from the Technical University of Denmark
Promotor Dr. J. Chenevez. Graduating in 2020
- 2016–present Mr. J. van den Eijnden, University of Amsterdam
Primary supervisor, funded by my Vidi research grant. Graduating in 2020
- 2015–2019 Dr. A. Parikh, University of Amsterdam
Co-supervisor, promotor Prof. R. Wijnands
Now postdoctoral fellow at the University of Amsterdam
- 2015–2019 Dr. A. Rouco Escorial, University of Amsterdam
Co-supervisor, promotor Prof. R. Wijnands
Now postdoctoral fellow at the University of Northwestern
- 2009–2013 Dr. M. Armas Padilla, University of Amsterdam
Co-supervisor, promotor Prof. R. Wijnands
Now La Caixa independent postdoctoral fellow at the IAC Tenerife, Spain

Master Projects

- 2020–present Astrovaria (6 ECTS), Ms. J. Kleverlaan, University of Amsterdam
- 2020–present Astrovaria (6 ECTS), Ms. S. Fijma, University of Amsterdam
- 2020–present Astrovaria (6 ECTS), Mr. J. Groot, University of Amsterdam
- 2020–present Astrovaria (6 ECTS), Ms. M. van Etten, University of Amsterdam
- 2019–present MSc research project (60 ECTS), Mr. M. Stoop, University of Amsterdam
- 2018–2019 MSc research project (60 ECTS), Ms. M. Georganti, University of Amsterdam
Now PhD student in astronomy at the University of Southampton, UK
- 2018 ERASMUS+ research project (4 months), Ms. E. López, University of Amsterdam
Now PhD student in astronomy at the University of Valparaíso, Chile
- 2017 ERASMUS+ research project (3 months), Mr. A. Marino, University of Amsterdam
Now PhD student in astronomy at the University of Palermo, Italy
- 2009–2010 MSc research project (60 ECTS), Dr. S. Broerse, University of Amsterdam
After a PhD in astronomy now Business Intelligence and Analytics Manager at Deloitte

Teaching Activities

Lecture Series

- 2020 Lecturer *Astrophysics*, BSc students (year 2). University of Amsterdam
- 2019 Lecturer *Astrophysics*, BSc students (year 2). University of Amsterdam
- 2018 Lecturer *Astronomy Olympiad*, highschool students. University of Amsterdam

Guest Lectures

- 2020 Guest lecturer *Compact Objects*, BSc students (year 3). University of Amsterdam
- 2019 Guest lecturer *Compact Objects*, BSc students (year 3). University of Amsterdam
- 2017 Guest lecturer *Open Problems*, MSc students. University of Amsterdam
- 2017 Substitute lecturer *Astrophysics*, BSc students (year 3). University of Amsterdam
- 2012 Guest lecturer *High Energy Universe*, PhD students. University of Michigan
- 2009 Substitute lecturer *Compact Objects*, BSc students (year 3). University of Amsterdam
- 2008, 2009 Guest lecturer *Orientation*, BSc students (year 3). University of Amsterdam

Teaching Assistant

- 2008 Teaching assistant *Astrophysics*, BSc students (year 2). University of Amsterdam
- 2008 Teaching assistant *Solar system*, BSc students (year 2). University of Amsterdam
- 2006, 2007 Teaching assistant *Astronomy 1*, BSc students (year 1). University of Amsterdam
- 2006, 2007 Teaching assistant *Astronomy lab*, BSc students (year 3). University of Amsterdam

Commissions of Trust

Journal referee	Science, Astrophysical Journal (ApJ), Astronomy & Astrophysics (A&A) Monthly Notices of the Royal Astronomical Society (MNRAS), New Astronomy
Time allocation	Gemini (2013), Chandra (2014, 2018), ING (2017, 2018), AstroSAT (2017, 2018), ESO (2018), Chinese TAP (2018), INTEGRAL (2019, 2020)
Fellowship panels	NASA Earth Space and Science Fellowship (NESSF, 2013) NASA Hubble Fellowship Program (NHFP, 2018)
Editorial work	Co-editor of <i>A decade of accreting millisecond X-ray pulsars</i> (2008) American Institute of Physics Journals Conference Proceedings 1068

Scientific Networks and Academy Memberships

2018–present	Member of the International Astronomical Union (IAU)
2018–present	Leader of the MeerLICHT working group for accreting neutron stars Coordination of optical data taken simultaneously with MeerKAT radio data
2018–present	Member of the Multi-Messenger Transient network (MMT) Dutch national network to share expertise in multi-wavelength observations
2017–present	Member of the multi-messenger physics and astrophysics of neutron stars (PHAROS) European network for studying the physics of neutron stars
2017–present	Joint Institute for Nuclear Astrophysics, Center for the Evolution of the Elements International partner, network for studying nuclear elements in the universe
2009–present	Leader of the Galactic center Swift X-ray monitoring team PI of the daily Swift X-ray monitoring campaign of the Milky Way center

Institutional and National Responsibilities

2017–present	Management Committee of the European neutron-star network PHAROS
2012–2013	Colloquium organizer University of Michigan, Ann Arbor, MI, USA
2007–2009	Secretary of the Dutch national committee of astronomy education (LOCNOC)
2005–2006	Academic Year Prize team for the University of Amsterdam
2003–2004	Education Committee (OC) of the Physics program at the Vrije Universiteit
2002–2003	Faculty Student Council (FSR) of Exact Sciences at the Vrije Universiteit

Organization of Scientific Meetings Summary

SOC, chair	<i>From Winds to Jets: The Role of Outflows in X-ray Binaries</i> Held in Amsterdam, July 2019. International workshop, 65 participants
SOC, chair	<i>ICONS: Investigating the Crust of Neutron Stars</i> Held in Amsterdam, April 2019. International workshop, 40 participants
LOC, treasurer	<i>A decade of accreting millisecond X-ray pulsars</i> Held in Amsterdam, April 2008. International workshop, 60 participants
SOC (19)	<i>A total of 19 other international conferences and workshops</i> Between 2009 and 2020, various countries, 50–200 participants each
LOC (2)	<i>A total of 2 other international conferences</i> Held in 2009 and 2011 in the Netherlands, 200 participants each

Selection of Press

2019	Dutch radio interview <i>Met het oog op morgen: Onmogelijk zwart gat ontdekt</i>
2018	NRAO press release <i>VLA discovers jet coming from wrong kind of star</i>
2017	NOVA press release <i>High-magnetic field neutron stars can launch jets</i>
2017	ESA/NASA press release <i>Mind the Gap: Rapid Burster behaviour explained</i>
2014	NASA press release <i>NASA's Swift catches X-ray action at Milky Way's center</i>
2014	Press conference American Astronomical Society (AAS), Washington DC, USA <i>On the watch for a revival of the Milky Way's supermassive black hole</i>
2014	BBC news interview <i>Black hole's Big Meal could spark fireworks</i>
2014	High-energy astrophysics picture of the week <i>Action at the Galactic center</i>
2013	Sky & Telescope article <i>A cosmic sleight of hand</i>
2012	German radio interview <i>Snacks für das Schwarze Loch</i>
2010	NASA press release <i>Eclipsing pulsar promises clues to crushed matter</i>

Selection of Outreach

2019–2020	<i>Sounds of Interstellar Space</i> with the musicians TRIFID. Different locations in NL Concert/lecture series, http://www.soundsofinterstellarspace.nl
2017	<i>Public evening lectures</i> . Anton Pannekoek Institute, University of Amsterdam, NL
2016	<i>Fellows pre-dinner lecture series</i> . St John's College. Cambridge, UK
2016	<i>STEM Subject Days</i> . St John's College. Cambridge, UK Outreach events for year 12 students (aged 15–18) from state school backgrounds
2016	<i>Public evening lectures</i> . Institute of Astronomy, University of Cambridge, UK
2015	<i>Interviews with girls in secondary school (5th grade)</i> . Different locations in NL
2012–2013	<i>FEMMES (Females Excelling More in Math, Engineering and Science)</i> . Hands-on activities for girls in secondary schools from underserved areas. Ann Arbor, USA
2008–2011	<i>Interviews/lectures for scholars in secondary school</i> . Amsterdam, NL

Publication Record Summary

First author refereed publications	33 (10 Letters, 3 reviews)
First author non-refereed publications	51
Co-author refereed publications	105 (20 Letters, 2 reviews)
Co-author non-refereed publications	108

Talk Record Summary

Invited talks international conferences	28
Colloquia and seminars	25
Contributed talks conferences	19

Telescope Time Acquisition Record Summary

PI accepted observing proposals	172	
Co-I accepted observing proposals	123	
Facilities used as PI:	X-ray	Chandra, XMM-Newton, NuSTAR, Swift, Rossi X-ray Timing Explorer
	Ultra-violet	Hubble Space Telescope, Swift
	Optical/infrared	Very Large Telescope, SMARTS, Isaac Newton Telescope Gemini, Magellan
	Radio	Very Large Array, Australia Telescope Compact Array

Full List of Conference Organization

- 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 From Winds to Jets: The Role of Outflows in X-ray Binaries**. Amsterdam, NL
May: **SOC chair Delving into the neutron star crust**. Amsterdam, NL
- 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** (cancelled). Istanbul, Turkey
 August: **SOC Crust cooling in accreting neutron stars and magnetars** (cancelled). 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

Invited talks at International Conferences

- 2020 September: Micro-quasar workshop. Cagliari (Sardinia), Italy
Invited review: *Accretion/ejection physics*
 June: EAS 2020, XMM-Newton: Current scientific highlights and future prospects. Noordwijk, NL
Invited review: *Low-mass X-ray binaries and transitional millisecond pulsars*
 May: Nordic neutron stars. Aarhus, Denmark
Invited talk: *Probing the evolution of binary stars through X-ray binaries*
 March: PHAROS conference 2020. Patras, Greece
Invited talk: *Probing the physics of neutron stars with X-ray binaries*
- 2019 December: Texas 2019, Relativity at work: discs, jets and magnetic fields. Portsmouth, UK
Review: *The neutron star jet / 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. 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*

Colloquia and Seminars

- 2019 June: L'Institut de Recherche en Astrophysique et Planologie (IRAP). Toulouse, France
Colloquium: *The important role of outflows in X-ray binaries*
- February: 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*

Contributed Conference Talks

- 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*

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

Accepted X-ray Observing Proposals as Principal Investigator

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
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, 77 in total	Swift AO6–AO15	362 ks
Swift/VLA monitoring of a giant Be/X-ray binary outburst	Swift AO15	20 ks
Galactic center monitoring campaign	Swift AO9–AO15	248 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
Neutron star crust cooling TOO	Swift AO11	50 ks
Galactic center monitoring campaign	Swift AO10	248 ks
Neutron star crust cooling TOO	Swift AO10	30 ks
Galactic center monitoring campaign	Swift AO9	248 ks
Neutron star crust cooling TOO	Swift AO9	60 ks
Galactic center monitoring campaign	Swift AO8	82 ks
Neutron star crust cooling TOO	Swift AO8	30 ks
Galactic center monitoring campaign	Swift AO6–AO7	81 ks
Neutron star crust cooling TOO	Swift AO8–AO13	60 ks
Galactic center monitoring campaign	Swift AO6–AO8	81 ks
Neutron star crust cooling TOO	Swift AO6–AO7	20 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 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 AO12	50 ks
Peculiar X-ray burster SAX J2224.9+5421 in quiescence	XMM AO10	50 ks
Accreting millisecond pulsar Swift J1749.4–2807 in quiescence	XMM AO10	100 ks
Accreting millisecond pulsar Swift J1749.4–2807 in quiescence	XMM AO9	50 ks
Sub-luminous X-ray binary AX J1754.2–2754	XMM AO9	35 ks
Sub-luminous X-ray binary AX J1754.2–2754	XMM AO7	35 ks
Sub-luminous X-ray binaries in outburst	RXTE AO14	100 ks
Sub-luminous X-ray binaries in outburst	RXTE AO13	100 ks

Accepted X-ray Observing Proposals as Principal Investigator – Continued

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
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 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 AO12	40 ks
Neutron star crust cooling TOO on HETE J1900.1–2455	Chandra AO12	90 ks
Neutron star crust cooling EXO 0748–676	Chandra AO11	60 ks
Neutron star crust cooling TOO HETE J1900.1–2455	Chandra AO11	90 ks
Crust cooling TOO HETE J1900.1–2455 + Swift J1626.6–5156	Chandra AO10	120 ks
Crust cooling TOO HETE J1900.1–2455 + Swift J1626.6–5156	Chandra AO9	120 ks
DDT to localize XMMUJ174716.1–281048	Chandra AO8	1 ks

Accepted UV/Optical/Infrared/Radio Observing Proposals as Principal Investigator

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
DDT for UV spectroscopy of Swift J1357.2–0933 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 X-ray binary 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 Swift J1357.2–0933	HST cycle 21	9 orbits
The quiescent UV spectrum of EXO 0748–676	HST cycle 20	9 orbits
Mapping accretion disk winds across the electromagnetic spectrum	VLT 2020A	4 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	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
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
Feedback from low-mass X-ray binaries into the ISM	INT 2018B	5 nights
Sub-luminous X-ray binaries TOO	SMARTS 2009B	0.4 nights
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 connections 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

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

- 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

- 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

- 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., Chakraborty, 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., Chakraborty, 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

- 2020 van den Eijnden, J., **Degenaar, N.**, Ludlam, R., Parikh, A., Miller, J.M., Wijnands, R., Gendreau, K.C., Arzoumanian, Z., Chakrabarty, D., Bult, P., submitted to MNRAS
A strongly changing accretion morphology during the outburst decay of the neutron star X-ray binary 4U 1608–52
- 2019 López-Navas, J., **Degenaar, N.**, Parikh, A.S., Hernández Santisteban, J.V., van den Eijnden, J., submitted to MNRAS
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., submitted to MNRAS
The Swift Bulge Survey: Optical & near-IR follow-up featuring a likely symbiotic X-ray binary & a focused wind CV
- Rouco Escorial, A., Wijnands, R., van den Eijnden, J., Patruno, A., **Degenaar, N.**, Parikh, A., Ootes, L.S., submitted to A&A, arXiv:1907.04724
Recurrent low-level luminosity behaviour after a giant outburst in the Be/X-ray transient 4U 0115+63
- 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., MNRAS in press, arXiv:1909.02323
Radio and X-ray monitoring of the accreting millisecond X-ray pulsar IGR J17591–2342 in outburst
- 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., MNRAS in press, arXiv:1908.04778
Quasi-simultaneous radio and X-ray observations of Aql X-1: probing low luminosities
- 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., 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 IGRJ17480–2446 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 IRXS 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., Bhalerao, 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., Gorbikoy, 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 superburst 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, Cackett, E. M., R., 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., Martnez-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

- 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., Rzanska, 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

- 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

- 2019 Domcek, 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