

PUBLICATIONS

Also part of over **50 Astronomer's Telegrams** and GCN Circulars (led 13 of them).

First-author

- 6) **Mason Ng**, et al. 2024. *NICER Discovery that SRGA J144459.2-604207 is an Accreting Millisecond X-ray Pulsar*. ApJ, 968, L7. DOI: 10.3847/2041-8213/ad4edb
- 5) **Mason Ng**, et al. 2024. *X-ray and Radio Monitoring of the Neutron Star Low Mass X-ray Binary 1A 1744-361*. ApJ, 966, 232. DOI: 10.3847/1538-4357/ad35bd
- 4) **Mason Ng**, et al. 2022. *Spectral Evolution of Ultraluminous X-ray Pulsar NGC 300 ULX-1*. ApJ, 940, 138. DOI: 10.3847/1538-4357/ac9965
- 3) Herman L. Marshall, **Mason Ng**, et al. (IXPE Collaboration + Norbert S. Schulz, Deepto Chakrabarty) 2022. *Observations of 4U 1626-67 with the Imaging X-ray Polarimetry Explorer*. ApJ, 940, 70. DOI: 10.3847/1538-4357/ac98c2
- 2) **Mason Ng**, Paul S. Ray, Peter Bult, Deepto Chakrabarty, et al. 2021. *NICER Discovery of Millisecond Pulsations and an Ultracompact Orbit in IGR J17494-3030*. ApJ, 908, L15. DOI: 10.3847/2041-8213/abe1b4
- 1) **M. Ng**, N.M. Nielsen, G.G. Kacprzak et al. 2019. *Kinematics of the OVI Circumgalactic Medium: Halo Mass Dependence and Outflow Signatures*. ApJ, 886, 66. DOI: 10.3847/1538-4357/ab48eb

Non-refereed

- 1) **Mason Ng**, et al. 2024. *Tentative Blazar Candidate EP240709A Associated with 4FGL J0031.5-5648: NICER and Archival Multiwavelength Observations*. RNAAS, 8, 292. DOI: 10.3847/2515-5172/ad95ff

Co-author

- 48) Vladislav Loktev, et al. (14 co-authors including **Mason Ng**) 2025. *Exploring polarization and geometry in the X-ray pulsar 4U 1538-52*. Submitted. arXiv:2503.13720
- 47) María Alejandra Díaz Teodori, et al. (5 co-authors including **Mason Ng**) 2025. *NICER observations of type-I X-ray bursts from the ultra-compact X-ray binary M15 X-2*. A&A, 695, 44. DOI: 10.1051/0004-6361/202452243
- 46) George Younes, et al. (21 co-authors including **Mason Ng**) 2025. *Timing and Spectral Evolution of the Magnetar 1E 1841-045 in Outburst*. Submitted. arXiv:2502.20079
- 45) Alessandro Papitto, et al. (24 co-authors including **M. Ng**) 2025. *Discovery of Polarized X-Ray Emission from the Accreting Millisecond Pulsar SRGA J144459.2-604207*. A&A, 694, 37. DOI: 10.1051/0004-6361/202451775
- 44) A. Marino, et al. (34 co-authors including **M. Ng**) 2025. *Einstein Probe Discovery of EP J005245.1722843: A Rare Be-White Dwarf Binary in the Small Magellanic Cloud?*. ApJ, 980, 36. DOI: 10.3847/2041-8213/ad9580
- 43) Brendan O'Connor, et al. (32 co-authors including **Mason Ng**) 2024. *Characterization of a Peculiar Einstein Probe Transient EP240408a: An Exotic Gamma-Ray Burst or an Abnormal Jettted Tidal Disruption Event?* ApJ, 979, 30. DOI: 10.3847/2041-8213/ada7f5

- 42) Andrea Gnarini, et al. (13 co-authors including **Mason Ng**) 2024. *First spectropolarimetric observation of the neutron star low-mass X-ray binary GX 3+1*. A&A, 692, 123. DOI: 10.1051/0004-6361/202452642
- 41) Rachael Stewart, et al. (17 co-authors including **Mason Ng**) 2024. *X-ray Polarization of the Magnetar 1E 1841045 in Outburst*. Accepted. arXiv:2412.16036.
- 40) Emma T. Chickles, et al. (38 co-authors including **Mason Ng**) 2024. *A gravitational wave detectable candidate Type Ia supernova progenitor*. Submitted. arXiv:2411.19916.
- 39) Sofia V. Forsblom, et al. (15 Tier 1 co-authors including **Mason Ng**) 2024. *Probing the polarized emission from SMC X-1: the brightest X-ray pulsar observed by IXPE*. A&A, 691, 216. DOI: 10.1051/0004-6361/202450937
- 38) Robin H. D. Corbet, et al. (22 co-authors including **Mason Ng**) 2024. *Sharp Periodic Flares and Long-Term Variability in the High-Mass X-ray Binary XTE J1829–098 from RXTE PCA, Swift BAT and MAXI Observations*. ApJ, 976, 137. DOI: 10.3847/1538-4357/ad83b9
- 37) Yash Bhargava, Thomas D. Russell, **Mason Ng** et al. (13 co-authors) 2024. *X-ray and Radio Campaign of the Z-source GX 340+0 II: the X-ray polarization in the normal branch*. In Review. arXiv:2411.00350.
- 36) Gaurava K. Jaisawal, et al. (16 co-authors including **Mason Ng**) 2024. *A Comprehensive Study of Thermonuclear X-Ray Bursts from 4U 1820–30 with NICER: Accretion Disk Interactions and a Candidate Burst Oscillation*. ApJ, 975, 67. DOI: 10.3847/1538-4357/ad794e
- 35) F. Ursini, et al. (13 co-authors including **M. Ng**) 2024. *X-ray spectropolarimetry of the bright atoll Serpens X-1*. A&A, 690, 200. DOI: 10.1051/0004-6361/202451584
- 34) Bas Dorsman, et al. (12 co-authors including **Mason Ng**) 2024. *Parameter constraints for accreting millisecond pulsars with synthetic NICER data*. In Review. arXiv:2409.07908
- 33) Yash Bhargava, **Mason Ng** et al. (13 co-authors) 2024. *X-ray and Radio campaign of the Z-source GX 340+0: discovery of X-ray polarization and its implications*. In Review. arXiv:2405.19324
- 32) Anna Bobrikova, et al. (24 Tier 1 co-authors including **Mason Ng**) 2024. *Discovery of a strong rotation of the X-ray polarization angle in the galactic burster GX 13+1*. A&A, 688, 170. DOI: 10.1051/0004-6361/202449318
- 31) Birendra Chhotaray, et al. (6 co-authors including **Mason Ng**) 2024. *Long-term study of the first Galactic ultraluminous X-ray source Swift J0243.6+6124 using NICER*. ApJ, 963, 132. DOI: 10.3847/1538-4357/ad235d
- 30) Jeremy Heyl, et al. (10 Tier 1 co-authors including **Mason Ng**) 2024. *The detection of polarized x-ray emission from the magnetar 1E 2259+586*. MNRAS, 527, 12219. DOI: 10.1093/mnras/stad3680
- 29) Manoj Mandal, et al. (12 co-authors including **Mason Ng**) 2023. *Probing spectral and timing properties of the X-ray pulsar RX J0440.9+4431 in the giant outburst of 2022–2023*. MNRAS, 526, 771. DOI: 10.1093/mnras/stad2767
- 28) Roberto Turolla, et al. (15 Tier 1 co-authors including **Mason Ng**) 2023. *IXPE and XMM-Newton observations of the Soft Gamma Repeater SGR 1806–20*. ApJ, 954, 88. DOI: 10.3847/1538-4357/aced05
- 27) A. C. Albayati, et al. (12 co-authors including **M. Ng**) 2023. *Thermonuclear Type-I X-ray Bursts and Burst Oscillations from the Eclipsing AMXP Swift J1749.4–2807*. MNRAS, 524, 2477. DOI: 10.1093/mnras/stad1892

- 26) Christian Malacaria, et al. (19 Tier 1 co-authors including **Mason Ng**) 2023. *A polarimetric-oriented X-ray stare at the accreting pulsar EXO 2030+375*. A&A, 675, 29. DOI: 10.1051/0004-6361/202346581
- 25) G. K. Jaisawal, et al. (9 co-authors including **M. Ng**) 2023. *On the cyclotron absorption line and evidence of the spectral transition in SMC X-2 during 2022 giant outburst*. MNRAS, 521, 3951. DOI: 10.1093/mnras/stad781
- 24) Paul A. Draghis, et al. (9 co-authors including **Mason Ng**) 2023. *The Spin of a Newborn Black Hole: Swift J1728.9-3613*. ApJ, 947, 39. DOI: 10.3847/1538-4357/acc1c8
- 23) Mayura Balakrishnan, et al. (14 co-authors including **Mason Ng**) 2023. *The Black Hole Candidate Swift J1728.9-3613 and the Supernova Remnant G351.9-0.9*. ApJ, 947, 38. DOI: 10.3847/1538-4357/acc1c9
- 22) G. C. Mancuso, et al. (10 co-authors including **M. Ng**) 2023. *Detection of millihertz quasi-periodic oscillations in the low-mass X-ray binary 4U 1730–22 with NICER*. MNRAS, 521, 5616. DOI: 10.1093/mnras/stad949
- 21) Silvia Zane, et al. (26 Tier 1 co-authors including **Mason Ng**) 2023. *A strong X-ray polarization signal from the magnetar 1RXS J170849.0-400910*. ApJL, 944, 27. DOI: 10.3847/2041-8213/acb703
- 20) Giulia Illiano, et al. (21 co-authors including **Mason Ng**) 2022. *Timing analysis of the 2022 outburst of SAX J1808.4-3658: hints of an orbital shrinking*. ApJL, 942, 40. DOI: 10.3847/2041-8213/acad81
- 19) C. Malacaria, et al. (13 co-authors including **M. Ng**) 2022. *The unaltered pulsar: GRO J1750-27, a super-critical X-ray neutron star that does not blink an eye*. A&A, 669, 38. DOI: 10.1051/0004-6361/202245123
- 18) Sergey S. Tsygankov, et al. (17 Tier 1 co-authors including **Mason Ng**) 2022. *The X-ray polarimetry view of the accreting pulsar Cen X-3*. ApJL, 941, 14. DOI: 10.3847/2041-8213/aca486
- 17) Peter Bult, et al. (13 co-authors including **Mason Ng**) 2022. *The thermonuclear X-ray bursts of 4U 1730-22*. ApJ, 940, 81. DOI: 10.3847/1538-4357/ac9b26
- 16) Roberto Taverna, et al. (21 Tier 1 co-authors including **Mason Ng**) 2022. *Polarized x-rays from a magnetar*. Science, 378, 646. DOI: 10.1126/science.add0080
- 15) A. Sanna, et al. (14 co-authors including **M. Ng**) 2022. *MAXI J1957+032: a new accreting millisecond X-ray pulsar in an ultra-compact binary*. MNRAS, 516, L76. DOI: 10.1093/mnras/lsac093
- 14) Peter Bult, et al. (17 co-authors including **Mason Ng**) 2022. *The Discovery of the 528.6 Hz Accreting Millisecond X-Ray Pulsar MAXI J1816-195*. ApJL, 935, 32. DOI: 10.3847/2041-8213/ac87f9
- 13) Tolga Guver, et al. (13 co-authors including **Mason Ng**) 2022. *Burst-Disk Interaction in 4U 1636-536 as observed by NICER*. ApJ, 935, 154. DOI: 10.3847/1538-4357/ac8106
- 12) A. Marino, et al. (20 co-authors including **M. Ng**) 2022. *Outflows and spectral evolution in the eclipsing AMXP SWIFT J1749.4-2807 with NICER, XMM-Newton and NuSTAR*. MNRAS, 515, 3838. DOI: 10.1093/mnras/stac2038
- 11) Kishalay De, et al. (26 co-authors including **Mason Ng**) 2022. *SRGA J181414.6-225604: A New Galactic Symbiotic X-Ray Binary Outburst Triggered by an Intense Mass-loss Episode of a Heavily Obscured Mira Variable*. ApJ, 935, 36. DOI: 10.3847/1538-4357/ac7c6e

- 10) A. Sanna, et al. (17 co-authors including **M. Ng**) 2022. *On the peculiar long-term orbital evolution of the eclipsing accreting millisecond X-ray pulsar SWIFT J1749.4-2807*. MNRAS, 514, 4385. DOI: 10.1093/mnras/stac1611
- 9) R. M. Ludlam, et al. (10 co-authors including **Mason Ng**) 2022. *Radius Constraints from Reflection Modeling of Cygnus X-2 with NuSTAR and NICER*. ApJ, 927, 112. DOI: 10.3847/1538-4357/ac5028
- 8) Pasham, D.R., et al. (18 co-authors including **Mason Ng**) 2021. *Evidence for a compact object in the aftermath of the extragalactic transient AT2018cow*. Nat Astron., 6, 249. DOI: 10.1038/s41550-021-01524-8
- 7) The LIGO Scientific Collaboration; the Virgo Collaboration; the KAGRA Collaboration (including **Mason Ng**) 2021. *Search for continuous gravitational waves from 20 accreting millisecond X-ray pulsars in O3 LIGO data*. Phys. Rev. D 105, 022002. DOI: 10.1103/PhysRevD.105.022002
- 6) Yuhan Yao, et al. (27 co-authors including **Mason Ng**) 2020. *A Comprehensive X-ray Report on AT2019wey*. ApJ, 920, 121. DOI: 10.3847/1538-4357/ac15f8
- 5) Teruaki Enoto, **Mason Ng** et al. 2021. *A Month of Monitoring the New Magnetar Swift J1555.2-5402 during an X-Ray Outburst..* ApJ, 920, L4. DOI: 10.3847/2041-8213/ac2665
- 4) D. J. K. Buisson, et al. (including **Mason Ng**) 2021. *Dips and eclipses in the X-ray binary Swift J1858.6-0814 observed with NICER*. MNRAS, 503, 5600. DOI: 10.1093/mnras/stab863
- 3) Peter Bult, et al. (including **Mason Ng**) 2021. *Long term coherent timing of the accreting millisecond pulsar IGR J17062-6143*. ApJ, 912, 120. DOI: 10.3847/1538-4357/abf13f
- 2) Peter Bult, et al. (12 co-authors including **Mason Ng**) 2020. *The X-ray bursts of XTE J1739-285: a NICER sample*. ApJ, 907, 79. DOI: 10.3847/1538-4357/abd54b
- 1) J.J. Eldridge, E.R. Stanway, et al. (7 co-authors including **M. Ng**) 2017. *Binary Population and Spectral Synthesis Version 2.1: construction, observational verification and new results*. PASA, 34, 58. DOI: 10.1017/pasa.2017.51