

Curriculum Vitae

Contact Information

Address: Louisiana State University,
Department of Physics and Astronomy,
202 Nicholson Hall, Tower Drive,
Baton Rouge, LA 70803-4001
Tel: (225) 578-7459
Fax: (225) 578-5855
E-mail: rih@phys.lsu.edu
Web: <http://www.phys.lsu.edu/dept/direct/hynes.htm>

Personal

Born 9 February 1971, Southampton, Hampshire, United Kingdom
Citizen of the United Kingdom
Permanent Resident of the United States

Education

09/1996-09/1999 Ph.D., The Open University, UK (First 2.5 years at the University of Sussex, United Kingdom)
Title: *Observations of Low Mass X-ray Transients in Outburst*
Supervisor: Dr. C. A. Haswell
09/1995-05/1996 M.Sc. with Distinction, Astronomy, University of Sussex, United Kingdom
Title: *Synthetic Spectra of OB-Type Binary Stars: A Tool to Test the Disentangling Technique*
Supervisor: Dr. P. F. L. Maxted
10/1992-06/1993 Post Graduate Certificate in Education, University of Oxford, United Kingdom
Specialization in Science teaching, age 11-18
10/1989-06/1992 B.A. (Hons.), 1st Class, Physics, University of Oxford, United Kingdom
Optional Specializations in Atomic, Nuclear and Theoretical Physics

Professional Experience

08/2015-Present Professor, Louisiana State University
08/2010-08/2015 Associate Professor, Louisiana State University
08/2004-08/2010 Assistant Professor, Louisiana State University
09/2002-08/2004 Hubble Fellow, The University of Texas at Austin
10/1999-08/2002 Leverhulme Trust Research Fellow, The University of Southampton, United Kingdom
09/1993-07/1995 Teacher of Science, Oxted County School, Surrey, United Kingdom

Awards

2018 Louisiana State University Alumni Association Faculty Excellence Award
2018 Louisiana State University Tiger Athletic Foundation College Undergraduate Teaching Award
2010 Louisiana State University, College of Basic Sciences Faculty Research Award
2002 Hubble Postdoctoral Fellowship
2000 Joint second place for Michael Penston Astronomy Prize (Royal Astronomical Society Ph.D. thesis competition)

Professional Memberships

International Astronomical Union
American Astronomical Society & High Energy Astrophysics Division
American Association of Variable Star Observers

Professional Service

2024	Chair of IXPE Peer Review Panel for NASA
2023 – present	Member of LSST Transients and Variable Stars Scientific Collaboration
2022 – present	Member of NASA/Strobe-X science working group
2022	Member of a NuSTAR Peer Review Panel for NASA
2021	Deputy Chair of a NuSTAR Peer Review Panel for NASA
2020	Member of NSF Astronomy and Astrophysics Grant Review Panel
2019 – 2022	Member of the Gemini Observatory Science and Technology Advisory Committee
2018	External reviewer for SWO (Netherlands) and the Montana EPSCoR program
2017 – 2018	Member of Local Organizing Committee IAU Symposium 338: Gravitational Wave Astrophysics: Early Results from GW Searches and Electromagnetic Counterparts
2016 – 2018	Chair of a panel for the Telescope Allocation Committee, National Optical Astronomy Observatories
2015	Member of a Chandra X-ray Observatory Peer Review Panel for NASA
2014	Deputy-chair of a Suzaku X-ray Observatory Peer Review Panel for NASA
2012	External reviewer for ANR (France) and SWO (Netherlands)
2011	Chair of a Chandra X-ray Observatory Peer Review Panel for NASA
2011	Reviewer for an NSF Astronomy and Astrophysics Grant proposal
2010	Member of Peer Review Panel for NSF Postdoctoral Fellowships
2008	Chair of a Chandra X-ray Observatory Peer Review Panel for NASA
2007	Member of a Rossi X-ray Observatory Peer Review Panel for NASA
	Member of organizing committee for “A Population Explosion” conference
2006	Member of a Suzaku X-ray Observatory Peer Review Panel for NASA
	Co-chair of Scientific Organizing Committee for 1 st meeting of the 3 rd Coast Astronomical Society
2005	Member of a Chandra X-ray Observatory Peer Review Panel for NASA
2003 – 2004	Member of the McDonald Observatory User Committee
2003 – 2004	Member of the Telescope Allocation Committee, National Optical Astronomy Observatories
2000 – present	Referee for Nature, Astrophysical Journal and Letters, Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy and Astrophysics, Advances in Space Research

Departmental and University Service

2023 – present	Chair of mentoring committee for Natalie Hinkel
2022 – present	Member of mentoring committee for Matthew Penny
2020 – 2021	Member of Graduate Faculty Committee for Graduate School Strategic Planning exercise and of the Graduate Retention Sub-committee
2020 – 2024	Chair of mentoring committee for Eric Burns
2019 – 2020	Member, High-Energy Astrophysics Faculty Search Committee
2018 – present	Co-director of Physics and Astronomy NSF REU program
2018	Member, Astrophysics Faculty Search Committee
2016 – 2022	Member of mentoring committee for Manos Chatzopoulos
2016 – 2023	Physics and Astronomy Graduate Advisor
2016 – 2017	Member, Departmental Steering Committee
2015 – 2021	Member of mentoring committee for Rui Zhang
2015 – 2016	Member, Astrophysics Faculty Search Committee
2015 – 2016	Secretary, Departmental Steering Committee
2013 – 2014	Chair, Departmental Steering Committee
2013	Member, Departmental Chair Search Committee
2013 – 2014	Member, Instructor Search Committee
2012 – 2013	Member, Departmental Steering Committee
2012 – 2016	Member, Departmental Newsletter Committee
2011 – 2016	Member, Department of Physics and Astronomy Undergraduate Recruiting Committee
2011	Member, Department of Physics and Astronomy Space Committee
2007 – 2011	Chair, Department of Physics and Astronomy Undergraduate Recruiting Committee
2005 – 2007	Member, Department of Physics and Astronomy Undergraduate Recruiting Committee

Postdoctoral Scholars and Graduate Students

2004 – 2007	Kevin Pearson (Senior Postdoctoral Researcher; now Research Officer, Swansea University, UK)
2009 – 2011	Valerie Mikles (Postdoctoral Researcher; now Physical Scientist, National Oceanic and Atmospheric Administration, MD)
2005 – 2009	Charles Bradley (PhD; now Models and Simulation Scientist at Torch Technologies, Inc., AL)
2008 – 2013	Christopher Britt (PhD; now Public Outreach Scientist, Space Telescope Science Institute, MD)
2012 – 2016	Christopher Johnson (PhD; now Associate-Senior Data Scientist/Developer at Booz Allen Hamilton, MD)
2015 – 2021	Joshua Wetuski (PhD; now Operations Research Analyst at Redstone Arsenal, AL)
2019 – 2023	Alexander Igl (PhD; now at White Sands Missile Range, NM)
2022 –	Eric Borowski (Graduate student)

Colloquia and Invited Talks

2024 July	Invited Review at the 45 th COSPAR Scientific Assembly, Busan, Korea: “Rapid optical and infrared observations of black hole X-ray binaries in a multiwavelength context”
2021 June	International Physics Webinar, Pabna University of Science and Technology, Bangladesh, “Outbursts of Galactic Black Holes”
2016 May	Colloquium at the Gemini-South Observatory, Cerro Tololo, Chile, “The Galactic Bulge Survey”
2012 Oct	Research Seminar at the University of Texas at San Antonio, “Prospecting the Bulge of our Galaxy for Black Holes and Neutron Stars”
2011 Apr	Colloquium at the University of Alabama: “Black Holes and Neutron Stars in Binary Systems”
2009 Nov	Invited 5 hour lecture series at the 2009 Instituto de Astrofisica de Canarias Winter School, Tenerife, Spain: “Accretion in Neutron Star and Black Hole Binary Systems”
2009 Apr	Colloquium at University of Florida: “The Search for Galactic Black Holes and Neutron Stars”
2008 Jul	Invited Review at the 37 th COSPAR Scientific Assembly, Montreal, Canada: “Multiwavelength Observations of Neutron Star Transients”
2007 Sep	Invited Review at “High Time-Resolution Astrophysics”, Edinburgh, UK: “High Time Resolution Optical and IR Observations of X-ray Binaries”
2005 Dec	Invited Review at “The Transient Milky Way: A Perspective for MIRAX”, Sao Jose dos Campos, Brazil: “A Multiwavelength Perspective on Variability in Galactic Black Holes”
2005 Jun	Colloquium at the University of Southampton, UK: “A Multiwavelength View of Galactic Black Holes”
2005 Jun	Colloquium at The Open University, UK: “A Multiwavelength View of Galactic Black Holes”
2004 Jul	Invited Review at “The Astrophysics of Cataclysmic Variables and Related Objects”, Strasbourg, France: “Correlated X-ray and Optical Variability in X-ray Binaries”

Courses Taught

ASTR 1102	Introduction to Stellar Astronomy, Fall 2004, Fall 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Fall 2010, Spring 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2017, Summer 2018, Fall 2019, Fall 2021, Fall 2024
PHYS 2110	Particle Mechanics, Summer 2014
ASTR 4221	Stellar Astrophysics, Fall 2016, Fall 2018, Fall 2020, Fall 2022
ASTR 4222	Galactic Astrophysics, Spring 2011, Spring 2013, Spring 2015, Spring 2017, Spring 2019, Spring 2021, Spring 2023
ASTR 4261	Modern Observational Techniques, Fall 2005, Fall 2007, Fall 2009
PHYS 4991	Special Problems in Physics, Fall 2016, Spring 2018
ASTR 7742	Stellar Astrophysics II, Spring 2014, Spring 2016, Spring 2018, Spring 2020, Spring 2022, Spring 2024
ASTR 7783	Special Topics in Astronomy and Astrophysics, Spring 2006, Fall 2008, Fall 2012

Funding

2023 – 2026	Testing the Jet Origin of the Mysterious Infrared Excess in Quiescent Black Hole Binaries Space Telescope Science Institute (PI) \$101,825
2023 – 2026	Black Hole Jet Launching Physics with MIRI Space Telescope Science Institute (Co-I) \$57,110
2023 – 2024	Multiwavelength Studies of Black Hole Binaries in Quiescence NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$10,000
2022 – 2023	The Effects of X-rays on the Optical Signal in X-ray Binaries NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$8,000
2022 – 2025	REU site: Research in Physics & Astronomy at Louisiana State University National Science Foundation (PI) \$340,863
2020 – 2024	X-ray Selected Symbiotics in the Galactic Bulge NASA Chandra X-ray Observatory Archival Program (PI) \$58,000
2019 – 2023	REU site: Research in Physics & Astronomy at Louisiana State University National Science Foundation (PI) \$343,863
2018 – 2021	Ultraviolet Spectroscopy of the Black Hole Transient MAXI J1820+070 Space Telescope Science Institute Guest Observer Program (Co-I) \$9,949
2015– 2018	Longer and Sharper, Deeper and Wider: Leveraging the Chandra Archive to Maximize the Yield of the Galactic Bulge Survey NASA Chandra X-ray Observatory Archival Program (PI) \$64,465
2015 – 2018	Confirmation of the Symbiotic Nature of CXOGBS J173620.2-293338 NASA Chandra X-ray Observatory Guest Observer Program (PI) \$37,999
2015 – 2016	A Search for Historical Outbursts from Galactic Bulge Survey X-ray Binaries NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$5,000
2013 – 2016	Classifying X-ray Sources from the Chandra Galactic Bulge Survey NASA Chandra X-ray Observatory Archival Program (PI) \$58,459
2013 – 2014	Identifying and Characterizing Black Hole and Neutron Star Binaries Among Faint X-ray Sources in the Galactic Bulge NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$5,000
2012 – 2013	Classifying X-ray Sources from the Galactic Bulge Survey NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$5,000
2011 – 2013	Completing the Galactic Bulge Survey: Categorizing the Plethora of Faint X-ray Sources in the Galactic Bulge NASA Chandra X-ray Observatory GO Program (PI) \$9,897
2009 – 2014	Black Hole and Neutron Star Binaries in the Galactic Bulge Survey National Science Foundation Astronomy and Astrophysics Grants (PI) \$268,795
2007 – 2011	Multiwavelength and Multimessenger Observations in Conjunction with the GLAST Satellite Mission NASA/BoR EPSCOR Program (Co-PI) \$1,434,000

2007 – 2009	Reflection Echo Tomography of Black Hole and Neutron Star Binaries NASA/BoR LaSpace Research Initiation Award (PI) \$27,464
2007 – 2008	Optical Observations of the Faintest Accreting Black Holes in the Galaxy Office of Research Faculty Research Grant (PI) \$9,930
2006 – 2009	Echo Tomography of Cygnus X-2 NASA RXTE GO Program (PI) \$20,561
2006 – 2009	X-ray Observations of V404 Cyg NASA/BoR LaSpace Graduate Student Research Assistance (PI) \$12,000
2006 – 2008	High Temperature Accretion Flows and Reprocessing in X-ray Binaries: The ADC Source 4U 1822-371 NASA/STScI HST GO Program (PI) \$9,990
2005 – 2008	The Accretion Rate of Recurrent Novae NASA Galex GO Program (Co-I) \$40,000
2005 – 2007	Echo-Mapping a Quiescent Black Hole NASA XMM-Newton GO Program (PI) \$45,800
2005 – 2006	Probing the Accretion Geometry of a Quiescent Black Hole NASA Chandra X-ray Observatory GO Program (PI) \$9,458
2005	What Does Flickering in Quiescent Black Holes Tell Us? Office of Research Summer Stipend (PI) \$5,000
2004 – 2007	A UV Survey of Quiescent Black Holes and Neutron Stars NASA/STScI HST GO Program (PI) \$62,883

Publications

Refereed Journal Papers

1. *X-ray Timing and Spectral Effects on Optical Behavior in Cygnus X-2*, Igl, A., **Hynes, R.I.**, O'Brien, K., Robinson, E.L., Britt, C.T., 2024, Monthly Notices of the Royal Astronomical Society, 532, 241-258
2. *Links Between Optical and X-ray Light in Scorpius X-1*, Igl, A. B., **Hynes, R. I.**, Britt, C. T., O'Brien, K. S., Mikles, V., 2023, Monthly Notices of the Royal Astronomical Society, 526, 645-660
3. *X-ray observations of two candidate symbiotic binaries in the galactic bulge*, Wetuski, J., **Hynes, R. I.**, Maccarone, T. J., Heinke, C., Torres, M. A. P., Jonker, P. G., Britt, C. T., Steeghs, D., Nelemans, G., 2021, Monthly Notices of the Royal Astronomical Society, 506, 5619-5628
4. *Dynamical modelling of CXOGBS J175553.2-281633: a 10 h long orbital period cataclysmic variable*, Gomez, S., Torres, M. A. P., Jonker, P. G., Kostrzewa-Rutkowska, Z., van Grunsven, T. F. J., Udalski, A., **Hynes, R. I.**, Heinke, C. O., Maccarone, T. J., Salinas, R., Strader, J., 2021, Monthly Notices of the Royal Astronomical Society, 502, 48-59
5. *Constraining the nature of the accreting binary in CXOGBS J174623.5-310550*, Torres, M. A. P., Repetto, S., Wevers, T., Heida, M., Jonker, P. G., **Hynes, R. I.**, Nelemans, G., Wyrzykowski, L., Britt, C. T., Heinke, C. O., 2019, Monthly Notices of the Royal Astronomical Society, 487, 2296-2306
6. *Optical and X-ray Correlations During the 2015 Outburst of the Black Hole V404 Cyg* **Hynes, R. I.**, Robinson, E. L., Terndrup D. M., Gandhi, P., Froning, C. S., Wagner, R. M., Starrfield, S., Dhillon, V. S., Marsh, T. R., 2019, Monthly Notices of the Royal Astronomical Society, 487, 60-78
7. *An elevation of 0.1 light-seconds for the optical jet base in an accreting Galactic black hole system*, Gandhi, P., Bachetti, M., Dhillon, V. S., Fender, R. P., Hardy, L. K., Harrison, F. A., Littlefair, S. P., Malzac, J., Markoff, S., Marsh, T. R., Mooley, K., Stern, D., Tomsick, J. A., Walton, D. J., Casella, P., Vincentelli, F., Altamirano, D., Casares, J., Ceccobello, C., Charles, P. A., Ferrigno, C., **Hynes, R. I.**, Knigge, C., Kuulkers, E., Pahari, M., Rahoui, F., Russell, D. M., Shaw, A. W. 2017, Nature Astronomy, 1, 859-864
8. *Simultaneous Multiwavelength Observations of V404 Cygni during its 2015 June Outburst Decay Strengthen the Case for an Extremely Energetic Jet-base*, Maitra, D., Scarpaci, J. F., Grinberg, V. Reynolds, M. T., Markoff, S., Maccarone, T. J., **Hynes, R. I.**, 2017, The Astrophysical Journal, 851, 148 [11 pages]
9. *Spectroscopic classification of X-ray sources in the Galactic Bulge Survey*, Wevers, T., Torres, M. A. P., Jonker, P. G., Nelemans, G., Heinke, C., Mata Sánchez, D., Johnson, C. B., Gazer, R., Steeghs, D. T. H., Maccarone, T. J., **Hynes, R. I.**, Casares, J., Udalski, A., Wetuski, J., Britt, C. T., Kostrzewa-Rutkowska, Z., Wyrzykowski, L., 2017, Monthly Notices of the Royal Astronomical Society, 470, 4512-4529
10. *Expanding hot flow in the black hole binary SWIFT J1753.5-0127: evidence from optical timing*, Veledina, A., Gandhi, P., **Hynes, R.**, Kajava, J. J. E., Tsygankov, S. S., Revnivtsev, M. G., Durant, M., & Poutanen, J. 2017, Monthly Notices of the Royal Astronomical Society, 470, 48-59
11. *System mass constraints for the accreting millisecond pulsar XTE J1814-338 using Bowen fluorescence*, Wang, L., Steeghs, D., Casares, J., Charles, P. A., Munoz-Darias, T., Marsh, T. R., **Hynes, R. I.**, & O'Brien, K. 2017, Monthly Notices of the Royal Astronomical Society, 466, 2261-2271
12. *Candidate Ha emission and absorption line sources in the Galactic Bulge Survey*, Wevers, T., Jonker, P. G., Nelemans, G., Torres, M. A. P., Groot, P. J., Steeghs, D., Maccarone, T. J., **Hynes, R. I.**, Heinke, C., & Britt, C. 2017, Monthly Notices of the Royal Astronomical Society, 466, 163-173
13. *CXOGBS J174954.5-294335: a new deeply eclipsing intermediate polar*, Johnson, C. B., Torres, M. A. P., Hynes, R. I., Jonker, P. G., Heinke, C., Maccarone, T., Britt, C. T., Steeghs, D., Wevers, T., & Wu, J. 2017, Monthly Notices of the Royal Astronomical Society, 466, 129-137
14. *Discovery of a high state AM CVn binary in the Galactic Bulge Survey*, Wevers, T., Torres, M. A. P., Jonker, P. G., Wetuski, J. D., Nelemans, G., Steeghs, D., Maccarone, T. J., Heinke, C., Hynes, R. I., Udalski, A., Kostrzewa-Rutkowska, Z., Groot, P. J., Gazer, R., Szymanski, M. K., Britt, C. T., Wyrzykowski, L., & Poleski, R. 2016, Monthly Notices of the Royal Astronomical Society, 462, L106-L110
15. *Discovery of a long-lived, high-amplitude dusty infrared transient*, Britt, C. T., Maccarone, T. J., Green, J. D., Jonker, P. G., Hynes, R. I., Torres, M. A. P., Strader, J., Chomiuk, L., Salinas, R., Lucas, P., Contreras Pena, C., Kurtev, R., Heinke, C., Smith, L., Wright, N. J., Johnson, C., Steeghs, D., & Nelemans, G. 2016, Monthly Notices of the Royal Astronomical Society, 460, 2822-2833

16. *On the Optical-X-Ray Correlation from Outburst to Quiescence in Low-mass X-Ray Binaries: The Representative Cases of V404 Cyg and Cen X-4*, Bernardini, F., Russell, D. M., Kolojonen, K. I. I., Stella, L., Hynes, R. I., & Corbel, S. 2016, *The Astrophysical Journal*, 826, 149 [12 pages]
17. *Kepler K2 Observations of Sco X-1: Orbital Modulations and Correlations with Fermi GBM and MAXI*, **Hynes, R. I.**, Schaefer, B. E., Baum, Z. A., Hsu, C.-C. Cherry, M. L., Scaringi, S., 2016, *Monthly Notices of the Royal Astronomical Society*, 459, 3596-3613
18. *Furiously fast and red: sub-second optical flaring in V404 Cyg during the 2015 outburst peak*, Gandhi, P., Littlefair, S. P., Hardy, L. K., Dhillon, V. S., Marsh, T. R., Shaw, A. W., Altamirano, D., Caballero-Garcia, M. D., Casares, J., Casella, P., Castro-Tirado, A. J., Charles, P. A., Dallilar, Y., Eikenberry, S., Fender, R. P., **Hynes, R. I.**, Knigge, C., Kuulkers, E., Mooley, K., Muñoz-Darias, T., Pahari, M., Rahoui, F., Russell, D. M., Hernández Santisteban, J. V., Shahbaz, T., Terndrup, D. M., Tomsick, J., Walton, D. J., 2016, *Monthly Notices of the Royal Astronomical Society*, 459, 554-572
19. *The Chandra Galactic Bulge Survey: optical catalogue and point-source counterparts to X-ray sources*, Wevers, T., Hodgkin, S. T., Jonker, P. G., Bassa, C., Nelemans, G., van Grunsven, T., Gonzalez-Solares, E. A., Torres, M. A. P., Heinke, C., Steeghs, D., Maccarone, T. J., Britt, C., **Hynes, R. I.**, Johnson, C., Wu, J. 2016, *Monthly Notices of the Royal Astronomical Society*, 458, 4530-4546
20. *As Above, So Below: Exploiting Mass Scaling in Black Hole Accretion to Break Degeneracies in Spectral Interpretation*, Markoff, S., Nowak, M. A., Gallo, E., **Hynes, R. I.**, Wilms, J., Plotkin, R. M., Maitra, D., Silva, C. V., Drapeau, S., *The Astrophysical Journal Letters*, 812, L25 [6 pages]
21. *Sco X-1 revisited with Kepler, MAXI and HERMES: outflows, time-lags and echoes unveiled*, Scaringi, S., Maccarone, T. J., **Hynes, R. I.**, Körding, E., Ponti, G., Knigge, C., Britt, C. T., van Winckel, H., *Monthly Notices of the Royal Astronomical Society*, 451, 3857-3867
22. *The relationship between X-ray luminosity and duty cycle for dwarf novae and their specific frequency in the inner Galaxy*, Britt, C. T., Maccarone, T., Pretorius, M. L., **Hynes, R. I.**, Jonker, P. G., Torres, M. A. P., Knigge, C., Johnson, C. O., Heinke, C. B., Steeghs, D., Greiss, S., Nelemans, G. 2015, *Monthly Notices of the Royal Astronomical Society*, 448, 3455-3462
23. *Gemini Spectroscopy of Galactic Bulge Sources Reveals a Population of Hidden Accreting Binaries*, Wu, J., Jonker, P. G., Torres, M. A. P., Britt, C. T., Johnson, C. B., **Hynes, R. I.**, Greiss, S., Steeghs, D., Maccarone, T. J., 2015, *Monthly Notices of the Royal Astronomical Society*, 448, 1900-1915
24. *HD 314884: A Slowly Pulsating B star in a Close Binary*, Johnson, C. B., **Hynes, R. I.**, Maccarone, T., Britt, C. T., Davis, H., III, Jonker, P. G., Torres, M. A. P., Steeghs, D., Greiss, S., Nelemans, G. 2014, *Monthly Notices of the Royal Astronomical Society*, 444, 1584-1590
25. *Variability of Optical Counterparts in the Chandra Galactic Bulge Survey*, Britt, C. T., **Hynes, R. I.**, Johnson, C. B., Baldwin, A., Jonker, P. G., Nelemans, G., Torres, M. A. P., Maccarone, T., Steeghs, D., Greiss, S., Heinke, C., Bassa, C. G., Collazzi, A., Villar, A., Gabb, M., Gossen, L., 2014, *Astrophysical Journal Supplement*, 214, 10 [28 pages]
26. *Identification of 23 accreting binaries in the Galactic Bulge Survey*, Torres, M. A. P., Jonker, P. G., Britt, C. T., Johnson, C. B., **Hynes, R. I.**, Greiss, S., Steeghs, D., Maccarone, T. J., Ozel, F., Bassa, C., & Nelemans, G. 2014, *Monthly Notices of the Royal Astronomical Society*, 440, 365-386
27. *Near-infrared counterparts to the Galactic Bulge Survey X-ray source population*, Greiss, S., Steeghs, D., Jonker, P. G., Torres, M. A. P., Maccarone, T. J., **Hynes, R. I.**, Britt, C. T., Nelemans, G., & Gaensicke, B. T. 2014, *Monthly Notices of the Royal Astronomical Society*, 438, 2839-2852
28. *The Galactic Bulge Survey: Completion of the X-Ray Survey Observations*, Jonker, P. G., Torres, M. A. P., **Hynes, R. I.**, Maccarone, T. J., Steeghs, D., Greiss, S., Britt, C. T., Wu, J., Johnson, C. B., Nelemans, G., & Heinke, C. 2014, *The Astrophysical Journal Supplement Series*, 210, 18 [10 pages]
29. *Multiwavelength Observations of Swift J1753.5-0127*, Froning, C. S., Maccarone, T. J., France, K., Winter, L., Robinson, E. L., **Hynes, R. I.**, & Lewis, F. 2014, *The Astrophysical Journal*, 780, 48 [10 pages]
30. *CXOGS J173620.2-293338: A Candidate Symbiotic X-Ray Binary Associated with a Bulge Carbon Star*, **Hynes, R. I.**, Torres, M. A. P., Heinke, C. O., Maccarone, T. J., Mikles, V. J., Britt, C. T., Knigge, C., Greiss, S., Jonker, P. G., Steeghs, D., Nelemans, G., Bandyopadhyay, R. M., & Johnson, C. B. 2014, *The Astrophysical Journal*, 780, 11 [9 pages]
31. *Measuring the Evolutionary Rate of Cooling of ZZ Ceti*, Mukadam, A. S., Bischoff-Kim, A., Fraser, O., Corsico, A. H., Montgomery, M. H., Kepler, S. O., Romero, A. D., Winget, D. E., Hermes, J. J., Riecken, T. S., Kronberg, M. E., Winget, K. I., Falcon, R. E., Chandler, D. W., Kuehne, J. W., Sullivan, D. J., Reaves, D., von Hippel, T., Mullally, F., Shipman, H., Thompson, S. E., Silvestri, N. M., & **Hynes, R. I.** 2013, *The Astrophysical Journal*, 771, 17 [11 pages]

32. *Identification of Five Interacting Binaries in the Galactic Bulge Survey*, Britt, C. T., Torres, M. A. P., **Hynes, R. I.**, Jonker, P. G., Maccarone, T. J., Greiss, S., Steeghs, D., Groot, P., Knigge, C., Dieball, A., Nelemans, G., Mikles, V. J., & Gossen, L. 2013, *The Astrophysical Journal*, 769, 120 [9 pages]
33. *CXOGBS J174444.7-260330: a new long orbital period cataclysmic variable in a low state*, Ratti, E. M., van Grunsven, T. F. J., Jonker, P. G., Britt, C. T., **Hynes, R. I.**, Steeghs, D., Greiss, S., Torres, M. A. P., Maccarone, T. J., Groot, P. J., Knigge, C., Gossen, L., Mikles, V., Villar, V. A., & Collazzi, A. C. 2013, *Monthly Notices of the Royal Astronomical Society*, 428, 3543-3550
34. *Identification of Galactic Bulge Survey X-Ray Sources with Tycho-2 Stars*, **Hynes, R. I.**, Wright, N. J., Maccarone, T. J., Jonker, P. G., Greiss, S., Steeghs, D., Torres, M. A. P., Britt, C. T., & Nelemans, G. 2012, *The Astrophysical Journal*, 761, #162 [22 pages]
35. *Radio Sources in the Chandra Galactic Bulge Survey*, Maccarone, T.J., Greiss, S., Torres, M.A.P., Britt, C.T., **Hynes, R.I.**, Jonker, P.G., Steeghs, D., Wijnands, R., Nelemans, G., 2012, *Monthly Notices of the Royal Astronomical Society*, 426, 3057-3069
36. *The Orbital Period of Scorpius X-1*, **Hynes, R. I.**, & Britt, C. T. 2012, *The Astrophysical Journal*, 755, #66 [3 pages]
37. *Optical and Infrared Lightcurves of V395 Car*, Ashcraft, T., **Hynes, R.I.**, Robinson, E.L., 2012, *Monthly Notices of the Royal Astronomical Society*, 424, 620-624
38. *Gemini/GMOS Spectroscopy of EXO 0748-676 (=UY Vol) in Outburst*, Mikles, V.J., **Hynes, R.I.**, 2012, *The Astrophysical Journal*, 750, #132 [12 pages]
39. *The Ultraviolet Spectral Energy Distributions of Quiescent Black Holes and Neutron Stars*. **Hynes, R.I.**, Robinson E.L., 2012, *The Astrophysical Journal*, 749, #3 [8 pages]
40. *Millihertz Quasi-Periodic Optical Oscillations in 4U 0614+091*. Zhang, Y., **Hynes, R.I.**, Robinson E.L., 2012, *Monthly Notices of the Royal Astronomical Society*, 419, 2943-2948
41. *Multiwavelength Observations of A0620-00 in Quiescence*. Froning, C.S., Cantrell, A.G., Maccarone T.J., France, K., Khargharia, J., Winter, L.M., Robinson, E.L., **Hynes, R.I.**, Broderick, J.W., Markoff, S., Torres, M.A.P., Garcia, M., Bailyn, C.D., Prochaska, J.X., Werk, J., Thom, C., Béland, S., Danforth, C.W., Keeney, B., Green, J.C., 2011, *The Astrophysical Journal*, 743, #26 [14 pages]
42. *The Galactic Bulge Survey: Outline and X-ray Observations*. Jonker P.G., Bassa C.G., Nelemans G., Steeghs D., Torres M.A.P., Maccarone T.J., **Hynes R.I.**, Greiss S., Clem J., Dieball A., Mikles V.J., Britt C.T., Gossen L., Collazzi A.C., Wijnands R., In't Zand J.J.M., Méndez M., Rea N., Kuulkers E., Ratti E.M., van Haaften L.M., Heinke C., Özel F., Groot P.J., Verbunt F., 2011, *The Astrophysical Journal*, 194, #18 [11 pages]
43. *High Time-Resolution Optical/X-ray Cross-Correlations for X-ray Binaries: Anti-Correlations and Rapid Variability*. Durant M., Shahbaz T., Gandhi P., Cornellesse R., Munoz-Darias T., Casares J., Dhillon V., Marsh T., Spruit H., O'Brien K., Steeghs D., **Hynes R.**, 2011, *Monthly Notices of the Royal Astronomical Society*, 410, 2329-2338
44. *The Complete Spectrum of a Neutron Star X-ray Binary*. Migliari S., Tomsick, J.A., Millier-Jones J.C.A., Heinz S., **Hynes R.I.**, Fender R.P., Gallo E., Jonker P.G., Maccarone, T., 2010, *The Astrophysical Journal*, 710, 117-124
45. *The Structure of the Accretion Disk in the ADC X-Ray Binary 4U 1822-371 at Optical and UV Wavelengths*. Bayless, A.J., Robinson, E.L., **Hynes, R.I.**, Ashcraft T.A., Cornell M.E., 2010, 709, 251-262
46. *The Quiescent Spectral Energy Distribution of V404 Cyg*. **Hynes, R.I.**, Bradley, C.K., Rupen, M., Gallo, E., Fender, R.P., Casares, J., Zurita, C., 2009, *Monthly Notices of the Royal Astronomical Society*, 399, 2239-2248
47. *Echo Mapping of Swift J1753.5-0127*. **Hynes, R.I.**, O'Brien, K., Mullally, F., Ashcraft, T., 2009, *Monthly Notices of the Royal Astronomical Society*, 399, 281-286
48. *The Quiescent Optical and Infrared Counterpart to EXO 0748-676*. **Hynes, R.I.**, Jones, E.D., 2009, *The Astrophysical Journal Letters*, 697, L14-17
49. *An anti-correlation between X-ray luminosity and Ha equivalent width in X-ray binaries*. Fender, R.P., Russell, D.M., Knigge, C., Soria, R., **Hynes, R.I.**, Goad, M., 2009, *Monthly Notices of the Royal Astronomical Society*, 393, 1608-1616
50. *The Orbital Period and Time-variable Asymmetric Accretion Disk in the X-Ray Binary MS 1603.6+2600 (=UW Coronae Borealis)*. Mason, P.A., Robinson, E.L., Gray, C.L., **Hynes, R.I.**, 2008, *The Astrophysical Journal*, 685, 428-435
51. *A signature of the donor star in the extra-galactic X-ray binary LMC X-2*. Cornellesse, R., Steeghs, D., Casares, J., Charles, P.A., Shih, I.C., **Hynes, R.I.**, O'Brien, K., 2007, *Monthly Notices of the Royal Astronomical Society*, 381, 194-200

52. *Optical spectroscopy of the low-mass X-ray binary GX 9+9*. Cornelisse, R., Steeghs, D., Casares, J., Charles, P.A., Barnes, A.D., **Hynes, R.I.**, O'Brien, K., 2007, Monthly Notices of the Royal Astronomical Society, 380, 1219-1229
53. *Kinematical studies of the low-mass X-ray binary GR Mus (XB 1254-690)*. Barnes, A.D., Casares, J. Cornelisse, R., Charles, P.A., Steeghs, D., **Hynes, R.I.**, O'Brien, K., 2007 Monthly Notices of the Royal Astronomical Society, 380, 1182-1190
54. *The Spectrum of the Black Hole X-Ray Nova V404 Cygni in Quiescence as Measured by XMM-Newton*. Bradley, C.K., **Hynes, R.I.**, Kong, A.K.H., Haswell, C.A., Casares, J., Gallo, E., 2007, The Astrophysical Journal, 667, 427-432
55. *A detection of the donor star of Aquila X-1 during its 2004 outburst?* Cornelisse, R., Casares, J., Steeghs, D., Barnes, A.D., Charles, P.A., **Hynes, R.I.**, O'Brien, K., 2007, Monthly Notices of the Royal Astronomical Society, 375, 1463-1470
56. *Detection of the irradiated donor in the LMXBs 4U 1636-536 (=V801 Ara) and 4U 1735-444 (=V926 Sco)*. Casares, J., Cornelisse, R., Steeghs, D., Charles, P.A., **Hynes, R.I.**, O'Brien, K., Strohmayer, T.E., 2006, Monthly Notices of the Royal Astronomical Society, 373, 1235-1244
57. *Further Evidence for Variable Synchrotron Emission in XTE J1118+480 in Outburst*. **Hynes, R.I.**, Robinson, E.L., Pearson, K.J., Gelino, D.M., Cui, W., Xue, Y.Q., Wood, M.A., Watson, T.K., Winget, D.E., Silver, I.M., 2006, The Astrophysical Journal, 651, 401-407
58. *Global optical/infrared-X-ray correlations in X-ray binaries: quantifying disc and jet contributions*. Russell, D.M., Fender, R.P. **Hynes, R.I.**, Brocksopp, C., Homan, J., Jonker, P.G., Buxton, M.M., 2006, Monthly Notices of the Royal Astronomical Society, 371, 1344-1350
59. *Multiwavelength Observations of EXO 0748-676. II. Emission-Line Behavior*. Pearson, K.J., **Hynes, R.I.**, Steeghs, D., Jonker, P.G., Haswell, C.A., King, A.R., O'Brien, K., Nelemans, G., Mendez, M., 2006, The Astrophysical Journal, 648, 1169-1180
60. *Multiwavelength Observations of EXO 0748-676. I. Reprocessing of X-Ray Bursts*. **Hynes, R.I.**, Horne, K., O'Brien, K., Haswell, C.A., Robinson, R.L., King, A.R., Charles, P.A., Pearson, K.J., 2006, The Astrophysical Journal, 648, 1156-1168
61. *VW Hyi: optical spectroscopy and Doppler tomography*. Smith, A.J., Haswell, C.A., **Hynes, R.I.**, 2006, Monthly Notices of the Royal Astronomical Society, 369, 1537-1546
62. *The Dwarf Nova PQ Andromedae*. Patterson, J., Thorstensen, J.R., Armstrong, E., Henden, A.A., **Hynes, R.I.**, 2005, Publications of the Astronomical Society of the Pacific, 117, 922-927
63. *ULTRACAM observations of the black hole X-ray transient XTE J1118+480 in quiescence*. Shahbaz, T., Dhillon, V.S., Marsh, T.R., Casares, J., Zurita, C., Charles, P.A., Haswell, C.A., **Hynes, R.I.**, 2005, Monthly Notices of the Royal Astronomical Society, 362, 975-982
64. *Observational Constraints on Cool Disk Material in Quiescent Black Hole Binaries*. **Hynes, R.I.**, Robinson, E.L., Bitner, M., 2005, The Astrophysical Journal, 630, 405-412
65. *The Optical and Ultraviolet Spectra of Short Period Black Hole X-ray Transients in Outburst*. **Hynes R.I.**, 2005, The Astrophysical Journal, 623, 1026-1043
66. *The radio spectrum of a quiescent stellar mass black hole*. Gallo, E., Fender, R.P., **Hynes, R.I.**, 2005, Monthly Notices of the Royal Astronomical Society, 356, 1017-1021
67. *The Massive Neutron Star or Low-Mass Black Hole in 2S 0921-630*. Shahbaz, T., Casares, J., Watson, C.A., Charles, P.A., **Hynes, R.I.**, Shih, S.C., Steeghs, D., 2004, The Astrophysical Journal Letters, 616, L123-L126
68. *Time-resolved Ultraviolet Spectroscopy of the SW Sex Star DW UMa: Confirmation of a Hidden White Dwarf and the Ultraviolet Counterpart to Phase 0.5 Absorption Events*. Knigge, C. Araujo-Betancor, S. Gaensicke, B.T., Long, K.S., Szkody, P., Hoard, D.W., **Hynes, R.I.**, Dhillon, V.S., The Astrophysical Journal Letters, 615, L129-L132
69. *Optical Spectroscopy of the Flares From the Black Hole X-ray Transient A0620-00 in Quiescence*. Shahbaz T., **Hynes R.I.**, Charles P.A., Zurita C., Casares J., Haswell C.A., Araujo-Betancor S., Powell C., 2004, Monthly Notices of the Royal Astronomical Society, 354, 31-42
70. *Indirect Evidence of an Active Radio Pulsar in the Quiescent State of the Transient Millisecond Pulsar SAX J1808.4-3658*. Campana S., D'Avanzo P., Casares J., Covino S., Israel G., Marconi G., **Hynes R.I.**, Charles P.A., Stella L., 2004, The Astrophysical Journal Letters, 614, L49-L52
71. *Long-term optical/infrared variability in the quiescent X-ray transient V404 Cyg*. Zurita C., Casares J., **Hynes R.I.**, Shahbaz T., Charles P.A., Pavlenko E.P., 2004, Monthly Notices of the Royal Astronomical Society, 353, 877-886
72. *Correlated X-ray and Optical Variability in V404 Cyg in Quiescence*. **Hynes R.I.**, Charles P.A., Garcia M.R., Robinson E.L., Casares J., Haswell C.A., Kong A.K.H., Rupen M., Fender R.P., Wagner R.M., Gallo E., Eves B.A.C., Shahbaz T., Zurita C., 2004, The Astrophysical Journal Letters, 611, L125-L128

73. *The Distance and Interstellar Sight Line to GX 339-4.* **Hynes R.I.**, Steeghs D., Casares J., Charles P.A., O'Brien K., 2004, *The Astrophysical Journal*, 609, 317-324
74. *Discovery of Optical Bursts from MS 1603.6+2600 = UW CrB.* **Hynes R.I.**, Robinson E.L., Jeffery E., 2004, *The Astrophysical Journal Letters*, 608, L101-L104
75. *Spectroscopy of the Optical Counterpart to Ser X-1.* **Hynes R.I.**, Charles P.A., van Zyl L., Barnes A., Steeghs D., O'Brien K., Casares J., 2004, *Monthly Notices of the Royal Astronomical Society*, 348, 100-104
76. *Multicolour Observations of V404 Cyg with ULTRACAM.* Shahbaz T., Dhillon V.S., Marsh T.R., Zurita C., Haswell C.A., Charles P.A., **Hynes R.I.**, Casares J., 2003, *Monthly Notices of the Royal Astronomical Society*, 346, 1116-1124
77. *Multiwavelength Observations Revealing the Evolution of the Outburst of the Black Hole XTE J1118+480.* Chaty S., Haswell C.A., Malzac J., **Hynes R.I.**, Shrader C.R., Cui W., 2003, *Monthly Notices of the Royal Astronomical Society*, 346, 689-703
78. *The Remarkable X-ray, Ultraviolet and Infrared Variability in XTE J1118+480.* **Hynes R.I.**, Haswell C.A., Cui W., Shrader C. R., O'Brien K., Chaty S., Skillman D. R., Patterson J., Horne K., 2003, *Monthly Notices of the Royal Astronomical Society*, 345, 292-310
79. *Bowen Fluorescence From the Companion Star in X 1822-371.* Casares J., Steeghs D., **Hynes R.I.**, Charles P.A., O'Brien K., 2003, *The Astrophysical Journal*, 590, 1041-1048
80. *Fast Photometry of Quiescent Soft X-ray Transients With the Acquisition Camera on Gemini-South.* **Hynes R.I.**, Charles P.A., Casares J., Haswell C.A., Zurita C., Shahbaz T., 2003, *Monthly Notices of the Royal Astronomical Society*, 340, 447-456
81. *Dynamical Evidence for a Black Hole in GX 339-4.* **Hynes R.I.**, Steeghs D., Casares J., Charles P.A., O'Brien K., 2003, *The Astrophysical Journal Letters*, 583, L95-L98
82. *The System Parameters of DW Ursae Majoris.* Araujo-Betancor S., Knigge C., Long K.S., Hoard D.W., Szkody P., Rodgers B., Krisciunas K., Dhillon V.S., **Hynes R.I.**, Patterson J., Kemp J., 2003, *The Astrophysical Journal*, 583, 437-445
83. *Discovery of 15 Second Oscillations in Hubble Space Telescope Observations of WZ Sagittae Following the 2001 Outburst.* Knigge C., **Hynes R.I.**, Steeghs D., Long K.S., Araujo-Betancor S., Marsh T.R., 2002, *The Astrophysical Journal Letters*, 580, L151-L155
84. *Spectroscopic Observations of the Radio Bright B[e]/X-ray Binary CI Cam.* **Hynes R.I.**, Clark J.S., Barsukova E. A., Callanan P. J., Charles P. A., Collier Cameron A., Fabrika S. N., Garcia M. R., Haswell C. A., Horne K., Miroshnichenko A., Negueruela I., Reig P., Welsh W. F., Witherick D. K., 2002, *Astronomy and Astrophysics*, 392, 991-1013
85. *Echoes in X-ray Binaries.* O'Brien K., Horne K., **Hynes R.I.**, Chen W., Haswell C.A., Still M.D., 2002, *Monthly Notices of the Royal Astronomical Society*, 334, 426-434
86. *Detection of Superhumps in XTE J1118+48 Approaching Quiescence.* Zurita C., Casares J., Shahbaz T., Wagner R.M., Foltz C.B., Rodriguez-Gil P., **Hynes R.I.**, Charles P.A., Starrfield S.G., 2002, *Monthly Notices of the Royal Astronomical Society*, 333, 791-799
87. *The Ultraviolet Line Spectrum of the Soft X-ray Transient XTE J1118+480: A CNO-processed Core Exposed.* Haswell C.A., **Hynes R.I.**, King A.R., Schenker K., 2002, *Monthly Notices of the Royal Astronomical Society*, 332, 928-932
88. *The Evolving Accretion Disc in the Black Hole X-ray Transient XTE J1859+226.* **Hynes R.I.**, Haswell C.A., Chaty S., Shrader C.R., Cui W., 2002, *Monthly Notices of the Royal Astronomical Society*, 331, 169-179
89. *Ha Flares in V404 Cyg.* **Hynes R.I.**, Zurita C., Haswell C.A., Casares J., Charles P.A., Pavlenko E.P., Shugarov S. Yu, Lott D.A., 2002, *Monthly Notices of the Royal Astronomical Society*, 330, 1009-1021
90. *An Optimal Extraction of Spatially Blended Spectra.* **Hynes R.I.**, 2002, *Astronomy and Astrophysics*, 382, 752-757
91. *Modeling the Low State Spectrum of the X-ray Nova XTE J1118+480.* Esin A.A., McClintock J.E., Drake J.J., Garcia M.R., Haswell C.A., **Hynes R.I.**, Marshall H.L., Muno M.P., 2001, *The Astrophysical Journal*, 555, 483-488
92. *Complete and Simultaneous Spectral Observations of the Black Hole Candidate XTE J1118+480.* McClintock J.E., Haswell C.A., Garcia M.R., Drake J.J., **Hynes R.I.**, Marshall H.L., Muno M.P., Chaty S., Garnavich P. M., Groot P. J., Lewin W. H. G., Mauche C. W., Miller J. M., Pooley G. G., Shrader C. R., Vrtilik S. D., 2001, *The Astrophysical Journal*, 555, 477-482
93. *Optical Studies of the X-ray Transient XTE J2123-058 – II. Phase-resolved Spectroscopy.* **Hynes R.I.**, Charles P.A., Haswell C.A., Casares J., Zurita C., Serra-Ricart M., 2001, *Monthly Notices of the Royal Astronomical Society*, 324, 180-190

94. *The X-ray Transient XTE J1118+480: Multiwavelength Observations of a Low-state Mini-outburst.* **Hynes R.I.**, Mauche C.W., Haswell C.A., Shrader C.R., Cui W., Chaty S., 2000, *The Astrophysical Journal Letters*, 539, L37-L40
95. *Optical Studies of the X-ray Transient XTE J2123-058 – I. Photometry.* Zurita C., Casares J., Shahbaz T., Charles P.A., **Hynes R.I.**, Shugarov S., Goransky V., Pavlenko E.P., Kuznetsova Y., Harlaftis E.T., Dapergolas A., Galloway D., 2000, *Monthly Notices of the Royal Astronomical Society*, 316, 137-142
96. *Discovery of High-frequency QPOs in Black Hole Candidate XTE J1859+226.* Cui W., Shrader C.R., Haswell C.A., **Hynes R.I.**, 2000, *The Astrophysical Journal Letters*, 535, L123-127
97. *Photometric Observations of the Radio Bright B[e]/X-ray Binary CI Cam.* Clark J.S., Mirosnichenko A.S., Larionov G.M., Lyuty V.M., **Hynes R.I.**, G.G. Pooley, Coe M. J., McCollough M., Dieters S., Efimov Yu.S., Fabregat J., Goranskii V. P., Haswell C. A., Metlova N. V., Robinson E. L., Roche P., Shenavrin V. I., Welsh W. F., , 2000, *Astronomy and Astrophysics*, 356, 50-62
98. *The 1996 Outburst of GRO J1655-40: Disc Irradiation and Enhanced Mass Transfer.* Esin A.A., Lasota J.-P., **Hynes R.I.**, 2000, *Astronomy and Astrophysics*, 354, 987-994
99. *The X-ray Transient XTE J2012+381.* **Hynes R.I.**, Roche P., Charles P.A., Coe M.J., 1999, *Monthly Notices of the Royal Astronomical Society Letters*, 305, L49-L53
100. *Hubble Space Telescope Observations of the Black Hole X-Ray Transient GRO J0422+32 Near Quiescence.* **Hynes R.I.**, Haswell C.A., 1999, *Monthly Notices of the Royal Astronomical Society*, 303, 101-106
101. *The 1996 Outburst of GRO J1655-40: The Challenge of Interpreting the Multiwavelength Spectra.* **Hynes R.I.**, Haswell C.A., Shrader C.R., Chen W., Horne K., Harlaftis E.T., O'Brien K., Hellier C., Fender R.P., 1998, *Monthly Notices of the Royal Astronomical Society*, 300, 64-82
102. *Echoes from an Irradiated Disc in GRO J1655-40.* **Hynes R.I.**, O'Brien K., Horne K., Chen W., Haswell C.A., 1998, *Monthly Notices of the Royal Astronomical Society Letters*, 299, L37-L41
103. *A Critique of Disentangling as a Method of Deriving Spectroscopic Orbits.* **Hynes R.I.**, Maxted P.F.L., 1998, *Astronomy and Astrophysics*, 331, 167-170

Conference Proceedings

104. *The Chandra Galactic Bulge Survey*, Britt, C. T., **Hynes, R. I.**, Jonker, P. G., Maccarone, T. J., Torres, M. A. P., Steeghs, D., Nelemans, G., Johnson, C. B., Greiss, S., 2015, *Proceedings of Fifty Years of Wide Field Studies in the Southern Hemisphere: Resolved Stellar Populations in the Galactic Bulge and the Magellanic Clouds*, Eds. S. Points and A. Kunder, ASP Conference Series, Vol. 491, p. 77, San Francisco: Astronomical Society of the Pacific
105. *Examining XMM Observations Made in the Galactic Bulge Survey Region*, Estrada-Carpenter, V., & **Hynes, R.** 2013, *Proceedings of the Frank N. Bash Symposium 2013: New Horizons in Astronomy (BASH 2013)*. 6-8 October, 2013. Austin, Texas, Published Online
106. *Measuring the Evolutionary Rate of Cooling of ZZ Ceti*, Mukadam, A. S., Kim, A., Montgomery, M. H., Corsico, A. H., Kepler, S. O., Romero, A. D., Winget, D. E., Fraser, O., Riecken, T. S., Kronberg, M. E., Hermes, J. J., Winget, K. I., Falcon, R. E., Chandler, D. W., Kuehne, J. W., Sullivan, D. J., Reaves, D., von Hippel, T., Mullally, F., Shipman, H., Thompson, S. E., Silvestri, N. M., & **Hynes, R. I.** 2013, *Proceedings of 18th European White Dwarf Workshop*, Edited by J. Krzesiński, G. Stachowski, P. Moskalik, and K. Bajan. ASP Conference Proceedings, Vol. 469. San Francisco: Astronomical Society of the Pacific., p.15
107. *Optical Observations of the Z Sources Sco X-1 and Sco X-2 (GX349+2)*, **Hynes, R.** 2012, *Proceedings of X-ray Binaries. Celebrating 50 Years Since the Discovery of Sco X-1*, Published Online
108. *The Galactic Bulge Survey--Multi-Wavelength Observations*, Torres, M., Jonker, P., Bassa, C., Nelemans, G., Steeghs, D., Maccarone, T., **Hynes, R.**, Greiss, S., Clem, J., Dieball, A., Mikles, V., Britt, C., Gossen, L., Collazzi, A., Wijnands, R., Zand, J. I., Mendez, M., Rea, N., Kuulkers, E., Ratti, E., van Haaften, L., Heinke, C., Ozel, F., Groot, P., & Verbunt, F. 2012, *Proceedings of Science from the Next Generation Imaging and Spectroscopic Surveys*, ESO Garching, 15-18 October 2012, Published Online
109. *Fitting Along the Fundamental Plane: New Comparisons of Jet Physics Across the Black Hole Mass Scale.* Markoff S., Nowak M. A., Maitra D., Wilms J., Gallo E., **Hynes R.**, Plotkin R., 2011, in *Proceedings of the International Astronomical Union*, Vol. 6, Symposium 275, 250-254
110. *The Structure of the Accretion Disk in the ADC Source 4U 1822-371.* Bayless A. J., Robinson E. L., **Hynes R. I.**, Ashcraft, T. A., Cornell M. E., in proceedings of “X-ray Astronomy 2009; Present Status, Multi-wavelength Approach and Future Perspectives”, American Institute of Physics Conference Proceedings, 1248, 141-142

111. *Echo Tomography of Cygnus X-2*. **Hynes, R.I.**, Robinson, E.L., Bayless, A. O'Brien, K., 2008, in proceedings of "A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments", Eds. R.M. Bandyopadhyay, S. Wachter, D. Gelino, C.R. Gelino, American Institute of Physics Conference Proceedings, 1010, 198-200
112. *Optical and UV Light Curves of the Accretion Disk Corona Source 4U 1822-371*. Bayless, A.J., Robinson, E.L., Cornell, M.E., **Hynes, R.I.**, Ashcraft, T.A., 2008, in proceedings of "A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments", Eds. R.M. Bandyopadhyay, S. Wachter, D. Gelino, C.R. Gelino, American Institute of Physics Conference Proceedings, 1010, 174-176
113. *An Overview of the Bowen Survey: Detecting Donor Star Signatures in Low Mass X-ray Binaries*. Cornelisse, R., Casares, J. Munoz-Darias, T., Steeghs, D., Charles, P., **Hynes, R.**, O'Brien, K., Barnes, A., 2008, in proceedings of "A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments", Eds. R.M. Bandyopadhyay, S. Wachter, D. Gelino, C.R. Gelino, American Institute of Physics Conference Proceedings, 1010, 148-152
114. *Radio Imaging of V404 Cyg*. Mioduszewski, A., **Hynes, R.**, Rupen, M.P., Dhawan, V., 2008, in proceedings of "A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments", Eds. R.M. Bandyopadhyay, S. Wachter, D. Gelino, C.R. Gelino, American Institute of Physics Conference Proceedings, 1010, 74-77
115. *High Time Resolution Optical, UV, and IR Observations of X-ray Binaries*. **Hynes, R.I.**, 2008, in proceedings of "High Time Resolution Astrophysics: The Universe at Sub-Second Timescales", Eds. D. Phelan, O. Ryan, A. Shearer, American Institute of Physics Conference Proceedings, 984, 3-14
116. *Multiwavelength Variability in Transient Black Hole Binaries*. **Hynes, R.I.**, 2006, in proceedings of "The Transient Milky Way: A Perspective for MIRAX", Eds. J. Braga, F. D'Amico, R.E. Rothschild, American Institute of Physics Conference Proceedings, 840, 88-92
117. *Indirect evidence for an active radio pulsar in SAX J1808.4-3658 during quiescence*. Campana, S., D'Avanzo, P., Stella, L., Israel, G.L., Marconi, G., Casares, J., **Hynes, R.**, Charles, P., 2005 in proceedings of "Interacting Binaries: Accretion, Evolution, and Outcomes", Eds. L. Burderi, L.A. Antonelli, F. D'Antona, T. Di Salvo, G. Israel, L. Piersanti, A. Tornambe, O. Straniero, American Institute of Physics Conference Proceedings, 797, 81-86
118. *Correlated X-ray and Optical Variability in X-ray Binaries*. **Hynes, R.I.**, 2005, in proceedings of "The Astrophysics of Cataclysmic Variables and Related Objects", Eds. J.M. Hameury, J.-P. Lasota, Astronomical Society of the Pacific Conference Series, 330, 237-250
119. *Discovery of 15-second Oscillations in HST observations of WZ Sge following the 2001 Outburst*. Araujo-Betancor, S., Knigge, C., Marsh, T.R., **Hynes, R.I.**, Steeghs, D., Long, K.S., 2004, in proceedings of "International Astronomical Union Colloquium 190: Magnetic Cataclysmic Variables", Eds. S. Vrielmann, M. Cropper, Astronomical Society of the Pacific Conference Series, 315, 170-171
120. *Disentangling X-ray Reprocessing Sites in EXO 0748-676*. **Hynes, R.I.**, Horne, K., O'Brien K., Robinson, E.L., Haswell, C.A., Charles, P.A., King, A.R., Rolfe, D.J., 2004, in proceedings of "International Astronomical Union Colloquium 194: Compact binaries in The Galaxy and beyond", Eds. G. Tovmassian, E. Sion, Revista Mexicana de Astronomia y Astrofisica, Conference Series, 20, 12-13
121. *Bowen Fluorescence from Companion Stars in X-ray Binaries*. Casares, J., Steeghs, D., **Hynes, R.I.**, Charles, P.A., Cornelisse, R., O'Brien, K., 2004, in proceedings of "International Astronomical Union Colloquium 194: Compact binaries in The Galaxy and beyond", Eds. G. Tovmassian, E. Sion, Revista Mexicana de Astronomia y Astrofisica, Conference Series, 20, 21-22
122. *SS433: The microquasar link with ULXs?* Charles, P.A., Barnes, A.D., Casares, J., Clark, J.S., Clarkson, W.I., Harlaftis, E.T., **Hynes, R.I.**, Marsh, T.R., Steeghs, D., 2004, in proceedings of "International Astronomical Union Colloquium 194: Compact binaries in The Galaxy and beyond", Eds. G. Tovmassian, E. Sion, Revista Mexicana de Astronomia y Astrofisica, Conference Series, 20, 50-52
123. *Spectroscopic Diagnostics of Precessing Discs: The Stream-Disc Impact in XTE J1118+480 (=KV UMa) in outburst*. Haswell, C.A., Foulkes, S.B., Rolfe, D.J., Murray, J.R., Tovmassian, G.H., Zharikov, S.V., Maxted, P.F.L., North, R., Charles, P.A., **Hynes, R.I.**, 2004, in proceedings of "International Astronomical Union Colloquium 194: Compact binaries in The Galaxy and beyond", Eds. G. Tovmassian, E. Sion, Revista Mexicana de Astronomia y Astrofisica, Conference Series, 20, 160-161
124. *Long-term variability in the quiescent X-ray transient V404 Cyg*. Zurita, C., Casares, J., Charles, P.A., **Hynes, R.I.**, Pavlenko, E.P., Shahbaz, T., 2004, in proceedings of "International Astronomical Union Colloquium 194: Compact binaries in The Galaxy and beyond", Eds. G. Tovmassian, E. Sion, Revista Mexicana de Astronomia y Astrofisica, Conference Series, 20, 221

125. *Multicolor observations of V404 Cyg and J1118+480 with ULTRACAM.* Shahbaz, T., Dhillon, V., Marsh, T.R., Zurita, C., Haswell, C., Charles, P.A., **Hynes, R.I.**, Casares, J., 2004, in proceedings of "X-ray Timing 2003: Rossi and Beyond", Eds. P. Kaaret, F.K. Lamb, J.H. Swank, American Institute of Physics Conference Proceedings, 714, 65-70
126. *Variability in Quiescent Black Holes.* **Hynes R.I.**, 2003, in X-ray Binaries in the Chandra and XMM-Newton Era, Eds. J. Miller, M. Garcia, published online (<http://cxc.harvard.edu/xrbconf/proceedings.html>)
127. *X-ray/UV Correlations in XTE J1118+480: Disc, Jet, or Something Else?* **Hynes, R.I.**, Haswell, C.A., Chaty, S., Cui, W., Shrader, C.R., O'Brien, K., Horne, K., 2003, in "New Views on Microquasars, Proceedings of the Fourth Microquasars Workshop", Eds. Ph. Durouchoux, Y. Fuchs, J. Rodriguez, Center for Space Physics: Kolkata (India), 35-38
128. *Multiwavelength Observations Revealing the Evolution of the Outburst of the Black Hole XTE J1118+480.* Chaty, S., Haswell, C.A., Malzac, J., **Hynes R.I.**, Shrader, C.R., Mauche, C.W., Cui, W., 2003, in "New Views on Microquasars, Proceedings of the Fourth Microquasars Workshop", Eds. Ph. Durouchoux, Y. Fuchs, J. Rodriguez, Center for Space Physics: Kolkata (India), 31-34
129. *Spectrally Resolved Flares in the Quiescent Black Hole V404 Cyg.* **Hynes R.I.**, Charles P.A., Zurita C., Casares J., Haswell C.A., Lott D.A., 2002, in "The Physics of Cataclysmic Variables and Related Objects", Eds. B.T. Gaensicke, K. Beuermann, K. Reinsch, Astronomy Society of the Pacific Conference Series, 261, 487-488
130. *Visualizing Interacting Binaries in 3D.* **Hynes R.I.**, 2002, in "The Physics of Cataclysmic Variables and Related Objects", Eds. B.T. Gaensicke, K. Beuermann, K. Reinsch, Astronomy Society of the Pacific Conference Series, 261, 676-677
131. *Photometric Evidence of Superhumps in XTE J1118+48 Approaching Quiescence.* Casares, J., Zurita, C., Shahbaz, T., Rodriguez-Gil, P., Charles, P.A., **Hynes, R.I.**, Wagner, R.M., Ryan, E., 2002, in "The Physics of Cataclysmic Variables and Related Objects", Eds. B.T. Gaensicke, K. Beuermann, K. Reinsch, Astronomy Society of the Pacific Conference Series, 261, 473-474
132. *Optical and IR photometry of the Soft X-ray Transient XTE J1859+226 during the 1999 outburst cycle.* Ioannou, Z., Haswell, C., **Hynes, R.**, Chaty, S., Harlaftis, E., Brinias, A., Norton, A.J., Fried, R., Rolfe, D., Solheim, J.E., 2001, in proceedings of "5th Hellenic Astronomical Conference", published online at <http://www.astro.auth.gr/elaset/helasmgt/2001/proceedings.htm>
133. *Multiwavelength Observations Revealing the Outbursts of the Soft X-ray Transients XTE J1859+226 and XTE J1118+480.* Chaty S., Haswell, C.A., **Hynes, R.I.**, Shrader, C.R., Cui, W., 2001, in proceedings of "Societe Francaise d'Astronomie et d'Astrophysique Meeting 2001", Eds. F. Combes, D. Barret, F. Thevenin, EDP Science, 349
134. *Multiwavelength Observations Revealing the Outbursts of the Two Soft X-ray Transients XTE J1859+226 and XTE J1118+480.* Chaty, S., Haswell, C.A., **Hynes, R.I.**, Shrader, C.R., Cui, W., Mauche, C.W., Norton, A.J., Solheim, J.-E., Ostensen, R., Geballe, T.R., Ioannou, Z., King, A.R., 2001, in proceedings of "4th INTEGRAL Workshop", Eds. A. Gimenez, V. Reglero, C. Winkler, ESA SP-459, ESA Publications Division, 491-494
135. *Black Hole X-ray Transients: Results from Recent Multiwavelength Observations.* Haswell, C.A., **Hynes, R.I.**, 2001, in "Evolution of Binary and Multiple Star Systems", Eds. Ph. Podsiadlowski, S. Rappaport, A.R. King, F. D'Antona, L. Burderi, Astronomical Society of the Pacific Conference Series, 229, 515-524
136. *Recent Hubble Space Telescope Results on X-Ray Novae.* **Hynes, R.I.**, Haswell, C.A., Chaty, S., Shrader, C.R., Cui, W., Mauche, C.W., 2001, in proceedings of "3rd Microquasar Workshop", Eds. A.J. Castro-Tirado, J. Greiner, J.M. Paredes, Astrophysics and Space Science Supplement, 276, 61-62
137. *Doppler Tomography of XTE J2123-058 and Other Neutron Star LMXBs.* **Hynes, R.I.**, Charles, P.A., Haswell, C.A., Casares, J., Zurita, C., 2001, in "Astro-Tomography: An International Workshop on Indirect Imaging", Eds. H. Boffin, D. Steeghs, Springer Lecture Notes in Physics, 573, 378-385
138. *HST Observations of Black Hole X-Ray Transient Outbursts.* **Hynes, R.I.**, C.A., Haswell, 2001, in "A Decade of HST Science Poster Book", Eds. M. Livio, K. Noll, M. Stiavelli, STScI, 48
139. *Optical Studies of the X-Ray Transient XTE J2123-058: I. Photometry.* Zurita, C., Casares, J., Shahbaz, T., Charles, P.A., **Hynes, R.I.**, Shugarov, S., Goransky, V., Pavlenko, E.P., Kuznetsova, Y., Galloway, D., Dapergolas, A., Harlaftis, E.T., 2000, in "Cataclysmic Variables: a 60th Birthday Symposium in Honour of Brian Warner", Eds. P.A. Charles, A. King, D. O'Donoghue, New Astronomy Reviews, 44, 105-106
140. *Optical Studies of the X-Ray Transient XTE J2123-058: II. Doppler Tomography. Echoes of the SW Sex Phenomenon.* **Hynes R.I.**, Charles P.A., Haswell C.A., Casares J., Zurita C., 2000, in "Cataclysmic Variables: a 60th Birthday Symposium in Honour of Brian Warner", Eds. P.A. Charles, A. King, D. O'Donoghue, New Astronomy Reviews, 44, 95-96

141. *Optical Studies of the X-Ray Transient XTE J2123-058: I. Photometry*. Zurita, C., Casares, J., Shahbaz, T., **Hynes, R.I.**, Charles, P.A., Serra-Ricart, M., Harlaftis, E.T., Dapergolas, A., Shugarov, S., Goransky, V., Pavlenko, E.P., Kuznetsova, Y., Gomez, A., Rodriguez-Gil, P., in proceedings of “The 19th Texas Symposium on Relativistic Astrophysics and Cosmology”, Nuclear Physics B Proceedings Supplements, 80, CDROM
142. *Optical Studies of the X-Ray Transient XTE J2123-058: II. Time-Resolved Spectroscopy*. **Hynes, R.I.**, Charles, P.A., Haswell, C.A., Casares, J., Zurita, C., in proceedings of “The 19th Texas Symposium on Relativistic Astrophysics and Cosmology”, Nuclear Physics B Proceedings Supplements, 80, CDROM
143. *HST Observations of X-Ray Transients*. Haswell C.A., **Hynes R.I.**, 1999, in proceedings of “The Kyoto Disk-Instability Workshop”, Eds. S. Mineshige, J. C. Wheeler, Universal Academy Press, Frontiers Science Series Number 26, 155-162
144. *HST Observations of GRO J1655-40 in Outburst*. **Hynes, R.I.**, 1998, in proceedings of “The 2nd Workshop on Galactic Sources with Relativistic Jets”, Eds. R.N. Ogle, S.J. Bell Burnell, New Astronomy Reviews, 42, 605-608
145. *HST Observations of Black Hole X-Ray Transients*. Haswell, C.A., **Hynes, R.I.**, 1998, in proceedings of “13th North American Workshop on Cataclysmic Variables”, Eds. S. Howell, E. Kuulkers, C. Woodward, Astronomy Society of the Pacific Conference Series, 137, 245-252
146. *The 1996 Outburst of GRO J1655-40*. **Hynes, R.I.**, Haswell, C.A., Fender, R.P., Shrader, C.R., Chen, W., Horne, K., Harlaftis, E.T., O'Brien, K., Hellier, C., Kemp, J., 1998, in proceedings of “13th North American Workshop on Cataclysmic Variables”, Eds. S. Howell, E. Kuulkers, C. Woodward, Astronomy Society of the Pacific Conference Series, 137, 509-510

Abstracts

1. Rapid optical and infrared observations of black hole X-ray binaries in a multiwavelength context, **Hynes, R.I.**, 2024, 45th COSPAR Scientific Assembly
2. *Connecting Optical Behaviors to the X-Ray in Low Mass Neutron Star X-Ray Binaries*, Igl, A., **Hynes, R.**, Britt, C., Robinson, E., 2023, American Astronomical Society Meeting 241 Abstracts, #428.05D
3. *The ultraviolet response to luminosity changes and state transitions in low-mass X-ray binaries: HST/AstroSat observations of MAXI J1820+070*, Georganti, M., **Hynes, R.**, Long, K.S., Gandhi, P., Altamirano, D., Knigge, C., Dewangan, Gulab C., Castro Segura, N., Banerjee, S., 2022, 44th COSPAR Scientific Assembly, Abstract E1.5-0025-22
4. *Correlated X-ray and Optical Behavior in Sco X-1 and Cyg X-2*, Igl A. B., **Hynes R.**, Britt C., Robinson E., 2021, American Astronomical Society Meeting 238 Abstracts, #231.01
5. *Observations of SyXB Candidate CXB3*, Wetuski J., **Hynes R.**, Maccarone T., Heinke C., Torres M., Jonker P., Britt C., Steeghs, D., Nelemans, G., American Astronomical Society Meeting 238 Abstracts, #128.04
6. *Multiwavelength Follow-up of X-ray Selected Symbiotic Candidates in the Galactic Bulge*, **Hynes R. I.**, Wetuski J., Jonker P. G., Maccarone T. J., Heinke C. O., Torres M. A., Steeghs D., Britt, C. T., Nelemans, G., 2021, American Astronomical Society Meeting 238 Abstracts, #128.03.
7. *Results from the Modern Eddington Experiment*, Schaefer, B. E., **Hynes, R. I.** 2018, American Astronomical Society Meeting Abstracts, 231, #315.07
8. *Evidence for an extremely energetic jet-base during the June 2015 outburst of V404 Cygni*, Maitra, D., Scarpaci, J., Grinberg, V., Reynolds, M., Markoff, S., Maccarone, T. J., **Hynes, R. I.**, 2017, AAS High Energy Astrophysics Division Meeting 16, #109.15
9. *X-ray Selected Symbiotic Candidates in the Galactic Bulge Survey*, **Hynes, R. I.**, Wetuski, J., Jonker, P., Torres, M., Heinke, C. O., Maccarone, T., Steeghs, D., Britt, C., Johnson, C., Nelemans, G., 2017, American Astronomical Society Meeting Abstracts, 230, #317.04
10. *Variability of Optical Counterparts to X-ray Selected Sources in the Galactic Bulge Survey*, Johnson, C., **Hynes, R. I.**, Jonker, P., Torres, M., Maccarone, T. J., Britt, C., Steeghs, D., 2016, The Galactic Bulge Survey Collaboration, American Astronomical Society Meeting Abstracts, 227, #402.02
11. *Gemini Spectroscopy of Galactic Bulge Sources: A Population of Hidden Accreting Binaries Revealed?* Wu, J., Jonker, P., Torres, M., Britt, C., Johnson, C., **Hynes, R. I.**, Greiss, S., Steeghs, D., Maccarone, T., Heinke, C. O., Wevers, T., 2015, American Astronomical Society Meeting Abstracts, 225, #428.05
12. *The X-ray Binary J1118+480: Starspots and the Resumption of Mass Transfer*, Lopez, I., Mason, P. A., Robinson, E. L., **Hynes, R. I.**, 2014, American Astronomical Society Meeting Abstracts, 224, #420.02

13. *A Glimpse of Optically Variable Galactic Bulge X-ray Sources: A Comparison of Mosaic-II and DECam Photometry*, 2014, Johnson, C. B., **Hynes, R. I.**, Jonker, P., Torres, M., Britt, C., Steeghs, D., Maccarone, T., Nelemans, G., Greiss, S., Baldwin, A., American Astronomical Society Meeting Abstracts, 224, #219.18
14. *Examining XMM Observations in the Galactic Bulge Survey Region*, Estrada-Carpenter, V., **Hynes, R. I.**, Britt, C., Johnson, C., Jonker, P., Maccarone, T. J., Torres, M., Steeghs, D., Greiss, S., Nelemans, G., & The Galactic Bulge Survey Collaboration 2014, American Astronomical Society Meeting Abstracts, 223, #155.33
15. *Dwarf Novae in the Galactic Bulge Survey - Observational Constraints on X-ray/Recurrence Time Relations and Space Density*, Britt, C., Maccarone, T. J., **Hynes, R. I.**, Jonker, P., Torres, M., & Galactic Bulge Survey Collaboration 2014, American Astronomical Society Meeting Abstracts, 223, #113.04
16. *Variability of Optical Counterparts in the Galactic Bulge Survey*, Britt, C., **Hynes, R. I.**, Johnson, C. C., Jonker, P., Torres, M., Steeghs, D., Maccarone, T., Nelemans, G., Greiss, S., Collazzi, A. C., Villar, V., Gossen, L., Gabb, M., Baldwin, A., & Galactic Bulge Survey Collaboration 2013, American Astronomical Society Meeting Abstracts, 221, #421.01
17. *Variable ASAS Counterparts to Galactic Bulge Survey X-ray Sources*, Gabb, M., **Hynes, R. I.**, Britt, C., Johnson, C. C., Jonker, P., Torres, M., Maccarone, T., Steeghs, D., Greiss, S., Nelemans, G., & Galactic Bulge Survey Collaboration 2013, American Astronomical Society Meeting Abstracts, 221, #142.41
18. *Long Term Optical Photometry of the Black Hole Binary J1118+480*, Monroy, L., Mason, P. A., Robinson, E. L., & **Hynes, R. I.** 2013, American Astronomical Society Meeting Abstracts, 221, #142.13
19. *The Chandra Galactic Bulge Survey*. **Hynes, R.I.**, Jonker, P.G., Bassa, C.G., Nelemans, G., Steeghs, D., Torres, M.A.P., Maccarone, T.J., Greiss, S., Clem, J., Dieball, A., Mikles, V.J., Britt, C.T., Gossen, L., Collazzi, A.C., Wijnands, R., In't Zand, J.J.M., Mendez, M., Rea, N., Kuulkers, E., Ratti, E.M., van Haaften, L.M., Heinke, C., Ozel, F., Groot, P.J., Verbunt, F., 2012, Bulletin of the American Astronomical Society, 44, 2, #408.01 ; Oral presentation at the 219th American Astronomical Society Meeting
20. *Searching for Optical Variability from X-ray Sources in the Galactic Bulge Survey*. Villar, V., **Hynes, R.I.**, Britt, C.T., Jonker, P.G., Bassa, C.G., Nelemans, G., Steeghs, D., Torres, M.A., Maccarone, T.J., Greiss, S., Ratti, E.M., Mikles, V.J., Gossen, L., Collazzi, A.C., 2012, Bulletin of the American Astronomical Society, 44, 2, #153.20 ; Poster presentation at the 219th American Astronomical Society Meeting
21. *HST/COS Observations of X-ray Binaries*. Froning, C.S., Robinson, E., **Hynes, R.**, Maccarone, T., France, K., Mason, P.A., Winter, L., 2012, Bulletin of the American Astronomical Society, 44, 2, #153.12 ; Poster presentation at the 219th American Astronomical Society Meeting
22. *New Interacting Binaries Identified by the Chandra Galactic Bulge Survey*. Britt, C., **Hynes, R.I.**, Jonker, P.G., Bassa, C.G., Nelemans, G., Steeghs, D., Torres, M.A.P., Maccarone, T.J., Greiss, S., Mikles, V.J., Gossen, L., Collazzi, A.C., and The Galactic Bulge Survey Collaboration, 2012, Bulletin of the American Astronomical Society, 44, 2, #153.03 ; Poster presentation at the 219th American Astronomical Society Meeting
23. *The Chandra Galactic Bulge Survey*. **Hynes, R.I.**, Jonker, P.G., Bassa, C.G., Dieball, A., Greiss, S., Maccarone, T.J., Nelemans, G., Steeghs, D., Torres, M.A.P., Britt, C.T., Clem, J.L., Gossen, L., Grindlay, J.E., Groot, P.J., Kuiper, L., Kuulkers, E., Méndez, M., Mikles, V.J., Ratti, E.M., Rea, N., van Haaften, L., Wijnands, R., in't Zand, J.J.M., 2011, Bulletin of the American Astronomical Society, 43, 2, #144.24 ; Poster presentation at the 217th American Astronomical Society Meeting
24. *Photometry, Spectroscopy, and Doppler Tomography of the Eclipsing LMXB EXO 0748-676 = UY Vol.* Mikles, V.J., **Hynes, R.I.**, Jones, E.D., 2011, Bulletin of the American Astronomical Society, 43, 2, #144.21 ; Poster presentation at the 217th American Astronomical Society Meeting
25. *The Galactic Bulge Survey: Status and Results*. Torres, M., Jonker, P.G., Bassa, C., **Hynes, R.I.**, Nelemans, G., Steeghs, D., 2010, Bulletin of the American Astronomical Society, 42, 2, #43.24, Poster Presentation at the 11th High Energy Astrophysics Division Meeting
26. *Echo-Mapping of Scorpius X-1*. Britt, C.T., **Hynes, R.I.**, Mikles, V.J., Robinson, E.L., O'Brien, K., 2010, Bulletin of the American Astronomical Society, 42, 2, #42.13, Poster Presentation at the 11th High Energy Astrophysics Division Meeting
27. *Multiwavelength Observations of Neutron Star Transients*. **Hynes, R.I.**, 2008, Abstracts of the 37th Scientific Assembly of the Committee on Space Research, 1303; Oral presentation
28. *Multiwavelength Studies of the Black Hole X-ray Binary V404 Cygni*. Bradley, C., **Hynes, R.**, 2007, Bulletin of the American Astronomical Society, 39, 809; Poster presentation at 211th American Astronomical Society Meeting
29. *Long Term X-ray and Optical Variability In EXO 0748-676*. Byerly, Z., **Hynes, R.I.**, Ashcraft, T.A., 2007, Bulletin of the American Astronomical Society, 39, 725; Poster presentation at 211th American Astronomical Society Meeting

30. *Optical And UV Light Curves Of The ADC Source 4U 1822-371*. Bayless, A.J., Robinson, E.L., **Hynes, R.I.**, Ashcraft, T.A., Cornell, M.E., 2007, Bulletin of the American Astronomical Society, 39, 724; Poster presentation at 211th American Astronomical Society Meeting
31. *Deconstructing the Quiescent Black Hole V404 Cyg*. **Hynes, R.I.**, Bradley, C.K., Casares, J., Charles, P.A., Fender, R.P., Gallo, E., Garcia, M.R., Haswell, C.A., Kong, A.K., Robinson, E.L., Rupen, M., Shahbaz, T., Wagner, R.M., Zurita, C., 2006, Bulletin of the American Astronomical Society, 38, 362; Oral presentation at the 9th High Energy Astrophysics Division Meeting
32. *XMM-Newton Observations of V404 Cygni in Quiescence*. Bradley, C.K., **Hynes, R.I.**, Kong, A.K., Casares, J., Charles, P., Fender, R., Gallo, E., Garcia, M.R., Haswell, C.A., Robinson, E.L., Rupen, M.R., Shahbaz, T., Zurita, C., 2006, Bulletin of the American Astronomical Society, 38, 340; Poster presentation at 9th High Energy Astrophysics Division Meeting
33. *The UV Brightness of Quiescent Black Holes and Neutron Stars*. **Hynes, R.I.**, Robinson, E.L., McClintock, J.E., Haswell, C.A., 2006, Bulletin of the American Astronomical Society, 38, 72.03; Oral presentation at 208th American Astronomical Society Meeting
34. *Optical and Infrared Monitoring of the Accretion Disk Corona source V395 Car = 2S 0921-630*. Ashcraft, T.A., **Hynes, R.I.**, Robinson, E.L., 2006, Bulletin of the American Astronomical Society, 38, 119; Poster presentation at 208th American Astronomical Society Meeting
35. *Multiwavelength Correlations in V404 Cyg in Quiescence*. **Hynes, R.I.**, Charles, P.A., Garcia, M.R., Robinson, E.L., Casares, J., Haswell, C.A., Kong, A.K.H., Rupen, M., Fender, R.P., Wagner, R.M., Gallo, E., Eves, B.A.C., Shahbaz, T., Zurita, C., 2004, Bulletin of the American Astronomical Society, 36, 1205; Poster presentation at 8th High Energy Astrophysics Division Meeting
36. *Dynamical Evidence for a Black Hole in GX 339-4*. **Hynes R.I.**, Steeghs D., Charles P.A., Casares J., O'Brien K., 2003, Bulletin of the American Astronomical Society, 35, 1105; Poster presentation at 7th High Energy Astrophysics Division Meeting
37. *Multiwavelength Rapid Variability in XTE J1118+480*. **Hynes R.I.**, Haswell C.A., Chaty S., Cui W., Shrader C.R., O'Brien K., Horne K., 2000, Bulletin of the American Astronomical Society, 32, 1164; Poster presentation at 5th High Energy Astrophysics Division Meeting
38. *Fast Variability and Mini-Outbursts in the Soft X-ray Transient XTE J1859+226*. Charles P.A., **Hynes R.I.**, Casares J., Israelian G., Rodrigues P., Shahbaz T., Zurita C., Abbott T., Hakala P., King A.R., 2000, Bulletin of the American Astronomical Society, 32, 1165; Poster presentation at 5th High Energy Astrophysics Division Meeting
39. *The 1996 Outburst of GRO J1655-40:II Broad-Band Spectral Properties*. Shrader C. R., Chen W., Haswell C. A., **Hynes R. I.**, 1996, Bulletin of the American Astronomical Society, 28, 1314; Poster presentation at 189th American Astronomical Society Meeting
40. *The 1996 Outburst of GRO J1655-40:III Spectral Evolution of the Accretion Disk*. **Hynes R. I.**, Haswell C. A., Chen W., Shrader C. R., Horne K., 1996, Bulletin of the American Astronomical Society, 28, 1314; Poster presentation at 189th American Astronomical Society Meeting

Circulars and Telegrams

41. *Swift follow-up observations of the new outburst of the black hole candidate V4641 Sgr*, Altamirano, D., Bahramian, A., Sivakoff, G., Middleton, M., Knigge, C., Gandhi, P., **Hynes, R.**, Johnson, C., Casella, P., Motta, S., Miller-Jones, J., Neilsen, J., 2015, The Astronomer's Telegram, #7874
42. *Multi-band optical observations of V404 Cygni and correlated spectral changes*, Scarpaci, J., Maitra, D., **Hynes, R.**, Markoff, S., 2015, The Astronomer's Telegram, #7737
43. *Further Rapid Optical Photometry of V404 Cyg*, **Hynes, R. I.**, Robinson, E. L., Morales, J., 2015, The Astronomer's Telegram, #7710
44. *Rapid Optical Photometry of V404 Cyg*, **Hynes, R. I.**, Robinson, E. L., Morales, J., 2015, The Astronomer's Telegram, #7677
45. *The Quiescent Optical Counterpart to Swift J174510.8-262411*, **Hynes, R. I.**, Britt, C. T., Jonker, P. G., Wijnands, R., & Greiss, S. 2012, The Astronomer's Telegram, #4417
46. *Swift J1910.2-0546: Optical Variability*, Britt, C. T., Johnson, C. C. B., **Hynes, R. I.** 2012, The Astronomer's Telegram, #4195
47. *A Swift detection of AX J1754.2-2754: renewed activity, or evidence of persistent accretion?*, Maccarone, T. J., Bandyopadhyay, R., Kennea, J., Britt, C., **Hynes, R.**, Jonker, P., Steeghs, D., Greiss, S., Nelemans, G., & Lucas, P. 2012, The Astronomer's Telegram, #4109

48. *Search for the NIR and Optical Counterpart to IGR J17407-2808 in Quiescence.* Greiss, S., Steeghs, D., Maccarone, T., **Hynes, R.I.**, Britt, C.T., Jonker, P.G., Torres, M.A.P., Masetti, M., Rojas, A., Heinke, C., Kaur, R., Bird, T., the Galactic Bulge Survey Collaboration, and the Vista Variables in the Via Lactea Consortium, 2012, *Astronomical Telegram*, #3688
49. *Optical Observations of EXO 0748-676 in Quiescence.* **Hynes, R.**, Jones, E., 2008, *Astronomical Telegram* #1816
50. *IRXS J020929.0+283243 is a polar cataclysmic variable.* Rodriguez-Gil, P., Casares, J., Zurita, C., Torres, M.A.P., Steeghs, D., **Hynes, R.**, 2005, *Astronomical Telegram* #666
51. *Optical/X-ray Variability in Swift 1753.5-0127.* **Hynes, R.I.**, Mullally, F., 2005, *Astronomical Telegram* #562
52. *Optical photometry of Swift J1753.5-0127.* **Hynes, R.I.**, Mullally, F., 2005, *Astronomical Telegram* #554
53. *Infrared Observations of XTE J1118+480.* **Hynes, R.I.**, Gelino, D.M., Pearson, K.J., Robinson, E.L., 2005, *Astronomical Telegram* #393
54. *Optical Variability in XTE J1118+480.* **Hynes, R.I.**, Watson, T.K., Winget, D.E., Robinson, E.L., 2005, *Astronomical Telegram* #117
55. *XTE J1118+480.* Casares J., Zurita C., Shahbaz T., Rodriguez-Gil P., Charles P., **Hynes R.**, Wagner R.M., Ryan E., Foltz C., Starrfield S., 2001, *International Astronomical Union Circular* 7617
56. *XTE J1859+226.* Casares J., Rodriguez P., Zurita C., Shahbaz T., Charles P., **Hynes R.**, Abbott T., Hakala P., 2000, *International Astronomical Union Circular* 7451
57. *XTE J1859+226.* Israelian G., Casares J., Charles P., **Hynes R.**, Abbott T., Hakala P., 2000, *International Astronomical Union Circular* 7451
58. *XTE J1118+480.* Haswell C.A., Skillman D., Patterson J., **Hynes R.**, Cui W., 2000, *International Astronomical Union Circular* 7427
59. *XTE J1118+480.* Haswell C.A., **Hynes R.I.**, King A. R., 2000, *International Astronomical Union Circular* 7407
60. *XTE J1118+480.* Mauche C., **Hynes R.**, Charles P., Haswell C.A., 2000, *International Astronomical Union Circular* 7401
61. *XTE J1118+480.* Chaty S., Haswell C.A., Smith G.P., Smail I., **Hynes R.I.**, 2000, *International Astronomical Union Circular* 7394
62. *Multiwavelength Observations of XTE J1859+226.* Haswell C.A., Chaty S., Cui W., Casares J., **Hynes R.I.**, 2000, *Astronomical Telegram* #55
63. *Multiwavelength Observations of XTE J1859+226 on 1999, November 6th.* Haswell C.A., Chaty S., Norton A.J., Chen W., **Hynes R.I.**, 1999, *Astronomical Telegram* #51
64. *XTE J1859+226.* **Hynes R.I.**, Haswell C.A., Norton A.J., Chaty S., 1999, *International Astronomical Union Circular* 7294
65. *XTE J1859+226.* Chaty S., Haswell C.A., Norton A.J., **Hynes R.I.**, Smail I., Solheim J.-E., Ostensen R., Greve T. R., Fynbo J., Horne K., O'Brien K., Skidmore W., Fried R., Krisciunas K., Garnavich P. M., Garcia M., Contreras M., Harlaftis E. T., Charles P. A., Shahbaz T., Kuulkers E., Chen W., Shrader C. R., Howell S. B., Wagner M., 1999, *International Astronomical Union Circular* 7284
66. *XTE J1859+226.* Norton A.J., Haswell C.A., Chaty S., **Hynes R.I.**, Henden A., van Boekel R., Garnavich P. M., Stanek K. Z., Greve T. R., Fynbo J., 1999, *International Astronomical Union Circular* 7279
67. *Optical and Near-IR Observations of XTE J1859+226.* **Hynes R.I.**, Haswell C.A., Norton A.J., Chaty S., Rolfe D. J., Lott D. A., Solheim J.-E., Ostensen R., Garcia R. A., Fried R., O'Brien K., Horne K., Ioannou Z., Shafter A., Abbott T. M. C., Krisciunas K., Ivison R. J., Sano Y., Chen W., Shrader C., Livio M., Robinson E. L., Wagner R. M., 1999, *Astronomical Telegram* #50
68. *Multiwavelength Observations of XTE J1859+226.* Haswell C.A., Chaty S., Norton A.J., Chen W., **Hynes R.I.**, 1999, *Astronomical Telegram* #49
69. *XTE J2123-058.* Zurita C., Casares J., **Hynes R.I.**, 1998, *International Astronomical Union Circular* 6993
70. *XTE J2123-058.* **Hynes R.I.**, Charles P.A., Haswell C.A., Casares J., Serra-Ricart M., Zurita C., 1998, *International Astronomical Union Circular* 6976
71. *XTE J2012+381.* **Hynes R.I.**, Roche P., 1998, *International Astronomical Union Circular* 6932
72. *XTE J1806-246.* **Hynes R.I.**, Roche P., Haswell C.A., 1998, *International Astronomical Union Circular* 6905
73. *SAX J1808.4-3658 = XTE J1808-369.* Roche P., Chakrabarty D., Morales-Rueda L., **Hynes R.I.**, Slivan S.M., Simpson C., Hewett P., 1998, *International Astronomical Union Circular* 6885
74. *CI Camelopardalis.* **Hynes R.I.**, Roche P., Haswell C.A., Telting J., Lehnert M., Simis Y., 1998, *International Astronomical Union Circular* 6871