

Address and Contact Information

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Research Interests

Relativistic effects revealed in accretion flows onto, and jets from, black holes and neutron stars.

The impact of accretion on galactic environments.

Super-massive black holes in active galactic nuclei, and connections to stellar-mass black holes.

Galaxy formation and accretion at red-shifts of $z > 1$.

Accretion disks in young stellar objects and T-Tauri stars.

Research Positions

Assistant Professor of Astronomy and Astrophysics, The University of Michigan	2005-present
Chandra Postdoctoral Fellow (declined in order to accept faculty position)	2005
NSF Astronomy and Astrophysics Postdoctoral Fellow, Harvard-Smithsonian CfA	2002-2005

Education

The Massachusetts Institute of Technology, Cambridge MA Ph. D., Physics, 2002 Advisor: Prof. Walter H. G. Lewin	1997-2002
The University of Pennsylvania, Philadelphia, PA B. A., Physics, magna cum laude Benjamin Franklin Scholar, University Scholar, Stephens Memorial Physics Prize	1993-1997

Selected Professional Activities

Chair, Suzaku X-ray Observatory User's Group, 2007-2010.

Chandra X-ray Observatory User's Committee, 2007-2010.

US Chair, Astro-H (aka New Explorations X-ray Telescope) Science Working Group, 2009-2020.

Member, International X-ray Observatory Science Definition Team; Chair, Accretion Physics Panel.

AXTAR Science Working Group; AXTAR is a proposed X-ray timing mission.

Collaborator, ARGOS-X – a proposed NASA SMEX mission, 2007-2008.

RXTE Discussion Group; panel chair, RXTE Cycle 11 peer review.

Co-writer and presenter of the RXTE proposal to the 2006 NASA Senior Review Committee.

Panel Chair, Chandra X-ray Observatory Cycle 11 Time Allocation Review, 2009, Boston.

Conference Organizing Committee, "Probing Strong Gravity Around Black Holes", 2010, Prague.

Conference Organizing Committee, "The Energetic Cosmos: from Suzaku to Astro-H", 2009, Otaru, Japan.

Conference Organizing Committee, "X-rays as a Probe of Strong Gravity Fields and Dense Matter", COSPAR 2008, Montreal Canada.

Conference Organizing Committee, "Variable and Broad Iron Lines Around Black Holes", the 2006 ESA/XMM-Newton science conference, Madrid; referee of the related proceedings.

Professional Societies

American Astronomical Society, AAS High Energy Astrophysics Division

American Physical Society

Research Group

Current Michigan postdocs: Dr. Edward Cackett, Dr. Mark Reynolds, Dr. Ryan Porter, Dr. Dipankar Maitra

Current Michigan Graduate Students: Ms. Jennifer Blum, Ms. Ashley King

Dissertation Committees: Ms. Catherine Espaillat, Mr. Jun Ji, Ms. Laura Ingleby, Ms. Fang Yuan

External student collaborations: Mr. Rubens Reis, Univ. of Cambridge

Previous students and postdoctoral researchers: Mr. Greg Salvesen, Ms. Shannon Schmoll, Dr. Emily Mercer (postdoc, Michigan), Dr. Maria Caballero-Garcia (Ph.D., LAEFF), Mr. Matthew Greco (MA, Michigan), Mr. Ian Hoover (BA, Michigan), Ms. Shinae Park (Ph.D, Harvard), Dr. Sabrina Rossi (Ph. D., OAB Merate)), Mr. Steven Cho (MA, MIT), Ms. Katelyn Perry (BA Michigan), Ms. Samantha Moore (BA Michigan)

Teaching and Outreach Experience

Instructor, Astronomy 101, introductory astronomy & the search for life	W09
Instructor, Astronomy 102, introductory astronomy & cosmology	W07, F07, W08
Instructor, Astronomy 405, undergraduate high energy astrophysics	fall 2006
Instructor, Astronomy 532, graduate high energy astrophysics	winter 2006
Math and science tutor, Cambridge MA Community Services high school outreach program	2005
Lecturer, Weymouth MA High School science teacher astronomy workshops	summer 2004

Departmental Service

Chair, Graduate Recruiting and Admissions Committee	2007-2010
Chair, High Energy Curriculum Committee	2007/2008
Qualification Exam Committee	2006-2009
Undergraduate Curriculum Committee	2005-2007
Open Search Committee	2008-2009
Magellan Observing Time Allocation Committee	2005-2009
High Energy Search Committee	2005/2006

References

Prof. Andrew C. Fabian, University of Cambridge, 44 0 1223 337509, acf@ast.cam.ac.uk

Dr. Harvey Tananbaum, Chandra Observatory Director, SAO, 617 495-7248, ht@head.cfa.harvard.edu

Prof. Chris Reynolds, University of Maryland, 301 405 2682, chris@astro.umd.edu

Prof. M. Coleman Miller, University of Maryland, 301 405 1037, miller@astro.umd.edu

Additional references available upon request.

Selected Talks

- “Three Points on Black Hole Accretion”, *Matter and Electromagnetic Fields in Strong Gravity*, August 2009, University of Maryland
- “Relativistic Disk Lines in Stellar-mass Black Holes and Neutron Stars”, *The Energetic Cosmos, from Suzaku to Astro-H*, June 2009, Otaru Japan (invited review)
- “Evidence For and Against IMBHs in X-ray Sources”, *Intermediate-mass Black Holes: from First Light to Galactic Nuclei*, April 2009, Irvine CA (invited review)
- “Exploring General Relativity with the International X-ray Observatory”, *IXO Facility Planning Meeting*, January 2009, Cambridge MA
- “Measuring Black Hole Spin”, *Stanford/KIPAC/SLAC Joint Astronomy Colloquium*, November 2008
- “Relativistic Spectroscopy of Black Holes”, *Putting Gravity to Work*, 2008, Cambridge (invited review)
- “Disk-Jet Connections in Black Holes”, COSPAR 2008, Montreal (invited review)
- “Relativistic Iron Lines and Black Hole Spin”, COSPAR 2008, Montreal (invited review)
- “Accretion onto Black Holes”, *Physics Colloquium*, Louisiana State University, September 2007
- “Stellar-mass Black Holes and GR”, *Astrophysics Colloquium*, Univ. of Kentucky, June 2007
- “Stellar-mass Black Holes”, *The American Physical Society*, April 2007, Jacksonville (invited review)
- “Relativistic Iron Lines”, *Beyond Einstein Program Assessment Cmte Town Hall 4*, Chicago, April 2007
- “Relativistic Iron Lines in Black Holes”, *NRAO/AOC Colloquium*, September 2006
- Relativistic Iron Lines from Stellar-Mass Black Holes: Implications for AGN”, *Variable and Broad Iron Lines from Black Holes*, ESA/XMM-Newton Science Workshop, June 2006, Madrid Spain (invited review)
- “A Look at Disk-Jet Connections in Black Holes”, *Relativistic Jets: The Common Physics of AGN, Microquasars, and Gamma-Ray Bursts*, December 2005, Ann Arbor MI (invited review)
- “Intermediate Mass Black Holes”, *Bash Symposium*, October 2005, Austin TX (invited review)
- “Spectroscopy of Black Holes in the Chandra and XMM-Newton Era”, *McGill University Astrophysics Seminar*, September 2005, Montreal Canada
- “Ultra-luminous X-ray Sources”, *IAU Symposium 230: Populations of High Energy Sources in Galaxies*, August 2005, Dublin, Ireland
- “Exploring General Relativity in Stellar-mass Compact Objects”, *Constellation-X and XEUS Science Workshop*, March 2005, Harvard-Smithsonian CfA, Cambridge MA
- “Evidence for Intermediate Mass Black Holes in Bright Ultra-Luminous X-ray Sources”, July 2004, *Black Hole Accretion Across the Mass Scale Workshop*, Amsterdam, NL (invited review)
- “A Review of Ultra-Luminous X-ray Sources”, *35th COSPAR Assembly*, July 2004, Paris (invited review)
- “Simultaneous Chandra and RXTE Observations of the Galactic Microquasar H1743-322”, *203rd AAS Meeting*, 2004, Atlanta, Georgia (oral presentation)
- “Intermediate-mass Black Holes in ULX Sources”, *Stellar-Mass, Intermediate-Mass, and Supermassive Black Holes Conference*, October 2003, Kyoto, Japan (invited talk)
- “Relativistic Iron Lines in Galactic Black Holes”, *Four Years of Science with Chandra: A Tribute to Riccardo Giacconi*, September 2003, Huntsville, Alabama (invited talk)
- “Intermediate-mass Black Holes in ULX Sources”, *University of Cambridge Institute of Astronomy Seminar*, Cambridge, UK, June 2003
- “Evidence for Intermediate-mass Black Holes in ULXs”, *HEAD Seventh Division Meeting*, March 2003, Mt. Tremblant, Quebec, Canada (invited talk)

Proposal and Observations Record

Proposals and grants that are directly related to my current research are given below. Selected recent optical, IR and radio proposals on which I have served as a Co-I are also listed. Funding awarded through these programs exceeds 2 million USD.

<i>Proposal</i>	<i>Observatory</i>	<i>PI</i>	<i>Role</i>	<i>Target</i>	<i>Time</i>
NSF Fellowship	2002	Miller	--	BHs of all types	3 years
STSCI IDEAS grant	2004	Richard	Co-I	HS Education	2 years
Reverberation Mapping a Sy-1	Magellan/2007a	Cackett	Co-I	SDSS J143450	7 nights
Monitoring NGC 4395	MDM/2007a	Cackett	Co-I	NGC 4395	3 nights
New TTauri candidates	MDM/2006b	Miller	--	45 TTauri candidates	5 nights
Binary mass functions	Magellan/2006a	Miller	--	2 x-ray binaries	5 nights
HST Study of ULX/IMBHs	HST Cycle 12	Miller	--	4 ULXs	17 orbits
IR (AO) jet TOO	VLT/2003/4/5/6	RMB	Co-I	awaiting trigger	1 nights
HST on M31 (w/ Chanda)	HST Cycle 12	Garcia	Co-I	M31	10 orbits
GX 339-4 wide-field	Magellan/2004	Steeeghs	Co-I	GX 339-4	1 nights
Galactic black hole TOO	Magellan/2004	Steeeghs	Co-I	awaiting trigger	1 nights
Cen X-4	Magellan/2004	Garcia	Co-I	Cen X-4	2 nights
BW Cir	Magellan/2003	Garcia	Co-I	BW Cir	2 nights
RXJ 1628	Magellan/2003	Garcia	Co-I	RX J1628	2 nights
Microquasar jet imaging	VLA/2006	Rupen	Co-I	various triggers	12 hrs
Microquasar jet imaging	VLBA/2006	Rupen	Co-I	various triggers	12 hrs
GX 339-4 radio monitoring	ATCA/2004a	Rupen	Co-I	GX 339-4	56 hrs
Disk-Jet Connections	Suzaku/AO-4	Miller	--	Cygnus X-1	300 ks
Black Hole Transient	Suzaku/AO-2	Miller	--	GX 339-4	144 ks
Line-QPO Connection in 1915	Suzaku/AO-2	Miller	--	GRS 1915+105	37 ks
Spins in Seyfert AGN	Suzaku/AO-2	Miller	--	Fairall 9, Mrk 79	246 ks
Soft excesses in AGN	Suzaku/AO-1	Miller	--	Mrk 335	100 ks
Galactic black hole TOO	Suzaku/AO-1	Miller	--	awaiting trigger	150 ks
Relativistic lines in neutron stars	Suzaku/AO-1	Miller	--	3 sources	120 ks
Disk-jet links in black holes	Chandra/AO-10	Miller	--	NGC 4051	80 ks
Black Hole Transient	Chandra/AO-10	Miller	--	awaiting trigger	60 ks
Young Stellar Disks	Chandra/AO-9	Miller	--	NGC 7160	70 ks
Galactic black hole TOO	Chandra/AO-9	Miller	--	awaiting trigger	60 ks
Galactic black hole TOO	Chandra/AO-7	Miller	--	XTE J1817-330	200 ks
Neutron star survey, X+IR+radio	Chandra/AO-7	Miller	--	6 neutron stars	300 ks
M81, central black hole	Chandra/AO-7	Miller	--	M81*	100 ks
Galactic black hole TOO	Chandra/AO-6	Miller	--	GRO J1655-40	100 ks
Joint HST ULX program	Chandra/AO-5	Miller	--	4 ULXs	40 ks
Galactic black hole TOO	Chandra/AO-5	Miller	--	GX 339-4	200 ks
GRS 1915+105 Jets TOO	Chandra/AO-5	Miller	--	GRS 1915+105	30 ks
GX 339-4 DDT	Chandra/AO-4	Miller	--	GX 339-4	75 ks
Galactic black hole TOO	Chandra/AO-4	Lewin	Obs.	H 1743-322	200 ks
Cygnus X-1 observation	Chandra/AO-4	Lewin	Obs.	Cygnus X-1	60 ks
Galactic black hole TOO	Chandra/AO-3	Lewin	Obs.	XTE J1650-500	60 ks
LS 5039	Chandra/AO-3	Lewin	Obs.	LS 5039	10 ks
Cygnus X-1 DDT	Chandra/AO-2	Miller	--	Cygnus X-1	30 ks
Galactic black hole TOO	Chandra/AO-1	Lewin	Obs.	XTE J1550-564	34 ks

<i>Proposal</i>	<i>Observatory</i>	<i>PI</i>	<i>Role</i>	<i>Target</i>	<i>Time</i>
Spin of $z=1$ quasars	XMM/AO-4	Miller	--	3C 287	60 ks
Phase-resolved BH spectroscopy	XMM/AO-4	Miller	--	GRS 1915+105	40 ks
Lower flux black hole accretion	XMM/AO-4	Miller	--	Swift J1753.5-0127	40 ks
Low-flux black hole accretion	XMM/AO-3	Miller	--	GX 339-4	270 ks
Cygnus X-1	XMM/AO-3	Miller	--	Cygnus X-1	30 ks
Millisecond X-ray pulsar DDT	XMM/AO-2	Miller	--	XTE J1751-305	40 ks
Galactic black hole DDT	XMM/AO-1	Miller	--	XTE J1650-500	25 ks
Galactic black hole TOO	XMM/AO-1,2	Lewin	Obs.	GX 339-4	100 ks
GRS 1758-258 DDT	XMM/AO-1	Miller	--	GRS 1758-258	25 ks
Disk-jet links in Cygnus X-1	Swift/AO-5	Miller	--	Cygnus X-1	30 ks
Galactic black hole TOO	INTEGRAL/6	Miller	--	awaiting trigger	650 ks
Galactic black hole TOO	INTEGRAL/5	Miller	--	awaiting trigger	650 ks
Galactic black hole TOO	INTEGRAL/4	Miller	--	GX 339-4	800 ks
Galactic black hole TOO	INTEGRAL/3	Miller	--	GRO J1655-40	400 ks
Galactic black hole TOO	INTEGRAL/2	Miller	--	untriggered	1200 ks
Deep AGN exposures	INTEGRAL/1	Fabian	Obs.	MCG-6, Crn., Mrk 509	600 ks
Galactic black hole TOO	INTEGRAL/1	Lewin	Obs.	XTE J1550-564	400 ks
Black hole TOO	RXTE/AO-12	Miller	--	awaiting trigger	200 ks
Black hole TOO	RXTE/AO-11	Miller	--	XTE J1817-330	200 ks
Public black hole long-look	RXTE/AO-10	Homan	Co-I	GRO J1655-40	2500 ks
BH simult. w/ CXO, XMM	RXTE/AO-10	Miller	--	GRO J1655-40	250 ks
Galactic black hole TOO	RXTE/AO-9	Miller	--	GX 339-4	200 ks
Cygnus X-1 observation	RXTE/AO-9	Miller	--	Cygnus X-1	30 ks
Galactic black hole TOO	RXTE/AO-8	Miller	--	H1743, XTE J1550	600 ks
Cygnus X-1 observation	RXTE/AO-8	Miller	--	Cygnus X-1	80 ks
LS 5039 observation	RXTE/AO-8	Miller	--	LS 5039	80 ks
Galactic black hole TOO	RXTE/AO-7	Lewin	Obs.	--	160 ks
Galactic black hole TOO	RXTE/AO-6	Lewin	Obs.	XTE J1650-500	200 ks
Galactic black hole TOO	RXTE/AO-5	Lewin	Obs.	XTE J1550-564	50 ks

Publications List

H-index: 31

Refereed journal papers: 119
 First-author refereed journal papers: 30
 Conference papers: 14
 Circulars/Telegrams: 67

ApJ The Astrophysical Journal
 MNRAS Monthly Notices of the Royal Astronomical Society
 A&A Astronomy and Astrophysics

Note: Authors in italics are postdoctoral researchers and students in the Miller group.

Refereed Journal Publications

119. “Rapid Optical and X-ray Timing Observations of GX 339-4: Multi-component Optical Variability in the Low/Hard State”

Gandhi, P., Dhillon, V., Durant, M., Fabian, A., Kubota, A., Makishima, M., Malzac, J., Marsch, T., **Miller, J. M.**, Shahbaz, T., Spruit, H., 2009, MNRAS, submitted

118. “Black Hole Accretion Disks in the Canonical Low/Hard State”

Reis, R. C., Fabian, A. C., **Miller, J. M.**, 2009, MNRAS, in press

117. “Swift Monitoring of Cygnus X-2: Investigating the NUV-X-ray Connection”

Rykoff, E. S., *Cackett, E. M.*, **Miller, J. M.**, 2009, ApJ, submitted

116. “Suzaku Observations of the Galactic Center Microquasar 1E 1740.7-2942”

Reynolds, M. T., **Miller, J. M.**, 2009, ApJ, submitted

115. “Suzaku Observations of the Black Hole H 1743-322 in Outburst”

Blum, J. L., **Miller, J. M.**, *Cackett, E.*, Yamaoka, K., Takahashi, H., Raymond, J., Reynolds, C. S., Fabian, A. C., 2009, ApJ, submitted

114. “Far-Ultraviolet H₂ Emission from Circumstellar Disks”

Ingleby, L., Calvet, N., Yerasi, A., Espaillat, C., Herczeg, G., Roueff, E., Abgrall, H., Hernandez, J., Briceno, B., Pascucci, I., **Miller, J. M.**, Fogel, J., Hartmann, L., Meyer, M., Carpenter, J., Crockett, N., McClure, M., 2009, ApJ, in press

113. “Relativistic Lines and Reflection from the Inner Accretion Disks Around Neutron Stars”

Cackett, E., **Miller, J. M.**, Ballantyne, D. R., Barret, D., Bhattacharyya, S., Boutelier, M., Miller, M. C., Strohmayer, T., Wijnands, R., 2009, ApJ, submitted

112. “Broad Iron L-line and X-ray Reverberation in 1H 0707-495”

Zoghbi, A., Fabian, A. C., Uttley, P., Miniutti, G., Gallo, L. C., Reynolds, C. S., **Miller, J. M.**, Ponti, G., 2009, MNRAS, in press

111. “The Fundamental Plane of Accretion onto Black Holes with Dynamical Masses”

Gultekin, K., *Cackett, E.*, **Miller, J. M.**, Di Matteo, T., Markoff, S., Richstone, D., Rupen, M., 2009, ApJ, submitted

110. “Neutral Absorption and Spectral Evolution in X-ray Binaries”
Miller, J. M., *Cackett, E.*, & Reis, R. C., 2009, ApJ, in press.
109. “Exploring Accretion Models and the Fundamental Plane in the Low-Luminosity AGN M81*”
Miller, J. M., Markoff, S., Nowak, M. A., Rupen, M. R., & Steeghs, D. T. H., 2009, ApJ, submitted
108. “A Deep Suzaku Observation of the Seyfert AGN Fairall 9”
Schmoll, S., **Miller, J. M.**, Volonteri, M., *Cackett, E.*, Fabian, A. C., Reynolds, C. S., Brenneman, L., Miniutti, G., & Gallo, L. C., 2009, ApJ, in press
107. “Measuring the Spin of GRS 1915+105 with Relativistic Disk Reflection”
Blum, J. L., **Miller, J. M.**, Fabian, A. C., van der Klis, M., Homan, J., & Miller, M., 2009, ApJ, in press
106. “Supermassive Binary Black Holes: Constraints and Expectations from the Sloan Digital Sky Survey”
Volonteri, M., **Miller, J. M.**, & Dotti, M., 2009, ApJ, in press
105. “Spectrum Synthesis Modeling of GRO J1655-40”
Kallman, T., Bautista, M., Goriely, S., Mendoza, C., **Miller, J. M.**, Palmeri, P., Quinet, P., & Raymond, J., 2009, ApJ, 701, 865
104. “A Kerr Black Hole in the NLS1 Galaxy SWIFT J2127.4+5654”
Miniutti, G., Panessa, F., De Rosa, A., Fabian, A., Malizia, A., Molina, M., **Miller, J. M.**, & Vaughan, S., 2009, MNRAS, 398, 255
103. “Astrophysics: Capturing Black Hole Pairs”
Miller, J. M., 2009, Nature, 458, 40
102. “The Detection of Broad Iron K and L Line Emission in the Narrow Line Seyfert 1 Galaxy 1H 0707-495 Using XMM-Newton”
Fabian, A. C., Zoghbi, A., Ross, R. R., Uttley, P., Gallo, L. C., Brandt, W. N., Blustin, A., Boller, T., Caballero-Garcia, M. D., Larsson, J., **Miller, J. M.**, Miniutti, G., Ponti, G., Reis, R. C., Reynolds, C. S., Tanaka, Y., Young, A. J., 2009, Nature, 459, 540
101. “Determining the Spin of Two Stellar-Mass Black Holes from Disk Reflection Signatures”
Reis, R. C., Fabian, A. C., Ross, R. R., **Miller, J. M.**, 2009, MNRAS, 395, 1257
100. “Thermal emission from the stellar-mass black hole binary XTE J1118+480 in the low/hard state”
Reis, R. C., **Miller, J. M.**, Fabian, A. C., 2009, MNRAS, 359, L52
99. “A Relativistic Iron Emission Line in the Millisecond X-ray Pulsar SAX J1808.6-3658”
Cackett, E., Altamirano, D., Patruno, A., **Miller, J. M.**, *Reynolds, M.*, Linares, M., Wijnands, R., 2009, ApJ, 624, L21
98. “Suzaku Broadband Spectroscopy of SWIFT J1753.5-0127 in the Low-Hard State”
Reynolds, M., **Miller, J. M.**, Homan, J., Miniutti, G., 2009, ApJ, submitted
97. “Chandra and Swift Observations of the Quasi-Persistent neutron star transient EXO 0748-676 in Quiescence”
Degenaar, N., Wijnands, R., Wolff, M., Ray, P., Wood, K., Homan, J., Lewin, W., Jonker, P., *Cackett, E.*, **Miller, J. M.**, Brown, E., 2009, MNRAS, 396, L26
96. “Stellar-mass Black Hole Spin Constraints from Disk Reflection and Continuum Modeling”
Miller, J. M., Reynolds, C. S., Fabian, A. C., Miniutti, G., Gallo, L., 2009, ApJ, 697, 900

95. “A Deep XMM-Newton Observation of the Quasar 3C 287”
Salvesen, G., Miller, J. M., Cackett, E., & Siemiginowska, A., 2009, ApJ, 692, 753
94. “A Search for Iron Emission Lines in the Chandra X-ray Spectra of Neutron Star Low-mass X-ray Binaries”
Cackett, E. M., Miller, J. M., Homan, J., van der Klis, M., Lewin, W., Mendez, M., Raymond, J., Steeghs, D., & Wijnands, R., 2009, ApJ, 690, 1847
93. “INTEGRAL and XMM-Newton Spectroscopy of GX 339-4 During Hard, Soft, And Intermediate States in the 2007 Outburst”
Caballero-Garcia, M. D., Miller, J. M., Diaz Trigo, M., Kuulkers, E., Fabian, A. C., Mas-Hesse, J. M., Steeghs, D., & van der Klis, M., 2009, ApJ, 692, 1339
92. “Chandra and Spitzer Observations Reveal New YSOs in the Heart of Trumpler 37”
Mercer, E. P., Miller, J. M., Calvet, N., Hartmann, L., Sicilia-Aguilar, A., 2009, AJ, 138, 7
91. “Science with the XEUS High Time Resolution Spectrometer”
Barret, D., Belloni, T., Bhattacharyya, S., Gilfanov, M., Homan, J., Mendez, M., Miller, J. M., Miller, M. C., Mereghetti, S., Paltani, S., Poutanen, J., Wilms, J., Zdziarski, A. A., 2008, SPIE, 7011, 10
90. “Rapid optical and X-ray timing observations of GX 339-4: flux correlations in an optically-faint low/hard state”
Gandhi, P., Makishima, K., Durant, M., Fabian, A. C., Dhillon, V., Marsh, T., Miller, J. M., Shahbaz, T., Spruit, H., 2008, MNRAS, 390, L29
89. “Cooling of the Crust in the Neutron Star Low-mass X-ray Binary MXB 1659-29”
Cackett, E., Wijnands, R., Miller, J. M., Brown, E. F., & Degenaar, N., 2008, ApJ, 687, L87
88. “Fe K-alpha and Hydrodynamic Diagnostics for a Large Flare on II Peg”
Ercolano, B., Drake, J. J., Reale, F., Testa, P., & Miller, J. M., 2008, ApJ, 688, 1315
87. “A Systematic Look at the Very High and Low/Hard State of GX 339-4: Constraining the Black Hole Spin with a New Reflection Model”
Reis, R. C., Fabian, A. C., Ross, R., Miniutti, G., Miller, J. M., Reynolds, C., 2008, MNRAS, 387, 1489
86. “SWIFT J1753.5-0127: A Surprising Optical/X-ray Cross-Correlation Function”
Durant, M., Gandhi, P., Shahbaz, Fabian, A., Miller, J. M., Dhillon, V., Marsh, T., 2008, ApJ, 682, L45
85. “The (Re-)Discovery of G350.1-0.3: A Young, Luminous Supernova Remnant and Its Neutron Star”
Gaensler, B. M., Tanna, A., Slane, P. O., Brogan, C. L., McClure-Griffiths, N. M., Camilo, F., Ng, C. Y., Gelfand, J. D., Miller, J. M., & Eikenberry, S., 2008, ApJ, 680, L37
84. “Initial Measurements of Black Hole Spin in GX 339-4 from Suzaku Spectroscopy”
Miller, J. M., Reynolds, C. S., Fabian, A. C., Raymond, J., et al., 2008, ApJL, 679, L113
83. “The Accretion Disk Wind in the Black Hole GRO J1655-40”
Miller, J. M., Raymond, J., Fabian, A. C., Reynolds, C., Kallman, T., & Homan, J., 2008, ApJ, 680, 1359
82. “Suzaku Observations of Markarian 335: Evidence for a Distributed Reflector”
Larsson, J., Miniutti, G., Fabian, A., Miller, J. M., Reynolds, C. S., & Ponti, G., 2008, MNRAS, 384, 1316
81. “A Search for New Galactic Magnetars in Archival Chandra and XMM-Newton Observations”
Muno, M. P., Gaensler, B. M., Nechita, A., Miller, J. M., Slane, P. O., 2008, ApJ, 680, 639

80. “Relativistic Iron Emission Lines in Neutron Star Low Mass X-ray Binaries as Probes of Neutron Star Radii”
Cackett, E., Miller, J. M., Bhattacharyya, S., Grindlay, J., Homan, J., van der Klis, M., Strohmayer, T., Wijnands, R., 2008, ApJ, 674, 415
79. “The Burst Spectra of EXO 0748-676 During a Long 2003 XMM-Newton Observation”
Cottam, J., Paerels, F., Mendez, M., Boirin, L., Miller, J. M., Lewin, W., Kuulkers, E., 2008, ApJ, 672, 504
78. “Investigating the Nature of Absorption Lines in the Chandra X-ray Spectrum of the Neutron Star Binary 4U 1820-30”
Cackett, E. M., Miller, J. M., Homan, J., van der Klis, M., Mendez, M., Raymond, J., Steeghs, D., & Wijnands, R., 2008, ApJ, 677, 1233
77. “Observations of the 599 Hz Accreting X-ray Pulsar IGR J00291+5934 During the 2004 Outburst and Quiescence”
Torres, M. A. P., Jonker, P. G., Steeghs, D., Roelofs, G. H. A., Bloom, J. S., Casares, J., Falco, E. E., Garcia, M. R., Marsh, T. R., Mendez, M., Miller, J. M., Nelemans, G., Rodriguez-Gil, P., 2008, ApJ, 672, 1079
76. “Non-detection of Gravitationally Redshifted Lines in the X-ray Burst Spectra of GS 1826-24”
Kong, A., Miller, J. M., Mendez, M., Cottam, J., Lewin, W., Paerels, F., Kuulkers, E., Wijnands, R., 2007, ApJ, 670, L17
75. “Black Holes and Their Environments”
Miller, J. M., and Reynolds, C. S., *Physics Today*, August 2007
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