

## Publications of Jonathan Gelbord

### ✿ Refereed publications:

- € D.A. Schwartz, H.L. Marshall, J.E.J. Lovell, D.W. Murphy, G.V. Bicknell, M. Birkinshaw, **J.M. Gelbord**, M. Georganopoulos, L. Godfrey, D.L. Jauncey, E.S. Perlman and D.M. Worrall, 2005. “Chandra Observations of Magnetic Fields and Relativistic Beaming in Four Quasar Jets” Accepted to ApJ (astro-ph/0601632)
- € **J.M. Gelbord**, H.L. Marshall, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, R. Ojha, L. Godfrey, D.A. Schwartz, E.S. Perlman, M. Georganopoulos, D.W. Murphy and D.L. Jauncey, 2005. “The Knotty Question of the Jet of PKS 1421-490” ApJL 632, L75 (astro-ph/0509205)
- € H. Marshall, D.A. Schwartz, J.E.J. Lovell, D.W. Murphy, D.M. Worrall, M. Birkinshaw, **J.M. Gelbord**, E.S. Perlman and D.L. Jauncey, 2005. “A Chandra Survey of Quasar Jets: First Results” ApJS 156, 13 (astro-ph/0409566)
- € **J.M. Gelbord**, 2003. “Probing circumnuclear material in Seyfert galaxies with X-ray spectroscopy”. PhD thesis. The Johns Hopkins University (conferred in May 2003). Available from <http://space.mit.edu/~jonathan/papers/thesis/>
- € K. Weaver, **J.M. Gelbord** and T. Yaqoob, 2001. “Variable Iron K $\alpha$  Lines in Seyfert 1 Galaxies” ApJ 550, 261 (astro-ph/0008522)

### ✿ Contributed papers:

- € **J.M. Gelbord**, K.A. Weaver and T. Yaqoob, 2005. “X-ray Evidence for Multiple Absorbing Structures in Seyfert Galaxies” To appear in the proceedings of The X-ray Universe 2005 conference. (astro-ph/0511056; also available from <http://space.mit.edu/~jonathan/research.html>)
- € D.A. Schwartz, H.L. Marshall, **J.M. Gelbord**, E.S. Perlman, M. Georganopoulos, M. Birkinshaw, D.M. Worrall, J.E.J. Lovell, D.L. Jauncey, L. Godfrey, G.V. Bicknell, D.W. Murphy and S. Jester, 2005. “The Remarkable X-ray Jet in the Quasar 4C 20.24” To appear in the proceedings of The X-ray Universe 2005 conference. (Available from <http://space.mit.edu/~jonathan/research.html>)
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, E.S. Perlman, D.W. Murphy and R.A. Preston, 2004. “Continuing a Chandra Survey of Quasar Radio Jets” In X-Ray and Radio Connections, L.O. Sjouerman & K.K. Dyer, editors (astro-ph/0411804; proceedings online at <http://www.aoc.nrao.edu/events/xraydio>)
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, J. Lovell, D.L. Jauncey, E.S. Perlman, D.W. Murphy and R.A. Preston, 2004. “First Results from a Multiwavelength Survey of Quasar Jets” In Multiwavelength AGN Surveys, R. Mújica & R. Maiolino, editors, pp. 305-306 (astro-ph/0405292)
- € **J.M. Gelbord**, K.A. Weaver and T. Yaqoob, 2004. “X-Ray Evidence for Multiple Absorbing Structures in Seyfert Galaxies” In Multiwavelength AGN Surveys, R. Mújica & R. Maiolino, editors, pp. 253-254 (astro-ph/0411174)

- € **J.M. Gelbord** and K. Weaver, 2001. “Variable Fe-K $\alpha$  Line Profiles in Sy 1 Galaxies” In X-ray Astronomy: Stellar Endpoints, AGN and the Diffuse X-ray Background, N. White, G. Malaguti, & G. Palumbo, editors, pp. 622-625 (astro-ph/0008522)

✿ **In preparation for refereed journals:**

- € **J.M. Gelbord**, K. Weaver and T. Yaqoob. “Seyfert Obscuration and Unification: Not Just a Torus” (*See related proceedings paper, Gelbord, Weaver & Yaqoob 2005*)
- € **J.M. Gelbord** and H.L. Marshall. “Optical Fluxes of X-Ray-Bright Quasar Jets”
- € **J.M. Gelbord** and H.L. Marshall. “Magellan Spectra of Quasars with Bright X-ray Jets”
- € D.A. Schwartz, H.L. Marshall, J.E.J. Lovell, D.W. Murphy, G.V. Bicknell, M. Birkinshaw, **J.M. Gelbord**, M. Georganopoulos, L. Godfrey, D.L. Jauncey, S. Jester, E.S. Perlman and D.M. Worrall. “The Remarkable X-ray Jet Structures in the Quasar 4C 20.24 = PKS 1055+201” (*See related proceedings paper, Schwartz et al. 2005*)
- € E.S. Perlman, M. Georganopoulos, H.L. Marshall, D.A. Schwartz, C.A. Padgett, **J.M. Gelbord**, J.E.J. Lovell, D.M. Worrall, M. Birkinshaw, D.W. Murphy and D.L. Jauncey. “Deep HST, Chandra, VLA and ATCA Observations of the Jets of PKS 0208-512 and PKS 1202-262”

✿ **Published abstracts:**

- € **J.M. Gelbord**, H.L. Marshall, S.G. Jorstad, A.P. Marscher, D.M. Worrall, M. Birkinshaw, D.A. Schwartz, J.E.J. Lovell, L. Godfrey, G.V. Bicknell, D.L. Jauncey, E.S. Perlman, S. Jester and D.W. Murphy, 2006. “Multiwavelength Observations of the Quasar Jet in PKS 1030-357” BAAS 37, 1221  
*Contributed talk 37.04 at the 207<sup>th</sup> AAS meeting, January 2006.*
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, E.S. Perlman, M. Georganopoulos, J.E.J. Lovell, S. Jester, D.W. Murphy, D.L. Jauncey and L. Godfrey, 2005. “Highlights from a Chandra Survey of Quasar Jets”  
*Poster 1.7 at the Six Years of Science with Chandra symposium, November 2005.*
- € **J.M. Gelbord**, K.A. Weaver and T. Yaqoob, 2005. “X-ray Evidence for Multiple Absorbing Structures in Seyfert Galaxies”  
*Contributed poster E.22 at the X-ray Universe 2005 meeting, September 2005.*
- € D.A. Schwartz, H.L. Marshall, **J.M. Gelbord**, E.S. Perlman, M. Georganopoulos, M. Birkinshaw, D.M. Worrall, J.E.J. Lovell, D.L. Jauncey, L. Godfrey, G.V. Bicknell, D.W. Murphy and S. Jester, 2005. “The Remarkable X-ray Jet in the Quasar 4C 20.24”  
*Contributed talk at the X-ray Universe 2005 meeting, September 2005.*
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, R. Ojha, L. Godfrey, D.L. Jauncey, G.V. Bicknell, E.S. Perlman, M. Georganopoulos, D.W. Murphy and S. Jester, 2005. “Deep X-ray and Optical Observations of Quasar Jets”  
*Contributed talk at the Ultra-Relativistic Jets in Astrophysics meeting, July 2005.*

- € H.L. Marshall, **J.M. Gelbord**, D.A. Schwartz, J.E.J. Lovell, D.W. Murphy, D.M. Worrall, M. Birkinshaw, E.S. Perlman, & D.L. Jauncey, 2005. “Continuing a Chandra Survey of Quasar Jets”  
*Contributed poster at the Ultra-Relativistic Jets in Astrophysics meeting, July 2005.*
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, E.S. Perlman, M. Georganopoulos, J.E.J. Lovell, S. Jester, D.W. Murphy, G.V. Bicknell, L. Godfrey and D.L. Jauncey, 2004. “Deep X-ray and Optical Observations of Quasar Jets” BAAS 37, 484  
*Contributed poster 33.04 at the 206<sup>th</sup> AAS meeting, June 2005.*
- € D.A. Schwartz, H.L. Marshall, **J.M. Gelbord**, E.S. Perlman, M. Georganopoulos, M. Birkinshaw, D.M. Worrall, J.E.J. Lovell, D.L. Jauncey, L. Godfrey, G.V. Bicknell, D.W. Murphy and S. Jester, 2004. “The Remarkable X-ray Jet Structures in the Quasar 4C 20.24” BAAS 37, 476  
*Contributed talk 30.15 at the 206<sup>th</sup> AAS meeting, June 2005.*
- € H.L. Marshall, **J.M. Gelbord**, D.A. Schwartz, J.E.J. Lovell, D.W. Murphy, D.M. Worrall, M. Birkinshaw, E.S. Perlman and D.L. Jauncey. “Continuing a Chandra Survey of Quasar Jets” BAAS 37, 484  
*Contributed poster 33.03 at the 206<sup>th</sup> AAS meeting, June 2005.*
- € **J.M. Gelbord**, H.L. Marshall, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, R. Ojha, L. Godfrey, D.A. Schwartz, E.S. Perlman, M. Georganopoulos, D. Murphy and D. Jauncey, 2004. “The Unique, Optically-Dominated Quasar Jet of PKS 1421-490” BAAS 36, 1395  
*Contributed talk 30.02 at the 205<sup>th</sup> AAS meeting, January 2005.*
- € D.A. Schwartz, E.S. Perlman, M. Georganopoulos, H.L. Marshall, **J.M. Gelbord**, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, G.V. Bicknell, L. Godfrey, D.W. Murphy and R.A. Preston, 2004. “Deep Chandra images of the X-ray jets in PKS0208-512 and PKS1202-262” BAAS 36, 1588  
*Contributed poster 144.03 at the 205<sup>th</sup> AAS meeting, January 2005.*
- € **J.M. Gelbord**, K.A. Weaver and T. Yaqoob, 2004. “Evidence of Multiple Absorbing Structures around Seyfert Nuclei” BAAS 36, 963  
*Contributed poster 26.26 at the 8<sup>th</sup> AAS HEAD meeting, September 2004.*
- € H.L. Marshall, **J.M. Gelbord**, D.A. Schwartz, J.E.J. Lovell, D.W. Murphy, D.M. Worrall, M. Birkinshaw, E.S. Perlman, D.L. Jauncey and S. Jester, 2004. “A Chandra Survey of Quasar Jets” BAAS 36, 920-921  
*Contributed talk 9.02 at the 8<sup>th</sup> AAS HEAD meeting, September 2004.*
- € E.S. Perlman, H.L. Marshall, D.A. Schwartz, M. Georganopoulos, **J.M. Gelbord**, J.E.J. Lovell, D.M. Worrall, M. Birkinshaw, D.W. Murphy and D.L. Jauncey, 2004. “HST and Chandra Observations of the Jets of PKS 0208-512 and PKS 1202-262” BAAS 36, 911  
*Contributed poster 4.19 at the 8<sup>th</sup> AAS HEAD meeting, September 2004.*
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, E.S. Perlman, J.E.J. Lovell, D.L. Jauncey, D.W. Murphy and R.A. Preston, 2004. “Latest optical observations of radio and X-ray emitting quasar jets” BAAS 36, 768  
*Contributed poster 60.12 at the 204<sup>th</sup> AAS meeting, June 2004.*

- € H.L. Marshall, D.A. Schwartz, J.E.J. Lovell, D.W. Murphy, D.M. Worrall, M. Birkinshaw, **J.M. Gelbord**, E.S. Perlman, D.L. Jauncey and R.A. Preston, 2004. “A Chandra Survey of Quasar Jets” BAAS 36, 766  
*Contributed poster 60.03 at the 204<sup>th</sup> AAS meeting, June 2004.*
- € **J.M. Gelbord**, H.L. Marshall, B.P. Miller, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, E.S. Perlman, J.E.J. Lovell, D.L. Jauncey, D.W. Murphy and R.A. Preston, 2003. “Magellan observations of quasars with radio and X-ray jets” BAAS 35, 1326  
*Contributed poster 78.10 at the 203<sup>rd</sup> AAS meeting, January 2004.*
- € D.A. Schwartz, H.L. Marshall, **J.M. Gelbord**, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, E.S. Perlman and D.W. Murphy, 2003. “The Energetics of 100 kpc X-Ray Jets”  
*Talk in Joint Discussion 18 at the IAU XXV<sup>th</sup> General Assembly, July 2003.*
- € **J.M. Gelbord**, H.L. Marshall, B.P. Miller, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, E.S. Perlman, D.W. Murphy and R.A. Preston, 2003. “Optical Observations of Quasar X-ray Jets” BAAS 35, 761  
*Contributed poster 42.15 at the 202<sup>nd</sup> AAS meeting, June 2003.*
- € **J.M. Gelbord**, H.L. Marshall, D.A. Schwartz, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, E.S. Perlman, D.W. Murphy and R.A. Preston, 2003. “X-ray Imaging of a Complete Sample of Quasar Jets” BAAS 35, 609  
*Contributed poster 9.01 at the 7<sup>th</sup> AAS HEAD meeting, March 2003.*
- € D.A. Schwartz, H.L. Marshall, B.P. Miller, **J.M. Gelbord**, D.M. Worrall, M. Birkinshaw, J.E.J. Lovell, D.L. Jauncey, E.S. Perlman and D.W. Murphy, 2003. “The Physics of 100 kpc X-ray Jets” BAAS 35, 863  
*Contributed poster 9.08 at the 7<sup>th</sup> AAS HEAD meeting, March 2003.*
- € **J.M. Gelbord**, K.A. Weaver and T. Yaqoob, 2002. “Structures surrounding Seyfert central engines: too many or not enough?” BAAS 34, 1322  
*Dissertation talk 138.02 at the 201<sup>st</sup> AAS meeting, January 2003.*
- € **J.M. Gelbord**, 2001. “Probing the Absorption Structures in Seyfert Galaxies with X-ray Spectroscopy” BAAS 33, 1373  
*Contributed poster 50.02 at the 199<sup>th</sup> AAS meeting, January 2002.*
- € **J.M. Gelbord**, T. Yaqoob and K.A. Weaver, 2000. “Time Resolved Spectroscopy of Seyfert 1 Galaxies” BAAS 32, 1612  
*Contributed talk 125.09 at the 197<sup>th</sup> AAS meeting, January 2001.*
- € **J.M. Gelbord**, T. Yaqoob and K.A. Weaver, 2000. “X-ray Spectroscopic Variability in AGN using RMS Spectra” BAAS 32, 1187  
*Contributed poster 4.03 at the 5<sup>th</sup> HEAD meeting, November 2000.*
- € **J.M. Gelbord** and K.A. Weaver, 1999. “Variability in the Fe K $\alpha$  line profile of Seyfert 1 Galaxies” BAAS 31, 1458  
*Contributed talk 56.03 at the 195<sup>th</sup> AAS meeting, January 2000.*
- € **J.M. Gelbord** and K.A. Weaver, 1998. “Are there two populations of X-ray absorbers in Seyfert 2 galaxies?” BAAS 30, 1253  
*Contributed poster 6.10 at the 193<sup>rd</sup> AAS meeting, January 1999.*