

Publication List

ADS Citation Data (as of September 25, 2009)

- 1) Total citations/paper: 26.5
- 2) Refereed citations/paper: 23.1
(excluding self-citations: 20.9)
- 3) h-index: 19
(19 papers with at least 19 citations each)

Refereed Publications

- 1) Cackett, E.M., Miller, J.M., **Ballantyne, D.R.**, Barret, D., Bhattacharyya, S., Boutelier, M., Miller, M.C., Strohmayer, T.E. & Wijnands, R., 2009, *Relativistic Lines and Reflection From the Inner Accretion Disks Around Neutron Stars*, submitted to The Astrophysical Journal.
- 2) Draper, A.R. & **Ballantyne, D.R.**, 2009, *Balancing the Cosmic Energy Budget: The Cosmic X-ray Background, Blazars, and the Compton Thick AGN Fraction*, The Astrophysical Journal, in press.
- 3) **Ballantyne, D.R.**, 2009, *The Distribution and Cosmic Density of Relativistic Iron Lines in Active Galactic Nuclei*, The Astrophysical Journal Letters, in press.
- 4) Gliozzi, M., Papadakis, I.E., Eracleous, M., Sambruna, R.M., **Ballantyne, D.R.**, Braitto, V. & Reeves, J.N., 2009. *Short-term Variability and Power Spectral Density Analysis of the Radio-Loud Active Galactic Nucleus 3C 390.3*, The Astrophysical Journal, Vol. 703, p. 1021.
- 5) Sambruna, R.M., Reeves, J.N., Braitto, V., Lewis, K.T., Eracleous, M., Gliozzi, M., Tavecchio, F., **Ballantyne, D.R.**, Ogle, P.M., Barth, A.J. & Tueller, J., 2009. *Structure of the Accretion Flow in Broad-Line Radio Galaxies: The Case of 3C 390.3*, The Astrophysical Journal, Vol. 700, p. 1473.
- 6) **Ballantyne, D.R.**, 2009, *The Contribution of Active Galactic Nuclei to the Microjansky Radio Population*, The Astrophysical Journal, Vol. 698, p. 1033.
- 7) **Ballantyne, D.R.**, 2008, *Obscuring Active Galactic Nuclei with Nuclear Starburst Disks*, The Astrophysical Journal, Vol. 685, p. 787.
- 8) Larsson, J., Fabian, A.C., **Ballantyne, D.R.** & Miniutti, G., 2008, *Exploring the Disc/Jet Interaction in the Radio-Loud Quasar 4C +74.26 with Suzaku*, Monthly Notices of the Royal Astronomical Society, Vol. 388, p. 1037.
- 9) Crocker, R.M., Jones, D., **Ballantyne, D.R.** & Melia, F., 2007, *Radio Synchrotron Emission from Secondary Leptons in the Vicinity of Sgr A**, The Astrophysical Journal, Vol. 664, p. L95.
- 10) Erlund, M.C., Fabian, A.C., Blundell, K.M., Moss, C. & **Ballantyne, D.R.**, 2007, *The luminous X-ray hotspot in 4C 74.26: synchrotron or inverse-Compton emission?*, Monthly Notices of the Royal Astronomical Society, Vol. 379, p. 498.
- 11) **Ballantyne, D.R.**, Özel, F. & Psaltis, D., 2007, *Constraining Radiatively Inefficient Accretion Flows with Polarization*, The Astrophysical Journal, Vol. 663, p. L17.

- 12) Ballantyne, D.R. & Papovich, C., 2007, On the Contribution of AGN to the Cosmic Background Radiation, *The Astrophysical Journal*, Vol. 660, p. 988.
- 13) **Ballantyne, D.R.**, Melia, F., Liu, S. & Crocker, R.M., 2007, *A Possible Link Between the Galactic Center HESS Source and Sgr A**, *The Astrophysical Journal*, Vol. 657, p. L13.
- 14) **Ballantyne, D.R.**, Shi, Y., Rieke, G.H., Donley, J.L., Papovich, C. & Rigby, J.R., 2006, *Does the AGN Unified Model Evolve with Redshift? Utilizing the X-Ray Background to Predict the Mid-Infrared Emission of AGN*, *The Astrophysical Journal*, Vol. 653, p. 1070.
- 15) Miniutti, G., **Ballantyne, D.R.**, Allen, S.W., Fabian, A.C. & Ross, R.R., 2006, *Fe Emission and Ionized Excess Absorption in the Luminous Quasar 3C 109 with XMM-Newton*, *Monthly Notices of the Royal Astronomical Society*, Vol. 371, p. 283.
- 16) **Ballantyne, D.R.**, Everett, J.E. & Murray, N., 2006, *Connecting Galaxy Evolution, Star Formation and the X-ray Background*, *The Astrophysical Journal*, Vol. 639, p. 740.
- 17) **Ballantyne, D.R.**, 2005, *A Complete View of the Broad-Line Radio Galaxy 4C+74.26 with XMM-Newton*, *Monthly Notices of the Royal Astronomical Society*, Vol. 362, p. 1183.
- 18) **Ballantyne, D.R.** & Everett, J.E., 2005, *On the Dynamics of Suddenly Heated Accretion Disks Around Neutron Stars*, *The Astrophysical Journal*, Vol. 626, p. 364.
- 19) **Ballantyne, D.R.** & Fabian, A.C., 2005, *Evidence for an Untruncated Accretion Disk in the Broad-Line Radio Galaxy 4C+74.26*, *The Astrophysical Journal*, Vol. 622, p. L97.
- 20) **Ballantyne, D.R.**, Turner, N.J. & Young, A.J., 2005, *X-ray Reflection from Inhomogeneous Accretion Disks: II. Emission Line Variability and Implications for Reverberation Mapping*, *The Astrophysical Journal*, Vol. 619, p. 1028.
- 21) **Ballantyne, D.R.**, Fabian, A.C. & Iwasawa, K., 2004, *The XMM-Newton View of the Broad-Line Radio Galaxy 3C 120*, *Monthly Notices of the Royal Astronomical Society*, Vol. 354, p. 839.
- 22) Everett, J.E. & **Ballantyne, D.R.**, 2004, *Continuum Acceleration of Black Hole Winds*, *The Astrophysical Journal*, Vol. 615, p. L13.
- 23) Vaughan, S., Fabian, A.C., **Ballantyne, D.R.**, De Rosa, A., Piro, L. & Matt, G., 2004, *An XMM-Newton observation of Ark 120: the X-ray spectrum of a 'bare' Seyfert 1 nucleus*, *Monthly Notices of the Royal Astronomical Society*, Vol. 351, p. 193.
- 24) **Ballantyne, D.R.**, 2004, *Reflection spectra from an accretion disc illuminated by a neutron star X-ray burst*, *Monthly Notices of the Royal Astronomical Society*, Vol. 351, p. 57.
- 25) Font, A.S., McCarthy, I.G., Johnstone, D. & **Ballantyne, D.R.**, 2004, *Photoevaporation of Circumstellar Disks around Young Stars*, *The Astrophysical Journal*, Vol. 607, p. 890.
- 26) **Ballantyne, D.R.**, Turner, N.J. & Blaes, O.M., 2004, *X-ray Reflection from Inhomogeneous Accretion Disks: I. Toy Models and Photon Bubbles*, *The Astrophysical Journal*, Vol. 603, p. 436.
- 27) **Ballantyne, D.R.** & Strohmayer, T.E., 2004, *The Evolution of the Accretion Disk around 4U 1820-30 During a Superburst*, *The Astrophysical Journal*, Vol. 602, p. L105.

- 28) **Ballantyne, D.R.**, Weingartner, J.C. & Murray, N., 2003, *On the Location and Composition of the Dust in the MCG-6-30-15 Warm Absorber*, *Astronomy & Astrophysics*, Vol. 409, p. 503.
- 29) **Ballantyne, D.R.** & Fabian, A.C., 2003, *The Contribution of Particle Impact to the Production of Fe K α Emission from Accreting Black Holes*, *The Astrophysical Journal*, Vol. 592, p. 1089.
- 30) **Ballantyne, D.R.**, Vaughan, S. & Fabian, A.C., 2003, *A two-component ionized reflection model of MCG-6-30-15*, *Monthly Notices of the Royal Astronomical Society*, Vol. 342, p. 239.
- 31) Vaughan, S., Boller, Th., Fabian, A.C., **Ballantyne, D.R.**, Brandt, W.N. & Trümper, J., 2002, *A XMM-Newton observation of Ton S180: Constraints on the continuum emission in ultrasoft Seyfert galaxies*, *Monthly Notices of the Royal Astronomical Society*, Vol. 337, p. 247.
- 32) **Ballantyne, D.R.**, Ross, R.R. & Fabian, A.C., 2002, *Soft X-ray emission lines from photoionized accretion discs: constraints on their strength and width*, *Monthly Notices of the Royal Astronomical Society*, Vol. 336, p. 867.
- 33) Ross, R.R., Fabian, A.C. & **Ballantyne, D.R.**, 2002, *Multiple X-ray reflection from ionized slabs*, *Monthly Notices of the Royal Astronomical Society*, Vol. 336, p. 315.
- 34) Miller, J.M., **Ballantyne, D.R.**, Fabian, A.C. & Lewin, W.H.G., 2002, *Extremely Weak Reflection Features in the X-ray Spectrum of XTE J1118+480: Possible Evidence for X-ray-Emitting Jets?*, *Monthly Notices of the Royal Astronomical Society*, Vol. 335, p. 865.
- 35) Fabian, A.C., Vaughan, S., Nandra, K., Iwasawa, K., **Ballantyne, D.R.**, Lee, J.C., DeRosa, A., Turner, A. & Young, A.J., 2002, *A long hard look at MCG-6-30-15 with XMM-Newton*, *Monthly Notices of the Royal Astronomical Society*, Vol. 335, p. L1.
- 36) **Ballantyne, D.R.**, Ramirez-Ruiz, E., Lazzati, D. & Piro, L., 2002, *X-ray spectral diagnostics of the immediate environment of GRB 991216*, *Astronomy & Astrophysics*, Vol. 389, p. L74.
- 37) **Ballantyne, D.R.**, Ross, R.R. & Fabian A.C., 2002, *On the hard X-ray spectra of radio-loud active galaxies*, *Monthly Notices of the Royal Astronomical Society*, Vol. 332, p. L45.
- 38) **Ballantyne, D.R.** & Ross, R.R., 2002, *The Response of the Fe K α Line to Changes in the X-ray Illumination of Accretion Discs*, *Monthly Notices of the Royal Astronomical Society*, Vol. 332, p. 777.
- 39) Fabian, A.C., **Ballantyne, D.R.**, Merloni, A., Vaughan, S., Iwasawa, K. & Boller, Th., 2002, *How the X-ray spectrum of a Narrow-Line Seyfert 1 galaxy may be reflection dominated*, *Monthly Notices of the Royal Astronomical Society*, Vol. 331, p. L35.
- 40) **Ballantyne, D.R.**, Fabian, A.C. & Ross, R.R., 2002, *Fe K α emission from photoionized slabs: the impact of the iron abundance*, *Monthly Notices of the Royal Astronomical Society*, Vol. 329, p. L67.
- 41) Boller, Th., Fabian, A.C., Sunyaev, R., Trümper, J., Vaughan, S., **Ballantyne, D.R.**, Brandt, W.N., Keil, R. & Iwasawa, K., 2002, *XMM-Newton Discovery of a Sharp Spectral Feature at ~ 7 keV in the NLS1 Galaxy 1H 0707-495*, *Monthly Notices of the Royal Astronomical Society*, Vol. 329, p. L1.
- 42) **Ballantyne, D.R.** & Fabian A.C., 2001, *Relativistic Ionized Accretion Disc Models of MCG-6-30-15*, *Monthly Notices of the Royal Astronomical Society*, Vol. 328, p. L11.
- 43) **Ballantyne, D.R.** & Ramirez-Ruiz, E., 2001, *Iron K α Emission From X-ray Reflection: Predictions for Gamma-Ray Burst Models*, *The Astrophysical Journal*, Vol. 559, p. L83.

- 44) **Ballantyne, D.R.**, Ross, R.R. & Fabian, A.C., 2001, *X-ray Reflection By Photoionized Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 327, p.10.
- 45) Hawarden, T.G., Leggett, S.K., Letawsky M.B., **Ballantyne, D.R.** & Casali, M.M., 2001, *JHK Standard Stars for Large Telescopes: the UKIRT Fundamental and Extended Lists*, Monthly Notices of the Royal Astronomical Society, Vol. 325, p. 563.
- 46) Kerton, C.R., Martin, P.G., Johnstone, D. & **Ballantyne, D.R.**, 2001, *A Submillimeter View of Star Formation Near the HII Region KR 140*, The Astrophysical Journal, Vol. 552, p. 601.
- 47) **Ballantyne, D.R.**, Iwasawa, K. & Fabian A.C., 2001, *Evidence for Ionized Accretion Discs in Five Narrow-Line Seyfert 1 Galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 323, p. 506.
- 48) Magorrian, S.J. & **Ballantyne, D.R.**, 2001, *Mass Profiles and Anisotropies of Early-Type Galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 322, p. 702.
- 49) **Ballantyne, D.R.**, Kerton, C.R. & Martin, P.G., 2000, *The HII Region KR 140: Spontaneous Formation of a Massive Star*, The Astrophysical Journal, Vol. 539, p.283.
- 50) **Ballantyne, D.R.**, Ferland, G.J. & Martin, P.G., 2000, *The Primordial Helium Abundance: Toward Understanding and Removing the Cosmic Scatter in the dY/dZ Relation*, The Astrophysical Journal, Vol. 536, p. 773.
- 51) Armour, Mary-Helen, **Ballantyne, D.R.**, Ferland, G.J., Karr, J. & Martin, P.G., 1999, *Emission-Line Helium Abundances in Highly Obscured Nebulae*, Publications of the Astronomical Society of the Pacific, Vol. 111, p. 1251.
- 52) Kerton, C.R., **Ballantyne, D.R.**, & Martin, P.G., 1999, *Classification of O Stars in the Yellow: The Exciting Star VES 735*, The Astronomical Journal, Vol. 117, p. 2485.
- 53) Davies, J.K., McBride, N., Ellison, S.L., Green, S.F. & **Ballantyne, D.R.**, 1998, *Visible and Infrared Photometry of Six Centaurs*, Icarus, Vol. 134, p. 213.
- 54) Leahy, D.A., Roger, R.S. & **Ballantyne, D.**, 1997, *1420 MHz Continuum and Polarization Observations of the Cygnus Loop*, The Astronomical Journal, Vol. 114, p. 2081.

Review Articles

- 1) **Ballantyne, D.R.**, 2007, *The Accretion Geometry in Radio-Loud Active Galaxies*, Mod. Phys. Lett. A, Vol. 22, p. 2397 (invited).

Non-Refereed Publications (including conference proceedings)

- 1) Erlund, M.C., Fabian, A.C., Blundell, K., Moss, C. & **Ballantyne, D.R.**, 2008, *The Luminous X-ray Hotspot In 4C 74.26: Jet Dynamics At Work*, in Extragalactic Jets: Theory and Observation from Radio to Gamma Ray, ASP Conference Series Vol. 386, Rector, T.A. & De Young, D.S., eds., p. 56.
- 2) **Ballantyne, D.R.**, Ferland, G.J., Martin, P.G., van Hoof, P.A.M. & Weingartner, J.C., 2004, *Revisiting the Torus: Spectral Predictions from the IR to the X-ray*, in The Restless High Energy Universe: the 2nd BeppoSAX Symposium, Nuclear Physics B. (Proc. Suppl.), Vol. 132, van den Heuvel, E.P.J., in 't Zand, J.J.M. & Wijers, R.A.M.J., eds., p. 145.

- 3) **Ballantyne, D.R.**, Fabian, A.C. & Vaughan, S., 2003, *Ionized Disc Models of MCG-6-30-15*, in Active Galactic Nuclei: from Central Engine to Host Galaxy, ASP Conference Series Vol. 290, Collin, S., Combes, F. & Shlosman, I., eds., p. 77.
- 4) **Ballantyne, D.R.**, Ross, R.R. & Fabian, A.C., 2002, *Reflection Spectra from Photoionized Accretion Discs*, in X-ray Spectroscopy of AGN with Chandra and XMM-Newton, Boller, Th., Komossa, S., Kahn, S., Kunieda, H. & Gallo, L., eds., MPE Report 279, p. 73
- 5) De Rosa, A., Fabian, A.C., Piro, L. & **Ballantyne, D.R.**, 2002, *Study of X-ray Reflection Features in a Sample of Sy 1s observed by BeppoSAX*, in New Visions of the X-ray Universe in the XMM-Newton and Chandra Era, ESTEC, November 26-30, 2001. Jansen, F. ed.
- 6) **Ballantyne, D.R.** & Fabian, A.C., 2001, *Ionized Disc Models of MCG-6-30-15*, in X-ray Emission from Accretion onto Black Holes, JHU/LHEA Workshop, June 20-23, 2001.
- 7) **Ballantyne, D.R.**, Ross, R.R. & Fabian, A.C., 2001, *Ionized Iron Lines in X-ray Reflection Spectra*, in Spectroscopic Challenges of Photoionized Plasmas, ASP Conference Series Vol. 247, Ferland, G.J. & Savin D.W., eds., pp. 457-461
- 8) Péquignot, D., Ferland, G.J., Netzer, H., Kallman, T., **Ballantyne, D.R.**, Dumont, A-M., Ercolano, B., Harrington, P., Kraemer, S., Morisset, C., Nayakshin, S., Rubin, R.H. & Sutherland, R., 2001, *Photoionization Model Nebulae*, in Spectroscopic Challenges of Photoionized Plasmas, ASP Conference Series Vol. 247, Ferland, G.J. & Savin D.W., eds., pp. 533-556
- 9) Magorrian, J. & **Ballantyne, D.R.**, 1999, *Constraining the Mass Distribution of Spherical Galaxies*, in Galaxy Dynamics, ASP Conference Series Vol. 182, Merritt, D.R., Valluri, M. & Sellwood, J.A., eds., pp. 160-161
- 10) Davies, J.K., Tholen, D.J. & **Ballantyne, D.R.**, 1996, *Infrared Observations of Distant Asteroids*, in Completing the Inventory of the Solar System, ASP Conference Series Vol. 107, Rettig, T.W. & Hahn, J.M., eds., pp. 97-105.
- 11) Biver, N., **Ballantyne, D.R.**, Davies, J.K., Dent, W.R.F., Bocklee-Morvan, D., Crovisier, J. & Rauer, H., 1996, *Comet C/1995 O1 (Hale-Bopp)*, IAU Circular 6386.