

Publication List

Refereed Publications

- 1) **Ballantyne, D.R.**, 2005, *A Complete View of the Broad-Line Radio Galaxy 4C+74.26 with XMM-Newton*, accepted by the Monthly Notices of the Royal Astronomical Society.
- 2) **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.
- 3) **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.
- 4) **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.
- 5) **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.
- 6) Everett, J.E. & **Ballantyne, D.R.**, 2004, *Continuum Acceleration of Black Hole Winds*, The Astrophysical Journal, Vol. 615, p. L13.
- 7) 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.
- 8) **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.
- 9) 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.
- 10) **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.
- 11) **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.
- 12) **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.
- 13) **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.
- 14) **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.

- 15) 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.
- 16) **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.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) **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.
- 21) **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.
- 22) **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.
- 23) 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.
- 24) **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.
- 25) 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.
- 26) **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.
- 27) **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.
- 28) **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.

- 29) 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.
- 30) 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.
- 31) **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.
- 32) 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.
- 33) **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.
- 34) **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.
- 35) 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.
- 36) 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.
- 37) 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.
- 38) 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.

Non-Refereed Publications (including conference proceedings)

- 1) **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, E.P.J. van den Heuvel, J.J.M. in 't Zand & R.A.M.J. Wijers, eds., Nuclear Physics B. (Proc. Suppl.), Vol. 132, p. 145.
- 2) **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.
- 3) **Ballantyne, D.R.**, Ross, R.R. & Fabian, A.C., 2002, *Reflection Spectra from Photoionized Accretion Discs*, in the proceedings of X-ray Spectroscopy of AGN with Chandra and XMM-Newton, eds. Boller, Th., Komossa, S., Kahn, S., Kunieda, H. & Gallo, L., MPE Report 279, p. 73

- 4) 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 the proceedings of New Visions of the X-ray Universe in the XMM-Newton and Chandra Era, ESTEC, November 26-30, 2001. Jansen, F. ed.
- 5) **Ballantyne, D.R.** & Fabian, A.C., 2001, *Ionized Disc Models of MCG-6-30-15*, in the proceedings of X-ray Emission from Accretion onto Black Holes, JHU/LHEA Workshop, June 20-23, 2001.
- 6) **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
- 7) 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
- 8) 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
- 9) 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.
- 10) 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.