

Publication List

ADS Citation Data (as of October 25, 2019)

- 1) Total citations/paper: 35.7
- 2) Refereed citations/paper: 32.6
- 3) h-index: 39

Refereed Publications

- 1) **Ballantyne, D.R.**, 2019, *Examining the Physical Conditions of a Warm Corona in Active Galactic Nuclei Accretion Discs*, submitted to the Monthly Notices of the Royal Astronomical Society.
- 2) Fragile, P.C., **Ballantyne, D.R.** & Blankenship, A., 2019, *Interactions of Type I X-ray Bursts with Thin Accretion Discs*, submitted to Nature Astronomy.
- 3) Bult, P., Jaisawal, G., Güver, T., Strohmayer, T.E., Altamirano, D., Arzoumanian, Z., **Ballantyne, D.R.**, Chakrabarty, D., Chenevez, J., Gendreau, K.C., Guillot, S. & Ludlam, R.M., 2019, *A NICER thermonuclear burst from the millisecond X-ray pulsar SAX J1808.4-3658*, The Astrophysical Journal, Vol. 885, p. L1.
- 4) Jaisawal, G., Wilson-Hodge, C.A., Fabian, A.C., Naik, S., Chakrabarty, D., Kretschmar, P., **Ballantyne, D.R.**, Ludlum, R.M., Chenevez, J., Altamirano, D., Arzoumanian, Z., Fürst, F., Gendreau, K.C., Guillot, S., Malacaria, C., Miller, J.M., Stevens, A.L. & Wolff, M.T., 2019, *An evolving broad iron line from the first Galactic ultraluminous X-ray pulsar Swift J0243.6+6124*, The Astrophysical Journal, Vol. 885, p. 19.
- 5) Avirett-Mackenzie, M.S. & **Ballantyne, D.R.**, 2019, *The evolving X-ray spectrum of active galactic nuclei: evidence for an increasing reflection fraction with redshift*, Monthly Notices of the Royal Astronomical Society, Vol. 486, p. 3488.
- 6) Gohil, R., **Ballantyne, D.R.** & Li, G., 2019, *The stellar remnants of high redshift nuclear starburst discs: a potential origin for nuclear star clusters?*, Monthly Notices of the Royal Astronomical Society, Vol. 485, p. 2935.
- 7) Porquet, D., Done, C., Reeves, J.N., Grosso, N., Marinucci, A., Matt, G., Lobban, A., Nardini, E., Baito, V., Marin, F., Kubota, A., Ricci, C., Koss, M., Stern, D., **Ballantyne, D.** & Farrah, D., 2019, *A deep X-ray view of the bare AGN Ark 120. V. Spin determination from disc-Comptonisation efficiency method*, Astronomy & Astrophysics, Vol. 623, A11.
- 8) García, J.A., Kara, E., Walton, D., Beuchert, T., Dauser, T., Gatuzz, E., Balokovic, M., Steiner, J.F., Tombesi, F., Connors, R.M.T., Kallman, T.R., Harrison, F.A., Fabian, A., Wilms, J., Stern, D., Lanz, L., Ricci, C. & **Ballantyne, D.R.**, 2019, *Physical Implications of Warm Comptonization and Relativistic Reflection for the Soft Excess in AGN: The case of Mrk 509 Observed with NuSTAR and*

Suzaku, The Astrophysical Journal, Vol. 871, p. 88.

- 9) Yan, W., Hickox, R.C., Hainline, K.N., Stern, D., Lansbury, G., Alexander, D.M., Hviding, R.E., Assef, R., J., **Ballantyne, D.R.**, Dipompeo, M.A., Lanz, L., Carroll, C.M., Koss, M., Lamberti, I., Civano, F., Del Moro, A., Gandhi, P. & Myers, A.D., 2019, *NuSTAR and Keck Observations of Heavily Obscured Quasars Selected by WISE*, The Astrophysical Journal, Vol. 870, p. 33.
- 10) Lanz, L., Hickox, R.C., Balokovic, M., Shimizu, T., Ricci, C., Goulding, A.D., **Ballantyne, D.R.**, Bauer, F.E., Chen, C.-T. J., Del Moro, D., Farrah, D., Koss, M.J., LaMassa, S., Masini, A. & Zappacosta, L., 2019, *Investigating the Covering Fraction Distribution of Swift/BAT AGN with X-ray and IR Observations*, The Astrophysical Journal, Vol. 870, p. 26.
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- 12) Fragile, P.C., **Ballantyne, D.R.**, Maccarone, T.J. & Witry, J.W.L., 2018, *Simulating the Collapse of a Thick Accretion Disk due to a Type I X-ray Burst from a Neutron Star*, The Astrophysical Journal, Vol. 867, p. L28.
- 13) Buisson, D.J.K., Parker, M.L., Kara, E., Vasudevan, R.V., Lohfink, A.M., Pinto, C., Fabian, A.C., **Ballantyne, D.R.**, Boggs, S.E., Christensen, F.E., Craig, W.W., Farrah, D., Hailey, C.J., Harrison,

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- 14) Ursini, F., Petrucci, P.-O., Matt, G., Bianchi, S., Cappi, M., Dadina, M., Grandi, P., Torresi, E., **Ballantyne, D.R.**, De Marco, B., De Rosa, A., Giroletti, M., Malzac, J., Marinucci, A., Middei, R., Ponti, G. & Tortosa, A., 2018, *Radio/X-ray monitoring of the broad-line radio galaxy 3C 382. High-energy view with XMM-Newton and NuSTAR*, Monthly Notices of the Royal Astronomical Society, Vol. 478, p. 2663.
- 15) Masini, A., Ciavno, F., Comastri, A., Fornasini, F., **Ballantyne, D.R.**, Lansbury, G., Treister, E., Alexander, D.M., Boorman, P.G., Brandt, W.N., Farrah, D., Gandhi, P., Harrison, F.A., Hickox, R.C., Kocevski, D.D., Lanz, L., Marchesi, S., Puccetti, S., Ricci, C., Saez, C., Stern, D. & Zappacosta, L., 2018, *The NuSTAR Extragalactic Surveys: Source Catalog and the Compton-Thick Fraction in the UDS Field*, The Astrophysical Journal Supplement Series, Vol. 235, p.17.
- 16) Singal, J., Haider, J., Ajello, M., **Ballantyne, D. R.**, Bunn, E., Condon, J., Dowell, J., Fixsen, D., Fornengo, N., Harms, B., Holder, G., Jones, E., Kellermann, K., Kogut, A., Linden, T., Monsalve, R., Mertsch, P., Murphy, E., Orlando, E., Regis, M., Scott, D., Vernstrom, T. & Xu, L., 2018, *The Radio Synchrotron Background: Conference Summary and Report*, Publications of the Astronomical Society of the Pacific, Vol. 130, p. 036001.
- 17) Gohil, R. & **Ballantyne, D.R.**, 2018, *The Shape of the Cosmic X-ray Background: Nuclear Starburst Discs and the Redshift Evolution of AGN Obscuration*, Monthly Notices of the Royal Astronomical Society, Vol. 475, p. 3543.
- 18) Zappacosta, L., Comastri, A., Civano, F., Puccetti, S., Fiore, F., Aird, J., Del Moro, A., Lansbury, G.B., Lanzuisi, G., Goulding, A., Mullaney, J.R., Stern, D., Ajello, M., Alexander, D.M., **Ballantyne, D.R.**, Bauer, F.E., Brandt, W.N., Chen, C.-T.J., Farrah, D., Harrison, F.A., Gandhi, P., Lanz, L., Masini, A., Marchesi, S., Ricci, C. & Treister, E., 2018, *The NuSTAR Extragalactic Surveys: X-ray Spectroscopic Analysis of the Bright Hard-Band Sample*, The Astrophysical Journal, Vol. 854, p. 33.
- 19) Porquet, D., Reeves, J.N., Matt, G., Marinucci, A., Nardini, E., Braitto, V., Lobban, A., **Ballantyne, D.R.**, Boggs, S.E., Christensen, F.E., Dauser, T., Farrah, D., Garcia, J., Hailey, C.J., Harrison, F., Stern, D., Tortosa, A., Ursini, F. & Zhang, W.W., 2018, *A deep X-ray view of the bare AGN Ark 120. IV. XMM-Newton and NuSTAR spectra dominated by two temperature (warm, hot) Comptonization processes*, Astronomy & Astrophysics, Vol. 609, p. A42.
- 20) Degenaar, N., **Ballantyne, D.R.**, Belloni, T., Chakraborty, M., Chen, Y.-P., Ji, L., Kretschmar, P., Kuulkers, E., Li, J., Maccarone, T.J., Malzac, J., Zhang, S. & Zhang, S.-N., 2018, *Accretion Disks and Coronae in the X-ray Flashlight*, Space Science Reviews, Vol. 214, p. 15.
- 21) Sartori, L.F., Schawinski, K, Koss, M.J., Ricci, C., Treister, E., Stern, D., Lansbury, G., Maksym, W.P., Baloković, M., Gandhi, P., Keel, W.C. & **Ballantyne, D.R.**, 2018, *Joint NuSTAR and Chandra analysis of the obscured quasar in IC 2494 – Hanny's Voorwerp system*, Monthly Notices of the

Royal Astronomical Society, Vol. 474, p. 2444.

- 22) Del Moro, A., Alexander, D.M., Aird, J.A., Bauer, F.E., Civano, F., Mullaney, J.R., **Ballantyne, D.R.**, Brandt, W.N., Comastri, A., Gandhi, P., Harrison, F.A., Lansbury, G.B., Lanz, L., Luo, B., Marchesi, S., Puccetti, S., Ricci, C., Saez, C., Stern, D., Treister, E. & Zappacosta, L., 2017, *The NuSTAR Extragalactic Survey: Average Broad-band X-ray Spectral Properties of the NuSTAR Detected AGN*, The Astrophysical Journal, Vol. 849, p. 57.
- 23) **Ballantyne, D.R.**, 2017, *Ionised Accretion Discs in Active Galactic Nuclei: The Effects of a Lamppost with a Variable Height*, Monthly Notices of the Royal Astronomical Society Letters, Vol. 472, p. L60.
- 24) Lansbury, G.B., Alexander, D.M., Aird, J., Gandhi, P., Stern, D., Koss, M., Ajello, M., Assef, R.J., **Ballantyne, D.R.**, Baloković, M., Bauer, F.E., Brandt, W.N., Brightman, M., Chen, C.-T.J., Civano, F., Comastri, A., Del Moro, A., Fuentes, C., Harrison, F.A., Marchesi, S., Masini, A., Mullaney, J.R., Ricci, C., Saez, C., Tomsick, J.A., Treister, E., Walton, D.J. & Zappacosta, L., 2017, *The NuSTAR Serendipitous Survey: Hunting for the Most Extreme Obscured AGN at > 10 keV*, The Astrophysical Journal, Vol. 846, p. 20.
- 25) Brightman, M., Baloković, M., **Ballantyne, D.R.**, Bauer, F.E., Boorman, P., Buchner, J., Brandt, W.N., Comastri, A., Del Moro, A., Farrah, D., Harrison, F.A., Koss, M., Lanz, L., Masini, A., Ricci, C., Stern, D., Vasudevan, R. & Walton, D.J., 2017, *X-ray Bolometric Corrections for Compton-Thick Active Galactic Nuclei*, The Astrophysical Journal, Vol. 844, p. 10.
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- 27) Gohil, R. & **Ballantyne, D.R.**, 2017, *Modeling the Vertical Structure of Nuclear Starburst Discs: A Possible Source of AGN Obscuration at $z \sim 1$* , Monthly Notices of the Royal Astronomical Society, Vol. 468, p. 4944.
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- 30) Keek, L., Iwakiri, W., Serino, M., **Ballantyne, D.R.**, in 't Zand, J.J.M. & Strohmayer, T.E., 2017, *X-ray Reflection and an Exceptionally Long Thermonuclear Helium Burst from IGR J17062-6143*, The Astrophysical Journal, Vol. 836, p. 111.
- 31) Zoghbi, A., Matt, G., Miller, J.M., Lohfink, A.M., Walton, D.J., **Ballantyne, D.R.**, García, J.A., Stern, D., Koss, M.J., Farrah, D., Harrison, F.A., Boggs, S.E., Christensen, F.E., Craig, W., Hailey, C.J. & Zhang, W.W., 2017, *A Long Look at MCG-5-23-16 with NuSTAR: I. - Relativistic Reflection and Coronal Properties*, The Astrophysical Journal, Vol. 836, p. 2.
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- 33) Ricci, C., Assef, R.J., Stern, D., Nikutta, R., Alexander, D.M., Asmus, D., **Ballantyne, D.R.**, Bauer, F.E., Blain, A.W., Boggs, S., Boorman, P.G., Brandt, W.N., Brightman, M., Chen, C.-T.J., Christensen, F.E., Comastri, A., Craig, W.W., Díaz-Santos, T., Eisenhardt, P.R., Farrah, D., Gandhi, P., Hailey, C.J., Harrison, F.A., Jun, H.D., Koss, M.J., LaMassa, S., Lansbury, G., Markwardt, C.B., Stalevski, M., Stanley, F., Treister, E., Tsai, C.-W., Walton, D.J., Wu, J.W. & Zhang, W.W., 2017, *NuSTAR Observations of WISE J1036+0449, A Galaxy at $z \sim 1$ Obscured by Hot Dust*, The Astrophysical Journal, Vol. 835, p. 105.
- 34) **Ballantyne, D.R.**, 2017, *Clustering, Cosmology and a New Era of Black Hole Demographics – I. The Conditional Luminosity Function of Active Galactic Nuclei*, Monthly Notices of the Royal Astronomical Society, Vol. 464, p. 613.
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- 36) Boorman, P.G., Gandhi, P., Alexander, D.M., Annuar, A., **Ballantyne, D.R.**, Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Farrah, D., Hailey, C.J., Harrison, F.A., Hönic, S.F., Koss, M., LaMassa, S.M., Masini, A., Ricci, C., Risaliti, G., Stern, D. & Zhang, W.W., 2016, *IC 3639 – A New Bona Fide Compton Thick AGN Unveiled by NuSTAR*, The Astrophysical Journal, Vol. 833, p. 245.
- 37) Rujopakarn, W., Dunlop, J.S., Rieke, G.H., Ivison, R.J., Cibinel, A., Nyland, K., Jagannathan, P., Silverman, J.D., Alexander, D.M., Biggs, A.D., Bhatnagar, S., **Ballantyne, D.R.**, Dickinson, M., Elbaz, D., Geach, J.E., Hayward, C.C., Kirkpatrick, A., McLure, R.J., Michałowski, M.J., Miller, N.A., Narayanan, D., Owen, F.N., Pannella, M., Papovich, C., Pope, A., Rau, U., Robertson, B.E., Scott, D., Swinbank, A.M., van der Werf, P., van Kampen, E. & Windhurst, R.A., 2016, *VLA and ALMA*

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