

Publication List

ADS Citation Data (as of May 11, 2022)

- 1) Total citations/paper: 41.8
- 2) Refereed citations/paper: 38.2
- 3) h-index: 46

Refereed Publications

- 1) Xiang, X., **Ballantyne, D.R.**, Bianchi, S., De Rosa, A., Matt, G., Middei, R., Petrucci, P.-O., Róžańska, A. & Ursini, F., 2022, *reXcor: A Model of the X-ray Spectrum of Active Galactic Nuclei that Combines Ionized Reflection and a Warm Corona*, submitted to the Monthly Notices of the Royal Astronomical Society.
- 2) Li, K., Bogdanović, T., **Ballantyne, D.R.** & Bonetti, M., 2022, *Massive Black Hole Binaries from the TNG50 Simulation: I. Coalescence and LISA Detection Rates*, submitted to The Astrophysical Journal.
- 3) Güver, T., Boztepe, T., **Ballantyne, D.R.**, Funda Bostanci, Z., Bult, P., Jaisawal, G.K., Göğüş, E., Strohmayer, T.E., Altamirano, D., Guillot, S. & Chakrabarty, D., 2022, *A NICER look at thermonuclear X-ray bursts from Aql X-1*, Monthly Notices of the Royal Astronomical Society, Vol. 510, p. 1577.
- 4) Speicher, J., **Ballantyne, D.R.** & Fragile, P.C., 2022, *Evolution of accretion disc reflection spectra due to a Type I X-ray burst*, Monthly Notices of the Royal Astronomical Society, Vol. 509, p. 1736.
- 5) Bult, P., Altamirano, D., Arzoumanian, Z., **Ballantyne, D.R.**, Chenevez, J., Fabian, A.C., Gendreau, K.C., Homan, J., Jaisawal, G.K., Malacaria, C., Miller, J.M., Parker, M.L. & Strohmayer, T.E., 2021, *On the Impact of an Intermediate Duration X-ray Burst on the Accretion Environment in IGR J17062-6143*, The Astrophysical Journal, Vol. 920, p. 59.
- 6) Li, K., **Ballantyne, D.R.** & Bogdanović, T., 2021, *The Detectability of Kiloparsec Scale Dual AGNs: The Impact of Galactic Structure and Black Hole Orbital Properties*, The Astrophysical Journal, Vol. 916, p. 110.
- 7) Lacy, M., Surace, J.A., Farrah, D., Nyland, K., Afonso, J., Brandt, W.N., Clements, D.L., Lagos, C.D.P., Maraston, C., Pforr, J., Sajina, A., Sako, M., Vaccari, M., Wilson, G., **Ballantyne, D.R.**, Barkhouse, W.A., Brunner, R., Cane, R., Clarke, T.E., Cooper, M., Cooray, A., Covone, G., D'Andrea, C., Evrard, A.E., Ferguson, H.C., Frieman, J., Gonzalez-Perez, V., Gupta, R., Hatziminaoglou, E., Huang, J., Jagannathan, P., Jarvis, M.J., Jones, K.M., Kimball, A., Mei, S., Messias, H., Murphy, E.J., Newman, J.A., Michol, R., Norris, R.P., Oliver, S., Perez-Fournon, I., Peters, W.M., Pierre, M., Polisensky, E., Richards, G.T., Ridgway, S.E., Röttgering, H.J.A., Seymour, N., Shirley, R., Somerville, R., Smail, I., Strauss, M.A., Suntzeff, N., Thorman, P.A., van Kampen, E., Verma, A., Weschler, R., Wood-Vasey, W.M., 2021, *A Spitzer survey of Deep Drilling Fields to be targeted by the Vera C. Rubin Observatory Legacy Survey of Space and Time*, Monthly Notices of the Royal Astronomical Society, Vol. 501, p. 892.
- 8) Li, K., Bogdanović, T. & **Ballantyne, D.R.**, 2020, *The Pairing Probability of Massive Black Holes in Merger Galaxies in the Presence of Radiative Feedback*, The Astrophysical Journal, Vol. 905, p. 123.
- 9) Baloković, M., Harrison, F.A., Madejski, G., Comastri, A., Ricci, C., Annuar, A., **Ballantyne, D.R.**, Boorman, P., Brandt, W.N., Brightman, M., Gandhi, P., Kamraj, N., Koss, M.J., Marchesi, S., Marinucci, A., Masini, A., Matt, G., Stern, D. & Urry, C.M., 2020, *NuSTAR Survey of Obscured Swift/BAT-selected Active Galactic Nuclei: II. Median High-energy Cutoff in Seyfert II Hard X-ray Spectra*, The Astrophysical Journal, Vol. 905, p. 41.

- 10) Speicher, J., **Ballantyne, D.R.** & Malzac, J., 2020, *Cooling of Accretion Disc Coronae by Type I X-ray Bursts*, Monthly Notices of the Royal Astronomical Society, Vol. 499, p. 4479.
- 11) Annuar, A., Alexander, D.M., Gandhi, P., Lansbury, G.B., Asmus, D., Baloković, M., **Ballantyne, D.R.**, Bauer, F.E., Boorman, P.G., Brandt, W.N., Brightman, M., Chen, C.-T.J., Del Moro, A., Farrah, D., Harrison, F.A., Koss, M.J., Lanz, L., Marchesi, S., Masini, A., Nardini, E., Ricci, C., Stern, D. & Zappacosta, L., 2020, *NuSTAR Observations of Four Nearby X-ray Faint AGN: Low Luminosity or Heavily Obscured?*, Monthly Notices of the Royal Astronomical Society, Vol. 497, p. 229.
- 12) **Ballantyne, D.R.** & Xiang, X., 2020, *Sustaining a Warm Corona in Active Galactic Nuclei Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 496, p. 4255.
- 13) Li, K., Bogdanović, T. & **Ballantyne, D.R.**, 2020, *Pairing of Massive Black Holes in Merger Galaxies Driven by Dynamical Friction*, The Astrophysical Journal, Vol. 896, p. 113.
- 14) Fragile, P.C., **Ballantyne, D.R.** & Blankenship, A., 2020, *Interactions of Type I X-ray Bursts with Thin Accretion Disks*, Nature Astronomy, Vol. 4, p. 541.
- 15) **Ballantyne, D.R.**, 2020, *Examining the Physical Conditions of a Warm Corona in Active Galactic Nuclei Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 491, p. 3553.
- 16) 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.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) García, J.A., Kara, E., Walton, D., Beuchert, T., Dauser, T., Gattuzz, 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.
- 22) 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.

- 23) 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.
- 24) in't Zand, J.J.M., Bozzo, E., Qu, J., Li, X.-D., Amati, L., Chen, Y., Donnarumma, I., Doroshenko, V., Drake, S. A., Hernanz, M., Jenke, P.A., Maccarone, T.J., Mahmoodifar, S., de Martino, D., De Rosa, A., Rossi, E.M., Rowlinson, A., Sala, G., Stratta, G., Tauris, T.M., Wilms, J., Wu, X., Zhou, P., Agudo, I., Altamirano, D., Atteia, J.-L., Andersson, N.A., Baglio, M.C., **Ballantyne, D.R.**, Baykal, A., Behar, E., Belloni, T., Bhattacharyya, S., Bianchi, S., Bilous, A., Blay, P., Braga, J., Brandt, S., Brown, E.F., Bucciantini, N., Burderi, L., Cackett, E.M., Campana, R., Campana, S., Casella, P., Cavecchi, Y., Chambers, F., Chen, L., Chen, Y.P., Chenevez, J., Chernyakova, M., Jin, C., Ciolfi, R., Costantini, E., Cumming, A., D'Ai, A., Dai, Z.G., D'Ammando, F., De Pasquale, M., Degenaar, N., Del Santo, M., D'Elia, V., Di Salvo, T., Doyle, G., Falanga, M., Fan, X., Ferdman, R.D., Feroci, M., Frascchetti, F., Galloway, D.K., Gambino, A.F., Gandhi, P., Ge, M., Gendre, B., Gill, R., Götz, D., Gouiffès, C., Grandi, P., Granot, J., Güdel, M., Heger, A., Heinke, C.O., Homan, J., Iaria, R., Iwasawa, K., Izzo, L., Ji, L., Jonker, P.G., José, J., Kaastra, J.S., Kalemci, E., Kargaltsev, O., Kawai, N., Keek, L., Komossa, S., Kreykenbohm, I., Kuiper, L., Kunneriath, D., Li, G., Liang, E.W., Linares, M., Longo, F., Lu, F., Lutovinov, A.A., Malyshev, D., Malzac, J., Manousakis, A., McHardy, I., Mehdipour, M., Men, Y., Méndez, M., Mignani, R.P., Mikusincova, R., Miller, M.C., Miniutti, G., Motch, C., Nättilä, J., Nardini, E., Neubert, T., O'Brien, P.T., Orlandini, M., Osborne, J.P., Pacciani, L., Paltani, S., Paolillo, M., Papadakis, I.E., Paul, B., Pellizzoni, A., Peretz, U., Perez Torres, M.A., Perinati, E., Prescod-Weinstein, C., Reig, P., Riggio, A., Rodriguez, J., Rodriguez-Gil, P., Romano, P., Rozańska, A., Sakamoto, T., Salmi, T., Salvaterra, R., Sanna, A., Santangelo, A., Savolainen, T., Schanne, S., Schatz, H., Shao, L., Shearer, A., Shore, S.N., Stappers, B.W., Strohmayer, T.E., Suleimanov, V.F., Svoboda, J., Thielemann, F.-K., Tombesi, F., Torres, D.F., Torresi, E., Turriziani, S., Vacchi, A., Vercellone, S., Vink, J., Wang, J.-M., Weng, J., Watts, A.L., Weng, S., Weinberg, N.N., Wheatley, P.J., Wijnands, R., Woods, T.E., Woosley, S.E., Xiong, S., Xu, Y., Yan, Z., Younes, G., Yu, W., Yuan, F., Zampieri, L., Zane, S., Zdziarski, A., Zhang, S.-N., Zhang, S., Zhang, S., Zhang, X. & Zingale, M., 2019, *Observatory Science with eXTP*, Sci. China Phys. Mech. Astron., Vol. 62, p., 29506
- 25) 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.
- 26) 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, F.A., Ricci, C., Stern, D., Walton, D.J., Zhang, W.W., 2018, *NuSTAR observations of Mrk 766: distinguishing reflection from absorption*, Monthly Notices of the Royal Astronomical Society, Vol. 480, p. 3689.
- 27) 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.
- 28) 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.
- 29) 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*

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- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) **Ballantyne, D.R.**, 2017, *Ionised Accretion Disks 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.
- 37) 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.
- 38) 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.
- 39) Lohfink, A.M., Fabian, A.C., **Ballantyne, D.R.**, Boggs, S.E., Boorman, P., Christensen, F.E., Craig, W.W., Farrah, D., García, J., Hailey, C.J., Harrison, F.A., Ricci, C., Stern, D. & Zhang, W.W., 2017, *The X-Ray Reflection Spectrum of the Radio-Loud Quasar 4C 74.26*, The Astrophysical Journal, Vol. 841, p. 80.
- 40) Gohil, R. & **Ballantyne, D.R.**, 2017, *Modeling the Vertical Structure of Nuclear Starburst Discs: A Possible*

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- 41) Annuar, A., Alexander, D.M., Gandhi, P., Lansbury, G.B., Asmus, D., **Ballantyne, D.R.**, Bauer, F.E., Boggs, S.E., Boorman, P.G., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Farrah, D., Goulding, A.D., Hailey, C.J., Harrison, F.A., Koss, M.J., LaMassa, S.M., Murray, S.S., Ricci, C., Rosario, D.J., Stanley, F., Stern, D. & Zhang, W., 2017, *A New Compton-Thick AGN in Our Cosmic Backyard: Unveiling the Buried Nucleus in NGC 1448 with NuSTAR*, The Astrophysical Journal, Vol. 836, p. 165.
- 42) Tortosa, A., Marinucci, A., Matt, G., Bianchi, S., La Franca, F., **Ballantyne, D.R.**, Boorman, P.G., Fabian, A.C., Farrah, D., Fuerst, F., Gandhi, P., Harrison, F.A., Koss, M.J., Ricci, C., Stern, D., Ursini, F. & Walton, D.J., 2017, *Broadband X-ray spectral analysis of the Seyfert 1 galaxy GRS 1734-292*, Monthly Notices of the Royal Astronomical Society, Vol. 466, p. 4193.
- 43) 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.
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- 48) **Ballantyne, D.R.**, 2017, *Clustering, Cosmology and a New Era of Black Hole Demographics – II. The Conditional Luminosity Functions of Type 2 and Type 1 Active Galactic Nuclei*, Monthly Notices of the Royal Astronomical Society, Vol. 464, p. 626.
- 49) 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.
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