## **Publication List**

- 32. Waterval, S., A. V. Macciò, T. Buck, A. Obreja, C. Cho, Z. Jin, <u>B. L. Davis</u>, K. L. Dixon, & X. Kang (2024) "HELLO project: high-z evolution of large and luminous objects," *MNRAS*, **533**, 1463 **Citations = 3**
- 31. <u>Davis, B. L.</u>, A. W. Graham, R. Soria, Z. Jin, I. D. Karachentsev, V. E. Karachentseva, & E. D'Onghia (2024) "Identification of Intermediate-mass Black Hole Candidates among a Sample of Sd Galaxies," *ApJ*, **971**, 123 **Citations = 1**
- 30. Amaro-Seoane, P., et al. (2023) "Astrophysics with the Laser Interferometer Space Antenna," *Living Reviews in Relativity*, **26**, 2 **Citations** = **375**
- 29. <u>Davis, B. L.</u> & Z. Jin (2023) "Discovery of a Planar Black Hole Mass Scaling Relation for Spiral Galaxies," *ApJL*, **956**, L22 **Citations = 4**
- 28. Fusco, M. S., <u>B. L. Davis</u>, J. Kennefick, D. Kennefick, & M. S. Seigar (2022) "Probing the low-mass end of the black hole mass function via a study of faint local spiral galaxies," *Universe*, **8**, 649 **Citations** = **5**
- 27. Shields, D., B. Boe, C. Pfountz, <u>B. L. Davis</u>, M. Hartley, R. Miller, Z. Slade, M. S. Abdeen, D. Kennefick, & J. Kennefick (2022) "Spirality: A Novel Way to Measure Spiral Arm Pitch Angle," *Galaxies*, **10**, 100 **Citations** = **19**
- 26. Hon, D. S.-H., A. W. Graham, <u>B. L. Davis</u>, & A. Marconi (2022) "Disc cloaking: Establishing a lower limit to the number density of local compact massive spheroids/bulges and the potential fate of some high-z red nuggets," *MNRAS*, **514**, 3410 **Citations** = **13**
- Abdeen, S., <u>B. L. Davis</u>, R. Eufrasio, D. Kennefick, J. Kennefick, R. Miller, D. Shields, E. B. Monson, C. Bassett, & H. O'Mara (2022) "Evidence in favour of density wave theory through age gradients observed in star formation history maps and spatially resolved stellar clusters," MNRAS, 512, 366 Citations = 11
- 24. Sahu, N., A. W. Graham, & <u>B. L. Davis</u> (2022) "The (Black Hole Mass)-(Spheroid Stellar Density) Relations: M  $_{BH}$ - $\mu$  (and M  $_{BH}$ - $\Sigma$ ) and M  $_{BH}$ - $\rho$ ," ApJ, **927**, 67 **Citations = 12**
- 23. Sahu, N., A. W. Graham, & <u>B. L. Davis</u> (2022) "The Morphology-dependent Black Hole Host Galaxy Correlations: A Consequence of Physical Formation Processes," *AcAT*, **3**, 39 **Citations** = **2**
- 22. Graham, A. W., R. Soria, <u>B. L. Davis</u>, M. Kolehmainen, T. Maccarone, J. Miller-Jones, C. Motch, & D. A. Swartz (2021) "Central X-Ray Point Sources Found to Be Abundant in Low-mass, Late-type Galaxies Predicted to Contain an Intermediate-mass Black Hole," *ApJ*, **923**, 246 **Citations = 8**
- 21. Graham, A. W., R. Soria, B. C. Ciambur, <u>B. L. Davis</u>, & D. A. Swartz (2021) "Potential Black Hole Seeding of the Spiral Galaxy NGC 4424 via an Infalling Star Cluster," *ApJ*, **923**, 146 **Citations = 14**
- 20. <u>Davis, B. L.</u> & A. W. Graham (2021) "Refining the mass estimate for the intermediate-mass black hole candidate in NGC 3319," *PASA*, **38**, E030 **Citations = 6**
- 19. Sahu, N., A. W. Graham, & <u>B. L. Davis</u> (2020) "Defining the (Black Hole)-Spheroid Connection with the Discovery of Morphology-dependent Substructure in the  $M_{\rm BH}$ -n $_{sph}$  and  $M_{\rm BH}$ -R $_{e,sph}$  Diagrams: New Tests for Advanced Theories and Realistic Simulations," ApJ, **903**, 97 **Citations = 22**
- 18. Abdeen, S., D. Kennefick, J. Kennefick, R. Miller, D. W. Shields, E. B. Monson, & <u>B. L. Davis</u> (2020) "Determining the co-rotation radii of spiral galaxies using spiral arm pitch angle measurements at multiple wavelengths," *MNRAS*, **496**, 1610 **Citations** = **13**
- 17. Sahu, N., A. W. Graham, & <u>B. L. Davis</u> (2019) "Revealing Hidden Substructures in the  $M_{BH}$ – $\sigma$  Diagram, and Refining the Bend in the L– $\sigma$  Relation," ApJ, **887**, 10 **Citations = 67**
- 16. Davis, B. L., A. W. Graham, & F. Combes (2019) "A Consistent Set of Empirical Scaling Relations for Spiral Galaxies: The  $(v_{max}, M_{DM})$ – $(\sigma_0, M_{BH}, \phi)$  Relations," ApJ, 877, 64 Citations = 33
- 15. Sahu, N., A. W. Graham, & <u>B. L. Davis</u> (2019) "Black Hole Mass Scaling Relations for Early-type Galaxies. I.  $M_{BH}$ – $M_{*,sph}$  and  $M_{BH}$ – $M_{*,qal}$ ," ApJ, **876**, 155 **Citations = 102**
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- 13. Graham, A. W., R. Soria, & <u>B. L. Davis</u> (2019) "Expected intermediate-mass black holes in the Virgo cluster II. Late-type galaxies," *MNRAS*, **484**, 814 **Citations = 33**
- 12. Davis, B. L., A. W. Graham, & E. Cameron (2019) "Black Hole Mass Scaling Relations for Spiral Galaxies. I.  $\overline{M_{BH}}$ – $M_{*,sph}$ ," ApJ, 873, 85 Citations =89

- 11. Davis, B. L., A. W. Graham, & E. Cameron (2018) "Black Hole Mass Scaling Relations for Spiral Galaxies. II.  $\overline{M_{BH}}$ – $M_{*,tot}$  and  $M_{BH}$ – $M_{*,disk}$ ," ApJ, **869**, 113 **Citations = 77**
- 10. <u>Davis, B. L.</u>, A. W. Graham, & M. S. Seigar (2017) "Updating the (supermassive black hole mass)-(spiral arm pitch angle) relation: a strong correlation for galaxies with pseudobulges," *MNRAS*, **471**, 2187 **Citations** = **63**
- 9. Koliopanos, F., B. C. Ciambur, A. W. Graham, N. A. Webb, M. Coriat, B. Mutlu-Pakdil, <u>B. L. Davis</u>, O. Godet, D. Barret, & M. S. Seigar (2017) "Searching for intermediate-mass black holes in galaxies with low-luminosity AGN: a multiple-method approach," *A&A*, **601**, A20 **Citations = 21**
- 8. Mutlu-Pakdil, B., M. S. Seigar, & <u>B. L. Davis</u> (2016) "The Local Black Hole Mass Function Derived from the  $M_{BH}$ -P and the  $M_{BH}$ -n Relations," ApJ, 830, 117 Citations = 31
- 7. Pour-Imani, H., D. Kennefick, J. Kennefick, <u>B. L. Davis</u>, D. W. Shields, & M. Shameer Abdeen (2016) "Strong Evidence for the Density-wave Theory of Spiral Structure in Disk Galaxies," *ApJL*, **827**, L2 **Citations = 42**
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- 3. Davis, B. L., J. C. Berrier, L. Johns, D. W. Shields, M. T. Hartley, D. Kennefick, J. Kennefick, M. S. Seigar, & C. H. S. Lacy (2014) "The Black Hole Mass Function Derived from Local Spiral Galaxies," *ApJ*, **789**, 124 **Citations = 47**
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