

Refereed Journal Publications

1. **Alatalo, Katherine**; Nyland, Kristina; Graves, Genevieve; Deustua, Susana; Shapiro Griffin, Kristen and 25 co-authors “*NGC 1266 as a Local Candidate for Rapid Cessation of Star Formation.*”, submitted to the Astrophysical Journal
2. **Alatalo, Katherine**; Davis, Timothy A.; Bureau, Martin; Young, Lisa M.; Blitz, Leo and 21 co-authors “*The ATLAS3D project - XVIII. CARMA CO imaging survey of early-type galaxies*”, 2013, Monthly Notices of the Royal Astronomical Society in press (arXiv:1210.5524)
3. **Alatalo, K.**; Blitz, L.; Young, L. M.; Davis, T. A.; Bureau, M.; Lopez, L. A. and 23 co-authors “*Discovery of an AGN-Driven Molecular Outflow in the Local Early-Type Galaxy NGC 1266*”, 2011, the Astrophysical Journal, 735, 88
4. Nyland, Kristina; **Alatalo, Katherine**; Wrobel, J. M.; Young, Lisa M.; Morganti, Raffaella; Davis, Timothy A.; de Zeeuw, P. T. and Deustua, Susana “*Detection of a High Brightness Temperature Radio Core in the AGN-Driven Molecular Outflow Candidate NGC 1266.*”, submitted to the Astrophysical Journal
5. Davis, Timothy A.; **Alatalo, Katherine**; Bureau, Martin; Cappellari, Michele; Scott, Nicholas and 21 co-authors “*The ATLAS^{3D} project. - XIV. The extend and kinematics of the molecular gas in early-type galaxies.*”, 2013, Monthly Notices of the Royal Astronomical Society, 429, 534
6. Davis, Timothy A.; **Alatalo, Katherine**; Sarzi, Marc; Bureau, Martin and 21 co-authors “*The ATLAS3D project X. On the origin of the molecular and ionised gas in early-type galaxies*”, 2011, Monthly Notices of the Royal Astronomical Society, 417, 882
7. Yost, S. A.; **Alatalo, K.**; Rykoff, E. S.; Aharonian, F.; Akerlof, C. W. and 27 co-authors “*Optical Light Curve and Cooling Break of GRB 050502A*”, 2006, the Astrophysical Journal, 636, 959
8. Cappellari, Michele; Emsellem, Eric; Krajnović, Davor; McDermid, Richard M.; Scott, Nicholas; Verdoes Kleijn, G. A.; Young, Lisa M.; **Alatalo, Katherine** and 18 co-authors “*The ATLAS3D project - I. A volume-limited sample of 260 nearby early-type galaxies: science goals and selection criteria*”, 2011, Monthly Notices of the Royal Astronomical Society, 413, 813
9. Krajnović, Davor; Emsellem, Eric; Cappellari, Michele; **Alatalo, Katherine** and 19 co-authors “*The ATLAS3D project - II. Morphologies, kinematic features and alignment between photometric and kinematic axes of early-type galaxies*”, 2011, Monthly Notices of the Royal Astronomical Society, 414, 2923
10. Emsellem, Eric; Cappellari, Michele; Krajnović, Davor; **Alatalo, Katherine** and 20 co-authors “*The ATLAS3D project - III. A census of the stellar angular momentum within the effective radius of early-type galaxies: unveiling the distribution of fast and slow rotators*”, 2011, Monthly Notices of the Royal Astronomical Society, 414, 888

11. Young, Lisa M.; Bureau, Martin; Davis, Timothy A.; Combes, Francoise; McDermid, Richard M.; **Alatalo, Katherine** and 18 co-authors “*The ATLAS3D project - IV. The molecular gas content of early-type galaxies*”, 2011, Monthly Notices of the Royal Astronomical Society, 414, 940
12. Davis, Timothy A.; Bureau, Martin; Young, Lisa M.; **Alatalo, Katherine**; Blitz, Leo; Cappellari, Michele; Scott, Nicholas and 16 co-authors “*The ATLAS3D project - V. The CO Tully-Fisher relation of early-type galaxies*”, 2011, Monthly Notices of the Royal Astronomical Society, 414, 968
13. Bois, Maxime; Emsellem, Eric; Bournaud, Frédéric; **Alatalo, Katherine** and 20 co-authors “*The ATLAS3D Project - VI. Simulations of binary galaxy mergers and the link with Fast Rotators, Slow Rotators, and Kinematically Distinct Cores*”, 2011, Monthly Notices of the Royal Astronomical Society, 416, 1654
14. Cappellari, Michele; Emsellem, Eric; Krajnović, Davor; McDermid, Richard M.; Serra, Paolo; **Alatalo, Katherine** and 17 co-authors “*The Atlas3D project - VII. A new look at the morphology of nearby galaxies: the kinematic morphology-density relation*”, 2011, Monthly Notices of the Royal Astronomical Society, 416, 1680
15. Khochfar, Sadegh; Emsellem, Eric; Serra, Paolo; Bois, Maxime; **Alatalo, Katherine** and 20 co-authors “*The ATLAS3D project - VIII. Modelling the Formation and Evolution of Fast and Slow Rotator Early-Type Galaxies within Λ CDM*”, 2011, Monthly Notices of the Royal Astronomical Society, 417, 845
16. Duc, Pierre-Alain; Cuillandre, Jean-Charles; Serra, Paolo; Michel-Dansac, Leo; Ferriere, Etienne; **Alatalo, Katherine** and 21 co-authors “*The Atlas-3D project - IX. The merger origin of a fast and a slow rotating Early-Type Galaxy revealed with deep optical imaging: first results*”, 2011, Monthly Notices of the Royal Astronomical Society, 417, 863
17. Crocker, Alison; Krips, Melanie; Bureau, Martin; Young, Lisa M.; Davis, Timothy A.; Bayet, Estelle; Alatalo, Katherine; Blitz, Leo and 19 co-authors “*The ATLAS3D project - XI. Dense molecular gas properties of CO-luminous early-type galaxies*”, 2012, Monthly Notices of the Royal Astronomical Society, 421 1298
18. Lablanche, Pierre-Yves; Cappellari, Michele; Emsellem, Eric; Bournaud, Frédéric; Michel-Dansac, Leo; **Alatalo, Katherine**; Blitz, Leo and 18 co-authors “*The ATLAS 3D project - XII. Recovery of the mass-to-light ratio of simulated early-type barred galaxies with axisymmetric dynamical models*”, 2012, Monthly Notices of the Royal Astronomical Society, 424, 1495
19. Serra, Paolo; Oosterloo, Tom; Morganti, Raffaella; **Alatalo, Katherine**; Blitz, Leo and 18 co-authors “*The ATLAS3D project - XIII. Mass and morphology of H I in early-type galaxies as a function of environment*”, 2012, Monthly Notices of the Royal Astronomical Society, 422, 1835

20. Cappellari, Michele; Scott, Nicholas; **Alatalo, Katherine**; Blitz, Leo; Bois, Maxime and 17 co-authors “*The ATLAS^{3D} project - XV. Benchmark for early-type galaxies scaling relations from 260 dynamical models: mass-to-light ratio, dark matter, Fundamental Plane and Mass Plane.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1208.3522)
21. Bayet, Estelle; Bureau, Martin; Davis, Timothy A.; Young, Lisa M.; Crocker, Alison F.; **Alatalo, Katherine**; Blitz, Leo and 18 co-authors “*The ATLAS^{3D} project - XVI. Physical parameters and spectral line energy distributions of the molecular gas in gas-rich early-type galaxies.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv: 1212.2630)
22. Krajnović, Davor; **Alatalo, Katherine**; Blitz, Leo; Bois, Maxime; Bournaud, Frédéric and 18 co-authors “*The ATLAS^{3D} project - XVII. Linking photometric and kinematic signatures of stellar discs in early-type galaxies.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1210.8167)
23. Sarzi, Marc; **Alatalo, Katherine**; Blitz, Leo; Bois, Maxime; Bournaud, Frédéric and 20 co-authors “*The ATLAS^{3D} project - XIX. The hot gas content of early-type galaxies: fast versus slow rotators.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1301.2589)
24. Cappellari, Michele; Scott, Nicholas; **Alatalo, Katherine**; Blitz, Leo and 19 co-authors “*The ATLAS3D project - XX. Mass-size and Mass-sigma projections of the Virial Plane of early-type galaxies: variation of morphology, kinematics, mass-to-light ratio and stellar initial mass function*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1208.3523)
25. Scott, Nicholas; Cappellari, Michele; Davies, Roger L.; Kleijn, Gijs Verdoes; Bois, Maxime; **Alatalo, Katherine**; Blitz, Leo; Bournaud, Frédéric and 17 co-authors “*The ATLAS3D project - XXI. Correlations between gradients of local escape velocity and stellar populations in early-type galaxies.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1211.4615)
26. Martig, Marie; Crocker, Alison F.; Bournaud, Frédéric; Gabor, Jared M; **Alatalo, Katherine**; Blitz, Leo; Bois, Maxime and 22 co-authors “*The ATLAS3D project - XXII. Low-efficiency star formation in early-type galaxies: hydrodynamic models and observations.*”, 2013, Monthly Notices of the Royal Astronomical Society, in press (arXiv:1212.2288)
27. Krajnović, Davor; Karick, A. M.; Davies, Roger L.; Naab, Thorsten; Sarzi, Marc; Em-sellem, Eric; Cappellari, Michele; Serra, Paolo; de Zeeuw, P. T.; Scott, Nicholas; McDermid, Richard M.; Weijmans, Anne-Marie; Davis, Timothy A.; **Alatalo, Katherine**; and 11 co-authors “*The ATLAS3D project - XXIII. Angular momentum and nuclear surface brightness profiles.*”, 2013, accepted by the Monthly Notices of the Royal Astronomical Society (arXiv:1305.4973)

28. Davis, Timothy A.; Krajnović, Davor; McDermid, Richard M.; Bureau, Martin; Sarzi, Marc; Nyland, Kristina E.; **Alatalo, Katherine**; Bayet, Estelle and 19 co-authors “*Gemini GMOS and WHT SAURON integral-field spectrograph observations of the AGN-driven outflow in NGC 1266*”, 2012, Monthly Notices of the Royal Astronomical Society, 426, 1574
29. Serra, Paolo; Koribalski, Baerbel; Duc, Pierre-Alain; Oosterloo, Tom; McDermid, Richard M.; Michel-Dansac, Leo; Emsellem, Eric; Cuillandre, Jean-Charles; **Alatalo, Katherine**; Blitz, Leo and 15 co-authors “*Discovery of a giant HI tail in the galaxy group HCG 44*”, accepted for publication in Monthly Notices of the Royal Astronomical Society, arXiv:1209.4107
30. Cappellari, Michele; McDermid, Richard M.; Scott, Nicholas; **Alatalo, Katherine**; Blitz, Leo; Bois, Maxime and 20 co-authors “*Systematic variation of the stellar initial mass function in early-type galaxies*”, 2012, Nature, 484, 485
31. Bois, M.; Bournaud, F.; Emsellem, E.; **Alatalo, K.** and 20 co-authors “*Formation of slowly rotating early-type galaxies via major mergers: a resolution study*”, 2010, Monthly Notices of the Royal Astronomical Society, 406, 2405
32. Prochaska, J. X.; Bloom, J. S.; Chen, H.-W.; Foley, R. J.; Perley, D. A.; Ramirez-Ruiz, E.; Granot, J.; Lee, W. H.; Pooley, D.; **Alatalo, K.** and 12 co-authors “*The Galaxy Hosts and Large-Scale Environments of Short-Hard Gamma-Ray Bursts*”, 2006, the Astrophysical Journal, 642, 989
33. Quimby, R. M.; Rykoff, E. S.; Yost, S. A.; Aharonian, F.; Akerlof, C. W.; **Alatalo, K.** and 15 co-authors “*Early-Time Observations of the GRB 050319 Optical Transient*”, 2006, the Astrophysical Journal, 640, 402
34. Rykoff, E. S.; Yost, S. A.; Krimm, H. A.; Aharonian, F.; Akerlof, C. W.; **Alatalo, K.** and 18 co-authors “*Prompt Optical Detection of GRB 050401 with ROTSE-IIIa*”, 2005, the Astrophysical Journal Letters, 631, L121
35. Rykoff, E. S.; Aharonian, F.; Akerlof, C. W.; **Alatalo, K.** and 16 co-authors “*A Search for Untriggered GRB Afterglows with ROTSE-III*”, 2005, the Astrophysical Journal, 631, 1032

Un-refereed Publications

1. **Alatalo, K.**; Nyland, K. E.; Graves, G.; Deustua, S.; Young, L. M. and 20 co-authors “*Quenching of Star Formation in Molecular Outflow Host NGC 1266*”, 2012, Proceedings IAU Symposium No. 292
2. **Alatalo, K.**; Nyland, K. E.; Graves, G.; Deustua, S.; Wrobel, J. and 22 co-authors “*AGN Feedback Driven Molecular Outflow in NGC 1266*”, 2012, Proceedings IAU Symposium No. 290