

Thomas G. Beatty – Publication List

SUMMARY 70 papers total, 12 first author or supervised papers, and 11 with a significant contribution. H-index of 22 (via Google Scholar)

FIRST-AUTHOR
AND SUPERVISED
PUBLICATIONS

12. *Spitzer Phase Curves of KELT-1b and the Signatures of Nightside Clouds in Thermal Phase Observations*
Beatty, T. G., Marley, M. S., Gaudi, B. S., and 3 coauthors,
2018, AJ, submitted
11. *A Significant Overluminosity in the Transiting Brown Dwarf CWW 89Ab*
Beatty, T. G., Morley, C., Curtis, J., and 4 coauthors,
2018, AJ, 156, 168
10. *The Broadband and Spectrally-Resolved H-band Eclipse of KELT-1b and the Role of Surface Gravity in Stratospheric Inversions in Hot Jupiters*
Beatty, T. G., Madhusudhan, N., Pogge, R., and 4 coauthors,
2017, AJ, 154, 242
9. *Evidence for Atmospheric Cold-trap Processes in the Non-inverted Emission Spectrum of Kepler-13Ab using HST/WFC3*
Beatty, T. G., Madhusudhan, N., Tsiaras, A., and 5 coauthors,
2017, AJ, 154, 158
8. *The Role of Precise Photometric Transit Observations in the Era of Gaia Illustrated Using Transit Observations of KELT-11b from Spitzer*
Beatty, T. G., Stevens, D. J., Collins, K. A., and 7 coauthors,
2017, AJ, 154, 25
7. *Near-IR Emission Spectrum of WASP-103b Using Hubble Space Telescope/Wide Field Camera 3*
Cartier, K. M. S., **Beatty, T. G.**, Zhao, M., and 8 coauthors,
2017, AJ, 153, 34
6. *Sources of Statistical Uncertainty in Precision Radial Velocities and Their Approximations*
Beatty, T. G., & Gaudi, B. S.,
2015, PASP, 127, 1240
5. *Spitzer and z' Secondary Eclipse Observations of the Highly Irradiated Transiting Brown Dwarf KELT-1b*
Beatty, T. G., Collins, K. A., Fortney, J., and 9 coauthors,
2014, ApJ, 783, 112
4. *KELT-2Ab: A Hot Jupiter Transiting the Bright ($V = 8.77$) Primary Star of a Binary System*
Beatty, T. G., Pepper, J., Siverd, R. J., and 28 coauthors,
2012, ApJL, 756, L39
3. *Transit Probabilities for Stars with Stellar Inclination Constraints*
Beatty, T. G., & Seager, S., 2010,
ApJ, 714, 1433
2. *Predicting the Yields of Photometric Surveys for Transiting Extrasolar Planets*
Beatty, T. G., & Gaudi, B. S., 2008,
ApJ, 686, 1302
1. *The Mass and Radius of the Unseen M Dwarf Companion in the Single-Lined Eclipsing Binary HAT-TR-205-013*
Beatty, T. G., Fernandez, J. M., Latham, D. W., and 7 coauthors,
2007, ApJ, 663, 573

SIGNIFICANT
CONTRIBUTION
PUBLICATIONS

11. *A Giant Planet Undergoing Extreme-Ultraviolet Irradiation by its hot Massive-Star Host*
Gaudi, B. S., Stassun, K. G., Collins, K. A., **Beatty, T. G.**, and 42 coauthors,
2017, *Nature*, 546, 514
10. *KELT-12b: A $P \sim 5$ Day, Highly Inflated Hot Jupiter Transiting a Mildly Evolved Hot Star*
Stevens, D. J., Collins, K. A., Gaudi, B. S., **Beatty, T. G.**, and 45 coauthors,
2017, *AJ*, 153, 178
9. *KELT-17b: A hot-Jupiter Transiting an A-star in a Misaligned Orbit Detected with Doppler Tomography*
Zhou, G., Rodriguez, J. E., Collins, K. A., **Beatty, T. G.**, and 44 coauthors,
2016, *AJ*, 152, 136
8. *Spin-orbit Alignment for KELT-7b and HAT-P-56b via Doppler Tomography with TRES*
Zhou, G., Latham, D. W., Bieryla, A., **Beatty, T. G.**, and 4 coauthors,
2016, *MNRAS*, 460, 3376
7. *KELT-4Ab: An Inflated Hot Jupiter Transiting the Bright ($V = 10$) Component of a Hierarchical Triple*
Eastman, J. D., **Beatty, T. G.**, Siverd, R. J., and 42 coauthors,
2016, *AJ*, 151, 45
6. *KELT-8b: A Highly Inflated Transiting Hot Jupiter and a New Technique for Extracting High-precision Radial Velocities from Noisy Spectra*
Fulton, B., J., Collins, K., Gaudi, B. S., and 29 coauthors including **Beatty, T. G.**,
2015, *ApJ*, 810, 30
5. *KELT-7b: A Hot Jupiter Transiting a Bright $V = 8.54$ Rapidly Rotating F-star*
Bieryla, A., Collins, K., **Beatty, T. G.**, and 31 coauthors,
2015, *AJ*, 150, 12
4. *Miniature Exoplanet Radial Velocity Array (MINERVA) I. Design, Commissioning, and First Science Results*
Swift, J. J., Bottom, M., Johnson, J. A., and 27 coauthors including **Beatty, T. G.**,
2015, *JATIS*, 1, 027002
3. *KELT-6b: A $P \sim 7.9$ d Hot Saturn Transiting a Metal-Poor Star with a Long-Period Companion*
Collins, K. A., Eastman, J. D., **Beatty, T. G.**, and 39 coauthors,
2013, *AJ*, 147, 39
2. *KELT-3b: A Hot Jupiter Transiting a $V = 9.8$ Late-F Star*
Pepper, J., Siverd, R. J., **Beatty, T. G.**, and 31 coauthors,
2013, *ApJ*, 773, 64
1. *KELT-1b: A Strongly Irradiated, Highly Inflated, Short Period, 27 Jupiter-mass Companion Transiting a Mid-F Star*
Siverd, R. J., **Beatty, T. G.**, Pepper, J., and 29 coauthors,
2012, *ApJ*, 761, 123

OTHER REFEREED
PUBLICATIONS

47. *A Discrete Set of Possible Transit Ephemerides for Two Long Period Gas Giants Orbiting HIP 41378*
Becker, J. C., Vanderburg, A., Rodriguez, J. E., and 22 coauthors including **Beatty, T. G.**,
2018, AAS journals, submitted
46. *Precovery of TESS Single Transits with KELT*
Yao, X., Pepper, J., Gaudi, B. S., and 10 coauthors including **Beatty, T. G.**,
2018, AAS journals, submitted
45. *KELT-22Ab: A Massive Hot Jupiter Transiting a Near Solar Twin*
Labadie-Bartz, J., Rodriguez, J. E., Stassun, K. G., and 58 coauthors including **Beatty, T. G.**,
2018, AAS journals, submitted

44. *The KELT Follow-Up Network and Transit False Positive Catalog: Pre-vetted False Positives for TESS*
Collins, K. A., Collins, K. I., Pepper, J., and 108 coauthors including **Beatty, T. G.**,
2018, AJ, in press
43. *A Framework for Prioritizing the TESS Planetary Candidates Most Amenable to Atmospheric Characterization*
Kempton, E. M.-R., Bean, J. L., Louie, D. R., and 40 coauthors including **Beatty, T. G.**,
2018, PASP, 130, 4401
42. *EarthFinder: A Precise Radial Velocity Probe Mission Concept For the Detection of Earth-Mass Planets Orbiting Sun-like Stars*
Playchan, P., Cale, B., Newman, P., and 40 coauthors including **Beatty, T. G.**,
2018, National Academies Committee on Exoplanet Science Strategy
41. *Kepler-503b: An Object at the Hydrogen Burning Mass Limit Orbiting a Subgiant Star*
Canas, C. I., Bender, C. F., Mahadevan, S., and 10 coauthors including **Beatty, T. G.**,
2018, ApJ, 861, 4
40. *Global Climate and Atmospheric Composition of the Ultra-hot Jupiter WASP-103b from HST and Spitzer Phase Curve Observations*
Kreidberg, L., Line, M. R., Parmentier, V., and 13 coauthors including **Beatty, T. G.**,
2018, AJ, 156, 17
39. *KELT-21b: A Hot Jupiter Transiting the Rapidly Rotating Metal-poor Late-A Primary of a Likely Hierarchical Triple System*
Johnson, M. C., Rodriguez, J. E., Zhou, G., and 65 coauthors including **Beatty, T. G.**,
2018, AJ, 155, 100
38. *The First Post-Kepler Brightness Dips of KIC 8462852*
Boyajian, T. S., Alonso, R., Ammerman, A., and 205 coauthors including **Beatty, T. G.**,
2018, ApJ, 853, 8
37. *A Survey of Eight Hot Jupiters in Secondary Eclipse Using WIRCam at CFHT*
Martioli, E., Colon, K. D., Angerhausen, D., and 13 coauthors including **Beatty, T. G.**,
2018, MNRAS, 474, 426
36. *Variability Properties of 4 Million Sources in the TESS Input Catalog Observed With the Kilodegree Extremely Little Telescope Survey*
Oelkers, R. J., Rodriguez, J. E., Stassun, K. G., and 10 coauthors including **Beatty, T. G.**,
2018, AJ, 155, 390
35. *KELT-19Ab: A $P \sim 4.6$ Day Hot Jupiter Transiting a Likely Am Star with a Distant Stellar Companion*
Siverd, R. J., Collins, K. A., Zhou, G., and 45 coauthors including **Beatty, T. G.**,
2018, AJ, 155, 35
34. *Identification of Young Stellar Variables with KELT for K2 II: The Upper Scorpius Association*
Ansdell, M., Oelkers, R. J., Rodriguez, J. E., and 13 coauthors including **Beatty, T. G.**,
2018, MNRAS, 473, 1231
33. *KELT-20b: A Giant Planet With a Period of $P \sim 3.5$ Days Transiting the $V \sim 7.6$ Early A-Star HD 185603*
Lund, M. B., Rodriguez, J. E., Zhou, G., and 46 coauthors including **Beatty, T. G.**,
2017, AJ, 154, 194
32. *Identification of Young Stellar Variables with KELT for K2 I: Campaign 13 Taurus Dippers and Rotators*
Rodriguez, J. E., Ansdell, M., Oelkers, R. J., and 13 coauthors including **Beatty, T. G.**,
2017, ApJ, 848, 97
31. *Toward Space-like Photometric Precision from the Ground with Beam-shaping Diffusers*
Stefansson, G., Mahadevan, S., Hebb, L., and 21 coauthors including **Beatty, T. G.**,
2017, ApJ, 848, 9

30. *WASP-167b/KELT-13b: Joint Discovery of a hot Jupiter Transiting a Rapidly Rotating FIV Star*
Temple, L. Y., Hellier, C., Albrow, M. D., and 42 coauthors including **Beatty, T. G.**,
2017, MNRAS, 471, 2743
29. *Periodic Eclipses of the Young Star PDS 110 Discovered with WASP and KELT Photometry*
Osborn, H. P., Rodriguez, J. E., Kenworthy, M. A., and 28 coauthors including **Beatty, T. G.**,
2017, MNRAS, 471, 740
28. *Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy*
Mathur, S., Gupta, A., Page, K., and 147 coauthors including **Beatty, T. G.**,
2017, ApJ, 846, 55
27. *A Bright Short Period M-M Eclipsing Binary from the KELT Survey: Magnetic Activity and the Mass-Radius Relationship for M Dwarfs*
Lubin, J. B., Rodriguez, J. E., Zhou, G., and 25 coauthors including **Beatty, T. G.**,
2017, ApJ, 844, 134
26. *Reverberation Mapping of Optical Emission Lines in Five Active Galaxies*
Fausnaugh, M. M., Grier, C. J., Bentz, M. C. and 68 coauthors including **Beatty, T. G.**,
2017, ApJ, 840, 97
25. *Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548*
Pei, L., Fausnaugh, M. M., Barth, A. J., and 152 coauthors including **Beatty, T. G.**,
2017, ApJ, 837, 131
24. *The Mysterious Dimmings of the T Tauri Star V1334 Tau*
Rodriguez, J. E., Zhou, G., Cargile, P. A., and 35 coauthors including **Beatty, T. G.**,
2017, ApJ, 836, 209
23. *Multiwavelength Transit Observations of the Candidate Disintegrating Planetesimals Orbiting WD 1145+017*
Croll, B., Dalba, P. A., Vanderburg, A., and 13 coauthors including **Beatty, T. G.**,
2017, ApJ, 836, 82
22. *KELT-18b: Puffy Planet, Hot Host, Probably Perturbed*
McLeod, K. K., Rodriguez, J. E., Oelkers, R. J., and 54 coauthors including **Beatty, T. G.**,
2017, AJ, 153, 263
21. *Photometric Variability of the Be Star Population*
Labadie-Bartz, J., Pepper, J., McSwain, M. V., and 11 coauthors including **Beatty, T. G.**,
2017, AJ, 153, 252
20. *KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the V=8 Subgiant HD 93396*
Pepper, J., Rodriguez, J. E., Collins, K. A., and 34 coauthors including **Beatty, T. G.**,
2017, AJ, 153, 215
19. *KELT-16b: A Highly Irradiated, Ultra-Short Period hot Jupiter Nearing Tidal Disruption*
Oberst, T. E., Rodriguez, J. E., Colon, K. D., and 46 coauthors including **Beatty, T. G.**,
2017, AJ, 153, 97
18. *DM Ori: A Young Star Occulted by a Disturbance in its Protoplanetary Disk*
Rodriguez, J. E., Stassun, K. G., Cargile, P., and 18 coauthors including **Beatty, T. G.**,
2016, ApJ, 831, 74
17. *C IV Broad Absorption Line Acceleration in Sloan Digital Sky Survey Quasars*
Grier, C. J., Brandt, W. N., Hall, P. B., and 9 coauthors including **Beatty, T. G.**,
2016, ApJ, 824, 130
16. *An Extreme Analogue of ϵ Aurigae: An M-giant Eclipsed Every 69 Years by a Large Opaque Disk Surrounding a Small Hot Source*
Rodriguez, J. E., Stassun, K. G., Lund, M. B., and 10 coauthors including **Beatty, T. G.**,
2016, AJ, 151, 123

15. *Recurring Occultations of RW Aurigae by Coagulated Dust in the Tidally Disrupted Circumstellar Disk*
Rodriguez, J. E., Reed, P. A., Siverd, R. J., and 7 coauthors including **Beatty, T. G.**,
2016, AJ, 151, 29
14. *KELT-14b and KELT-15b: An Independent Discovery of WASP-122b and a New Hot Jupiter*
Rodriguez, J. E., Colon, K. D., Stassun, K. G., and 28 coauthors including **Beatty, T. G.**,
2016, AJ, 151, 138
13. *KELT-10b: The First Transiting Exoplanet from the KELT-South Survey – A Hot Sub-Jupiter Transiting a $V = 10.7$ Early G-Star*
Kuhn, R. B., Rodriguez, J. E., Collins, K. A., and 30 coauthors including **Beatty, T. G.**,
2015, MNRAS, 459, 4281
12. *V409 Tau as Another AA Tau: Photometric Observations of Stellar Occultations by the Circumstellar Disk*
Rodriguez, J. E., Pepper, J., Stassun, K. G., and 7 coauthors including **Beatty, T. G.**,
2015, ApJ, 150, 32
11. *Reverberation Mapping of the Seyfert 1 Galaxy NGC 7469*
Peterson, B. M., Grier, C. J., Horne, K., and 46 coauthors including **Beatty, T. G.**,
2014, ApJ, 795, 149
10. *Occultation of the T Tauri Star RW Aurigae A by its Tidally Disrupted Disk*
Rodriguez, J. E., Pepper, J., Stassun, K. G., and 4 coauthors including **Beatty, T. G.**,
2013, AJ, 146, 112
9. *MOA-2010-BLG-328Lb: a sub-Neptune Orbiting Very Late M-dwarf?*
Furusawa, K., Udalski, A., Sumi, T., and 119 coauthors including **Beatty, T. G.**,
2013, ApJ, 779, 91
8. *MOA-2010-BLG-311: A Planetary Candidate below the Threshold of Reliable Detection*
Yee, J. C., Hung, L.-W., Bond, I. A., and 129 coauthors including **Beatty, T.G.**,
2013, ApJ, 769, 77
7. *A Cautionary Tale: MARVELS Brown Dwarf Candidate Reveals Itself to be a Very Long Period, Highly Eccentric Spectroscopic Stellar Binary*
Mack, C. E. III, Ge, J., Deshpande, R., and 42 coauthors including **Beatty, T.G.**,
2013, AJ, 145, 139
6. *The Structure of the Broad-line Region in Active Galactic Nuclei. I. Reconstructed Velocity-delay Maps*
Grier, C. J., Peterson, B. M., Horne, K., and 38 coauthors including **Beatty, T.G.**,
2013, ApJ, 764, 47
5. *MOA-2010-BLG-523: “Failed Planet” = RS CVn Star*
Gould, A., Yee, J. C., Bond, I. A., and 122 coauthors including **Beatty, T.G.**,
2013, ApJ, 763, 141
4. *Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. II. A Short-period Companion Orbiting an F Star with Evidence of a Stellar Tertiary and Significant Mutual Inclination*
Fleming, S. W., Ge, J., Barnes, R., **Beatty, T. G.**, and 58 coauthors,
2012, AJ, 144, 72
3. *Reverberation Mapping Results for Five Seyfert 1 Galaxies*
Grier, C. J., Peterson, B. M., Pogge, R. W., and 40 coauthors including **Beatty, T. G.**,
2012, ApJL, 755, 60
2. *A Reverberation Lag for the High-ionization Component of the Broad-line Region in the Narrow-line Seyfert 1 Mrk 335*
Grier, C. J., Peterson, B. M., Pogge, R. W., and 37 coauthors including **Beatty, T. G.**,
2012, ApJL, 744, 4
1. *The Transit Light Curve Project. XI. Submillimagnitude Photometry of Two Transits of the Bloated Planet WASP-4b*
Winn, J. N., Holman, M. J., Carter, J. A., Torres, G., Osip, D. J., **Beatty, T. G.**,
2009, AJ, 137, 3826