

DR. MEREDITH A. MACGREGOR

Publication List (10 First Author, 3 Second Author, 10 Co-Author, 7 Unrefereed, 30 Total)

First Author

10. “Multiple Rings of Millimeter Dust Emission in the HD 15115 Debris Disk,” **M. A. MacGregor**, A. J. Weinberger, E. R. Nesvold, A. M. Hughes, D. J. Wilner, T. Currie, J. H. Debes, J. K. Donaldson, S. Redfield, A. Roberge, G. Schneider, 2019, *ApJL*, 877, L32, 7pp
<http://adsabs.harvard.edu/abs/2019ApJ...877L..32M>
9. “ALMA Detection of Extended Millimeter Halos in the HD 32297 and HD 61005 Debris Disks,” **M. A. MacGregor**, A. J. Weinberger, A. M. Hughes, D. J. Wilner, T. Currie, J. H. Debes, J. K. Donaldson, S. Redfield, A. Roberge, G. Schneider, 2018, *ApJ*, 869, 75, 13pp
<http://adsabs.harvard.edu/abs/2018ApJ...869...75M>
8. “Detection of a Millimeter Flare From Proxima Centauri,” **M. A. MacGregor**, A. J. Weinberger, D. J. Wilner, A. F. Kowalski, S. R. Cranmer, 2018, *ApJL*, 855, L2, 6pp
<http://adsabs.harvard.edu/abs/2018ApJ...855L...2M>
7. “A Complete ALMA Map of the Fomalhaut Debris Disk,” **M. A. MacGregor**, L. Matrà, P. Kalas, D. J. Wilner, M. Pan, G. M. Kennedy, M.C. Wyatt, G. Duchene, A. M. Hughes, G. H. Rieke, M. Clampin, M. P. Fitzgerald, J. R. Graham, W. S. Holland, O. Panić, A. Shannon, K. Y. L. Su, 2017, *ApJ*, 842, 8, 11pp
<http://adsabs.harvard.edu/abs/2017ApJ...842....8M>
6. “ALMA Measurements of Circumstellar Material in the GQ Lup System,” **M. A. MacGregor**, D. J. Wilner, I. Czekala, S. M. Andrews, Y. S. Dai, G. J. Herczeg, K. M. Kratter, A. L. Kraus, L. Ricci, L. Testi, 2017, *ApJ*, 835, 17, 9pp
<http://adsabs.harvard.edu/abs/2017ApJ...835...17M>
5. “ALMA Observations of the Debris Disk of Solar Analogue Tau Ceti,” **M. A. MacGregor**, S. M. Lawler, D. J. Wilner, B. C. Matthews, G. M. Kennedy, M. Booth, J. Di Francesco, 2016, *ApJ*, 828, 113, 8pp
<http://adsabs.harvard.edu/abs/2016ApJ...828..113M>
4. “Constraints on Planetesimal Collision Models in Debris Disks,” **M. A. MacGregor**, D. J. Wilner, C. Chandler, L. Ricci, S. T. Maddison, S. R. Cranmer, S. M. Andrews, A. M. Hughes, A. Steele, 2016, *ApJ*, 823, 79, 14pp
<http://adsabs.harvard.edu/abs/2016ApJ...823...79M>
3. “The Epsilon Eridani System Resolved by Millimeter Interferometry,” **M. A. MacGregor**, D. J. Wilner, S. M. Andrews, J.-F. Lestrade, S. Maddison, 2015, *ApJ*, 809, 47, 11pp
<http://adsabs.harvard.edu/abs/2015ApJ...809...47M>
2. “Resolved Millimeter Emission from the HD 15115 Debris Disk,” **M. A. MacGregor**, D. J. Wilner, S. M. Andrews, A. M. Hughes, 2015, *ApJ*, 801, 59, 8pp
<http://adsabs.harvard.edu/abs/2015ApJ...801...59M>
1. “Millimeter Emission Structure in the First ALMA Image of the AU Mic Debris Disk,” **M. A. MacGregor**, D. J. Wilner, K. A. Rosenfeld, S. M. Andrews, B. Matthews, A. M. Hughes, M. Booth, E. Chiang, J. R. Graham, P. Kalas, G. Kennedy, B. Sibthorpe, 2013, *ApJL*, 762, L21, 5pp
<http://adsabs.harvard.edu/abs/2013ApJ...762L..21M>

13. “The REASONS Survey: Resolved Millimeter Observations of a Large Debris Disk Around the Nearby F Star HD 17077,” A. G. Sepulveda, L. Matrà, G. M. Kennedy, C. del Burgo, K. I. Oberg, D. J. Wilner, S. Marino, M. Booth, J. M. Carpenter, C. L. Davies, W. R. F. Dent, S. Ertel, J.-F. Lestrade, J. P. Marshall, J. Milli, M. C. Wyatt, **M. A. MacGregor**, B. C. Matthews, 2019, submitted to ApJ
12. “Review: Far-Infrared Instrumentation and Technology Development for the Next Decade,” D. Farrah, K. Ennico Smith, D. Ardila, C. M. Bradford, M. J. DiPirro, C. Ferkinhoff, J. Glenn, P. F. Goldsmith, D. T. Leisawitz, T. Nikola, N. Rangwala, S. A. Rinehart, J. G. Staguhn, M. Zemcov, J. Zmuidzinas, J. Bartlett, S. J. Carey, W. J. Fischer, J. R. Kamenetzky, J. Kartaltepe, M. D. Lacy, D. C. Lis, L. S. Locke, E. Lopez-Rodriguez, **M. MacGregor**, E. Mills, S. H. Moseley, E. J. Murphy, A. Rhodes, M. J. Richter, D. Rigopoulou, D. B. Sanders, R. Sankrit, G. Savini, J.-D. Smith, S. Stierwalt, 2019, JATIS, 5(2), 1, 34pp
<http://adsabs.harvard.edu/abs/2017arXiv170902389F>
11. “Deep ALMA Search for CO Gas in the HD 95086 Debris Disc,” M. Booth, L. Matrà, K. Y. L. Su, Q. Kral, A. S. Hales, W. R. F. Dent, A. M. Hughes, **M. A. MacGregor**, T. Löhne, D. J. Wilner, 2018, MNRAS, 482, 3443, 10pp
<http://adsabs.harvard.edu/abs/2019MNRAS.482.3443B>
10. “Resolved Millimeter Observations of the HR 8799 Debris Disk,” D. J. Wilner, **M. A. MacGregor**, S. M. Andrews, A. M. Hughes, B. C. Matthews, K. Y. L. Su, 2018, ApJ, 855, 56, 10pp
<http://adsabs.harvard.edu/abs/2018ApJ...855...56W>
9. “VLA Observations of the HD 141569 Triple System,” J. A. White, A. C. Boley, **M. A. MacGregor**, A. M. Hughes, D. J. Wilner, 2018, MNRAS, 474, 4500, 7pp
<http://adsabs.harvard.edu/abs/2018MNRAS.474.4500W>
8. “ALMA 1.3 Millimeter Map of the HD 95086 System,” K. Y. L. Su, **M. A. MacGregor**, M. Booth, D. J. Wilner, K. Flaherty, A. M. Hughes, N. M. Phillips, R. Malhotra, A. S. Hales, S. Morrison, S. Ertel, B. C. Matthews, W. R. F. Dent, S. Casassus, 2017, AJ, 154, 225, 13pp
<http://adsabs.harvard.edu/abs/2017AJ....154..225S>
7. “Detection of exocometary CO within the 440 Myr-old Fomalhaut belt: a similar CO+CO₂ ice abundance in exocomets and Solar System comets,” L. Matrà, **M. A. MacGregor**, P. Kalas, M. C. Wyatt, G. M. Kennedy, D. J. Wilner, G. Duchene, A. M. Hughes, M. Pan, A. Shannon, M. Clampin, M. P. Fitzgerald, J. R. Graham, W. S. Holland, O. Panić, K. Y. L. Su, 2017, ApJ, 842, 9, 15pp
<http://adsabs.harvard.edu/abs/2017ApJ...842....9M>
6. “A Multi-Ringed, Modestly-Inclined Protoplanetary Disk Around AA Tau,” R. A. Loomis, K. I. Öberg, S. M. Andrews, **M. A. MacGregor**, 2017, ApJ, 840, 23, 9pp
<http://adsabs.harvard.edu/abs/2017ApJ...840...23L>
5. “An ATCA survey of debris disks at 7 millimeters,” L. Ricci, S. T. Maddison, D. Wilner, **M. A. MacGregor**, C. Ubach, J. M. Carpenter, L. Testi, 2015, ApJ, 813, 138, 6pp
<http://adsabs.harvard.edu/abs/2015ApJ...813..138R>
4. “The AU Mic Debris Disk: Far-infrared and Submillimeter Resolved Imaging,” B. C. Matthews, G. Kennedy, B. Subthorpe, W. Holland, M. Booth, P. Kalas, **M. MacGregor**, D. Wilner, B. Vandenbussche, G. Olofsson, J. Blommaert, A. Brandeker, W. R. F. Dent, B. L. de Vries, J. Di Francesco, M. Fridlund, J. R. Graham, J. Greaves, A. M. Heras, M. Hogerheijde, R. J. Ivison, E. Pantin, G. L. Pilbratt, 2015, ApJ, 811, 100, 12pp
<http://adsabs.harvard.edu/abs/2015ApJ...811..100M>
3. “Ammonia Thermometry of Star-Forming Galaxies,” J. G. Mangum, J. Darling, C. Henkel, K. M. Menten, **M. MacGregor**, B. E. Svoboda, E. Schinnerer, 2013, ApJ, 779, 33, 27pp
<http://adsabs.harvard.edu/abs/2013ApJ...779...33M>

2. “Constraining a Model of Turbulent Coronal Heating for AU Microscopii with X-Ray, Radio, and Millimeter Observations,” S. R. Cranmer, D. J. Wilner, **M. A. MacGregor**, 2013, *ApJ*, 772, 149, 9pp
<http://adsabs.harvard.edu/abs/2013ApJ...772..149C>
1. “A Resolved Millimeter Emission Belt in the AU Mic Debris Disk,” D. J. Wilner, S. M. Andrews, **M. A. MacGregor**, A. M. Hughes, 2013, *ApJ*, 749, L27, 4pp
<http://adsabs.harvard.edu/abs/2012ApJ...749L..27W>

Unrefereed

7. “Advancing Understanding of Star-Planet Ecosystems in the Next Decade: The Radio Wavelength Perspective,” R. Osten, T. Bastian, G. Bower, J. Forbrich, M. Güdel, M. M. Kao, J. Lazio, J. Linsky, **M. MacGregor**, S. Moschou, S. J. Pineda, M. P. Rupen, J. Villadsen, S. White, P. K. G. Williams, S. J. Wolk, 2019, submitted to Astro2020 Decadal Survey, *BAAS*, 51, 434, 6pp
<http://adsabs.harvard.edu/abs/2019BAAS...51c.434O>
6. “Probing Unseen Planet Populations with Resolved Debris Disk Structures,” K. Su, N. Ballering, S. Ertel, A. Gaspar, G. Kennedy, D. Leisawitz, **M. MacGregor**, B. Matthews, A. Moro-Martin, G. Rieke, J. White, D. Wilner, M. Wyatt, 2019, submitted to Astro2020 Decadal Survey, *BAAS*, 51, 419, 6pp
<http://adsabs.harvard.edu/abs/2019BAAS...51c.419S>
5. “Modeling Debris Disk Evolution,” A. Gaspar, and 45 co-authors including **M. MacGregor**, 2019, submitted to Astro2020 Decadal Survey, *BAAS*, 51, 69, 6pp
<http://adsabs.harvard.edu/abs/2019BAAS...51c..69G>
4. “Science Impacts of the SPHEREx All-Sky Optical to Near-Infrared Spectral Survey II: Report of a Community Workshop on the Scientific Synergies Between the SPHEREx Survey and Other Astronomy Observatories,” O. Doré, and 62 co-authors including **M. MacGregor**, 2018, arXiv:1805.05489, 50pp
<http://adsabs.harvard.edu/abs/2018arXiv180505489D>
3. “Enabling New ALMA Science with Improved Support for Time-Domain Observations,” K. D. Alexander, E. Berger, G. Bower, S. Casewell, S. B. Cenko, S. Chatterjee, I. Cleeves, J. Cordes, J. Drake, M. Drout, T. Dupuy, T. Eftekhari, G. Fazio, W. Fong, J. Guillochon, M. Gurwell, M. Johnson, T. Kaminski, A. Kong, T. Laskar, C. Law, S. P. Littlefair, **M. MacGregor**, W. P. Maksym, L. Matthews, M. McCollough, S. Milam, A. Moullet, M. Nicholl, A. Rizzuto, B. Rothberg, A. Seymour, E. Villard, B. Wilkes, P. K. G. Williams, S. Willner, F. Yusuf-Zadeh, 2017, submitted to ALMA Science Advisory Council, 9pp
<http://adsabs.harvard.edu/abs/2017arXiv170304692A>
2. “A Resolved Millimeter Emission Belt in the AU Mic Debris Disk,” **M. A. MacGregor**, 2014, Exploring the Formation and Evolution of Planetary Systems, Proceedings of the International Astronomical Union, IAU Symposium, 299, 313, 5pp
<http://adsabs.harvard.edu/abs/2014IAUS..299..313M>
1. “Densitometry and Thermometry of Starburst Galaxies,” J. G. Mangum, J. Darling, K. M. Menten, C. Henkel, **M. MacGregor**, 2011, *EAS Publication Series*, 52, 71, 4pp
<http://adsabs.harvard.edu/abs/2011EAS....52...71M>