

Bibliography

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Refereed Publications

1. Roelofs, F., Janssen, M., Natarajan, I., et al., including **L. D. Matthews**, 2020, “SYMBA: An end-to-end VLBI synthetic data generation pipeline”, *Astronomy & Astrophysics*, in press (arXiv:2004.01161)
2. Evans, N. R., Pillitteri, I., Molnar, L., Szabados, L., Plachy, E., Szabo, R., Engle, S., Guinan, E., Wolk, S., Günther, H. M., Neilson, H., Marengo, M., **Matthews, L. D.**, Moschou, S., Drake, J. J., Kashyap, V., Kervella, P., Tordai, T., Somogyi, P., & Burki, G. 2020, “X-Ray Observations of the Peculiar Cepheid V473 Lyr Identify a Low-Mass Companion”, *Astronomical Journal*, 159, 121
3. Klement, R., Carciofi, A. C., Rivinius, T., Ignace, R., **Matthews, L. D.**, Tortensson, K., Gies, D., Viera, R. G., Richardson, N. D., Domiciano de Souza, A., Bjorkman, J. E., Hallinan, G., Faes, D. M., Mota, B., Gullingsrud, A. D., De Breuck, C., Kervella, P., Arcos, C., Curé, M., & Gunawan, D. 2019, “Prevalence of SED Turndown among Classical Be stars: Are All Be Stars Close Binaries?”, *Astrophysical Journal*, 885, 147
4. Liu, K. et al., including **L. D. Matthews**, 2019, “Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA”, *Astrophysical Journal Letters*, 885, L10
5. Porth, O., et al., including **L. D. Matthews**, 2019, “The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project”, *Astrophysical Journal Supplement*, 243, 26
6. Goddi, C., Martí-Vidal, I., Messias, H., Crew, G. B., Herrero-Illana, R., Impellizzeri, V., Rottmann, H., Wagner, J., Fomalont, E., **Matthews, L. D.**, Petry, D., Phillips, N., Tilanus, R., Villard, E., Blackburn, L., Janssen, M., & Wielgus, M. 2019, “Calibration of ALMA as a Phased Array”, *Publications of the Astronomical Society of the Pacific*, 131, 5003
7. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole”, *Astrophysical Journal Letters*, L6
8. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring”, *Astrophysical Journal Letters*, L5
9. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole”, *Astrophysical Journal Letters*, L4
10. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. III. Data Processing and Calibration”, *Astrophysical Journal Letters*, L3

11. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. II. Array and Instrumentation”, *Astrophysical Journal Letters*, L2
12. Event Horizon Telescope Collaboration, including **L. D. Matthews**, 2019, “First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole”, *Astrophysical Journal Letters*, L1
13. Issaoun, S., et al., including **L. D. Matthews**, 2019, “The Size, Shape, and Scattering of Sagittarius A* at 86 GHz: First VLBI with ALMA”, *Astrophysical Journal*, 871, 30
14. **Matthews, L. D.** 2019, “Radio Stars: from kHz to THz”, *Publications of the Astronomical Society of the Pacific*, 131, 6001
15. **Matthews, L. D.** & Claussen, M. J. 2018, “Evolved Stars”, in *Science with a Next-Generation VLA*, edited by E. J. Murphy (San Francisco: ASP), 517, 281
16. **Matthews, L. D.**, Reid, M. J., Menten, K. M., & Akiyama, K. 2018, “The Evolving Radio Photospheres of Long-Period Variable Stars”, *Astronomical Journal*, 156, 15
17. **Matthews, L. D.**, Crew, G. B., Doeleman, S. S., et al. 2018, “The ALMA Phasing System: A Beamforming Capability for Ultra-High-Resolution Science at (Sub) Millimeter Wavelengths”, *Publications of the Astronomical Society of the Pacific*, 130, 5002
18. Issaoun, S., Goddi, C., **Matthews, L. D.**, Greenhill, L. J., Gray, M. D., Humphreys, E. M. L., Chandler, C. J., Krumholz, M., & Falcke, H. 2017, “VLBA imaging of the 3mm SiO maser emission in the disk-wind from the massive protostellar system Orion Source I”, *Astronomy & Astrophysics*, 606, A126
19. Hoai, D. T., Nhung, P. T., **Matthews, L. D.**, Gérard, E., & Le Bertre, T. 2017, “H I emission from the red giant Y CVn with the VLA and FAST”, *Research in Astronomy and Astrophysics*, 17, 067
20. Klement, R., Carciofi, A. C., Rivinius, T., **Matthews, L. D.**, Vieira, R. G., Ignace, R., Bjorkman, J. E., Mota, B. C., Faes, D. M., Bratcher, A. D., Curé, M., & Štefl, S. 2017, “Revealing the structure of the outer disks of Be stars”, *Astronomy & Astrophysics*, 601, 74
21. **Matthews, L. D.**, Marengo, M., & Evans, N. R. 2016, “A Search for Mass Loss on the Cepheid Instability Strip using H I 21-cm Line Observations”, *Astronomical Journal*, 152, 200
22. **Matthews, L. D.**, Reid, M. J., & Menten, K. M. 2015, “New Measurements of the Radio Photosphere of Mira based on Data from the JVLA and ALMA”, *Astrophysical Journal*, 808, 36
23. Hoai, D. T., Nhung, P. T., Gérard, E., **Matthews, L. D.**, Villaver, E., & Le Bertre, T. 2015, “Modelling the H I 21-cm line profile from circumstellar shells around red giants”, *Monthly Notices of the Royal Astronomical Society*, 449, 2386

24. **Matthews, L. D.**, Gérard, E., & Le Bertre, T. 2015, “Discovery of a Shell of Neutral Atomic Hydrogen Surrounding the Carbon Star IRC+10216”, *Monthly Notices of the Royal Astronomical Society*, 449, 220
25. Hoai, D. T., **Matthews, L. D.**, Winters, J. M., Nhung, P. T., Gérard, E., Libert, Y., & Le Bertre, T. 2014, “The Multi-Scale Environment of RS Cnc from CO and HI Observations”, *Astronomy & Astrophysics*, 565, 54
26. Greenhill, L. J., Goddi, C., Chandler, C. J., **Matthews, L. D.**, & Humphreys, E. M. L. 2013, “Dynamical Evidence for a Magnetocentrifugal Wind from a $20M_{\odot}$ Binary Young Stellar Object”, *Astrophysical Journal Letters*, 770, L32
27. **Matthews, L. D.** 2013, “Radio Stars and Their Lives in the Galaxy”, *Publications of the Astronomical Society of the Pacific*, 125, 313
28. **Matthews, L. D.**, Le Bertre, T., Gérard, E., & Johnson, M. C. 2013, “An HI Imaging Survey of Asymptotic Giant Branch Stars”, *Astronomical Journal*, 145, 97
29. Bowman, J. D. *et al.*, including **L. D. Matthews**, 2012, “Science with the Murchison Widefield Array”, *Publications of the Astronomical Society of Australia*, 30, 31
30. Le Bertre, T., **Matthews, L. D.**, Gérard, E., & Libert, Y. 2012, “Discovery of a Detached HI Gas Shell Surrounding α Orionis”, *Monthly Notices of the Royal Astronomical Society*, 422, 3433
31. **Matthews, L. D.**, Marengo, M., Evans, N. R., & Bono, G. 2012, “New Evidence for Mass-Loss from δ Cephei from HI 21-cm Line Observations”, *Astrophysical Journal*, 744, 53
32. MacLachlan, J. M., **Matthews, L. D.**, Wood, K., & Gallagher, J. S. 2011, “The Stability of Low Surface Brightness Disks Based on Multiwavelength Modeling”, *Astrophysical Journal*, 741, 6
33. Goddi, C., Greenhill, L. J., Humphreys, E. M. L., Chandler, C. J., & **Matthews, L. D.** 2011, “Unveiling Sources of Heating in the Vicinity of the Orion BN/KL Hot Core as Traced by Highly Excited Inversion Transitions of Ammonia”, *Astrophysical Journal Letters*, 739, L13
34. Oberoi, D., **Matthews, L. D.**, Cairns, I. H. *et al.* 2011, “First Spectroscopic Imaging Observations of the Sun at Low Radio Frequencies with the Murchison Widefield Array Prototype”, *Astrophysical Journal Letters*, 728, L27
35. **Matthews, L. D.**, Libert, Y., Gérard, E., Le Bertre, T., Johnson, M. C., & Dame, T. M. 2011, “HI Observations of the Asymptotic Giant Branch Star X Herculis: Discovery of an Extended Circumstellar Wake Superposed on a Compact High-Velocity Cloud”, *Astronomical Journal*, 141, 60
36. Goddi, C., Humphreys, E. M. L., Greenhill, L. J., Chandler, C. J., & **Matthews, L. D.** 2011, “A Multi-Epoch Study of the Radio Continuum Emission of Orion Source I: Constraints on the Disk Evolution of a Massive YSO and the Dynamical History of Orion BN/KL”, *Astrophysical Journal*, 728, 15

37. Marengo, M., Evans, N. R., Barmby, P., **Matthews, L. D.**, Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y. L., & Fazio, G. G. 2010, “An Infrared Nebula Associated with δ Cephei: Evidence of Mass Loss?”, *Astrophysical Journal*, 725, 2392
38. Libert, Y., Winters, J. M., Le Bertre, T., Gérard, E., & **Matthews, L. D.** 2010, “HI and CO in the Circumstellar Environment of the S-Type Star RS Cnc”, *Astronomy & Astrophysics*, 515, 112
39. Libert, Y., Gérard, E., Thum, C., Winters, J. M., **Matthews, L. D.**, & Le Bertre, T. 2010, “Circumstellar HI and CO around the Carbon Stars V1942 Sgr and V CrB”, *Astronomy & Astrophysics*, 510, 14
40. **Matthews, L. D.**, Greenhill, L. J., Goddi, C., Chandler, C. J., & Humphreys, E. M. L. 2010, “A Feature Movie of SiO Emission 20-100 AU from the Massive Young Stellar Object Orion Source I”, *Astrophysical Journal*, 708, 80
41. Banerjee, A., **Matthews, L. D.**, & Jog, C. J. 2009, “Dark Matter Dominance at all Radii in the Superthin Galaxy UGC 7321”, *New Astronomy*, 15, 89
42. Libert, Y., Gérard, E., Le Bertre, T., **Matthews, L.**, Thum, C., & Winters, J. M. 2009, “CO and HI Observations of an Enigmatic Interstellar Cloud”, *Astronomy & Astrophysics*, 500, 1131
43. Goddi, C., Greenhill, L. J., Chandler, C. J., Humphreys, E. M. L., **Matthews, L. D.**, & Gray, M. D. 2009, “Maser Emission from SiO Isotopologues Traces the Innermost 100 AU around Radio Source I in Orion BN/KL”, *Astrophysical Journal*, 698, 1165
44. Goddi, C., Greenhill, L. J., Humphreys, E. M. L., **Matthews, L. D.**, Tan, J. C., & Chandler, C. J. 2009, “A 42.3-43.6 GHz Spectral Survey of Orion BN/KL: First Detection of the $v=0$, $J = 1 - 0$ Line from the Isotopologues ^{29}SiO and ^{30}SiO ”, *Astrophysical Journal*, 691, 1254
45. **Matthews, L. D.** & Uson, J. M. 2008, “Corrugations in the Disk of the Edge-On Spiral Galaxy IC 22233”, *Astrophysical Journal*, 688, 237
46. **Matthews, L. D.**, Libert, Y., Gérard, E., Le Bertre, T., & Reid, M. J. 2008, “Discovery of an HI Counterpart to the Extended Tail of Mira”, *Astrophysical Journal*, 684, 603
47. **Matthews, L. D.** & Uson, J. M. 2008, “HI Imaging of Superthin Galaxies. II. IC 2233 and the Blue Compact Dwarf NGC 2537”, *Astronomical Journal*, 135, 291
48. Godínez-Martínez, A., Watson, A. M., **Matthews, L. D.**, and Sparke, L. S. 2007, “Photometry of Polar Ring Galaxies”, *Revista Mexicana de Astronomía y Astrofísica*, 43, 315
49. **Matthews, L. D.** & Reid, M. J. 2007, “Very Large Array Observations of HI in the Circumstellar Envelopes of Asymptotic Giant Branch Stars”, *Astronomical Journal*, 133, 2291

50. **Matthews, L. D.** & Karovska, M. 2006, “First Resolved Images of the Mira AB Symbiotic Binary at Centimeter Wavelengths”, *Astrophysical Journal Letters*, 637, L49
51. **Matthews, L. D.**, Gao, Y., Uson, J. M., & Combes, F. 2005, “Detections of CO in Late-Type, Low Surface Brightness Spiral Galaxies”, *Astronomical Journal*, 129, 1849
52. **Matthews, L. D.** & de Grijs, R., 2004, “Optical Imaging and Spectroscopy of the Edge-On Sbc Galaxy UGC 10043: Evidence for a Galactic Wind and a Peculiar Triaxial Bulge”, *Astronomical Journal*, 128, 137
53. **Matthews, L. D.** & Wood, K. 2003, “High-Latitude HI in the Low Surface Brightness Galaxy UGC 7321”, *Astrophysical Journal*, 593, 721
54. Uson, J. M. & **Matthews, L. D.** 2003, “HI Imaging of Superthin Galaxies. I. UGC 7321”, *Astronomical Journal*, 125, 2455
55. Eskridge, P. B., Taylor, V. A., Windhorst, R. A., Odewahn, S. C., Chiarenza, C. A. T., Conselice, C. J., de Grijs, R., Frogel, J. A., **Matthews, L. D.**, O’Connell, R. W., & Gallagher, J. S. III. 2003, “UV-Optical Pixel Maps of Face-On Spiral Galaxies—Clues for Dynamics and Star Formation Histories”, *Astrophysical Journal*, 586, 923
56. Windhorst, R. A., Taylor, V. A., Jansen, R. A., Odewahn, S. C., Chiarenza, C. A., Conselice, C. J., de Grijs, R., de Jong, R. S., MacKenty, J. W., Eskridge, P. B., Frogel, J. A., Gallagher III, J. S., Hibbard, J. E., **Matthews, L. D.**, & O’Connell, R. W. 2002, “An *HST* Survey of the Mid-UV Morphology of Nearby Galaxies”, *Astrophysical Journal Supplements*, 143, 113
57. **Matthews, L. D.** & Gallagher, J. S. III. 2002, “High-Resolution Optical Rotational Curves of Low-Luminosity Spiral Galaxies”, *Astrophysical Journal Supplements*, 141, 429
58. Gallagher, J. S., Sparke, L. S., **Matthews, L. D.**, Frattare, L. M., English, J., Kinney, A. L., Iodice, E., & Arnaboldi, M. 2002, “Wide Field and Planetary Camera 2 Observations of the ‘Polar Ring’ Galaxy NGC 4650A”, *Astrophysical Journal*, 568, 199
59. **Matthews, L. D.** & Gao, Y. 2001, “CO Detections of Edge-On Low Surface Brightness Galaxies”, *Astrophysical Journal Letters*, 549, L191
60. **Matthews, L. D.** & Wood, K. 2001, “Modelling the Interstellar Medium of Low Surface Brightness Galaxies: Constraining the Internal Extinction, Disk Color Gradients and Intrinsic Rotation Curve Shapes”, *Astrophysical Journal*, 548, 150
61. **Matthews, L. D.**, van Driel, W., & Monnier-Ragaine, D. 2001, “HI Observations of Giant Low Surface Brightness Galaxies”, *Astronomy & Astrophysics*, 365, 1
62. Pagano, I., Rodonò, M., Linsky, J. L., Neff, J. E., Walter, F. M., Kóvári, Z., & **Matthews, L. D.** 2001, “Spectral Imaging Maps of AR Lacertae. I. Results from IUE Observations in 1994 October”, *Astronomy & Astrophysics*, 365, 128

63. **Matthews, L. D.** 2000, “The Extraordinary ‘Superthin’ Spiral Galaxy UGC 7321. II. The Vertical Structure”, *Astronomical Journal*, 120, 1764
64. **Matthews, L. D.** & van Driel W. 2000, “An H I Survey of Highly Flattened, Pure Disk Galaxies”, *Astronomy and Astrophysics Supplements*, 143, 421
65. **Matthews, L. D.**, Gallagher, J. S., & van Driel, W. 1999, “The Extraordinary ‘Superthin’ Spiral Galaxy UGC 7321. I. Disk Color Gradients and Global Properties from Multiwavelength Observations”, *Astronomical Journal*, 118, 2751
66. **Matthews, L. D. et al.** 1999, “WFPC2 Observations of Compact Star Cluster Nuclei in Low-Luminosity Spiral Galaxies”, *Astronomical Journal*, 118, 208
67. **Matthews, L. D.**, van Driel, W., Gallagher, J. S. 1998, “An Exploration of the Tully-Fisher Relation for Extreme Late-Type Spiral Galaxies”, *Astronomical Journal*, 116, 2196
68. **Matthews, L. D.**, van Driel, W., Gallagher, J. S. 1998, “High Resolution, High Signal-to Noise Global H I Observations of Extreme Late-Type Spiral Galaxies”, *Astronomical Journal*, 116, 1169
69. **Matthews, L. D.** & Gallagher, J. S. III. 1997, “*B* and *V* CCD Photometry of Southern, Extreme Late-Type Spiral Galaxies”, *Astronomical Journal*, 114, 1899
70. Walter, F. M. & **Matthews, L. D.** 1997, “The Optical Counterpart of the Isolated Neutron Star RX J185635-3754”, *Nature*, 389, 358
71. Gallagher, J. S. *et al.*, including **L. D. Matthews**, 1996, “Main-Sequence Stars and the Star Formation History of the Outer Disk in the Large Magellanic Cloud”, *Astrophysical Journal*, 466, 732
72. **Matthews, L. D.** & Gallagher, J. S. III. 1996, “H I Observations of Southern, Extreme Late-Type Galaxies. III. Objects between 8^h and 17^h ”, *Astronomical Journal*, 111, 1098
73. **Matthews, L. D.**, Gallagher, J. S. III, & Littleton, J. E. 1995, “H I Observations of Southern, Extreme Late-Type Galaxies. II. Small Angular Size Galaxies and Galaxies Near the Galactic Plane”, *Astronomical Journal*, 110, 581
74. Walter, F. M., **Matthews, L. D.**, & Linsky, J. L. 1995, “GHRS and IUE Observations of C II Emission in Altair (α Aql)”, *Astrophysical Journal*, 447, 353
75. Holtzman, J. *et al.*, including **L. D. Matthews**, 1995, “The Performance and Calibration of WFPC2 on the Hubble Space Telescope”, *Publications of the Astronomical Society of the Pacific*, 107, 156
76. Gallagher, J. S. III, Littleton, J. E., & **Matthews, L. D.** 1995, “H I Observations of Southern, Extreme Late-Type Galaxies. I. An Optically Faint Sample”, *Astronomical Journal*, 109, 200

Didactic Articles

1. **Matthews, L. D.** & Reid, M. J. “The Extended Circumstellar Envelope of RS Cnc Imaged in H I with the VLA”, *NRAO Newsletter*, No. 111, 2

2. **Matthews, L.** 2002 “VLA Observations of the ‘Integral Sign’ Galaxy”, NRAO Newsletter, No. 93, 17
3. Gallagher, J. S., Sparke, L. S., & **Matthews, L. D.** 2001, “Disk Galaxies”, in *The Encyclopedia of Astronomy and Astrophysics*, edited by P. Murdin, (Institute of Physics Publishing, New York), 610

Conference Proceedings and White Papers

1. Akiyama, K. & **Matthews, L. D.** 2019, “Exploring Regularized Maximum Likelihood Reconstruction for Stellar Imaging with the ngVLA”, Next Generation Very Large Array Memo Series, No. 66 (arXiv:1910.00013)
2. Blackburn, L. et al., including **L. D. Matthews**, 2019, “Studying Black Holes on Horizon Scales with VLBI Ground Arrays”, an Astro2020 APC White Paper (arXiv:1909.01411)
3. **Matthews, L. D.**, Claussen, M. J., Harper, G. M., Menten, K. M., & Ridgway, S. 2019, “Unlocking the Secrets of Late-Stage Stellar Evolution and Mass Loss through Radio Wavelength Imaging”, an Astro2020 Decadal Survey Science White Paper, Bulletin of the American Astronomical Society, 51, 424
4. **Matthews, L. D.**, Claussen, M. J., & Harper, G. M. 2019, “Molecular Masers as Probes of the Dynamic Atmospheres of Dying Stars”, an Astro2020 Decadal Survey Science White Paper, Bulletin of the American Astronomical Society, 51, 392
5. Ridgway, S. et al., including **L. D. Matthews**, 2019, “Precision Analysis of Evolved Stars”, an Astro2020 Decadal Survey Science White Paper, Bulletin of the American Astronomical Society, 51, 332
6. Forbrich, J. et al., including **L. Matthews**, 2018, “Meter- to Millimeter Emission from Cool Stellar Systems: Latest Results, Synergies Across the Spectrum, and Outlook for the Next Decade”, in *Proceedings of the 20th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, edited by S. J. Wolk (arXiv:1811.03616)
7. Evans, N. R., Engle, S., Guinan, E., Neilson, H., Marengo, M., **Matthews, L.**, & Guenther, M. 2018, “Outward from Cepheids”, in *The Revival of the Classical Pulsators: from Galactic Structure to Stellar Interior Diagnostics*, edited by R. Smolec, K. Kinemuchi, and R.I. Anderson, Proceedings of the Polish Astronomical Society, 6 253
8. Evans, N. R., Engle, S., Guinan, E., Neilson, H., Marengo, M., **Matthews, L.**, & Guenther, M. 2017, “Between Cepheids and the Cosmos”, in *Wide-Field Variability Surveys: A 21st Century Perspective*, EPJ Web of Conferences, 152, 03009
9. Klement, R., Carciofi, A. C., Rivinius, T., **Matthews, L. D.**, Ignace, R., Bjorkman, J. E., Vieira, R. G., Mota, B. C., Faes, D. M., & Štefl, S. 2017, “The outer disk of the classical Be star ψ Per”, in *The Lives and Death-Throes of Massive Stars*, proceedings of IAU Symposium No. 329, edited by J. J. Eldridge, J. C. Bray, L. A. S. McClelland, and L. Xiao, (Cambridge: Cambridge University Press), 414

10. Alexander, K. D., Berger, E., Bower, G., et al., including **L. Matthews**, 2017, “Enabling New ALMA Science with Improved Support for Time-Domain Observations”, white paper (arXiv:1703.04692)
11. Diep, P. N., Hoai, D. T., Nhung, P., Tuan-Anh, P., Le Bertre, T., Winters, J. M., **Matthews, L. D.**, Phuong, N. T., Thao, N. T., & Darriulat, P. 2016, “CO and H I Emission from the Circumstellar Envelopes of Some Evolved Stars”, in *Frontiers in Radio Astronomy and FAST Early Sciences Symposium 2015*, edited by L. Qain and D. Li, (San Francisco: ASP), 502, 61
12. **Matthews, L. D.**, Reid, M. J., & Menten, K. M. 2015, “Imaging Radio Photospheres with the Jansky Very Large Array”, in *Why Galaxies Care about AGB Stars III*, edited by F. Kerschbaum, J. Hron, and R. Wing, (San Francisco: ASP), 497, 131
13. **Matthews, L. D.**, Gérard, E., & Le Bertre, T. 2015, “Atomic Hydrogen in the Circumstellar Envelope of IRC+10216”, in *Why Galaxies Care about AGB Stars III*, edited by F. Kerschbaum, J. Hron, and R. Wing, (San Francisco: ASP), 497, 129
14. Oberoi, D. et al., including **L. D. Matthews** 2014, “Observing the Sun with the Murchison Widefield Array”, presented at the URSI General Assembly and Scientific Symposium (arXiv:1403.6250)
15. Mora, M., Crew, G., Rottmann, H., & **Matthews, L.** 2014, “Phasing Up ALMA”, in *Software and Cyberinfrastructure for Astronomy III*, Proceedings of SPIE, 9152, edited by G. Chiozzi and N. R. Radziwill, 915219
16. Fish, V. L. et al., including **L. D. Matthews**, 2014, “High-Angular-Resolution and High-Sensitivity Science Enabled by a Beamformed ALMA”, white paper (arXiv:1309.3519)
17. Le Bertre, T., Gérard, E., & **Matthews, L. D.** 2013, “The Kinematics in the Large-Scale Environment of Betelgeuse from Radio H I-Line Observations”, in *The Physics of Red Supergiants: Recent Advances and Open Questions*, edited by P. Kervella, T. Le Bertre, & G. Perrin, European Astronomical Society Publication Series, 60, 219
18. Marengo, M., Evans, N. R., **Matthews, L. D.**, Bono, G., Barnby, P., Welch, D. L., Romaniello, M., Su, K. Y. L., Fazio, G. G., & Huelsman, D. 2013, “Evidence for Pulsation-Driven Mass Loss from δ Cephei”, in *Impact of New Instrumentation & Insights in Stellar Pulsations*, edited by L. A. Balona *et al.*, Astrophysics & Space Science Proceedings, 31, 99
19. Le Bertre, T., **Matthews, L. D.**, & Gérard, E. 2012, “The large-scale environment of Betelgeuse from radio observations”, in Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics, edited by S. Boissier, P. de Laverny, N. Nardetto, R. Samadi, D. Valls-Gabaud and H. Wozniak, 549
20. MacLachlan, J., **Matthews, L.**, Wood, K., & Gallagher, J. 2012, “The dust distribution in late-type low surface brightness disks”, in *The Spectral Energy Distribution of Galaxies*, IAU Symposium 284, 101
21. Greenhill, L. J., Goddi, C., Chandler, C. J., Humphreys, E. M. L., & **Matthews, L. D.** 2012, “Dynamical Detection of a Magnetocentrifugal Wind Driven by a $20M_{\odot}$ YSO”, in *Cosmic Masers – from OH to H₀*, Proceedings of IAU Symposium 287, edited by E. Humphreys and W. Vlemmings, 166

22. **Matthews, L. D.**, Gérard, E., Johnson, M. C., Le Bertre, T., Libert, Y., & Reid, M. J. 2011, “Tails of Stellar Mass-Loss: VLA Imaging of H I in Circumstellar Envelopes”, in *Why Galaxies Care about AGB Stars II: Shining Examples and Common Inhabitants*, ASP Conf. Series, edited by F. Kerschbaum, T. Lebzelter, and R. Wing, (San Francisco: ASP), 445, 305
23. Libert, Y., Le Bertre, T., Gérard, E., Winters, J. M., & **Matthews, L. D.** 2011, “Probing Circumstellar Environments with Combined H I and CO Observations”, in *Why Galaxies Care about AGB Stars II: Shining Examples and Common Inhabitants*, ASP Conf. Series, edited by F. Kerschbaum, T. Lebzelter, and R. Wing, (San Francisco: ASP), 445, 275
24. Banerjee, A., Jog, C. J., & **Matthews, L. D.** 2009, “Dark Matter Halo Properties as Deduced from the Observed H I Scale Height Data”, in *The Low-Frequency Radio Universe*, ASP Conf. Series, edited by D. J. Saikia et al., (San Francisco: ASP), 407, 99
25. Aguirre, P., Uson, J. M., & **Matthews, L. D.** 2009, “Discovery of a Small Group that Drives the Evolution of the Edge-On Spiral Galaxy UGC 10043”, *Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias)*, 35, 201
26. **Matthews, L. D.**, Goddi, C., Greenhill, L. J., Chandler, C. J., Reid, M. J., & Humphreys, E. M. L. 2007, “A Documentary of High-Mass Star Formation: Probing Dynamical Evolution of Orion Source I on 10-100 AU Scales using SiO Masers”, in *Astrophysical Masers and their Environments*, IAU Symp. 242, edited by J. Chapman and W. Baan, (Cambridge: Cambridge University Press), 130
27. **Matthews, L. D.** & Reid, M. J. 2007, “VLA Observations of H I in the Circumstellar Envelopes of AGB Stars”, in *Why Galaxies Care about AGB Stars*, ASP Conf. Series, edited by F. Kerschbaum, C. Charbonnel, & R. F. Wing, (San Francisco: ASP), 378, 319
28. **Matthews, L. D.** 2007, “The Molecular ISM of Low Surface Brightness Spiral Galaxies”, in *Island Universes - Structure and Evolution of Disk Galaxies*, edited by R. S. de Jong, (Dordrecht: Springer), 347
29. **Matthews, L. D.** 2005, “Extraplanar Gas in Low Surface Brightness Galaxies”, in *Extra-Planar Gas in Galaxies*, ASP Conf. Series, edited by R. Braun, (San Francisco: ASP), 331, 253
30. Pohlen, M., Balcells, M., & **Matthews, L. D.**, “Is There a Large Stellar Bar in the LSB Galaxy UGC 7321?”, in *Penetrating Bars through Masks of Cosmic Dust: the Hubble Tuning Fork Strikes a New Note*, Astrophysics and Space Science Library, edited by D. L. Block et al., (Dordrecht: Kluwer), 319, 791
31. **Matthews, L. D.** & Uson, J. M. 2004, “Clues on the Structure and Composition of Galactic Disks from Studies of ‘Superthin’ Spirals: the Case of UGC3697”, in *Baryons in Dark Matter Halos*, SISSA Proceedings of Science, edited by R.-J. Dettmar, U. Klein, & P. Salucci, 70.1
32. **Matthews, L. D.** & Uson, J. M. 2004, “Gas Infall onto the Superthin IC 2233”, in *How Does the Galaxy Work? A Galactic Tertulia with Don Cox & Ron Reynolds*, edited by E. Alfaro, E. Pérez, & J. Franco, (Dordrecht: Kluwer), 150

33. Gallimore, J. F. & **Matthews, L. D.** 2003, “NICMOS Observations of the Nuclear Star Cluster of NGC 1068”, in *Active Galactic Nuclei: from Central Engine to Host Galaxy*, ASP Conf. Series, edited by S. Collin, F. Combes, & I. Shlosman, (San Francisco: ASP), 290, 501
34. Gallagher, J. S. & **Matthews, L. D.** 2002, “Star Formation Modes in Low-Mass Disk Galaxies” (Invited Review), in *Modes of Star Formation and the Origin of Field Star Populations*, ASP Conf. Series, edited by E. K. Grebel & W. Brandner, (San Francisco: ASP), 285, 303
35. **Matthews, L. D.** & Uson, J. M. 2002, “VLA HI Observations of Two ‘Superthin’ Edge-On Spirals”, in *Seeing Through the Dust: The Detection of HI and the Exploration of the ISM in Galaxies*, ASP Conf. Series, edited by A. R. Taylor, T. L. Landecker, & A. G. Willis, (San Francisco: ASP), 276, 414
36. **Matthews, L. D.**, Wood, K., & Gao, Y. 2000, “The ISM of Low Surface Brightness Galaxies”, in *Gas and Galaxy Evolution*, ASP Conf. Series, edited by J. E. Hibbard, M. Rupen, & J. H. van Gorkom, (San Francisco: ASP), 240, 263
37. **Matthews, L. D.**, Wood, K., & Gao, Y. 2001, “Dust and Molecular Gas in LSB Galaxies”, in *Galaxy Disks and Disk Galaxies*, ASP Conf. Series, edited by J. G. Funes S. J. & E. M. Corsini, (San Francisco: ASP), 230, 381
38. Gallagher, J. S., Conselice, C. J., Holmeier, N. L., & **Matthews, L. D.** 2001, “Starbursts and the Evolution of Gas-Rich Galaxies”, in *Galaxy Disks and Disk Galaxies*, ASP Conf. Series, edited by J. G. Funes S. J. & E. M. Corsini, (San Francisco: ASP), 230, 503
39. **Matthews, L. D.**, van Driel, W., & Gallagher, J. S. 2000, “Properties of ‘Superthin’ Galaxies”, in *Building Galaxies: from the Primordial Universe to the Present, XIXth Moriond Astrophysics Conference*, edited by F. Hammer, T. Xuân Thuân, V. Cayatte, B. Guiderdoni, and J. Trân Tranh Vân, (Singapore: World Scientific), 107
40. **Matthews, L. D.**, Gallagher, J. S., & van Driel, W. 2000, “Constraints on Galaxy Structure and Dynamical Evolution from Pure Disk Galaxies”, in *Galaxy Dynamics: From the Early Universe to the Present*, ASP Conf. Series, edited by F. Combes, G. A. Mamon, & V. Charmandaris, (San Francisco: ASP), 197, 185
41. **Matthews, L. D.**, Gallagher, J. S., & van Driel, W. 1999, “The Structure of the Superthin Spiral Galaxy UGC 7321”, in *Galaxy Dynamics*, ASP Conf. Series, edited by D. R. Merritt, M. Valluri, and J. A. Sellwood, (San Francisco: ASP), 182, 223
42. **Matthews, L. D.**, Gallagher, J. S., van Driel, W. 1999, “The Structure of the Superthin Spiral Galaxy UGC 7321”, in *The Low Surface Brightness Universe*, IAU Colloquium 171, ASP Conference Series, edited by J. I. Davies, C. Impey, & S. Phillipps, (San Francisco: ASP), 170, 207
43. Walter, F. M., **Matthews, L. D.**, An, P., Lattimer, J. & Neuhäuser, R. 1997, “The Spectral Energy Distribution of the Isolated Neutron Star RX J186535-3754”, in *Proceedings of the 18th Texas Symposium on High Energy Astrophysics*, edited by A. Olinto, J. Frieman, & D. Schramm, (Singapore: World Scientific Press), 640

44. **Matthews, L. D.**, Gallagher, J. S. III, & van Driel, W. 1997, “Exploration of the Tully-Fisher Relation for Low Surface Brightness Galaxies at the End of the Spiral Sequence”, in *Dark and Visible Matter in Galaxies*, ASP Conference Series, edited by M. Persic & P. Salucci, (San Francisco: ASP), 117, 98
45. **Matthews, L. D.** & Mathieu, R. D. 1993, “A Study of Orbital Circularization in A-Type Binary Stars”, in *Massive Stars: Their Lives in the Interstellar Medium*, ASP Conference Series, edited by J. P. Cassinelli & E. B. Churchwell, (San Francisco: ASP), 35, 223
46. **Matthews, L. D.**, Gallagher, J. S. III, & Littleton, J. E. 1993, “Constraints on Starburst Models for Dwarf Galaxies Using HI Observations in the LSC”, in *Massive Stars: Their Lives in the Interstellar Medium*, ASP Conf. Series, edited by J. P. Cassinelli & E. B. Churchwell, (San Francisco: ASP), 35, 501
47. **Matthews, L. D.** & Mathieu, R. D. 1992, “Orbital Circularization in Binaries with A-Type Primary Stars”, in *Complementary Approaches to Double and Multiple Star Research*, IAU Colloquium 135, ASP Conf. Series, edited by W. I. Hartkopf & H. A. McAlister, (San Francisco: ASP), 32, 244