

Bibliography

Jeremiah K. Darling

Links to papers available at
<http://casa.colorado.edu/~jdarling/pubs.html>

REFEREED PUBLICATIONS

- Mid-Infrared Properties of OH Megamaser Host Galaxies. I. Spitzer IRS Low- and High-Resolution Spectroscopy.** K. W. Willett, *J. Darling*, H. W. W. Spoon, V. Charmandaris, & L. Armus. 2011, *ApJS*, in press, 22 pages
- Mid-Infrared Properties of OH Megamaser Host Galaxies. II. Analysis and Modeling of the Maser Environment.** K. W. Willett, *J. Darling*, H. W. W. Spoon, V. Charmandaris, & L. Armus. 2011, *ApJ*, in press, 14 pages
- Water Masers Associated with Star Formation in the Antennae Galaxies.** C. Brogan, K. Johnson, & *J. Darling*. 2010, *ApJ*, 716, L51-L56
- Spitzer Mid-IR Spectroscopy of Compact Symmetric Objects: Are Radio Galaxies Powered by Black Hole Spin?** K. W. Willett, J. T. Stocke, *J. Darling*, & E. S. Perlman. 2010, *ApJ*, 713, 1393-1412
- Formaldehyde Anti-Inversion at $z = 0.68$ in the Gravitational Lens B0218+357.** B. Zeiger & *J. Darling*. 2010, *ApJ*, 709, 386-395
- New Searches for HI 21 cm in Damped Lyman α Absorption Systems.** S. J. Curran, P. Tzanavaris, *J. Darling*, M. T. Whiting, J. K. Webb, C. Bignell, R. Athreya, & M. T. Murphy. 2009, *MNRAS*, 402, 35-45
- Science with ASKAP, The Australian Square-Kilometre-Array Pathfinder.** S. Johnston, R. Taylor, M. Bailes, N. Bartel, C. Baugh, M. Bietenholz, C. Blake, R. Braun, J. Brown, S. Chatterjee, *J. Darling*, (+39 coauthors). 2008, *Experimental Astronomy*, 22, 151-273
- Ubiquitous Water Masers in Nearby Star-Forming Galaxies.** *J. Darling*, C. Brogan, & K. Johnson. 2008, *ApJ*, 685, L39-L42
- Properties of Active Galaxies Deduced from HI Observations.** L. C. Ho, *J. Darling*, & J. E. Greene. 2008, *ApJ*, 681, 128-140
- A New HI Survey of Active Galaxies.** L. C. Ho, *J. Darling*, & J. E. Greene. 2008, *ApJS*, 177, 103-130
- Formaldehyde Densitometry of Starburst Galaxies.** J. G. Mangum, *J. Darling*, K. M. Menten, & C. Henkel. 2008, *ApJ*, 673, 832-846
- Science with the Australian Square Kilometre Array Pathfinder.** S. Johnston, M. Bailes, N. Bartel, C. Baugh, M. Bietenholz, C. Blake, R. Braun, J. Brown, S. Chatterjee, *J. Darling*, (+40 coauthors). 2007, *PASA*, 24, 174-188
- HI and OH Absorption in the Lensing Galaxy of MG J0414+0534.** S. J. Curran, *J. Darling*, A. D. Bolatto, M. T. Whiting, C. Bignell, & J. K. Webb. 2007, *MNRAS*, 382, L11-L15
- A Dense Gas Trigger for OH Megamasers.** *J. Darling*. 2007, *ApJ*, 669, L9-L12
- Optical Spectral Classification of Major Mergers: OH Megamaser Hosts Versus Non-Masing (Ultra)Luminous Infrared Galaxies.** *J. Darling* & R. Giovanelli. 2006, *AJ*, 132, 2596-2617

- The Arecibo Legacy Fast ALFA Survey. I. Science Goals, Survey Design, and Strategy.** R. Giovanelli, et al. 2005, AJ, 130, 2598–2612
- On the X-Ray Properties of OH Megamaser Sources: Chandra Snapshot Observations.** C. Vignali, W. N. Brandt, A. Comastri, & *J. Darling*. 2005, MNRAS, 364, 99–106
- High Resolution Imaging of the OH Megamaser Emission in IRAS 12032+1707 and IRAS 14070+0525.** Y. M. Pihlström, W. A. Baan, *J. Darling*, & H.-R. Klöckner. 2005, ApJ, 618, 705–711
- Detection of 21 cm HI Absorption at $z = 0.78$ in a Survey of Radio Continuum Sources.** *J. Darling*, R. Giovanelli, M. P. Haynes, A. D. Bolatto, & G. C. Bower. 2004, ApJ, 613, L101–L104
- A Laboratory for Constraining Cosmic Evolution of the Fine Structure Constant: Conjugate 18 cm OH Lines Toward PKS 1413+135 at $z = 0.2467$.** *J. Darling*. 2004, ApJ, 612, 58–63
- Methods for Constraining Fine Structure Constant Evolution with OH Microwave Transitions.** *J. Darling*. 2003, Phys. Rev. Lett., 91, 011301
- Peculiar Broad Absorption Line Quasars Found in The Digitized Palomar Observatory Sky Survey.** R. J. Brunner, P. B. Hall, S. G. Djorgovski, R. R. Gal, A. A. Mahabal, P. A. A. Lopes, R. R. De Carvalho, S. C. Odewahn, S. Castro, D. Thompson, F. Chaffee, *J. Darling*, & V. Desai. 2003, AJ, 126, 53–62
- A Search for 6.7 GHz Methanol Masers in OH Megamaser Galaxies at $0.11 < z < 0.27$.** *J. Darling*, P. Goldsmith, D. Li, & R. Giovanelli. 2003, AJ, 125, 1177–1181
- The OH Megamaser Luminosity Function.** *J. Darling* & R. Giovanelli. 2002, ApJ, 572, 810–822
- The Discovery of Time Variability in OH Megamasers.** *J. Darling* & R. Giovanelli. 2002, ApJ, 569, L87–L90
- A Search for OH Megamasers at $z > 0.1$. III. The Complete Survey.** *J. Darling* & R. Giovanelli. 2002, AJ, 124, 100–126
- A Search for OH Megamasers at $z > 0.1$. II. Further Results.** *J. Darling* & R. Giovanelli. 2001, AJ, 121, 1278–1293
- A Search for OH Megamasers at $z > 0.1$. I. Preliminary Results.** *J. Darling* & R. Giovanelli. 2000, AJ, 119, 3003–3014
- The Optical/Infrared Astronomical Quality of High Atacama Sites. I. Optical Seeing** R. Giovanelli, *J. Darling*, M. Sarazin, J. Yu, P. Harvey, C. Henderson, W. Hoffman, L. Keller, D. Barry, J. Cordes, S. Eikenberry, G. Gull, J. Harrington, J. D. Smith, G. Stacey, & M. Swain. 2001, PASP, 113, 789–802
- The Optical/Infrared Astronomical Quality of High Atacama Sites. II. Infrared Characteristics** R. Giovanelli, *J. Darling*, C. Henderson, W. Hoffman, D. Barry, J. Cordes, S. Eikenberry, G. Gull, L. Keller, J. D. Smith, & G. Stacey. 2001, PASP, 113, 803–813
- The Nonvariability of the Progenitor of Supernova 1993J in M81.** J. G. Cohen, *J. Darling*, & A. Porter. 1995, AJ, 110, 308–311

SUBMITTED AND PENDING REFEREED PUBLICATIONS

- The ALFALFA HI Absorption Pilot Survey: A Wide-Area Blind Damped Lyman Alpha System Survey of the Local Universe.** *J. Darling*, E. P. Macdonald, M. P. Haynes, R. Giovanelli. 2011, ApJ, submitted, 7 pages

CONFERENCE PROCEEDINGS, BOOK CHAPTERS, & WHITE PAPERS

- Densitometry and Thermometry of Starburst Galaxies.** J. G. Mangum, *J. Darling*, K. M. Menten, C. Henkel, & M. MacGregor. 2010, 5th Zermatt ISM Symposium, EDP Sciences, in press
- How Do Galaxies Accrete Gas and Form Stars?** M. E. Putman et al. (46 authors). 2009, Astronomy and Astrophysics Decadal Survey white paper.
- A Radio Sky Surveys Project with the Allen Telescope Array** G. Bower et al. (52 authors). 2009, Astronomy and Astrophysics Decadal Survey white paper.
- Masers in Starburst Galaxies** *J. Darling*. 2007, Proc. IAU Symp. 242, Astrophysical Masers and Their Environments, eds. J. M. Chapman & W. A. Baan, 242, 417–426
- Formaldehyde: A High Redshift Tracer of Pre-Starburst Gas?** *J. Darling*. 2006, ASP Conf. Ser., From Z-Machines to ALMA: (Sub)millimeter Spectroscopy of Galaxies, eds. A. J. Baker, J. Glenn, A. I. Harris, J. G. Mangum, & M. S. Yun., 375, 208–214
- Searching for High-Redshift Centimeter-Wave Continuum, Line, and Maser Emission Using the Square Kilometer Array.** A. W. Blain, C. Carilli, & *J. Darling*. 2004, Science with the Square Kilometer Array, eds. C. Carilli & S. Rawlings, New Astronomy Reviews, 48, 1247–1257
- Measuring Changes in the Fundamental Constants with Redshifted Radio Absorption Lines.** S. J. Curran, N. Kanekar, & *J. Darling*. 2004, Science with the Square Kilometer Array, eds. C. Carilli & S. Rawlings, New Astronomy Reviews, 48, 1095–1105
- OH Megamasers: Discoveries, Insights, and Future Directions.** *J. Darling*. 2005, ASP Conf. Ser., Future Directions in High Resolution Astronomy: The 10th Anniversary of the VLBA, ed. J. D. Romney & M. J. Reid, 340, 216–223
- The Arecibo OH Megamaser Survey and the Galaxy Merger Rate.** *J. Darling*, and R. Giovanelli. 2000, ASP Conf. Ser., Gas and Galaxy Evolution, ed. J. Hibbard, M. Rupen, & J. van Gorkom, 240, 200–201
- A Search for OH Megamasers at $z > 0.1$: Preliminary Results.** *J. Darling*, and R. Giovanelli. 2001, ASP Conf. Ser., Science with the Atacama Large Millimeter Array, ed. A. Wootten, 235, 309–312
- Luminosity Function of $z > 4$ Quasars from the Second Palomar Sky Survey.** J. D. Kennefick, *J. Darling*, S. G. Djorgovski, & R. R. de Carvalho. 1997, Young Galaxies and QSO Absorption-Line Systems, ASP Conference Series, Vol. 114, ed. Sueli M. Viegas, Ruth Gruenwald, & Reinaldo R. de Carvalho, 95–98

ABSTRACTS

- A Search for Intrinsic HI 21-cm Absorption Toward Compact Radio Sources.** K. Grasha & *J. Darling*. 2011, AAS Meeting 217, #345.02
- The Formaldehyde Deep Field: A Mass-Limited, Distance-Independent, Extinction-Free Census of Cosmic Star Formation.** *J. Darling* & B. Zeiger. 2011, AAS Meeting 217, #335.10
- Formaldehyde Densitometry of Dust Clumps: The Shapes and Densities of Massive Star Forming Regions.** A. Ginsburg, C. Battersby, *J. Darling*, & J. Bally. 2011, AAS Meeting 217, #258.03
- Physical Molecular Probes of Star-Forming Galaxies.** *J. Darling*. 2010, ‘Stormy Cosmos: The Evolving ISM from Spitzer to Herschel and Beyond’ meeting, Pasadena, CA

- Frustrated by RFI: Present-Day Molecular Astrophysics at High Redshift.** K. Willett & *J. Darling*. 2010, “Robotic Science From the Moon” meeting, Boulder, CO
- The Search for Intrinsic and Intervening HI Absorption at High Redshift Toward Compact Radio Sources.** K. Grasha & *J. Darling*. 2010, “Robotic Science From the Moon” meeting, Boulder, CO
- The ALFALFA HI Absorption Survey.** E. Macdonald, *J. Darling*, & the ALFALFA Team. 2010, Royal Astronomical Society National Astronomy Meeting, Glasgow, UK
- Detection of Three Redshifted HI Absorption Systems.** T. Yan, J. Stocke, & *J. Darling*. 2010, AAS Meeting 215, #460.07
- Formaldehyde Absorption of the Cosmic Microwave Background: A Distance-Independent Tracer of Dense Molecular Gas.** B. Zeiger & *J. Darling*. 2010, AAS Meeting 215, #415.04
- Galactic Analog Water Masers in the Antennae Galaxies.** C. Brogan, K. Johnson, & *J. Darling*. 2010, AAS Meeting 215, #320.04
- Mid-Infrared Spectroscopy of Compact Symmetric Objects.** K. Willett, J. Stocke, E. Perlman, & *J. Darling*. 2009, “Reionization to Exoplanets: Spitzer’s Growing Legacy,” Pasadena, CA
- Formaldehyde Densitometry of Starburst Galaxies.** J. G. Mangum, *J. Darling*, B. R. Zeiger, K. M. Menten, & C. Henkel. 2009, IRAM 30m 30th Anniversary Meeting
- The ALFALFA HI Absorption Pilot Project.** E. Macdonald, *J. Darling*, & the ALFALFA Team. 2009, AAS Meeting 213, #482.09
- The Discovery of Water Masers in Nearby Star-Forming Galaxies.** *J. Darling*, C. Brogan, & K. Johnson. 2009, AAS Meeting 213, #445.01
- Observing High Redshift Starbursts With Formaldehyde.** B. Zeiger & *J. Darling*. 2008, “The EVLA Vision: Galaxies Through Cosmic Time” NRAO, Socorro, NM
- Mid-Infrared Spectroscopy of OH Megamasers.** K. Willett, *J. Darling*, L. Armus, V. Charmandaris, H. Spoon, & Y. Pihlström. 2007, AAS Meeting 211, #141.05
- A Dense Gas Trigger for OH Megamasers.** *J. Darling*. 2007, AAS Meeting 211, #141.04
- Formaldehyde Absorption Toward the Gravitational Lens B0218+357 at $z=0.68$.** *J. Darling* & T. Wiklind. 2005, AAS Meeting 207, #203.01
- Molecular Tori in AGN: A Search Using Excited States of OH.** C. M. V. Impellizzeri, A. L. Roy, C. Henkel, *J. Darling*, & J. A. Braatz. 2005, *Astron. Nachr.*, 326, 544
- The Broad OH Megamaser Lines in Ultra Luminous Infrared Galaxies.** Y. M. Pihlström, J. E. Conway, & *J. Darling*. 2004, AAS Meeting 205, #26.09
- OH Maser Disks and Outflows in ULIRGs: VLBA Observations of two IRAS Galaxies.** Y. M. Pihlström, W. A. Baan, *J. Darling*, & H.-R. Klöckner. 2003, AAS Meeting 203, #146.02
- OH Megamasers in External Galaxies.** *J. Darling*. 2003, *The Astrochemistry of External Galaxies*, IAU 25, JD 21
- The Green Bank Telescope OH Megamaser Survey.** B. Kent, J. Braatz, & *J. Darling*. 2002, AAS Meeting 201, #52.16
- The Arecibo OH Megamaser Survey.** *J. Darling*. 2001, AAS Meeting 199, #35.05
- Observing OH Megamasers with the Upgraded Arecibo Telescope.** *J. Darling* & R. Giovanelli.

2001, AAS Meeting 198, #89.03

OH Megamasers: Luminous Radio Beacons of Merging Galaxies. *J. Darling* & R. Giovanelli. 2001, AAS Meeting 198, #34.05

A Survey of Lyman Break Galaxies Associated with Damped Lyman Alpha Systems at $z \sim 3$. J. Cooke, A. M. Wolfe, E. Gawiser, J. X. Prochaska, & *J. Darling*. AAS Meeting 198, #54.10 (2001)

The Arecibo OH Megamaser Survey and the Galaxy Merger Rate. *J. Darling*, and R. Giovanelli. 2000, AAS Meeting 196, #51.01

Optical/Infrared Site Survey in the High Atacama Desert. R. Giovanelli, *J. Darling*, M. Sarazin, S. Eikenberry, B. Hoffman, M. Swain, J. Yu, P. M. Harvey, A. Otarola, and G. Valladares. AAS Meeting 193, #11.02 (1999)

High-Redshift Quasars and Other Peculiar-Color Objects in DPOSS. S. G. Djorgovski, S. C. Odewahn, R. R. Gal, R. R. De Carvalho, A. Kelly, J. Kollmeier, E. Kartalov, *J. Darling*, and V. Desai. AAS 192, #55.22 (1998)

Galaxy Companions of Quasars at $z > 4$: Formation of Protocluster Cores?. S. G. Djorgovski, K. R. Banas, S. C. Odewahn, R. R. Gal, M. A. Pahre, R. R. de Carvalho, V. Desai, & *J. Darling*. 1997, BAAS, 191, #95.07

Discovery of 6 Bright Quasars at $z > 4$ From Digitized POSS-II. *J. Darling*, R. R. de Carvalho, J. Kennefick, & S. G. Djorgovski. 1995, BAAS, 187, #84.17