

CURRICULUM VITAE

James Erik Aguirre

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EDUCATION

University of Chicago, PhD Physics, 2003
University of Chicago, MS Physics, 2003
Georgia Institute of Technology, BS Applied Mathematics, 1997
Georgia Institute of Technology, BS Physics, 1997

PROFESSIONAL APPOINTMENTS

Assistant Professor, Department of Physics and Astronomy, University of Pennsylvania, July 2008 - present

National Radio Astronomy Observatory (NRAO) Jansky Fellow, 2005 - 2008

Postdoctoral Research Associate, University of Colorado, Boulder, Center for Astrophysics and Space Astronomy, 2003 - 2008

Graduate Research Assistant, University of Chicago, Department of Physics, 1997 - 2003

National Science Foundation Graduate Research Fellow, 1997 - 2003

RESEARCH INTERESTS

- Mass assembly and the formation of cosmic large scale structure
- Galaxy evolution and the star formation history of the universe
- Massive star formation and its effect on the host galaxy
- Re-ionization of the universe by the first stars and quasars
- Design and construction of millimeter-wave and radio instrumentation
- Data analysis for radio interferometers and for millimeter cameras, spectrometers and polarimeters

FUNDING AND COLLABORATIONS

Current

Co-I and Executive Committee member for NSF AST 1125558 “Collaborative Research: Precision Array for Probing the Epoch of Reionization (PAPER)”, a joint venture with University of California Berkeley, and NRAO / University of Virginia, 9/1/2011 - 8/31/2014. Direct costs: \$684,293; Indirect Costs: \$141,157

PI of NASA NNX11AQ63H 2011 Graduate Student Researchers Program (GSRP) for Bade Uzgil “Studying the Interstellar Medium of Galaxies During the Epoch of Reionization Via Intensity Mapping”, 9/1/2011 - 8/31/2014. Direct Costs: \$90,000; Indirect Costs: \$0

PI of NASA NNX13AL68H 2013 Space Technology Research Fellowship for Alyssa Barlis “Kinetic Inductance Detectors for Far-Infrared Spectroscopy”, 8/1/2013 - 7/31/2014. Direct Costs:\$68,000.00; Indirect Costs: \$0

PI of University of Pennsylvania Research Foundation Grant “Development of State-of-the-Art Signal Readout and Processing for Observational Cosmology Instrumentation”, 9/1/2013- 8/31/2014

Co-I of NASA Herschel Science Center (NHSC) Grant “The highest redshift strongly lensed dusty star forming galaxies” (PI J. Vieira) 1/31/2013 - 6/30/2015. Direct Costs: \$6,250; Indirect Costs: \$3,750

Co-I of NSF Astronomy and Astrophysics Grant AST-1309032 “High Resolution Observations of the Sunyaev-Zel’dovich Effect in Clusters of Galaxies and High-z Galaxies at 90 GHz Using the GBT” (PI M. Devlin) 9/1/2013 - 8/31/2015. Direct Costs: \$321,302; Indirect Costs: \$185,016

Former

PI of NSF Astronomy and Astrophysics Grant AST-0807990 “Broadband Millimeter Spectroscopy with Z-Spec: Molecular Diagnostics of Local ULIRGs and Redshifts for Submillimeter Galaxies”, 7/1/2008 - 6/30/2011. Direct costs: \$290,773; Indirect Costs: \$136,204

PI of University of Pennsylvania Research Foundation Grant “A Cryogenic Testbed for Advanced Millimeter-Wave Astronomical Detectors”, 7/27/2009- 6/31/2010

PI of Mt. Cuba Astronomical Foundation Grant “An Advanced Data Handling System to Enable the Detection of the Epoch of Reionization”, 10/1/2010 - 12/31/2011

Co-I of NSF Astronomy and Astrophysics Grant AST-1007905 “High Resolution Observations of the Sunyaev-Zel’dovich Effect in Clusters of Galaxies and High-z Galaxies at 90 GHz Using the GBT” (PI M. Devlin) 7/1/2010 - 6/30/2012. Direct costs: \$387,584; Indirect costs: \$194,996

SCIENTIFIC COMMUNITY SERVICE

NRAO Science Review Panel member for review of observing proposals to the VLA and GBT. Term began in February 2014, to run for two years

Member of the Science Working Group on the Epoch of Reionization and the Dark Ages for the development of the Square Kilometre Array

Paper referee for the journals *Monthly Notices of the Royal Astronomical Society*, *Radio Science*, and *Astronomy and Astrophysics*

Reviewer for the NASA Space Technology Research Fellowship 2014 and Postdoctoral Program 2011

US panelist for a scientific, technical and programmatic review of the proposed instrument suite for the Japanese satellite SPICA

(http://www.ir.isas.jaxa.jp/SPICA/SPICA_HP/index.English.html).

The review is organized by JAXA, the Japanese space agency. The review panel consists of 5 people from JAXA, 5 from ESA, 2 from Korea, and 3 from the US.

Contributor to science white papers submitted to US Astro2010 Decadal Survey

Grants Reviewer for NASA Astrophysics Theory Program, September 2009

National Radio Astronomy Observatory K-band Focal Plane Array Critical Design Review Committee, January 30 - 31, 2009. Final report

<https://safe.nrao.edu/wiki/bin/view/Kbandfpa/CriticalDesignReview>

INVITED TALKS

Bringing Fundamental Astrophysical Processes Into Focus: A Community Workshop to Plan the Future of Far-Infrared Space Astrophysics, Goddard Space Flight Center, May 12 - 13, 2014. *Directions for Probing Cosmology and Large-Scale Structure in the Far-Infrared*

Keynote speaker for 2013 NRAO Postdoctoral Symposium, Green Bank, WV, April 29 - May 1, 2013. *From Our Galaxy to the First Galaxies: My Journey with NRAO*

U.S. Low Frequency Radio Coordination Meeting, 27 August 2013. *The Precision Array for Probing the Epoch of Reionization*

Square Kilometer Array (SKA) Low Science Assessment Workshop - Precursors and Pathfinders Lessons Learned, 26 March 2013. *The Precision Array for Probing the Epoch of Reionization*

American Astronomical Society Special Session "Early Science Results from the Hydrogen Epoch of Reionization Arrays (HERA)", January 2013. *Full Stokes Observations with PAPER: Measurements and Implications*

Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, SPICA, and Beyond, May 12 - 14, 2011, The Center for Cosmology, University of California, Irvine. *Recent Results from Z-Spec*

CCAT Workshop “The Submillimeter Universe: The CCAT View”, November 12 - 13, 2010. *Obtaining Submillimeter Galaxy Redshifts and Probing LSS at $z \sim 3$*

Snowbird Workshop on Particle Astrophysics, Astronomy & Cosmology (SnowPAC), Special Session on Galaxy Clusters (SnowCluster). *New high resolution SZ measurements with MUSTANG on the GBT*

Keck Institute for Space Studies Workshop Innovative Concepts in IR/Submm Astronomy from Space, March 9 - 12, 2009, California Institute of Technology. *A Balloon Spectroscopic Surveyor*,

UNIVERSITY SERVICE

Hearing Panel Member for the Student Disciplinary System. Served as Chair for one panel hearing.

Presented report on ASTR150 for SAS Physical World Sector Review, Spring 2010

Organizer for the Penn Departmental Astronomy and Cosmology Seminars, AY 2009 and 2010

OUTREACH AND EDUCATION

Speaker for the public lecture at the Franklin Institute’s “Night Sky at the Observatory”, May 8, 2014

Speaker for the public lecture at Penn Astronomy Night, April 7, 2014

Lectures presented to Penn Summer Science Academy students, Summers 2009 - 2013

Developed a four-day course in radio astronomy in which the students constructed a radio telescope and measured the temperature of the sun, Summers 2010 - 2013

Public lecture to the Research Experience for Teachers Program for the NRAO Pulsar Col-laboratory, Green Bank, WV, Summer 2009

PUBLICATIONS

Accepted

A. R. Parsons, A. Liu, J. E. **Aguirre**, Z. S. Ali, R. F. Bradley, C. L. Carilli, D. R. DeBoer, M. R. Dexter, N. E. Gugliucci, D. C. Jacobs, P. Klima, D. H. E. MacMahon, J. R. Manley, D. F. Moore, J. C. Pober, I. I. Stefan, and W. P. Walbrugh. New Limits on 21cm EoR From PAPER-32 Consistent with an X-Ray Heated IGM at $z=7.7$. *ArXiv e-prints 1304.4991*, 2013.

Refereed

J. S. Spilker, D. P. Marrone, J. E. **Aguirre**, M. Aravena, M. L. N. Ashby, M. Béthermin, C. M. Bradford, M. S. Bothwell, M. Brodwin, J. E. Carlstrom, S. C. Chapman, T. M. Crawford, C. de Breuck, C. D. Fassnacht, A. H. Gonzalez, T. R. Greve, B. Gullberg, Y. Hezaveh, W. L. Holzapfel, K. Husband, J. Ma, M. Malkan, E. J. Murphy, C. L. Reichardt, K. M. Rotermond, B. Stalder, A. A. Stark, M. Strandet, J. D. Vieira, A. Weiß, and N. Welikala. The Rest-frame Submillimeter Spectrum of High-redshift, Dusty, Star-forming Galaxies. *Astrophysical Journal*, 785:149, 2014.

J. C. Pober, A. Liu, J. S. Dillon, J. E. **Aguirre**, J. D. Bowman, R. F. Bradley, C. L. Carilli, D. R. DeBoer, J. N. Hewitt, D. C. Jacobs, M. McQuinn, M. F. Morales, A. R. Parsons, M. Tegmark, and D. J. Werthimer. What Next-generation 21 cm Power Spectrum Measurements can Teach us About the Epoch of Reionization. *Astrophysical Journal*, 782:66, 2014.

M. S. Bothwell, J. E. **Aguirre**, S. C. Chapman, D. P. Marrone, J. D. Vieira, M. L. N. Ashby, M. Aravena, B. A. Benson, J. J. Bock, C. M. Bradford, M. Brodwin, J. E. Carlstrom, T. M. Crawford, C. de Breuck, T. P. Downes, C. D. Fassnacht, A. H. Gonzalez, T. R. Greve, B. Gullberg, Y. Hezaveh, G. P. Holder, W. L. Holzapfel, E. Ibar, R. Ivison, J. Kamenetzky, R. Keisler, R. E. Lupu, J. Ma, M. Malkan, V. McIntyre, E. J. Murphy, H. T. Nguyen, C. L. Reichardt, M. Rosenman, J. S. Spilker, B. Stalder, A. A. Stark, M. Strandet, J. Vernet, A. Weiß, and N. Welikala. SPT-0538-50: Physical Conditions in the Interstellar Medium of a Strongly Lensed Dusty Star-forming Galaxy at $z = 2.8$. *Astrophysical Journal*, 779:67, 2013.

E. A. Pearson, S. Eales, L. Dunne, J. Gonzalez-Nuevo, S. Maddox, J. E. **Aguirre**, M. Baes, A. J. Baker, N. Bourne, C. M. Bradford, C. J. R. Clark, A. Cooray, A. Dariush, G. D. Zotti, S. Dye, D. Frayer, H. L. Gomez, A. I. Harris, R. Hopwood, E. Ibar, R. J. Ivison, M. Jarvis, M. Krips, A. Lapi, R. E. Lupu, M. J. Michałowski, M. Rosenman, D. Scott, E. Valiante, I. Valtchanov, P. v. d. Werf, and J. D. Vieira. H-ATLAS: estimating redshifts of Herschel sources from sub-mm fluxes. *Monthly Notices of the RAS*, 435:2753–2763, 2013.

A. Natarajan, J. B. Peterson, T. C. Voytek, K. Spekkens, B. Mason, J. **Aguirre**, and B. Willman. Bounds on dark matter properties from radio observations of Ursa Major II using the Green Bank Telescope. *Physical Review D*, 88(8):083535, 2013.

- A. Ginsburg, J. Glenn, E. Rosolowsky, T. P. Ellsworth-Bowers, C. Battersby, M. Dunham, M. Merello, Y. Shirley, J. Bally, N. J. Evans, II, G. Stringfellow, and J. **Aguirre**. The Bolocam Galactic Plane Survey. IX. Data Release 2 and Outer Galaxy Extension. *Astrophysical Journal Supplement*, 208:14, 2013.
- D. C. Jacobs, A. R. Parsons, J. E. **Aguirre**, Z. Ali, J. Bowman, R. F. Bradley, C. L. Carilli, D. R. DeBoer, M. R. Dexter, N. E. Gugliucci, P. Klima, D. H. E. MacMahon, J. R. Manley, D. F. Moore, J. C. Pober, I. I. Stefan, and W. P. Walbrugh. A Flux Scale for Southern Hemisphere 21 cm Epoch of Reionization Experiments. *Astrophysical Journal*, 776:108, 2013.
- K. Spekkens, B. S. Mason, J. E. **Aguirre**, and B. Nhan. A Deep Search for Extended Radio Continuum Emission from Dwarf Spheroidal Galaxies: Implications for Particle Dark Matter. *Astrophysical Journal*, 773:61, 2013.
- M. Aravena, E. J. Murphy, J. E. **Aguirre**, M. L. N. Ashby, B. A. Benson, M. Bothwell, M. Brodwin, J. E. Carlstrom, S. C. Chapman, T. M. Crawford, C. de Breuck, C. D. Fassnacht, A. H. Gonzalez, T. R. Greve, B. Gullberg, Y. Hezaveh, G. P. Holder, W. L. Holzappel, R. Keisler, M. Malkan, D. P. Marrone, V. McIntyre, C. L. Reichardt, K. Sharon, J. S. Spilker, B. Stalder, A. A. Stark, J. D. Vieira, and A. Weiß. Large gas reservoirs and free-free emission in two lensed star-forming galaxies at $z = 2.7$. *Monthly Notices of the RAS*, 433:498–505, 2013.
- I. I. Stefan, C. L. Carilli, D. A. Green, Z. Ali, J. E. **Aguirre**, R. F. Bradley, D. DeBoer, M. Dexter, N. E. Gugliucci, D. E. Harris, D. C. Jacobs, P. Klima, D. MacMahon, J. Manley, D. F. Moore, A. R. Parsons, J. C. Pober, and W. P. Walbrugh. Imaging on PAPER: Centaurus A at 148 MHz. *Monthly Notices of the RAS*, 432:1285–1293, 2013.
- D. F. Moore, J. E. **Aguirre**, A. R. Parsons, D. C. Jacobs, and J. C. Pober. The Effects of Polarized Foregrounds on 21 cm Epoch of Reionization Power Spectrum Measurements. *Astrophysical Journal*, 769:154, 2013.
- D. C. Jacobs, J. Bowman, and J. E. **Aguirre**. The Precision and Accuracy of Early Epoch of Reionization Foreground Models: Comparing MWA and PAPER 32-antenna Source Catalogs. *Astrophysical Journal*, 769:5, 2013.
- J. C. Pober, A. R. Parsons, J. E. **Aguirre**, Z. Ali, R. F. Bradley, C. L. Carilli, D. DeBoer, M. Dexter, N. E. Gugliucci, D. C. Jacobs, P. J. Klima, D. MacMahon, J. Manley, D. F. Moore, I. I. Stefan, and W. P. Walbrugh. Opening the 21 cm Epoch of Reionization Window: Measurements of Foreground Isolation with PAPER. *Astrophysical Journal Letters*, 768:L36, 2013.
- D. A. Riechers, C. M. Bradford, D. L. Clements, C. D. Dowell, I. Pérez-Fournon, R. J. Ivison, C. Bridge, A. Conley, H. Fu, J. D. Vieira, J. Wardlow, J. Calanog, A. Cooray, P. Hurley, R. Neri, J. Kamenetzky, J. E. **Aguirre**, B. Altieri, V. Arumugam, D. J. Benford, M. Béthermin, J. Bock, D. Burgarella, A. Cabrera-Lavers, S. C. Chapman, P. Cox, J. S. Dunlop, L. Earle, D. Farrah, P. Ferrero, A. Franceschini, R. Gavazzi, J. Glenn, E. A. G.

- Solares, M. A. Gurwell, M. Halpern, E. Hatziminaoglou, A. Hyde, E. Ibar, A. Kovács, M. Krips, R. E. Lupu, P. R. Maloney, P. Martinez-Navajas, H. Matsuhara, E. J. Murphy, B. J. Naylor, H. T. Nguyen, S. J. Oliver, A. Omont, M. J. Page, G. Petitpas, N. Rangwala, I. G. Roseboom, D. Scott, A. J. Smith, J. G. Staguhn, A. Streblyanska, A. P. Thomson, I. Valtchanov, M. Viero, L. Wang, M. Zemcov, and J. Zmuidzinas. A dust-obscured massive maximum-starburst galaxy at a redshift of 6.34. *Nature*, 496:329–333, 2013.
- Y. D. Hezaveh, D. P. Marrone, C. D. Fassnacht, J. S. Spilker, J. D. Vieira, J. E. **Aguirre**, K. A. Aird, M. Aravena, M. L. N. Ashby, M. Bayliss, B. A. Benson, L. E. Bleem, M. Bothwell, M. Brodwin, J. E. Carlstrom, C. L. Chang, S. C. Chapman, T. M. Crawford, A. T. Crites, C. De Breuck, T. de Haan, M. A. Dobbs, E. B. Fomalont, E. M. George, M. D. Gladders, A. H. Gonzalez, T. R. Greve, N. W. Halverson, F. W. High, G. P. Holder, W. L. Holzapfel, S. Hoover, J. D. Hrubes, K. Husband, T. R. Hunter, R. Keisler, A. T. Lee, E. M. Leitch, M. Lueker, D. Luong-Van, M. Malkan, V. McIntyre, J. J. McMahan, J. Mehl, K. M. Menten, S. S. Meyer, L. M. Mocanu, E. J. Murphy, T. Natoli, S. Padin, T. Plagge, C. L. Reichardt, A. Rest, J. Ruel, J. E. Ruhl, K. Sharon, K. K. Schaffer, L. Shaw, E. Shirokoff, B. Stalder, Z. Staniszewski, A. A. Stark, K. Story, K. Vanderlinde, A. Weiß, N. Welikala, and R. Williamson. ALMA Observations of SPT-discovered, Strongly Lensed, Dusty, Star-forming Galaxies. *Astrophysical Journal*, 767:132, 2013.
- A. Weiß, C. De Breuck, D. P. Marrone, J. D. Vieira, J. E. **Aguirre**, K. A. Aird, M. Aravena, M. L. N. Ashby, M. Bayliss, B. A. Benson, M. Béthermin, A. D. Biggs, L. E. Bleem, J. J. Bock, M. Bothwell, C. M. Bradford, M. Brodwin, J. E. Carlstrom, C. L. Chang, S. C. Chapman, T. M. Crawford, A. T. Crites, T. de Haan, M. A. Dobbs, T. P. Downes, C. D. Fassnacht, E. M. George, M. D. Gladders, A. H. Gonzalez, T. R. Greve, N. W. Halverson, Y. D. Hezaveh, F. W. High, G. P. Holder, W. L. Holzapfel, S. Hoover, J. D. Hrubes, K. Husband, R. Keisler, A. T. Lee, E. M. Leitch, M. Lueker, D. Luong-Van, M. Malkan, V. McIntyre, J. J. McMahan, J. Mehl, K. M. Menten, S. S. Meyer, E. J. Murphy, S. Padin, T. Plagge, C. L. Reichardt, A. Rest, M. Rosenman, J. Ruel, J. E. Ruhl, K. K. Schaffer, E. Shirokoff, J. S. Spilker, B. Stalder, Z. Staniszewski, A. A. Stark, K. Story, K. Vanderlinde, N. Welikala, and R. Williamson. ALMA Redshifts of Millimeter-selected Galaxies from the SPT Survey: The Redshift Distribution of Dusty Star-forming Galaxies. *Astrophysical Journal*, 767:88, 2013.
- J. D. Vieira, D. P. Marrone, S. C. Chapman, C. De Breuck, Y. D. Hezaveh, A. Weiß, J. E. **Aguirre**, K. A. Aird, M. Aravena, M. L. N. Ashby, M. Bayliss, B. A. Benson, A. D. Biggs, L. E. Bleem, J. J. Bock, M. Bothwell, C. M. Bradford, M. Brodwin, J. E. Carlstrom, C. L. Chang, T. M. Crawford, A. T. Crites, T. de Haan, M. A. Dobbs, E. B. Fomalont, C. D. Fassnacht, E. M. George, M. D. Gladders, A. H. Gonzalez, T. R. Greve, B. Gullberg, N. W. Halverson, F. W. High, G. P. Holder, W. L. Holzapfel, S. Hoover, J. D. Hrubes, T. R. Hunter, R. Keisler, A. T. Lee, E. M. Leitch, M. Lueker, D. Luong-van, M. Malkan, V. McIntyre, J. J. McMahan, J. Mehl, K. M. Menten, S. S. Meyer, L. M. Mocanu, E. J. Murphy, T. Natoli, S. Padin, T. Plagge, C. L. Reichardt, A. Rest, J. Ruel, J. E. Ruhl, K. Sharon, K. K. Schaffer, L. Shaw, E. Shirokoff, J. S. Spilker, B. Stalder, Z. Staniszewski, A. A. Stark, K. Story, K. Vanderlinde, N. Welikala, and R. Williamson. Dusty starburst

- galaxies in the early Universe as revealed by gravitational lensing. *Nature*, 495:344–347, 2013.
- J. C. Pober, A. R. Parsons, D. R. DeBoer, P. McDonald, M. McQuinn, J. E. **Aguirre**, Z. Ali, R. F. Bradley, T.-C. Chang, and M. F. Morales. The Baryon Acoustic Oscillation Broadband and Broad-beam Array: Design Overview and Sensitivity Forecasts. *Astronomical Journal*, 145:65, 2013.
- A. Omont, C. Yang, P. Cox, R. Neri, A. Beelen, R. S. Bussmann, R. Gavazzi, P. van der Werf, D. Riechers, D. Downes, M. Krips, S. Dye, R. Ivison, J. D. Vieira, A. Weiß, J. E. **Aguirre**, M. Baes, A. J. Baker, F. Bertoldi, A. Cooray, H. Dannerbauer, G. De Zotti, S. A. Eales, H. Fu, Y. Gao, M. Guélin, A. I. Harris, M. Jarvis, M. Lehnert, L. Leeuw, R. Lupu, K. Menten, M. J. Michałowski, M. Negrello, S. Serjeant, P. Temi, R. Auld, A. Dariush, L. Dunne, J. Fritz, R. Hopwood, C. Hoyos, E. Ibar, S. Maddox, M. W. L. Smith, E. Valiante, J. Bock, C. M. Bradford, J. Glenn, and K. S. Scott. H₂O emission in high-z ultra-luminous infrared galaxies. *Astronomy and Astrophysics*, 551:A115, 2013.
- A. R. Parsons, J. C. Pober, J. E. **Aguirre**, C. L. Carilli, D. C. Jacobs, and D. F. Moore. A Per-baseline, Delay-spectrum Technique for Accessing the 21 cm Cosmic Reionization Signature. *Astrophysical Journal*, 756:165, 2012.
- H. Fu, E. Jullo, A. Cooray, R. S. Bussmann, R. J. Ivison, I. Pérez-Fournon, S. G. Djorgovski, N. Scoville, L. Yan, D. A. Riechers, J. **Aguirre**, R. Auld, M. Baes, A. J. Baker, M. Bradford, A. Cava, D. L. Clements, H. Dannerbauer, A. Dariush, G. De Zotti, H. Dole, L. Dunne, S. Dye, S. Eales, D. Frayer, R. Gavazzi, M. Gurwell, A. I. Harris, D. Herranz, R. Hopwood, C. Hoyos, E. Ibar, M. J. Jarvis, S. Kim, L. Leeuw, R. Lupu, S. Maddox, P. Martínez-Navajas, M. J. Michałowski, M. Negrello, A. Omont, M. Rosenman, D. Scott, S. Serjeant, I. Smail, A. M. Swinbank, E. Valiante, A. Verma, J. Vieira, J. L. Wardlow, and P. van der Werf. A Comprehensive View of a Strongly Lensed Planck-Associated Submillimeter Galaxy. *Astrophysical Journal*, 753:134, 2012.
- T. R. Greve, J. D. Vieira, A. Weiß, J. E. **Aguirre**, K. A. Aird, M. L. N. Ashby, B. A. Benson, L. E. Bleem, C. M. Bradford, M. Brodwin, J. E. Carlstrom, C. L. Chang, S. C. Chapman, T. M. Crawford, C. de Breuck, T. de Haan, M. A. Dobbs, T. Downes, C. D. Fassnacht, G. Fazio, E. M. George, M. Gladders, A. H. Gonzalez, N. W. Halverson, Y. Hezaveh, F. W. High, G. P. Holder, W. L. Holzapfel, S. Hoover, J. D. Hrubes, M. Johnson, R. Keisler, L. Knox, A. T. Lee, E. M. Leitch, M. Lueker, D. Luong-Van, M. Malkan, D. P. Marrone, V. McIntyre, J. J. McMahon, J. Mehl, K. M. Menten, S. S. Meyer, T. Montroy, E. J. Murphy, T. Natoli, S. Padin, T. Plagge, C. Pryke, C. L. Reichardt, A. Rest, M. Rosenman, J. Ruel, J. E. Ruhl, K. K. Schaffer, K. Sharon, L. Shaw, E. Shirokoff, B. Stalder, S. A. Stanford, Z. Staniszewski, A. A. Stark, K. Story, K. Vanderlinde, W. Walsh, N. Welikala, and R. Williamson. Submillimeter Observations of Millimeter Bright Galaxies Discovered by the South Pole Telescope. *Astrophysical Journal*, 756:101, 2012.
- R. E. Lupu, K. S. Scott, J. E. **Aguirre**, I. Aretxaga, R. Auld, E. Barton, A. Beelen, F. Bertoldi, J. J. Bock, D. Bonfield, C. M. Bradford, S. Buttiglione, A. Cava, D. L. Clements, J. Cooke, A. Cooray, H. Dannerbauer, A. Dariush, G. De Zotti, L. Dunne,

- S. Dye, S. Eales, D. Frayer, J. Fritz, J. Glenn, D. H. Hughes, E. Ibar, R. J. Ivison, M. J. Jarvis, J. Kamenetzky, S. Kim, G. Lagache, L. Leeuw, S. Maddox, P. R. Maloney, H. Matsuhara, E. J. Murphy, B. J. Naylor, M. Negrello, H. Nguyen, A. Omont, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, S. Serjeant, D. Smith, P. Temi, M. Thompson, I. Valtchanov, A. Verma, J. D. Vieira, and J. Zmuidzinas. Measurements of CO Redshifts with Z-Spec for Lensed Submillimeter Galaxies Discovered in the H-ATLAS Survey. *Astrophysical Journal*, 757:135, 2012.
- A. Parsons, J. Pober, M. McQuinn, D. Jacobs, and J. **Aguirre**. A Sensitivity and Array-configuration Study for Measuring the Power Spectrum of 21 cm Emission from Reionization. *Astrophysical Journal*, 753:81, 2012.
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