

BRIAN S. MASON

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Employment

2014–	Scientist, National Radio Astronomy Observatory (Charlottesville)
2009–2014	Associate Scientist, National Radio Astronomy Observatory (Charlottesville)
2006–2009	Associate Astronomer, National Radio Astronomy Observatory (Charlottesville)
2004–2006	Associate Astronomer, National Radio Astronomy Observatory (Green Bank)
2002–2004	Assistant Astronomer, National Radio Astronomy Observatory (Green Bank)
1999–2002	Postdoctoral Scholar, California Institute of Technology (Advisor: A.C.S. Readhead)
1994–1999	Teaching & Research Assistantships, University of Pennsylvania

Education

1999	Ph.D. in Physics and Astronomy, University of Pennsylvania Thesis: “An Improved Measurement of the Hubble Constant from the Sunyaev-Zeldovich Effect” (Advisor: Steven T. Myers)
1994	B.S. with High Honors, Physics, College of William and Mary

Research Interests

- Sunyaev-Zel'dovich Effect measurements & related cluster studies
- Instrument Development
- Measurements of CMB anisotropies in intensity and polarization
- CMB Foregrounds
- Astronomical Imaging Algorithms

Selected Publications ($h = 29$, $i_{10} = 54$)

1. “Confirmation of Enhanced Long Wavelength Dust Emission in OMC 2/3”, **B. Mason**, S. Dicker, S. Sadavoy, S. Stanchfield, T. Mroczkowski, C. Romero, R. Friesen, C. Sarazin, J. Sievers, T. Stanke, M. Devlin (*submitted to ApJ*, arXiv:1905.05221).
2. “Direct detection of quasar feedback via the Sunyaev-Zeldovich effect”, M. Lacy, **B. Mason**, C. Sarazin, S. Chatterjee, K. Nyland, A. Kimball, G. Rocha, B. Rowe, J. Surace 2018, MNRAS 283, L22 (*First direct detection of the SZE in a QSO outflow*)
3. “Implications of a High Angular Resolution Image of the Sunyaev-Zel'dovich Effect in RXJ1347-1145” **B.S. Mason** et al., 2010 ApJ 716, 739 (*51 citations; highest resolution image of the SZ to date*)

4. "The Detection of Anomalous Dust Emission in the Nearby Galaxy NGC 6946", E.J. Murphy, G. Helou, J.J. Condon, E. Schinnerer, J.L. Turner, R. Beck, **B.S. Mason**, R.R. Chary, & L. Armus, 2010 ApJ 709, L108. (*40 citations - first extragalactic detection of "spinning dust"; used GBT 31 GHz receiver & CCB*)
5. "A Deep Search for Extended Radio Continuum Emission from Dwarf Spheroidal Galaxies: Implications for Particle Dark Matter" K. Spekkens, **B.S. Mason**, J. Aguirre, & B. Nhan 2013 ApJ 773, 61.
6. "A 31 GHz Survey of Low-Frequency Selected Radio Sources" **B.S. Mason**, *et al.*, 2009 ApJ 704, 1433. (*28 citations*)
7. "A Limit on the Polarization of Anomalous Microwave Emission in Lynds 1622", **B.S. Mason**, T. Robishaw, D. Finkbeiner, C. Heiles, & C. Dickinson, 2009 ApJ 697, 1187 (*22 citations*)
8. "Extended Mosaic Observations with the Cosmic Background Imager", A.C.S. Readhead, **B.S. Mason**, *et al.*, 2004 ApJ v.609 p.498. (*331 citations*)
9. "The Anisotropy of the Microwave Background to $l = 3500$: Deep Field Observations with the Cosmic Background Imager", **B.S. Mason**, *et al.*, 2003, ApJ 591, 540. (*331 citations*)
10. "An Improved Measurement of the Hubble Constant from the Sunyaev-Zel'dovich Effect," **B.S. Mason**, S.T. Myers, & A.C.S. Readhead, 2001, ApJ 555, L11. (*101 citations*)
11. "X-Ray Mass Models and Sunyaev-Zeldovich Effect Predictions for a Sample of 22 Nearby Galaxy Clusters," **B.S. Mason** & S.T. Myers, 2000, ApJ 540, 614. (*28 citations*)
12. "An Absolute Flux Density Measurement of the Supernova Remnant Cassiopeia A at 32 GHz," **B.S. Mason**, E.M. Leitch, S.T. Myers, J.K. Cartwright , & A.C.S. Readhead, 1999, AJ 118, 2908. (*45 citations*)

Observatory Service

- **ALMA Data Reduction Manager** (Dec. 2018 -)
- **Cognizant Lead, ALMA Calibration & Source Catalog Working Groups** (Dec. 2018 -)
- **ngVLA Short Baseline Array lead scientist**, calibration and configuration working group member (2017 -)
- **Team Lead, North American ALMA Software Support** (Nov. 2015 - Oct. 2018)
- **ALMA Support Scientist, North American ALMA Science Center** (Dec. 2012 - Nov. 2015)
 - **ALMA Extension & Optimization Campaign** (commissioning) shift (Aug. 2014)
- **Project Scientist, MUSTANG-2** (2012-2017)
 - **MUSTANG-2 Support Scientist & Instrument Collaboration Member** (2017-)
- **Project Manager** (2002-2008) / **Project Scientist** (2002-2014), **MUSTANG**
- **GBT Observer Support** (2006-)
- **Project Manager/Project Scientist, Caltech Continuum Backend (GBT)** (2002 - 2007)
- **Project Scientist, 1cm Receiver & Millimeter IF Converter projects (GBT)** (2002 - 2006)

- **GBT High Frequency Project Scientist (2002 - 2006)**

Skills & Experience

- Matrix-managed North American ALMA Software Support team whose activities included: research & prototyping algorithms for radio astronomical calibration and imaging, leading to formal software requirements; requirements management; coordinating & conducting validation testing of CASA and the pipeline. Team comprised up to 9 members, mostly astronomers, ranging from recent college graduates to tenured senior scientists.
- Managed two successful, geographically distributed, interdisciplinary instrument development projects. Two day formal project management training workshop in 2007.
- Extensive experience commissioning radio telescopes & instrumentation (ALMA, CBI, OVRO 1.5-m, OVRO 40-m, and on GBT: Ka band receiver+CCB, MUSTANG). Observing Experience: single-dish radio (OVRO 5m/40m/1.5m; GBT); aperture synthesis (Cosmic Background Imager; VLA; ALMA); x-ray imaging & spectroscopy (ROSAT, Chandra).
- Significant programming experience in IDL, C, python & MATLAB, and with version control (CVS & SVN). Extensive experience with CASA.
- Developed data analysis algorithms for new instrumentation on the Green Bank Telescope; implemented & maintained user calibration & data analysis package. Extensive practical experience with fourier methods, analysis of time series, numerical linear algebra, robust estimation, statistics, and Bayesian maximum likelihood.
- Lab experience characterizing radio receivers, digital backends, and SQUID-multiplexed bolometer arrays.

Teaching Experience

- Informal Technical Lectures to NAASC Data Analysts
- Mentoring of graduate students (4), undergrads (4), and teachers (1) at NRAO
- Lecturer, NRAO Synthesis Imaging Summer School
- Lecturer, NRAO/NAIC Single Dish Summer School
- Governor's School Mentor (NRAO-GB summer program)
- Honors Introductory Physics – ran lab session which introduced a new curriculum employing a computerized data acquisition and analysis system
- Introductory Astronomy – TA duties included grading, running problem sessions.
- Introductory Physics – run and grade lab sessions.
- Individual tutoring (Intro. Physics, Calculus)

Selected Colloquia, Conference Presentations & Public Talks

May 1999	AAS Chicago (thesis talk)
November 1999	Berkeley Astronomy Dept. Colloquium
December 1999	Caltech Astronomy Dept. Tea Talk

June 2000	Marcel Grossman Conference on General Relativity & Cosmology (Rome)
December 2000	Texas Symposium on Relativistic Astrophysics
May 2001	NRAO Charlottesville & Green Bank colloquia
January 2002	Washington DC AAS
March & April 2002	<ul style="list-style-type: none"> -Rencontres de Moriond (conference presentation) -MPE Garching (colloquium) -MPIfR Bonn (colloquium) -Oxford (colloquium)
April 2003	Vancouver BC "Millimeter Wave Mapping Workshop"
May 2003	Nashville TN AAS
June 2003	Mykonos Multi-wavelength Cosmology
September 2003	GBT High Frequency Science Workshop (Green Bank, WV)
January 2004	URSI (Boulder)
October 2004	Appearance on WVMR's "Mountain Radio Astronomy" (local radio program)
March 2005	Ohio University (Invited Seminar)
March 2006	NRAO CV (Invited Colloquium)
November 2006	University of Chicago (Invited Colloquium)
June 2007	NRAO 50th Anniversary Symposium (Two Posters)
June 2007	Inaugural INSACAF meeting, Manchester UK
January 2008	Aspen Cosmology Workshop
July 2008	Cosmic Microwave Foregrounds and Backgrounds, Pasadena CA (Invited Talk)
August 2008	URSI-GA, Chicago
November 2008	UPenn astro seminar
January 2009	URSI
March 2009	Saint Mary's University (invited colloquium)
April 2009	SZ Cluster Cosmology Workshop (Perimeter Institute)
May 2009	Millimeter and Sub-Millimeter Astronomy at High Resolution (ASIAA, Taipei Taiwan)
September 2009	Virginia Amateur Astronomical Society/Charlottesville Astronomical Society
September 2009	ALMA NAASC Workshop IV (Charlottesville, VA)
October 2009	ALMA Band 1 Workshop (Manchester, UK)
October 2009	Invited Colloquium (Socorro, NM)
June 2010	CLJ2010 + 0628 Galaxy Cluster Meeting (IPMU, Kashiwa, Japan)
July 2010	Chautauqua Lecture (small college teachers)
December 2010	WVU Physics Dept. Colloquium (invited)
Feb 2011	U.T. Austin (invited colloquium)
May 2011	Caltech (invited colloquium)
September 2011	SZ/X Huntsville (invited presentation)
June 2012	AAS (Contributed Talk / Special Session Organizer)
August 2014	Colloquium (Joint ALMA Office, Santiago)
March 2015	Snowcluster (invited presentation)
September 2015	GBT High Frequency Science Workshop (invited presentation)
January 2016	Next Generation VLA Workshop (AAS, invited presentation)
January 2017	NGVLA Poster (invited, AAS)
January 2017	ALMA Band 1 Science Workshop (invited presentation, Taipei Taiwan)
October 2018	ESO Intra-cluster Medium workshop (invited presentation, Garching, Germany)

Committee & Other Service Activities

- NRAO Algorithms Research & Development Group Steering Committee (2018-)
- GBO Laser Metrology Advisory Committee (2018-)
- NRAO Science Review Panel recruiter (2017-)
- NRAO Science Performance Review Committee (2017-)
- Search & Recruitment Committees: SRDP Operations Manager (2018); NAASC multi-position scientist search (2016, **chair**); GB Scientist (2015); Head of GBT Science Operations (2008); GBT Project Manager (2007)
- North American ALMA Science Center: CASA testing; face to face visitor support; expert helpdesk support.
- NASA Technical, Management & Cost review committee (2016; 2 weeks' paid consulting position)
- NASA Proposal & Fellowship Review Panels (2007, 2009, 2014, 2015, 2018)
- GBT High Frequency Science Workshop SOC (2015)
- VLA Sky Survey (2014, scientific reviewer)
- NRAO/NAIC Single Dish Summer School (SOC, lecturer, hands-on project leader) - 2003 (SOC), 2007/2009/2011/2013/2015 (lecturer, student project lead)
- NRAO Synthesis Imaging Summer School (invited lecturer, 2014, 2016)
- Promotion Reviews (South African NRF & ESO, 2014)
- NSF Panel Review (January 2013)
- Arecibo observing proposal review panel (2012-2014)
- “Future & High Angular Resolution SZE” Special Session organizer, June 2012 AAS (Anchorage, AK)
- Governor’s School Mentor (2009, 2010, 2012, 2013)
- UVa Astronomy Graduate Admissions Committee (Spring 2007)
- NRAO-GB Strategic Planning & Process Improvement Committee (2007)
- Organized “GBT High Frequency Workshop” in September of 2003, which drew 50 participants from across the US (Chair of SOC).
- NRAO-GB Safety Committee June 2002-December 2006
- Refereeing Services for ApJ, MNRAS, Advances in Astronomy, Arecibo Observatory, GMRT, & the Netherlands Organization for Scientific Research

Students Supervised & Mentored

- Ryan Parziale (REU, 2018)
- Sara Stanchfield (UPenn grad student, 2014-)
- Charles Romero (UVA Ph.D. Student, primary thesis advisor 2009-2015; postdoc at IRAM -*&* U.Penn)

- Paul Ries (UVa Ph.D. Student, 2008-2012)
- Alex Young (UPen Grad student, 2010-2015)
- Larry Weintraub (Caltech Ph.D. candidate and GBT student, Dec 2005- Dec 2008)
- Phillip Korngut (NRAO Scientific Associate on the MUSTANG project, July 2005-2007; subsequently UPenn grad. student)
- Bang Nhan (UCSB → Boulder, Summer 2010)
- Vincent Pereira (RET, Summer 2005)
- Cristobal Achermann (Graduate Student Intern, June - Nov 2004)
- Regina Flores (REU student, Summer 2003)

Full Bibliography

Refereed Papers (18 first or second author; $h = 29$, $i_{10} = 54$)

1. “Confirmation of Enhanced Long Wavelength Dust Emission in OMC 2/3”, **B. Mason**, S. Dicker, S. Sadavoy, S. Stanchfield, T. Mroczkowski, C. Romero, R. Friesen, C. Sarazin, J. Sievers, T. Stanke, M. Devlin (*submitted to ApJ*, arXiv:1905.05221).
2. “Direct detection of quasar feedback via the Sunyaev-Zeldovich effect”, M. Lacy, **B. Mason**, C. Sarazin, S. Chatterjee, K. Nyland, A. Kimball, G. Rocha, B. Rowe, J. Surace 2018, MNRAS 283, L22
3. “The Next-Generation Very Large Array: a technical overview”, R. Selina, E. Murphy, M. McKinnon, A. Beasley, B. Butler, C. Carilli, B. Clark, A. Erickson, W. Grammer, J. Jackson, B. Kent, **B. Mason**, M. Morgan, O. Ojeda, W. Shillue, S. Sturgis, D. Urban 2018, Proc. SPIE 10700.
4. “Anomalous microwave emission from spinning nanodiamonds around stars”, J. Greaves, A. Scaife, D. Frayer, D. Green, **B. Mason**, A. Smith 2018, Nature Astronomy 2, 662.
5. “Galaxy Cluster Pressure Profiles as Determined by Sunyaev Zel’dovich Effect Observations with MUSTANG and Bolocam II: Joint Analysis of Fourteen Clusters”, Charles Romero, **Brian Mason**, Jack Sayers, Tony Mroczkowski, Craig Sarazin, Megan Donahue, Alessandro Baldi, Tracy E. Clarke, Alexander Young, Jonathan Sievers, Simon Dicker, Erik Reese, Nicole Czakon, Mark Devlin, Phillip Korngut, Sunil Golwala 2017, ApJ 838, 86 (arXiv:1608.03980)
6. “Frontier Fields Clusters: Deep Chandra Observations of the Complex Merger MACS J1149.6+2223” G. A. Ogle, R. J. van Weeren, C. Jones, W. Forman, W. A. Dawson, N. Golovich, F. Andrade-Santos, S. S. Murray, P. Nulsen, E. Roediger, A. Zitrin, E. Bulbul, R. Kraft, A. Goulding, K. Umetsu, T. Mroczkowski, A. Bonafede, S. Randall, J. Sayers, E. Churazov, L. David, J. Merten, M. Donahue, **B. Mason**, P. Rosati, A. Vikhlinin, H. Ebeling 2016, ApJ 813, 113
7. “Dust emissivity in the star-forming filament OMC 2/3” S. I. Sadavoy, A. M. Stutz, S. Schnee, **B. S. Mason**, J. Di Francesco, R. K. Friesen 2016, A&A 588, A30
8. “Development of a Microwave SQUID-Multiplexed TES Array for MUSTANG-2” S. Stanchfield, P. Ade, J. Aguirre, J. Brevik, H. Cho, R. Datta, M. Devlin, S. Dicker, B. Dober, D. Egan, P. Ford, G. Hilton, J. Hubmayer, K. Irwin, P. Marganian, **B. Mason**, J. Mates, J. McMahon, M. Mello, T. Mroczkowski, C. Romero, C. Tucker, L. Vale, S. White, M. Whitehead, A. Young 2016, JLTP 184, 460.
9. “The Discovery of Lensed Radio and X-Ray Sources behind the Frontier Fields Cluster MACS J0717.5+3745 with the JVLA and Chandra” R. J. van Weeren, G. A. Ogle, C. Jones, W. R. Forman, F. Andrade-Santos, A. Bonafede, M. Brüggen, E. Bulbul, T. E. Clarke, E. Churazov, L. David, W. A. Dawson, M. Donahue, A. Goulding, R. P. Kraft, **B. Mason**, J. Merten, T. Mroczkowski, S. S. Murray, P. E. J. Nulsen, P. Rosati, E. Roediger, S. W. Randall, J. Sayers, K. Umetsu, A. Vikhlinin, A. Zitrin 2016, ApJ 817, 98
10. “Detailed study of the microwave emission of the supernova remnant 3C 396” A. Cruciani, E. Battistelli, E. Carretti, P. de Bernardis, R. Genova-Santos, S. Masi, **B. Mason**, D. Perera, F. Piacentini, B. Reach, J. Rubino-Martin 2016, MNRAS 459, 4224
11. “Frontier Fields Clusters: Chandra and JVLA View of the Pre-Merging Cluster MACS J0416.1-2403” G. Ogle, R. van Weeren, C. Jones, T. Clarke, J. Sayers, A. Mroczkowski, P.E.J. Nulsen, W. Forman, S. Murray, M. Pandey-Pommier, S. Randall, E. Churazov, A. Bonafede, R. Kraft, L. David, F. Andrade-Santos, J. Merten, A. Zitrin, K. Umetsu, A. Goulding, E. Roediger, J. Bagchi, E. Bulbul, M. Donahue, H. Ebeling, M. Johnston-Hollitt, **B. Mason**, P. Rosati, & A. Vikhlinin 2015, ApJ 812, 153.

12. "The 2014 ALMA Long Baseline Campaign: An Overview", by The ALMA Partnership (E. Fomalont et al.), 2015, ApJ 808, L1.
13. "Galaxy Cluster Pressure Profiles, as Determined by Sunyaev-Zeldovich Effect Observations with MUSTANG and Bolocam. I. Joint Analysis Technique" C. Romero, **B. Mason**, J. Sayers, A. Young, A. Mroczkowski, T. Clarke, C. Sarazin, J. Sievers, S. Dicker, E. Reese, N. Czakon, M. Devlin, P. Korngut, & S. Golwala 2015, ApJ 807, 121
14. "Measurements of the Sunyaev-Zel'dovich Effect in MACS J0647.7+7015 and MACS J1206.2-0847 at High Angular Resolution with MUSTANG" A. Young, A. Mroczkowski, C. Romero, J. Sayers, I. Balestra, T. Clarke, N. Czakon, M. Devlin, S. Dicker, C. Ferrari, M. Girardi, S. Golwala, H. Intema, P. Korngut, **B. Mason**, A. Mercurio, M. Nonio, E. Reese, P. Rosati, C. Sarazin & K. Umetsu 2015, ApJ 809, 185
15. "Evidence for large grains in the star-forming filament OMC 2/3" S. Schnee, **B. Mason**, J. Di Francesco, R. Friesen, D. Li, S. Sadavoy, T. Stanke 2014, MNRAS 444, 2303.
16. "The Dearth of Neutral Hydrogen in Galactic Dwarf Spheroidal Galaxies" K. Spekkens, N. Urbancic, **B. Mason**, B. Willman, & J. Aguirre 2014, ApJ 795, L5.
17. "Bounds on Dark Matter Properties from Radio Observations of Ursa Major II using the Green Bank Telescope", A. Natarajan, J. Peterson, T. Voytek, K. Spekkens, **B. Mason**, J. Aguirre, B. Willman 2013, Phys.Rev.D 88, 8
18. "A Deep Search for Extended Radio Continuum Emission from Dwarf Spheroidal Galaxies: Implications for Particle Dark Matter" K. Spekkens, **B. Mason**, J. Aguirre, & B. Nhan 2013 ApJ 773, 61.
19. "Constraints on Free-Free Emission from Anomalous Microwave Emission Sources in the Perseus Molecular Cloud" CT Tibbs, R Paladini, C Dickinson, **B.S. Mason**, S Casassus, K Cleary, RD Davies, RJ Davis, RA Watson, 2013 ApJ 770, 122.
20. "The Star Formation in Radio Survey: GBT 33 GHz Observations of Nearby Galaxy Nuclei and Extranuclear Star-forming Regions" E.J. Murphy, J. Bremsseth, **B.S. Mason**, J.J. Condon, E. Schinnerer, G. Aniano, L. Armus, G. Helou, J.L. Turner, & T.H Jarret, 2012 ApJ 761, 2
21. "The First Hyper-luminous Infrared Galaxy Discovered by WISE" P.R.M. Eisenhardt et al. 2012 ApJ 755, 2
22. "A Multi-Wavelength Study of the Sunyaev-Zel'dovich Effect in the Triple-Merger Cluster MACSJ0717.5+3745 with MUSTANG and BOLOCAM" T. Mroczkowski, S. Dicker, J. Sayers, E.D. Reese, **B. Mason**, N. Czakon, C. Romero, A. Young, M.J. Devlin, S. Golwala, P. Korngut, C. Sarazin, J.J. Bock, P.M. Koch, Kai-Yang Lin, S.M. Molnar, E. Pierpaoli, K. Umetsu, M. Zemcov, 2012 ApJ 761, 47.
23. "Confirming the Primarily Smooth Structure of the Vega Debris Disk at Millimeter Wavelengths" A.M Hughes, D.J. Wilner, **B. Mason**, J.M. Carpenter, R. Plambeck, H-F. Chiang, S.M Andrews, J.P. Williams, A. Hales, K. Su, E. Chiang, S.R. Dicker, P. Korngut, M.J. Devlin, 2012 ApJ 750, 1
24. "Debris Discs at Centimetre Wavelengths: Planetesimal Populations in Young Extrasolar Kuiper Belts" J.S. Greaves, A.S. Hales, **B.S. Mason**, B.C. Matthews 2012 MNRAS 423, L70
25. "Discovery of the Correspondence between intra-cluster Radio Emission and a High Pressure Region detected through the Sunyaev-Zel'dovich Effect" C. Ferrari, H.T. Intema, E. Orru, F. Govoni, M. Murgia, **B. Mason**, H. Bourdin, K.M Asad, P. Mazzotta, M.W. Wise, T. Mroczkowski, J.H. Croston 2011 A&A 534, L12

26. "The Cosmic Background Imager 2" A.C. Taylor, M.E. Jones, J.R. Allison, E. Angelakis, J.R. Bond, L. Bronfman, R. Bustos, R.J. Davis, C.Dickinson, J. Leech, **B.S. Mason**, S.T. Myers, T.J. Pearson, A.C.S. Readhead, R. Reeves, M.C. Shepherd, J.L. Sievers 2011 MNRAS 418, 2720
27. "Holographic Measurement and Improvement of the Green Bank Telescope Surface" T.R. Hunter, F.R. Schwab, S.D. White, J.M. FOrd, F.D. Ghigo, R.J. Maddalena, **B.S. Mason**, J.D. Nelson, R.M. Prestage, J. Ray, P. Ries, R. Simon, S. Srikanth 2011 PASP 123, 1087
28. "Field Scanner Design for MUSTANG of the Green Bank Telescope" J. Cheng, Y. Li, X. Li, **B. Mason** 2011 Science China 54, 2091.
29. "The Radio-2mm Spectral Index of the Crab Nebula Measured with GISMO" R.G. Arendt, J.V. George, J.G. Staguhn, D.J. Benford, S.R. Dicker, D.J. Fixsen, K.D. Irwin, C.A. Jhabvala, P.M. Korngut, A. Kovacs, S.F. Maher, **B.S. Mason**, T.M. Miller, S.H. Moseley, S. Navarro, A. Sievers, J.L. Sievers, E. Sharp, E.J. Wollack 2011 734, 54.
30. "Measuring and Correcting Wind-Induced Pointing Errors of the Green Bank Telescope Using an Optical QUadrant Detector" P. Ries, T.R. Hunter, K.T. Constantikes, J.J. Brandt, F.D. Ghigo, **B.S. Mason**, R. Prestage, J. Ray, F.R. Schwab 2011 PASP 123, 682
31. "High Resolution Sunyaev-Zel'dovich Effect Imaging in the Cores of Four Galaxy Clusters", P. Korngut, S. Dicker, E. Reese, **B. Mason**, M. Devlin, T. Mroczowski, C. Sarazin, & M. Sun 2011 ApJ 734, 10.
32. "MUSTANG 3.3 Millimeter Continuum Observations of Class 0 Protostars", Y. Shirley, **B. Mason**, J. Mangum, D. Bolin, M. Devlin, S. Dicker, & P. Korngut, 2011 AJ 141, 39
33. "Implications of a High Angular Resolution Image of the Sunyaev-Zel'dovich Effect in RXJ1347-1145" **B.S. Mason**, S.R. Dicker, P.M. Korngut, M.J. Devlin, W.D. Cotton, P.M. Koch, S.M. Molnar, J.L. Sievers, J.E. Aguirre, D. Benford, J.G. Staguhn, H. Moseley, K.D. Irwin, P.A.R. Ade 2010 ApJ 716, 739.
34. "The Detection of Anomalous Dust Emission in the Nearby Galaxy NGC 6946", E.J. Murphy, G. Helou, J.J. Condon, E. Schinnerer, J.L. Turner, R. Beck, **B.S. Mason**, R.R. Chary, & L. Armus, 2010 ApJ 709, L108.
35. "A 31 GHz Survey of Low-Frequency Selected Radio Sources" **B.S. Mason**, L. Weintraub, J. Sievers, J.R. Bond, S.T. Myers, T.J. Pearson, A.C.S. Readhead, M.C. Shepherd, 2009 ApJ 704, 1433.
36. "Observations of M87 and Hydra A at 90 GHz", W.D. Cotton, **B.S. Mason**, S. Dicker, P.Korngut, M. Devlin, J.Aguirre, D. Benford, H. Moseley, J. Staguhn, K. Irwin, & P. Ade, 2009 ApJ 701, 1872
37. "90 GHz and 150 GHz Observations of the Orion M42 Region: A Sub-Millimeter to Radio Analysis", S.R. Dicker, **B.S. Mason**, P.M. Korngut, W.D. Cotton, M. Compiégne, M.J. Devlin, P.G. Martin, P.A.R. Ade, D.J. Benford, K.D. Irwin, R.J. Maddalena, J.P. McMullin, D.S. Shepherd, J.G. Staguhn, and C. Tucker, 2009 ApJ 705, 226
38. "A Limit on the Polarization of Anomalous Microwave Emission in Lynds 1622", **B.S. Mason**, T. Robishaw, D. Finkbeiner, C. Heiles, & C. Dickinson 2009, ApJ v697, 1187
39. "Anomalous Microwave Emission from the HII region RCW175", C. Dickinson, R.D. Davies, J.R. Allison, J.R. Bond, S. Casassus, K. Cleary, R.J. Davis, M.E. Jones, **B.S. Mason**, S.T. Myers, T.J. Pearson, A.C.S. Readhead, J.L. Sievers, A.C. Taylor, M. Todorovic, G. White, P.N. Wilkinson, 2009 ApJ 690, 1585.

40. "Implications of the Cosmic Background Imager Polarization Data", J.L. Sievers, C. Achermann, J.R. Bond, L. Bronfman, R. Bustos, C.R. Contaldi, C. Dickinson, P.G. Ferriera, M.E. Jones, A.M. Lewis, **B.S. Mason**, J. May, S.T. Myers, S. Padin, T.J. Pearson, M. Pospieszalski, A.C.S. Readhead, R. Reeves, A.C. Taylor, S. Torres, 2007 ApJ 660, 976.
41. "Interferometric Polarimetry of the CMB: Methodology", S.T. Myers, J.L. Sievers, J.R. Bond, C.R. Contaldi, **B.S. Mason**, T.J. Pearson, A.C.S. Readhead, 2006, New Astronomy Reviews v.50, p.951.
42. "CMB observations from the CBI and VSA: A comparison of coincident maps and parameter estimation methods", N. Rajguru et al., 2005 MNRAS, v363 p.1125.
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