

## BRIAN S. MASON

Born 22 February 1972, Richmond, Virginia

Citizenship: US

### Address:

Brian S. Mason  
520 Edgemont Rd  
Charlottesville, VA 22902

### Contact Info:

Phone: +1(434)244-6831  
Fax: +1(434)296-0278  
email: [bmason@nrao.edu](mailto:bmason@nrao.edu)

### Employment:

2006– Associate Scientist, National Radio Astronomy Observatory (Charlottesville)  
2004–2006 Associate Scientist, National Radio Astronomy Observatory (Green Bank)  
2002–2004 Assistant Scientist, 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
- Measurements of CMB anisotropies in intensity and polarization
- CMB Foregrounds (discrete source & otherwise, in intensity & polarization)
- Instrument Development
- Astronomical Imaging Algorithms

### Selected Publications:

1. “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 (<http://adsabs.harvard.edu/abs/2009ApJ...697.1187M>)
2. “A 31 GHz Survey of Low-Frequency Selected Radio Sources” B.S. Mason, *et al.*, *submitted to ApJ*. (<http://adsabs.harvard.edu/abs/2009arXiv0901.4330M>)
3. “Cosmological Results from Five Years of 30 GHz CMB Intensity Measurements with the Cosmic Background Imager”, J. Sievers, B.S. Mason, *et al.*, *submitted to ApJ* (<http://adsabs.harvard.edu/abs/2009arXiv0901.4540S>)

4. “Observations of M87 and Hydra A at 90 GHz”, W.D. Cotton, B.S. Mason, *et al.* *ApJ in press.* (<http://adsabs.harvard.edu/abs/2009arXiv0902.3149C>)
5. “Extended Mosaic Observations with the Cosmic Background Imager”, A.C.S. Readhead, B.S. Mason, *et al.*, 2004 *ApJ* v.609 p.498. (*more than 250 citations* – <http://adsabs.harvard.edu/abs/2004ApJ...609..498R>)
6. “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. (*more than 270 citations* – <http://adsabs.harvard.edu/abs/2003ApJ...591..540M>)

### Observatory Service:

- **Project Manager/Project Scientist, Penn Array Receiver** – develop and document scientific requirements for the hardware and software; coordinate the contributions of NRAO personnel with the contributions of the university instrument teams; coordinate local software development; simulate bolometer array data & work on prototype analysis software package; acquire and analyze commissioning data; document results. Conduct early science observations for external observers and analyze data.
- **Project Manager/Project Scientist, Caltech Continuum Backend** – similar responsibilities as above plus supporting external observers in routine observing and data analysis.
- **Project Scientist, 1cm Receiver & Millimeter IF Converter projects** – develop and document scientific requirements for hardware and software, coordinate software development, acquire and analyze commissioning data; document results. (2002 - 2006)
- **GBT High Frequency Project Scientist** – review science cases for new instrumentation; consult with antenna and instrumentation teams on priorities and requirements, and perform supportin analysis. Develop and characterize new observing methods. (2002 - 2006)

### Selected Conference Presentations & Other 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 & Greenbank colloquia
January 2002	Washington DC AAS
March & April 2002	–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
January 2009	AAS
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)

### **Committee & Other Service Activities**

- 2009 Single Dish Summer School (SOC, lecturer, hands-on project leader)
- Search committee, head of GBT science operations (2008)
- NASA Astrophysics Theory Grants Review Panel (September 2007)
- Member, INSCAF Science Working Group (CMB Polarization Foregrounds)
- Single-Dish Summer School (2007); Invited Lecture and Hands-on Project Co-lead
- UVa Astronomy Graduate Admissions Committee (Spring 2007)
- NRAO-GB PM Search Committee (Spring and Fall 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/NAIC 2003 Single Dish Summer School SOC; assisted with operation.
- NRAO-GB Safety Committee June 2002-December 2006
- Refereeing Services for ApJ & MNRAS

## Students Supervised

- Regina Flores (REU student, Summer 2003)
- Cristobal Achermann (Graduate Student Intern, June - Nov 2004)
- Vincent Pereira (RET, Summer 2005)
- Phillip Korngut (NRAO Scientific Associate on the MUSTANG project, July 2005-)
- Larry Weintraub (Caltech Ph.D. candidate and GBT student, Dec 2005- Dec 2008)
- Paul Ries (UVa Ph.D. Student, 2008-)

**Professional Society Memberships:** American Astronomical Society; American Association for the Advancement of Science; American Physical Society; URSI.

## Full Bibliography (*note: \* indicates new since 2007*)

### Refereed Papers

1. \* “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
2. \* “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, *ApJ in press*.
3. \* “Cosmological Results from Five Years of 30 GHz CMB Intensity Measurements with the Cosmic Background Imager”, J. Sievers, **B.S. Mason**, L. Weintraub, C. Achermann, P. Altamirano, J.R. Bond, L. Bronfman, R. Bustos, C. Contaldi, C. Dickinson, M.E. Jones, J. May, S.T. Myers, N. Oyarce, S. Padin, T.J. Pearson, M. Pospieszalski, A.C.S. Readhead, R. Reeves, M.C. Shepherd, A.C. Taylor, S. Torres, *submitted to ApJ*.
4. \* “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, *ApJ in Press*.
5. \* “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. Compiègne, 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, *submitted to ApJ*.
6. \* “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.
7. “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. Ferreira, 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.

8. "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.
9. "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.
10. "Polarization Observations with the Cosmic Background Imager", A. C. S. Readhead, S. T. Myers, T. J. Pearson, J. L. Sievers, **B. S. Mason**, C. R. Contaldi, J. R. Bond, R. Bustos, P. Altamirano, C. Achermann, L. Bronfman, J. E. Carlstrom, J. K. Cartwright, S. Casassus, C. Dickinson, W. L. Holzapfel, J. M. Kovac, E. M. Leitch, J. May, S. Padin, D. Pogoyan, M. Pospieszalski, C. Pryke, R. Reeves, M. C. Shepherd, S. Torres, 2004 *Science*, v306, pp 836-844.
11. "The Radio Source Population at High Frequency: follow-up of the 15 GHz 9C survey", R.C.Bolton, G.Cotter, G.G.Pooley, J.M.Riley, E.M.Waldram, C.J. Chandler,**B.S. Mason**, T.J. Pearson, A.C.S. Readhead, 2004 *MNRAS* 354 485.
12. "Vela X at 31 GHz", A. S. Hales, S. Casassus, H. Alvarez, J. May, L. Bronfman, A. C. Readhead, T. J. Pearson, **B. S. Mason**, R. Dodson, 2004 *ApJ* 613, 977.
13. "Extended Mosaic Observations with the Cosmic Background Imager", A.C.S. Readhead, **B.S. Mason**, C. Contaldi, T. J. Pearson, J. R. Bond, S. T. Myers, S. Padin, J. L. Sievers, J. K. Cartwright, M. C. Shepherd, D. Pogoyan, S. Prunet, P. Altamirano, R. Bustos, L. Bronfman, S. Casassus, W. L. Holzapfel, J. May, U.-L. Pen, S. Torres, & P. S. Udomprasert, 2004 *ApJ* v.609 p.498.
14. "An Unbiased Measurement of  $H_0$  through Cosmic Background Imager Observations of the Sunyaev-Zel'dovich Effect in Nearby Galaxy Clusters", P.S. Udomprasert, **B.S. Mason**, A.C.S. Readhead, & T.J. Pearson, 2004 *ApJ* v.615 p.63.
15. "The Anisotropy of the Microwave Background to  $l = 3500$ : Deep Field Observations with the Cosmic Background Imager", **B.S. Mason**, T. J. Pearson, A. C. S. Readhead, M. C. Shepherd, J. L. Sievers, P. S. Udomprasert, J. K. Cartwright, A. J. Farmer, S. Padin, S. T. Myers, J. R. Bond, C. R. Contaldi, U.-L. Pen, S. Prunet, D. Pogoyan, J. E. Carlstrom, J. Kovac, E. M. Leitch, C. Pryke, N. W. Halverson, W. L. Holzapfel, P. Altamirano, L. Bronfman, S. Casassus, J. May, & M. Joy, 2003, *ApJ* 591, 540.
16. "The Anisotropy of the Microwave Background to  $l = 3500$ : Mosaic Observations with the Cosmic Background Imager", T. J. Pearson,**B. S. Mason**, A. C. S. Readhead, M. C. Shepherd, J. L. Sievers, P. S. Udomprasert, J. K. Cartwright, A. J. Farmer, S. Padin, S. T. Myers, J. R. Bond, C. R. Contaldi, U.-L. Pen, S. Prunet, D. Pogoyan, J. E. Carlstrom, J. Kovac, E. M. Leitch, C. Pryke, N. W. Halverson, W. L. Holzapfel, P. Altamirano, L. Bronfman, S. Casassus, J. May, & M. Joy, 2003, *ApJ* 591, 556.
17. "Cosmological Parameters from Cosmic Background Imager Observations and Comparisons with BOOMERANG, DASI, and MAXIMA", J. L. Sievers, J. R. Bond, J. K. Cartwright, C. R. Contaldi, **B. S. Mason**, S. T. Myers, S. Padin, T. J. Pearson, U.-L. Pen, D. Pogoyan, S. Prunet, A. C. S. Readhead, M. C. Shepherd, P. S. Udomprasert, L. Bronfman, W. L. Holzapfel, J. May, 2003, *ApJ* 591, 599.

18. “A Fast Gridded Method for the Estimation of the Power Spectrum of the Cosmic Microwave Background from Interferometer Data with Application to the Cosmic Background Imager”, S. T. Myers, C. R. Contaldi, J. R. Bond, U.-L. Pen, D. Pogosyan, S. Prunet, J. L. Sievers, **B. S. Mason**, T. J. Pearson, A. C. S. Readhead, & M. C. Shepherd, 2003, ApJ 591, 575.
19. “The Sunyaev-Zeldovich effect in CMB-calibrated theories applied to the Cosmic Background Imager anisotropy power at  $l > 2000$ ”, J. R. Bond, C. R. Contaldi, U.-L. Pen, D. Pogosyan, S. Prunet, M. I. Ruetalo, J. W. Wadsley, P. Zhang, **B. S. Mason**, S. T. Myers, T. J. Pearson, A. C. S. Readhead, J. L. Sievers, P. S. Udomprasert, ApJ v.626 p.12
20. “The Cosmic Background Imager”, S. Padin, M.C. Shepherd, J.K. Cartwright, R.G. Keeney, **B.S. Mason**, T.J. Pearson, A.C.S. Readhead, W.A. Schaal, J. Sievers, P.S. Udomprasert, J.K. Yamasaki, W.L. Holzappel, J.E. Carlstrom, M. Joy, S.T. Myers, & A. Otarola, 2002, PASP 114, 83.
21. “DASI First Results: A Measurement of the Cosmic Microwave Background Angular Power Spectrum” N. W. Halverson , E. M. Leitch , C. Pryke , J. Kovac , J. E. Carlstrom , W. L. Holzappel , M. Dragovan , J. K. Cartwright , **B. S. Mason** , S. Padin , T. J. Pearson , M. C. Shepherd , & A. C. S. Readhead, 2002, ApJ 568, 38.
22. “ Experiment Design and First Season Observations with the Degree Angular Scale Interferometer” E. M. Leitch , C. Pryke , N. W. Halverson , J. Kovac , G. Davidson , S. LaRoque , E. Schartman , J. Yamasaki , J. E. Carlstrom , W. L. Holzappel , M. Dragovan , J. K. Cartwright , **B. S. Mason** , S. Padin , T. J. Pearson , M. C. Shepherd , & A. C. S. Readhead, 2002, ApJ 568, 28.
23. “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.
24. “First Intrinsic Anisotropy Observations with the Cosmic Background Imager,” S. Padin, J.K. Cartwright, **B.S. Mason**, T.J. Pearson, A.C.S. Readhead, M.C. Shepherd, J. Sievers, P.S. Udomprasert, W.L. Holzappel, S.T. Myers, J.E. Carlstrom, E.M. Leitch, M. Joy, L. Bronfman & J. May, 2001, ApJ 549, L1.
25. “The Bright Gamma-Ray Burst 991208 - Tight Constraints on Afterglow Models from Observations of the Early-Time Radio Evolution,” T. J. Galama, M. Bremer, F. Bertoldi, K.M. Menten, U. Lisenfeld, D. S. Shepherd, **B. Mason**, F. Walter, G. G. Pooley, D. A. Frail, R. Sari, S. R. Kulkarni, E. Berger, J.S. Bloom, A. J. Castro-Tirado, & J. Granot 2000, ApJ 541, L45.
26. “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.
27. “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.

**Conference Proceedings, Internal Memos, and other Publications:**

28. \* “Understanding the State of the Intracluster Medium in Galaxy Clusters”, S. Golwala *et al.*, science white paper submitted to ASTRO2010 (contributing author)

29. \* “Superconducting Detector Arrays for Far-Infrared to mm-Wave Astrophysics”, J. Bock *et al.*, technology development white paper submitted to ASTRO2010 (co-signing author)
30. \* “Comets to Clusters: Wide-field Multi-pixel Camera Development for the GBT”, K. O’neil *et al.*, Program/RFI Paper for ASTRO2010 (contributing author)
31. \* “Ka-band/CCB Instrument Calibration”, B. Mason, GBT Memo 261 (2009)
32. \* “MUSTANG: 90 GHz science with the Green Bank Telescope”, S. R. Dicker, P. M. Korngut, **B. S. Mason**, P.A.R. Ade, J. Aguirre, T.J. Ames, D. J. Benford, T. C. Chen, J. A. Chervenak, W. D. Cotton, M. J. Devlin, E. Figueroa-Feliciano, K. D. Irwin, S. Maher, M. Mello, S. H. Moseley, D. J. Tally, C. Tucker, S.D. White 2008, in *Millimeter and Submillimeter Detectors and Instrumentation for Astronomy IV*, eds. W.D. Duncan, W.S. Holland, S. Withington, & J. Zmuidzinas, Proc. SPIE v.7020, p.702005.
33. \* “MUSTANG FITS file Format”, B. Mason & P. Marganian, GBT Software Project Note 29.1 (2008)
34. “Pseudo-Continuum Polarimetry with the GBT”, B. Mason, GBT Memo 253 (2007)
35. “Mustang Fall 2006 Engineering Run Results”, B. Mason, S. Dicker, P. Korngut, J. Aguirre. GBT Memo 252 (2007)
36. “A 90-GHz Bolometer Array for the Green Bank Telescope”, Dicker, S. R.; Abrahams, J. A.; Ade, P. A. R.; Ames, T. J.; Benford, D. J.; Chen, T. C.; Chervenak, J. A.; Devlin, M. J.; Irwin, K. D.; Korngut, P. M.; Maher, S.; Mason, B. S.; Mello, M.; Moseley, S. H.; Norrod, R. D.; Shafer, R. A.; Staguhn, J. G.; Talley, D. J.; Tucker, C.; Werner, B. A.; White, S. D. in *Proceedings of the SPIE*, v.6275, p.62751B (2006)
37. “New Results and Current Work with the Cosmic Background Imager”, B.S. Mason et al., in *Proceedings of the Mykonos Conference on Multiwavelength Cosmology* (2004)
38. “A 90-GHz Array for Use on the Green Bank Telescope”, S. Dicker, P. Ade, D. Benford, M. Devlin, K. Irwin, P. Jewell, B. Mason, S. Moseley, M. Supanich, and C. Tucker, in *Proceedings of the SPIE* v.5489 p.1221 (2004)
39. “Implementation and Analysis of Test Data for new GBT scan patterns”, B.S. Mason, NRAO Internal Memo (PTCS Project Note 34.1, 2004)
40. “New Scan Patterns for the GBT”, B.S. Mason, NRAO Internal Memo (PTCS Project Note 33.1 2003)
41. “New Results & Current Work with the CBI”, B.S. Mason et al., in *Proceedings of the Mykonos Conference on Multiwavelength Cosmology* (2003).
42. “Science with Bolometer Arrays on the GBT”, B.S. Mason, NRAO Internal Memo (June 2003 – GBT Memo 251).
43. “Correlation Radiometer Observing Modes & Calibration”, B.S. Mason, NRAO Internal Memo (August 2002).

44. “CMB observations with the Cosmic Background Imager (CBI) Interferometer”, C.R.Contaldi, J.R.Bond, D.Pogosyan, B.S.Mason, S.T.Myers, T.J.Pearson, U.L.Pen, S.Prunet, A.C.Readhead, M.I.Ruetalo, J.L.Sievers, J.W.Wadsley, P.J.Zhang, to appear in *Proceedings of the XVIII IAP Colloquium ‘On the nature of dark energy’, Paris, 1-5 July 2002*.
45. “The Cosmic Microwave Background & Inflation, Then & Now”, J.R. Bond, C.R. Contaldi, D. Pogosyan, B.S. Mason, S.T. Myers, T.J. Pearson, U.-L. Pen, S. Prunet, A.C.S. Readhead, J.L. Sievers, in *Theoretical Physics MRST 2002: A Tribute to George Libbrandt*.
46. “Measurements of the CMB Power Spectrum to  $\ell = 3500$  with the CBI”, B.S. Mason et al., in *Proceedings of the XXXVIIth Moriond Astrophysics Meeting*.
47. “Cosmological Parameters from CMB measurements with the CBI”, C. R. Contaldi, J. R. Bond, D. Pogosyan, B. S. Mason, S. T. Myers, T. J. Pearson, U. L. Pen, S. Prunet, A. C. Readhead, M. I. Ruetalo, J. L. Sievers, J. W. Wadsley, P. J. Zhang, in *Proceedings of the XXXVIIth Moriond Astrophysics Meeting*.
48. “Determining  $H_0$  with XMM-Newton and the Cosmic Background Imager”, P.S. Udomprasert, B.S. Mason, & A.C.S. Readhead, 2001, in *New Century of X-Ray Astronomy*, ASP Conference Proceedings Vol.251.
49. “First Results from the CBI”, B.S. Mason, T.J. Pearson, A.C.S. Readhead, M. Shepherd, J. Sievers, P. Udomprasert, J.K. Cartwright, & S. Padin, 2001, in *Proceedings of the 20th Texas Symposium on Relativistic Astrophysics*, AIP conference proceedings Vol 586.
50. “An Improved Measurement of  $H_0$  from the Sunyaev-Zeldovich Effect,” B.S. Mason, S.T. Myers, & A.C.S. Readhead 2000, , to appear. in *Proc. 9th Marcel Grossman Meeting*.
51. “Preliminary Results from the Cosmic Background Imager,” B.S. Mason *et al.* 2000, *Proc. 9th Marcel Grossman Meeting*.
52. “The Sunyaev-Zel’dovich Effect with the Cosmic Background Imager,” P.S. Udomprasert, B.S. Mason, & A.C.S. Readhead 2000, to appear in *Constructing the Universe with Clusters of Galaxies*, ed. F. Duret & D. Gerbal.
53. “The Cosmic Background Imager”, T.J. Pearson, A.C.S. Readhead, S. Padin, J. Cartwright, B.S. Mason, S. Myers, M. Shepherd, J. Sievers, & P. Udomprasert, in *Proceedings of IAU Symposium number 201* (2000).
54. “An Improved Measurement of the Hubble Constant Using the Sunyaev-Zel’dovich Effect”, B.S. Mason, 1999 (Ph.D. Thesis, University of Pennsylvania).
55. “An Improved Measurement of the Hubble Constant from the SZE,” B.S. Mason & S.T. Myers 1999, American Astronomical Society Meeting 194, Abstract 19.04. (thesis presentation)
56. “Detection and Possible Flare of GM SGR at 29-34 GHz”, B.S. Mason *et al.* 1999, Astronomer’s Telegram #45.
57. “Solar Neutrino Oscillations in the Moon,” B.S. Mason & M. Sher 1994 , preprint WM-94-114 (hep-ph/9409400— undergraduate thesis).

*Last Update: June 2009*