

Curriculum Vitae of Tobias Marriage

Associate Professor
Department of Physics and Astronomy
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RESEARCH: Inflation, Reionization, Galaxy Clusters, Galaxy Evolution,
Radio and Star Forming Galaxies, Cosmic Microwave Background,
Sunyaev-Zel'dovich Effect, Instrumentation and Survey Operation

EDUCATION: 2001-2006 PhD Physics, Princeton University
2000-2001 Part III of the Mathematical Tripos, University of Cambridge
1996-2000 A.B. Physics, Princeton University

APPOINTMENTS: 2017- Associate Professor, Johns Hopkins University
2010-2017 Assistant Professor, Johns Hopkins University
2006-2010 Postdoctoral Researcher, Astrophysics, Princeton University

COLLABORATIONS: 2015- ISSI International Team: SZ Clusters in the Planck Era
2010- Cosmology Large Scale Angular Surveyor (CLASS; Co-PI)
2008-2012 Atacama B-mode Search (ABS)
2003- Atacama Cosmology Telescope (ACT; PhD)
1998-2003 Millimeter INTerferometer (MINT; UG Thesis, PhD)

PROFESSIONAL SERVICE: 2011- NSF Proposal Reviewer for Astronomy & Polar Programs
2011- Journal Referee for ApJ, MNRAS, Physical Review, & IEEE

TEACHING: 2016-2017 Graduate Radiative Astrophysics
2015 Nominee, Johns Hopkins Excellence in Teaching Award
2012-2014 Undergraduate Thermal Physics
2011 Graduate Extragalactic Astronomy
2011-2018 Undergraduate Advanced Laboratory

RESEARCH MENTORSHIP: Postdoc: J.W. Appel, J. Couto, R. Datta, J. Eimer, T. Essinger-Hileman,
M. Gralla, I. Padilla, L. Parker
PhD: M. Aguilar, J. Cleary, D. Crichton ('17), K. Harrington ('18),
J. Iulliano, Y. Li, C. Nuñez, M. Petroff, I. Ravi, T. Su ('17),
B. Wang, D. Watts ('18)
PhD (Co): A. Ali ('17), S. Dahal, K. Fogarty ('17), D. Gothe ('15),
K. Hall, Z. Xu ('17)
Undergrad: 16 Senior Thesis Projects

GRANTS & AWARDS: 2017-2022 PI, NSF CAREER Award, "Cosmology with CLASS"
2016-2021 Co-PI, NSF MSIP Grant, "Large Angular Scale Polarization
Survey of the Cosmic Microwave Background"
2016-2017 Johns Hopkins Catalyst Award, "Verifying and Characterizing
Inflation Using the Next Generation of CMB Data",
2016-2017 PI, Space@Hopkins Seed Grant, "3D-Printing of Millimeter
Wave Optics for Space Applications"

	2016-2018	Co-PI, NASA Grant, “High Efficiency Feedhorn-Coupled TES-based Detectors for CMB Polarization Measurements”
	2015-2017	PI, JHU Alumni Private Gift, “Development of Astronomical Applications of a Novel AlSi Alloy”
	2014-2018	Co-PI, NASA Grant, “Feedhorn-coupled Focal Planes for Space-based CMB Polarimetry”
	2014-2018	Sponsoring-PI, NASA Space Technology Research Fellowship PhD Advisee K. Harrington, “Polarized Microwave Background Technologies for Inflationary Gravitational Wave Detection”
	2014-2017	Co-PI, NSF Grant, “MRI: Development of a Sensitive Broadband Dual-Frequency Millimeter-Wavelength Polarimeter”
	2005-2006	Harold W. Dodd Graduate Fellowship
	2000-2003	NSF Graduate Fellowship
PUBLIC OUTREACH:	2014-	CLASS Public Website and Press (hyperlinked)
	2014-	Press Releases: Evidence for Quasar Feedback with SZ Effect (hyperlinked) The SZ Effect in Radio Loud AGN (hyperlinked)
	2015-	JHU Teaching Radio Telescope in Baltimore High Schools
	2010-	JHU Physics Fair
JOHNS HOPKINS DEPARTMENT & SCHOOL SERVICE:	2017-	Chair, Apache Point Time Allocation Committee
	2015-	Chair, Dept Recruitment Committee
	2014-	Faculty Head, KSAS Physical Sciences Machine Shop
	2013-	Radiation Officer, Dept Safety Committee
	2011-2013	Dept Strategic Planning Committee
	2010-	Dept Undergraduate Program Committee
	2010-	Dept Recruitment Committee

INVITED TALKS:

45. *Cosmology and Technology with the Cosmic Microwave Background*, United Arab Emirates University, Jan 2019
44. *Cosmology and Technology with the Cosmic Microwave Background*, NYU Abu Dhabi, Jan 2019
43. *The Cosmology Large Angular Scale Surveyor*, CMB Foregrounds for B-mode Studies (Tenerife, Spain), Oct 2018
42. *The Cosmology Large Angular Scale Surveyor*, Cosmo Andes 2018 (Pontificia Universidad Catolica de Chile), Jan 2018
41. *Lyman’s DIY Universe*, LP@60: a symposium to celebrate the 60th Birthday of Lyman A. Page, Jr. His life, science, and collaborations (Princeton), Jan 2018
40. *Constraining Inflation and Neutrino Mass with CLASS*, 38th International Conference on High Energy Physics (Chicago), Aug 2016.
39. *Probing Inflation, Reionization, and Neutrinos with CLASS*, Special Session of the 228th AAS Meeting (San Diego), The Polarization of the Cosmic Microwave Background: Current Status and Future Prospects, Jun 2016.
38. *Probing AGN Feedback with the SZ Effect*, Space Telescope Science Institute, Hot Sci Seminar, Apr 2016.

37. *Panel: Space, Balloon, Ground Complementarity*, LBNL-2016: Cosmology with CMB-S4 (Lawrence Berkeley National Laboratory), Mar 2016
36. *Probing AGN Feedback with the SZ Effect*, Pontificia Universidad Catolica de Chile, Astronomy Seminar, Nov 2015.
35. *Panel: Measuring CMB Anisotropies*, CMB@50 (Princeton), Jun 2015.
34. *Double Feature: SZ and AGN & CLASS*, University of Toronto, Dunlap Seminar, Feb 2015
33. *Double Feature: SZ and AGN & CLASS*, University of Chicago, KICP Seminar, Feb 2015
32. *The Cosmic Microwave Background: An Update and Outlook*, US Naval Observatory, Astronomy Seminar, Jun 2014
31. *The Cosmic Microwave Background: An Update and Outlook*, Johns Hopkins University, CAS Seminar, May 2014
30. *ACT on S82: From Inflation to Structure Formation*, The Multi-Wavelength, Multi-Epoch Heritage of Stripe 82 (Princeton University), Mar 2014.
29. *CMB Fever*, The Future of Particle Physics (New York University), Sep 2013.
28. *The Cosmology Large Angular Scale Surveyor*, Cosmology After Planck Workshop (University of Michigan), Sep 2013.
27. *The Cosmology Large Angular Scale Surveyor*, CMB2013 (OIST, Okinawa), Jun 2013.
26. *The Cosmology Large Angular Scale Surveyor*, Cosmology in the Planck Era (Princeton), Jun 2013.
25. *The Atacama Cosmology Telescope Sunyaev-Zel'dovich Galaxy Cluster Survey*, The Universe as seen by Planck (ESA/ESTEC, Noordwijk), Apr 2013.
24. *ACT: the detection of galaxy clusters and the determination of their physical properties*, The Mass Profiles of Galaxy Clusters from the Core to the Outskirts (Madonna di Campiglio), Mar 2013.
23. *Science from the Atacama Cosmology Telescope*, Pontificia Universidad Catolica de Chile, Astronomy Seminar, Jan 2013.
22. *Science from the Atacama Cosmology Telescope*, Workshop 2013 Polarization of the Cosmic Microwave Background (University of Chile), Jan 2013.
21. *The Atacama Cosmology Telescope: Update on Sunyaev-Zel'dovich Cluster Work*, NASA Goddard SFC, GUN Seminar, Jun 2012.
20. *Latest Results from the Atacama Cosmology Telescope*, APS April Meeting (Atlanta), Apr 2012.
19. *Latest Results from the Atacama Cosmology Telescope*, Carnegie Mellon University, Astro Seminar, Feb 2012.
18. *Latest Results from the Atacama Cosmology Telescope*, Space Telescope Science Institute, Cool Sci Seminar, Jan 2012.
17. *ACT Results from the Observation of Galaxy Clusters*, SZX Huntsville 2011: Cosmology with X-ray and Sunyaev-Zeldovich Effect Observations of Galaxy Clusters (University of Alabama, Huntsville), Sep 2011.
16. *The Atacama Cosmology Telescope: Sunyaev-Zeldovich Cluster Results*, Monsters Inc.: Astrophysics and Cosmology with Galaxy Clusters (KITP, UC Santa Barbara), Mar 2011.
15. *The Atacama Cosmology Telescope: Sunyaev-Zeldovich Cluster Results*, Johns Hopkins University, Physics and Astronomy Colloquium, Mar 2011.
14. *ACT SZ Observations*, Planck Conference: The Millimeter and Submillimeter Sky in the Planck Mission Era (Paris), Jan 2011.
13. *ACT SZ*, Massachusetts Institute of Technology, Astrophysics Colloquium, Nov 2010.
12. *ACT SZ*, Institute for Advanced Studies, Astrophysics Informal Seminar, Oct 2010.
11. *Atacama Cosmology Telescope Results on Clusters*, Galaxy Clusters: Observations, Physics, and Cosmology (MPA, Garching), Jul 2010.
10. *The Atacama Cosmology Telescope: First Results*, Columbia University, Special Seminar, Apr

- 2010.
9. *The Atacama Cosmology Telescope: First Results*, Johns Hopkins University, CAS Seminar, Mar 2010.
 8. *The Atacama Cosmology Telescope: First Results*, University of Pittsburgh, Astrophysics Seminar, Jan 2010.
 7. *The Atacama Cosmology Telescope*, Rutgers University, Astrophysics Seminar, Dec 2009.
 6. *The Atacama Cosmology Telescope*, Columbia University, ISCAP Seminar, Nov 2009.
 5. *The Atacama Cosmology Telescope*, Harvard University, ITC Seminar, Nov 2009.
 4. *The Atacama Cosmology Telescope*, UC Berkeley: Special Seminar, Oct 2009.
 3. *The Atacama Cosmology Telescope*, Stanford University, KIPAC Seminar, Oct 2009.
 2. *ACT SZ*, The Warm and Hot Universe (Columbia University), May 2007.
 1. *The Next Generation of CMB Observatories*, Yale University, Astronomy Colloquium, Jan 2007.

PUBLICATIONS:

The names of my advisees (PhD students and postdocs, past and present) are underlined. The publication titles are hyperlinked.

- [75] N. Aghanim, M. Douspis, G. Hurier, D. Crichton, J.-M. Diego, M. Hasselfield, J. Macias-Perez, **T. A. Marriage**, E. Pointecouteau, M. Remazeilles, and E. Soubrie. PACT I: Combining ACT and Planck data for optimal detection of tSZ signal. *arXiv e-prints*, February 2019.
- [74] J. W. Appel, Z. Xu, I. L. Padilla, K. Harrington, B. Pradenas Marquez, A. Ali, C. L. Bennett, M. K. Brewer, R. Bustos, M. Chan, D. T. Chuss, J. Cleary, J. Cuoto, S. Dahal, K. Denis, R. Dünner, J. R. Eimer, T. Essinger-Hileman, P. Fluxa, D. Gothe, G. C. Hilton, J. Hubmayr, J. Iuliano, J. Karakla, **T. A. Marriage**, N. J. Miller, C. Núñez, L. Parker, M. Petroff, C. D. Reintsema, K. Rostem, R. W. Stevens, D. A. Nunes Valle, B. Wang, D. J. Watts, E. J. Wollack, and L. Zeng. On-sky performance of the CLASS Q-band telescope. *arXiv e-prints*, November 2018.
- [73] D. J. Watts, B. Wang, A. Ali, J. W. Appel, C. L. Bennett, D. T. Chuss, S. Dahal, J. R. Eimer, T. Essinger-Hileman, K. Harrington, G. Hinshaw, J. Iuliano, **T. A. Marriage**, N. J. Miller, I. L. Padilla, M. Petroff, K. Rostem, E. J. Wollack, and Z. Xu. A Projected Estimate of the Reionization Optical Depth Using the CLASS Experiment’s Sample-Variance Limited E-Mode Measurement. *ApJ*, 863:121, August 2018.
- [72] A. M. Ali, T. Essinger-Hileman, **T. Marriage**, J. W. Appel, C. L. Bennett, M. Berkeley, B. Bulcha, S. Dahal, K. L. Denis, K. Rostem, K. U-Yen, E. J. Wollack, and L. Zeng. SiAl alloy feedhorn arrays: material properties, feedhorn design, and astrophysical applications. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 10708, page 107082P, July 2018.
- [71] T. Essinger-Hileman, C. L. Bennett, L. Corbett, H. Guo, M. A. B. **Marriage**, **T.** and Meador, K. Rostem, and E. J. Wollack. Aerogel scattering filters for cosmic microwave background observations. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 10708, page 107080F, July 2018.
- [70] D. Sumit, J. Eimer, L. Parker, G. Rhoades, A. Ali, J. W. Appel, C. Bennett, M. Brewer, R. Bustos, D. Chuss, J. Cleary, J. Cuoto, , K. Denis, R. Dünner, T. Essinger-Hileman, P. Fluxa, M. Halpern, K. Harrington, K. Helson, G. Hilton, G. Hinshaw, J. Hubmayr, J. Iuliano, J. Karakla,

- T. Marriage**, N. Miller, J. J. McMahon, C. Nuñez, I. Padilla, G. Palma, M. Petroff, B. Pradenas Márquez, R. Reeves, C. Reintsema, K. Rostem, D. Augusto Nunes Valle, T. Van Engelhoven, B. Wang, Q. Wang, D. Watts, J. Weiland, E. J. Wollack, Z. Xu, Z. Yan, and L. Zeng. Design and characterization of the Cosmology Large Angular Scale Surveyor (CLASS) 93 GHz focal plane. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 10708, page 107081Y, July 2018.
- [69] J. Iuliano, J. Eimer, L. Parker, G. Rhoades, A. Ali, J. W. Appel, C. Bennett, M. Brewer, R. Bustos, D. Chuss, J. Cleary, J. Couto, S. Dahal, K. Denis, R. Dünner, T. Essinger-Hileman, P. Fluxa, M. Halpern, K. Harrington, K. Helson, G. Hilton, G. Hinshaw, J. Hubmayr, J. Karakla, **T. Marriage**, N. Miller, J. J. McMahon, C. Nuñez, I. Padilla, G. Palma, M. Petroff, B. Pradenas Márquez, R. Reeves, C. Reintsema, K. Rostem, D. Augusto Nunes Valle, T. Van Engelhoven, B. Wang, Q. Wang, D. Watts, J. Weiland, E. J. Wollack, Z. Xu, Z. Yan, and L. Zeng. The Cosmology Large Angular Scale Surveyor receiver design. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 10708, page 1070828, July 2018.
- [68] K. Harrington, J. Eimer, D. T. Chuss, M. Petroff, J. Cleary, M. DeGeorge, T. W. Grunberg, A. Ali, J. W. Appel, C. L. Bennett, M. Brewer, R. Bustos, M. Chan, J. Couto, S. Dahal, K. Denis, R. Dünner, T. Essinger-Hileman, P. Fluxa, M. Halpern, G. Hilton, G. F. Hinshaw, J. Hubmayr, J. Iuliano, J. Karakla, **T. Marriage**, J. McMahon, N. J. Miller, C. Nuñez, I. Padilla, G. Palma, L. Parker, B. Pradenas Marquez, R. Reeves, C. Reintsema, K. Rostem, D. Augusto Nunes Valle, T. Van Engelhoven, B. Wang, Q. Wang, D. Watts, J. Weiland, E. Wollack, Z. Xu, Z. Yan, and L. Zeng. Variable-delay polarization modulators for the CLASS telescopes. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 10708, page 107082M, July 2018.
- [67] G. W. Roberts-Borsani, M. J. Jiménez-Donaire, M. Daprà, K. Alatalo, I. Aretxaga, J. Álvarez-Márquez, A. J. Baker, S. Fujimoto, P. A. Gallardo, M. Gralla, M. Hilton, J. P. Hughes, C. Jiménez, N. Laporte, **T. A. Marriage**, F. Nati, J. Rivera, A. Sievers, A. Weiß, G. W. Wilson, E. J. Wollack, and M. S. Yun. Multiwavelength Characterization of an ACT-selected, Lensed Dusty Star-forming Galaxy at $z = 2.64$. *ApJ*, 844:110, August 2017.
- [66] T. Su, **T. A. Marriage**, V. Asboth, A. J. Baker, J. R. Bond, D. Crichton, M. J. Devlin, R. Dünner, D. Farrah, D. T. Frayer, M. B. Gralla, K. Hall, M. Halpern, A. I. Harris, M. Hilton, A. D. Hincks, J. P. Hughes, M. D. Niemack, L. A. Page, B. Partridge, J. Rivera, D. Scott, J. L. Sievers, R. J. Thornton, M. P. Viero, L. Wang, E. J. Wollack, and M. Zemcov. On the redshift distribution and physical properties of ACT-selected DSFGs. *MNRAS*, 464:968–984, January 2017.
- [65] C. Sifón, N. Battaglia, F. Menanteau, M. Hasselfield, L. F. Barrientos, J. R. Bond, D. Crichton, M. J. Devlin, R. Dünner, M. Hilton, A. D. Hincks, R. Hlozek, K. M. Huffenberger, J. P. Hughes, L. Infante, A. Kosowsky, D. Marsden, **T. A. Marriage**, K. Moodley, M. D. Niemack, L. A. Page, D. N. Spergel, S. T. Staggs, H. Trac, and E. J. Wollack. The Atacama Cosmology Telescope: dynamical masses for 44 SZ-selected galaxy clusters over 755 square degrees. *MNRAS*, 461:248–270, September 2016.
- [64] N. Battaglia, A. Leauthaud, H. Miyatake, M. Hasselfield, M. B. Gralla, R. Allison, J. R. Bond, E. Calabrese, D. Crichton, M. J. Devlin, J. Dunkley, R. Dünner, T. Erben, S. Ferrara, M. Halpern, M. Hilton, J. C. Hill, A. D. Hincks, R. Hložek, K. M. Huffenberger, J. P. Hughes, J. P. Kneib, A. Kosowsky, M. Makler, **T. A. Marriage**, F. Menanteau, L. Miller, K. Moodley, B. Moraes, M. D. Niemack, L. Page, H. Shan, N. Sehgal, B. D. Sherwin, J. L. Sievers, C. Sifón, D. N. Spergel,

- S. T. Staggs, J. Taylor, R. Thornton, L. van Waerbeke, and E. J. Wollack. Weak-lensing mass calibration of the Atacama Cosmology Telescope equatorial Sunyaev-Zeldovich cluster sample with the Canada-France-Hawaii telescope stripe 82 survey. *J. Cosmology Astropart. Phys.*, 8:013, August 2016.
- [63] K. Harrington, **T. A. Marriage**, A. Ali, J. W. Appel, C. L. Bennett, F. Boone, M. Brewer, M. Chan, D. T. Chuss, F. Colazo, S. Dahal, K. Denis, R. Dünner, J. Eimer, T. Essinger-Hileman, P. Fluxa, M. Halpern, G. Hilton, G. F. Hinshaw, J. Hubmayr, J. Iuliano, J. Karakla, J. McMahon, N. T. Miller, S. H. Moseley, G. Palma, L. Parker, M. Petroff, B. Pradenas, K. Rostem, M. Sagliocca, D. Valle, D. Watts, E. Wollack, Z. Xu, and L. Zeng. The Cosmology Large Angular Scale Surveyor. In *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy VIII*, volume 9914 of Proc. SPIE, page 99141K, July 2016.
- [62] D. Crichton, M. B. Gralla, K. Hall, **T. A. Marriage**, N. L. Zakamska, N. Battaglia, J. R. Bond, M. J. Devlin, J. C. Hill, M. Hilton, A. D. Hincks, K. M. Huffenberger, J. P. Hughes, A. Kosowsky, K. Moodley, M. D. Niemack, L. A. Page, B. Partridge, J. L. Sievers, C. Sifón, S. T. Staggs, M. P. Viero, and E. J. Wollack. Evidence for the thermal Sunyaev-Zel’dovich effect associated with quasar feedback. *MNRAS*, 458:1478–1492, May 2016.
- [61] N. J. Miller, D. T. Chuss, **T. A. Marriage**, E. J. Wollack, J.W. Appel, C. L. Bennett, J. R. Eimer, T. Essinger-Hileman, D. J. Fixsen, K. Harrington, S. H. Moseley, K. Rostem, E. R. Switzer, and D. J. Watts. Recovery of Large Angular Scale CMB Polarization for Instruments Employing Variable-delay Polarization Modulators. *ApJ*, 818:151, February 2016.
- [60] D. J. Watts, D. Larson, **T. A. Marriage**, M. H. Abitbol, J. W. Appel, C. L. Bennett, D. T. Chuss, J. R. Eimer, T. Essinger-Hileman, N. J. Miller, K. Rostem, and E. J. Wollack. Measuring the Largest Angular Scale CMB B-mode Polarization with Galactic Foregrounds on a Cut Sky. *ApJ*, 814:103, December 2015.
- [59] K. L. Denis, A. Ali, J.W. Appel, C. L. Bennett, M.-P. Chang, D. T. Chuss, F. Colazo, N. Costen, T. Essinger-Hileman, R. Hu, **T. Marriage**, K. Rostem, K. U-Yen, and E. J. Wollack. Fabrication of Feedhorn-Coupled Transition Edge Sensor Arrays for Measurement of the Cosmic Microwave Background Polarization. *ArXiv e-prints*, November 2015.
- [58] D. T. Chuss, A. Ali, M. Amiri, J. W. Appel, C. L. Bennett, F. Colazo, K. L. Denis, R. Dünner, T. Essinger-Hileman, J. Eimer, P. Fluxa, D. Gothe, M. Halpern, K. Harrington, G. Hilton, G. Hinshaw, J. Hubmayr, J. Iuliano, **T. A. Marriage**, N. Miller, S. H. Moseley, G. Mumby, M. Petroff, C. Reintsema, K. Rostem, K. U-Yen, D. Watts, E. Wagner, E. J. Wollack, Z. Xu, and L. Zeng. Cosmology Large Angular Scale Surveyor (CLASS) Focal Plane Development. *ArXiv e-prints*, November 2015.
- [57] M. B. Gralla, D. Crichton, **T. A. Marriage**, W. Mo, P. Aguirre, G. E. Addison, V. Asboth, N. Battaglia, J. Bock, J. R. Bond, M. J. Devlin, R. Dünner, A. Hajian, M. Halpern, M. Hilton, A. D. Hincks, R. A. Hlozek, K. M. Huffenberger, J. P. Hughes, R. J. Ivison, A. Kosowsky, Y.-T. Lin, D. Marsden, F. Menanteau, K. Moodley, G. Morales, M. D. Niemack, S. Oliver, L. A. Page, B. Partridge, E. D. Reese, F. Rojas, N. Sehgal, J. Sievers, C. Sifón, D. N. Spergel, S. T. Staggs, E. R. Switzer, M. P. Viero, E. J. Wollack, and M. B. Zemcov. A measurement of the millimetre emission and the Sunyaev-Zel’dovich effect associated with low-frequency radio sources. *MNRAS*, 445:460–478, November 2014.
- [56] S. Naess, M. Hasselfield, J. McMahon, M. D. Niemack, G. E. Addison, P. A. R. Ade, R. Allison, M. Amiri, N. Battaglia, J. A. Beall, F. de Bernardis, J. R. Bond, J. Britton, E. Calabrese, H.-m. Cho, K. Coughlin, D. Crichton, S. Das, R. Datta, M. J. Devlin, S. R. Dicker, J. Dunkley,

- R. Dünner, J. W. Fowler, A. E. Fox, P. Gallardo, E. Grace, M. Gralla, A. Hajian, M. Halpern, S. Henderson, J. C. Hill, G. C. Hilton, M. Hilton, A. D. Hincks, R. Hlozek, P. Ho, J. Hubmayr, K. M. Huffenberger, J. P. Hughes, L. Infante, K. Irwin, R. Jackson, S. Muya Kasanda, J. Klein, B. Koopman, A. Kosowsky, D. Li, T. Louis, M. Lungu, M. Madhavacheril, **T. A. Marriage**, L. Maurin, F. Menanteau, K. Moodley, C. Munson, L. Newburgh, J. Nibarger, M. R. Nolta, L. A. Page, C. Pappas, B. Partridge, F. Rojas, B. L. Schmitt, N. Sehgal, B. D. Sherwin, J. Sievers, S. Simon, D. N. Spergel, S. T. Staggs, E. R. Switzer, R. Thornton, H. Trac, C. Tucker, M. Uehara, A. Van Engelen, J. T. Ward, and E. J. Wollack. The Atacama Cosmology Telescope: CMB polarization at $200 < \ell < 9000$. *J. Cosmology Astropart. Phys.*, 10:7, October 2014.
- [55] J. W. Appel, A. Ali, M. Amiri, D. Araujo, C. L. Bennet, F. Boone, M. Chan, H.-M. Cho, D. T. Chuss, F. Colazo, E. Crowe, K. Denis, R. Dünner, J. Eimer, T. Essinger-Hileman, D. Gothe, M. Halpern, K. Harrington, G. Hilton, G. F. Hinshaw, C. Huang, K. Irwin, G. Jones, J. Karakula, A. J. Kogut, D. Larson, M. Limon, L. Lowry, **T. Marriage**, N. Mehrle, A. D. Miller, N. Miller, S. H. Moseley, G. Novak, C. Reintsema, K. Rostem, T. Stevenson, D. Towner, K. U-Yen, E. Wagner, D. Watts, E. Wollack, Z. Xu, and L. Zeng. The cosmology large angular scale surveyor (CLASS): 38-GHz detector array of bolometric polarimeters. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 9153 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 1, July 2014.
- [54] T. Essinger-Hileman, A. Ali, M. Amiri, J.W. Appel, D. Araujo, C. L. Bennett, F. Boone, M. Chan, H.-M. Cho, D. T. Chuss, F. Colazo, E. Crowe, K. Denis, R. Dünner, J. Eimer, D. Gothe, M. Halpern, K. Harrington, G. C. Hilton, G. F. Hinshaw, C. Huang, K. Irwin, G. Jones, J. Karakla, A. J. Kogut, D. Larson, M. Limon, L. Lowry, **T. Marriage**, N. Mehrle, A. D. Miller, N. Miller, S. H. Moseley, G. Novak, C. Reintsema, K. Rostem, T. Stevenson, D. Towner, K. U-Yen, E. Wagner, D. Watts, E. J. Wollack, Z. Xu, and L. Zeng. CLASS: the cosmology large angular scale surveyor. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 9153 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 1, July 2014.
- [53] K. Rostem, A. Ali, J. W. Appel, C. L. Bennett, D. T. Chuss, F. A. Colazo, E. Crowe, K. L. Denis, T. Essinger-Hileman, **T. A. Marriage**, S. H. Moseley, T. R. Stevenson, D. W. Towner, K. U-Yen, and E. J. Wollack. Scalable background-limited polarization-sensitive detectors for mm-wave applications. In *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, volume 9153 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 0, July 2014.
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