

# CURRICULUM VITAE

## DR. AMY E. LOWITZ

### CONTACT

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### EDUCATION

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**PhD** University of Wisconsin Madison, 2017, Physics  
**Dissertation:** *Kinetic Inductance Detectors for CMB Polarimetry at 100 GHz*  
**MS** University of Wisconsin - Madison, 2012, Physics  
**ScB** Brown University, 2009, Physics

### APPOINTMENTS

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**Intel Corporation** Feb 2020 - Present

*Logic Technology Development Division, Lithography Group*

Scanner Yield Module Engineer:

- Oversees operation and maintenance of an ASML scanner, representing ~\$100M of instrumentation and over \$1B of product throughput per year.
- Interfaces with a large team of engineers and technicians to manage high-yield, high-throughput nano-manufacturing with world-leading process tolerances.
- Extensive industrial and chemical safety and OSHA training.

**The University of Chicago and Argonne National Laboratory** Mar 2017 - Jan 2020

*Kavli Institute for Cosmological Physics and High Energy Physics Division*

Postdoctoral Scholar with the South Pole Telescope collaboration and CMB-S4:

- Led 2019 early-season deployment for South Pole Telescope, including:
  - Managed telescope operations and summer maintenance
  - Oversaw and mentored a team of graduate students
  - Interfaced with NSF program director, station management, and contractors
  - Oversaw shipping logistics for summer telescope supplies
- South Pole Telescope winterover hiring, training, and support.
- South Pole Telescope Operations Team
- Field maintenance and deployment of telescope receiver instrumentation.
- Developed a low-parasitic bolometer readout to reduce device crosstalk and noise.
- Digital frequency multiplexed TES readout testing, integration, and optimization.
- Supervised and trained students.
- **Expertise in: Superconducting detectors and readout, cryogenic systems, RF electronics, vacuum systems, telescope operation, Python, linux systems**

**South Pole Telescope** Jan 2016 - Nov 2016

*South Pole, Antarctica (for the University of Chicago)*

Winter telescope operator

- Maintained and operated a complex, highly-integrated telescope at a remote field site
- Communicated and collaborated with team members back at the University to optimize telescope operation and solve problems as they arose.
- Member of station emergency medical team and clinic assistant team:  
Training including: wilderness-focused first aid, triage, cold weather injuries, mass casualty incident response, long-term patient support and monitoring, basic surgical assisting

## University of Wisconsin - Madison

2011-2017

*Timbie Laboratory; Madison, WI*

Graduate student working on:

- Kinetic inductance detectors for cosmic microwave background polarimetry.
- Nanofabrication material- and process- development.
- Supervision of undergraduate students.
- Wrote and received NASA graduate research grant, administered grant, managed budget.

## MIT Lincoln Laboratory

2009-2010

*Missile Defense Systems Integration group; Lexington, MA*

Radar Engineer working on:

- Feature-based classifier algorithm development.
- Computer vision algorithm development and validation.
- Statistical validation of simulations.

## TEACHING

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88th Compton Lecturer, public lecture series	Enrico Fermi Institute at the University of Chicago	Fall 2018
Introductory Physics, private tutor	Madison, WI	2011-2015
General Physics, teaching assistant	UW Madison	Spring 2011
Physics in the Arts, teaching assistant	UW Madison	Fall 2010
MATCH School AP Calculus, volunteer tutor	Boston, MA	2009-2010
Introductory calculus, tutor	Brown University	2007-2009
Introductory physics, tutor	Brown University	2007-2009
Sophia Academy, volunteer math tutor	Providence, RI	2007-2008

## SERVICE AND OUTREACH

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Education and Public Outreach Committee, Member, CMB-S4 Collaboration		2019-2020
Junior Scientist Advancement Committee, Member, CMB-S4 Collaboration		2018-2020
88th Compton Lecturer, Enrico Fermi Institute at the University of Chicago		Fall 2018
NASA grant review panel		201X
Adler Planetarium Astronomy Conversations Lecturer, Chicago, IL		2017-2020
Women and Gender Minorities in Physics, Founding Member, UW Madison		2015-2017
Chairperson, IEEE CSC Student and Recent Graduate Outreach Committee		2013-2014
Wonders of Physics/Physics Fair: Science outreach event, UW-Madison		2011-2015
Expand Your Horizons: Girls' Science Day, UW-Madison		2010-2013
Women in Science and Engineering (WiSE), Brown University		
Member		2005-2009
Peer-mentor		2007-2009
Founder and chairperson of physicsWiSE		2007-2009

## HONORS

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Antarctica Service Medal		2016
NASA Space Technology Research Fellow		2012-2015
IEEE Council on Superconductivity Fellow		2012
Wisconsin Space Grant Fellow		2011-2012
Van Vleck Fellow, University of Wisconsin - Madison		2010
Bachelor of Science with Honors, Brown University		2009

## LANGUAGES

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English, American Sign Language, French  
MATLAB, Python, HTML

## SELECTED PUBLICATIONS

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**A. E. Lowitz**, A. N. Bender, P. Barry, T. W. Cecil, C. L. Chang, R. Divan, M. A. Dobbs, A. J. Gilbert, S. E. Kuhlmann, M. Lisovenko, J. Montgomery, V. Novosad, S. Padin, J. E. Pearson, G. Wang, V. Yefremenko, J. Zhang, **“Performance of a low-parasitic frequency-domain multiplexing readout.”** *J. Low Temp. Phys.* 199:192-199 (2020) arXiv:1907.09035

- J. W. Henning, J.T. Sayre, C. L. Reichardt, P. A. R. Ade, A. J. Anderson, J. E. Austermann, J. A. Beall, A. N. Bender, B. A. Benson, L. E. Bleem, J. E. Carlstrom, C. L. Chang, H. C. Chiang, H-M. Cho, R. Citron, C. Corbett Moran, T. M. Crawford, A. T. Crites, T. de Haan, M. A. Dobbs, W. Everett, J. Gallicchio, E. M. George, A. Gilbert, N. W. Halverson, N. Harrington, G. C. Hilton, G. P. Holder, W. L. Holzapfel, S. Hoover, Z. Hou, J. D. Hrubes, N. Huang, J. Hubmayr, K. D. Irwin, R. Keisler, L. Knox, A. T. Lee, E. M. Leitch, D. Li, **A. Lowitz**, A. Manzotti, J. J. McMahon, S. S. Meyer, L. Mocuano, J. Montgomery, A. Nadolski, T. Natoli, J. P. Nibarger, V. Novosad, S. Padin, C. Pryke, J. E. Ruhl, B. R. Saliwanchik, K. K. Schaffer, C. Sievers, G. Smecher, A. A. Stark, K. T. Story, C. Tucker, K. Vanderlinde, T. Veach, J. D. Vieira, G. Wang, N. Whitehorn, W. L. K. Wu, V. Yefremenko, **“Measurements of the Temperature and E-Mode Polarization of the CMB from 500 Square Degrees of SPTpol Data.”** *submitted, ApJ*. arXiv1707.09353.
- A. E. Lowitz**, A. N. Bender, M. A. Dobbs, and A. J. Gilbert, **“Digital frequency multiplexing with sub-Kelvin SQUIDS”**. *Proceedings of SPIE 10708, Millimeter, Submillimeter, and Far-infrared Detectors and Instrumentation for Astronomy IX*, 107081D (July 2018). DOI 10.1117/12.2311984
- A. E. Lowitz**, **“Kinetic Inductance Detectors for CMB Polarimetry at 100 GHz”**. PhD Thesis. 2017.
- A. E. Lowitz**, A. D. Brown, and T. R. Stevenson, P. T. Timbie, and E. J. Wollack, **“Design, fabrication, and testing of a TiN/Ti/TiN trilayer KID array for 3 mm CMB observations.”** *Journal of Low Temperature Physics*, 184 (2016). DOI 10.1007/s10909-016-1584-y

- A. E. Lowitz**, E. M. Barrentine, S. R. Golwala, and P. T. Timbie, **“A Comparison of Fundamental Noise in Kinetic Inductance Detectors and Transition Edge Sensors for Millimeter-wave Applications,”** *Journal of Low Temperature Physics*, 176 (2014). DOI 10.1007/s10909-014-1133-5. arXiv1403.3601.

## INVITED TALKS

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- “Nuts and Bolt Cosmology: How and Why we study the universe from the End of the Earth”**, **Amundsen-Scott South Pole Station**, South Pole, Antarctica, 8 Dec 2019 (public lecture)
- “Measuring the Cosmic Microwave Background with SPT-3G and Beyond”**, **Illinois Institute of Technology**, Chicago, IL, 4 April 2019 (academic colloquium)
- “Cosmology at the End of the Earth”**, **Ethical Humanist Society of Chicago**, Chicago, IL, 17 March 2019 (public lecture)
- “Nuts and Bolts Cosmology”**, **88th biannual Arthur H. Compton Lecture Series, Enrico Fermi Institute, University of Chicago**, Chicago, IL, Fall 2018 (8-lecture public lecture series)
- “Detector and Readout Architectures for mm-wave Cosmology with SPT3G and Beyond”**, **Cornell University**, Ithaca, NY, 26 February, 2018 (academic talk)
- “Kinetic Inductance Detectors for 100 GHz CMB Polarimetry,”** **UCSD Department of Physics**, La Jolla, CA, 31 July 2017 (academic talk)
- “Kinetic Inductance Detectors for 100 GHz CMB Polarimetry,”** **UIUC Department of Astronomy**, Champaign, IL, 9 June 2017 (academic talk)
- “Kinetic Inductance Detectors for 100 GHz CMB Polarimetry,”** **Kavli Institute for Cosmological Physics**, University of Chicago, Chicago, IL, 17 Mar 2017. (academic talk)
- “The Cosmic Microwave Background,”** **Amundsen-Scott South Pole Station Summer Science Lecture Series**, South Pole, Antarctica, 6 Nov 2016. (public lecture)
- “Detecting the Cosmic Microwave Background,”** **Madison Astronomical Society**, Madison, WI, 21 Feb 2015. (public lecture)
- “The Cosmic Microwave Background,”** **Madison Astronomical Society**, Madison, WI, 10 January, 2014. (public lecture)
- “A Comparison of Fundamental Noise Limits in TESs and MKIDs,”** **Keck Institute for Space Studies**, 2nd Superconducting Nitride Detector Workshop. Pasadena, CA, 21 February 2012. (academic talk)

## OTHER TALKS AND PRESENTATIONS

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- “*Performance of a low-parasitic frequency-domain multiplexing readout.*”, 18th International Workshop on Low Temperature Detectors. Milan, Italy, 23 Jul 2019. (conference poster)
- “*Digital frequency multiplexing with sub-Kelvin SQUIDS.*” SPIE Astronomical Telescopes and Instrumentation conference, Austin, TX, 14 Jun 2018. (conference talk)
- “*Kinetic Inductance Detectors for CMB Polarimetry at 100 GHz.*” 17th International Workshop on Low Temperature Detectors. Kurume, Japan, Jul 2017. (conference poster)
- “*Design, fabrication, and testing of a TiN/Ti/TiN trilayer KID array for 3 mm CMB observations.*” 16th International Workshop on Low Temperature Detectors. Grenoble, France, July 2015. (conference poster)
- “*Design, fabrication, and testing of lumped element kinetic inductance detectors for 3 mm CMB Observations.*” SPIE Astronomical Telescopes and Instrumentation conference. Montreal, QC, June 2014. (conference poster)
- “*A Comparison of Fundamental Noise in Kinetic Inductance Detectors and Transition Edge Sensors for Millimeter-wave Applications.*” 15th International Workshop on Low Temperature Detectors. Pasadena, CA, July 2013. (conference poster)

## PUBLICATIONS

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- BICEP, Keck, and SPTpol Collaborations, PAR Ade, Z Ahmed, M Amiri, AJ Anderson, JE Austermann, JS Avva, D Barkats, R Basu Thakur, JA Beall, AN Bender, BA Benson, F Bianchini, CA Bischoff, LE Bleem, JJ Bock, H Boenish, E Bullock, V Buza, JE Carlstrom, CL Chang, IV Cheshire, HC Chiang, TL Chou, R Citron, J Connors, C Corbett Moran, J Cornelison, TM Crawford, AT Crites, M Crumrine, A Cukierman, T de Haan, M Dierickx, MA Dobbs, L Duband, W Everett, S Fatigoni, JP Filippini, S Fliescher, J Gallicchio, EM George, T St Germaine, N Goeckner-Wald, DC Goldfinger, J Grayson, N Gupta, G Hall, M Halpern, NW Halverson, S Harrison, S Henderson, JW Henning, SR Hildebrandt, GC Hilton, GP Holder, WL Holzzapfel, JD Hrubes, N Huang, J Hubmayr, H Hui, KD Irwin, J Kang, KS Karkare, E Karpel, S Kefeli, SA Kernasovskiy, L Knox, JM Kovac, CL Kuo, K Lau, AT Lee, EM Leitch, D Li, **A Lowitz**, A Manzotti, JJ McMahon, KG Megerian, SS Meyer, M Millea, LM Mocanu, L Monceli, J Montgomery, A Nadolski, T Namikawa, T Natoli, CB Netterfield, HT Nguyen, JP Nibarger, G Noble, V Novosad, R O’Brien, IV Ogburn, Y Omori, S Padin, S Palladino, S Patil, T Prouve, “**A Demonstration of Improved Constraints on Primordial Gravitational Waves with Delensing,**” (*in review*), (2020)arXiv:2011.08163
- F Bianchini, WLK Wu, PAR Ade, AJ Anderson, JE Austermann, JS Avva, L Balkenhol, E Baxter, JA Beall, AN Bender, BA Benson, LE Bleem, JE Carlstrom, CL Chang, P Chaubal, HC Chiang, TL Chou, R Citron, C Corbett Moran, TM Crawford, AT Crites, T de Haan, MA Dobbs, W Everett, J Gallicchio, EM George, A Gilbert, N Gupta, NW Halverson, JW Henning, GC Hilton, GP Holder, WL Holzzapfel, JD Hrubes, N Huang, J Hubmayr, KD Irwin, L Knox, AT Lee, D Li, **A Lowitz**, A Manzotti, JJ McMahon, SS Meyer, M Millea, LM Mocanu, J Montgomery, A Nadolski, T Natoli, JP Nibarger, G Noble, V Novosad, Y Omori, S Padin, S Patil, C Pryke, CL Reichardt, JE Ruhl, BR Saliwanchik, KK Schaffer, C Sievers, G Simard, G Smecher, AA Stark, KT Story, C Tucker, K Vanderlinde, T Veach, JD Vieira, G Wang, N Whitehorn, V Yefremenko, **Searching for anisotropic cosmic birefringence with polarization data from SPTpol**, Physical Review D 102 (8), 083504 (2020) arXiv:2006.08061
- A Nadolski, JD Vieira, JA Sobrin, AM Kofman, PAR Ade, Z Ahmed, AJ Anderson, JS Avva, R Basu Thakur, AN Bender, BA Benson, L Bryant, JE Carlstrom, FW Carter, TW Cecil, CL Chang, JR Cheshire, GE Chesmore, JF Cliche, A Cukierman, T de Haan, M Dierickx, J Ding, D Dutcher, W Everett, J Farwick, KR Ferguson, L Florez, A Foster, J Fu, J Gallicchio, AE Gambrel, RW Gardner, JC Groh, S Guns, R Guyser, NW Halverson, AH Harke-Hosemann, NL Harrington, RJ Harris, JW Henning, WL Holzzapfel, D Howe, N Huang, KD Irwin, O Jeong, M Jonas, A Jones, M Korman, J Kovac, DL Kubik, S Kuhlmann, C-L Kuo, AT Lee, **AE Lowitz**, J McMahon, J Meier, SS Meyer, D Michalik, J Montgomery, T Natoli, H Nguyen, GI Noble, V Novosad, S Padin, Z Pan, P Paschos, J Pearson, CM Posada, W Quan, A Rahlin, D Riebel, JE Ruhl, JT Sayre, E Shirokoff, G Smecher, AA Stark, J Stephen, KT Story, A Suzuki, C Tandoi, KL Thompson, C Tucker, K Vanderlinde, G Wang, N Whitehorn, V Yefremenko, KW Yoon, MR Young, “**Broadband, millimeter-wave antireflection coatings for large-format, cryogenic aluminum oxide optics.**” *Applied Optics* 59 (10), 3285-3295 (2020) arXiv:1912.04272
- LE Bleem, S Bocquet, B Stalder, MD Gladders, PAR Ade, SW Allen, AJ Anderson, J Annis, MLN Ashby, JE Austermann, S Avila, JS Avva, M Bayliss, JA Beall, K Bechtol, AN Bender, BA Benson, E Bertin, F Bianchini, C Blake, M Brodwin, D Brooks, E Buckley-Geer, DL Burke, JE Carlstrom, A Carnero Rosell, M Carrasco Kind, J Carretero, CL Chang, HC Chiang, R Citron, C Corbett Moran, M Costanzi, TM Crawford, AT Crites, LN da Costa, T de Haan, J De Vicente, S Desai, HT Diehl, JP Dietrich, MA Dobbs, TF Eifler, W Everett, B Flaugher, B Floyd, J Frieman, J Gallicchio, J Garca-Bellido, EM George, DW Gerdes, A Gilbert, D Gruen, RA Gruendl, J Gschwend, N Gupta, G Gutierrez,

- NW Halverson, N Harrington, JW Henning, C Heymans, GP Holder, DL Hollowood, WL Holzzapfel, K Honscheid, JD Hrubes, N Huang, J Hubmayr, KD Irwin, DJ James, T Jeltema, S Joudaki, G Khullar, M Klein, L Knox, N Kuropatkin, AT Lee, D Li, C Lidman, **A Lowitz**, N MacCrann, G Mahler, MAG Maia, JL Marshall, M McDonald, JJ McMahan, P Melchior, F Menanteau, SS Meyer, R Miquel, LM Mocanu, JJ Mohr, J Montgomery, A Nadolski, T Natoli, JP Nibarger, G Noble, V Novosad, S Padin, A Palmese, D Parkinson, S Patil, F Paz-Chinchn, AA Plazas, C Pryke, NS Ramachandra, CL Reichardt, JD Remolina Gonzlez, AK Romer, A Roodman, JE Ruhl, ES Rykoff, BR Saliwanchik, E Sanchez, A Saro, JT Sayre, KK Schaffer, T Schrabback, S Serrano, K Sharon, C Sievers, G Smecher, M Smith, M Soares-Santos, AA Stark, KT Story, E Suchyta, G Tarle, C Tucker, K Vanderlinde, T Veach, JD Vieira, G Wang, J Weller, N Whitehorn, WLK Wu, V Yefremenko, Y Zhang, **“The SPTPol extended cluster survey.”** *The Astrophysical Journal Supplement Series* 247 (1), 25 (2020) arXiv:1910.04121
- CL Reichardt, S Patil, PAR Ade, AJ Anderson, JE Austermann, JS Avva, E Baxter, JA Beall, AN Bender, BA Benson, F Bianchini, LE Bleem, JE Carlstrom, CL Chang, P Chaubal, HC Chiang, TL Chou, R Citron, C Corbett Moran, TM Crawford, AT Crites, T de Haan, MA Dobbs, W Everett, J Gallicchio, EM George, A Gilbert, N Gupta, NW Halverson, N Harrington, JW Henning, GC Hilton, GP Holder, WL Holzzapfel, JD Hrubes, N Huang, J Hubmayr, KD Irwin, L Knox, AT Lee, D Li, **A Lowitz**, D Luong-Van, JJ McMahan, J Mehl, SS Meyer, M Millea, LM Mocanu, JJ Mohr, J Montgomery, A Nadolski, T Natoli, JP Nibarger, G Noble, V Novosad, Y Otori, S Padin, C Pryke, JE Ruhl, BR Saliwanchik, JT Sayre, KK Schaffer, E Shirokoff, C Sievers, G Smecher, HG Spieler, Z Staniszewski, AA Stark, C Tucker, K Vanderlinde, T Veach, JD Vieira, G Wang, N Whitehorn, R Williamson, WLK Wu, V Yefremenko, **“An Improved Measurement of the Secondary Cosmic Microwave Background Anisotropies from the SPT-SZ+ SPTpol Surveys.”** *Astrophysical Journal (in review)*. (2020) arXiv:2002.06197
- AE Lowitz**, AN Bender, P Barry, TW Cecil, CL Chang, R Divan, MA Dobbs, AJ Gilbert, SE Kuhlmann, M Lisovenko, J Montgomery, V Novosad, S Padin, JE Pearson, G Wang, V Yefremenko, J Zhang, **“Performance of a low-parasitic frequency-domain multiplexing readout.”** *J. Low Temp. Phys.* 199:192199 (2020) arXiv:1907.09035
- N Huang, L E Bleem, B Stalder, P A R Ade, S W Allen, A J Anderson, J E Austermann, J S Avva, J A Beall, A N Bender, B A Benson, F Bianchini, S Bocquet, M Brodwin, J E Carlstrom, C L Chang, H C Chiang, R Citron, C Corbett Moran, T M Crawford, A T Crites, T de Haan, M A Dobbs, W Everett, B Floyd, J Gallicchio, E M George, A Gilbert, M D Gladders, S Guns, N Gupta, N W Halverson, N Harrington, J W Henning, G C Hilton, G P Holder, W L Holzzapfel, J D Hrubes, J Hubmayr, K D Irwin, G Khullar, L Knox, A T Lee, D Li, **A Lowitz**, M McDonald, J J McMahan, S S Meyer, L M Mocanu, J Montgomery, A Nadolski, T Natoli, J P Nibarger, G Noble, V Novosad, S Padin, S Patil, C Pryke, C L Reichardt, J E Ruhl, B R Saliwanchik, A Saro, JT Sayre, K K Schaffer, K Sharon, C Sievers, G Smecher, A A Stark, K T Story, C Tucker, K Vanderlinde, T Veach, J D Vieira, G Wang, N Whitehorn, W L K Wu, V Yefremenko, **“Galaxy Clusters Selected via the Sunyaev-Zel’dovich Effect in the SPTpol 100-Square-Degree Survey.”** *Astronomical Journal*, 159 (3), 110 (2020) arXiv:1907.09621
- F Bianchini, WLK Wu, PAR Ade, AJ Anderson, JE Austermann, JS Avva, JA Beall, AN Bender, BA Benson, LE Bleem, JE Carlstrom, CL Chang, P Chaubal, HC Chiang, R Citron, C Corbett Moran, TM Crawford, AT Crites, T De Haan, MA Dobbs, W Everett, J Gallicchio, EM George, A Gilbert, N Gupta, NW Halverson, N Harrington, JW Henning, GC Hilton, GP Holder, WL Holzzapfel, JD Hrubes, N Huang, J Hubmayr, KD Irwin, L Knox, AT Lee, D Li, **A Lowitz**, A Manzotti, JJ McMahan, SS Meyer, M Millea, LM Mocanu, J Montgomery, A Nadolski, T Natoli, JP Nibarger, G Noble, V Novosad, Y Otori, S Padin, S Patil, C Pryke, CL Reichardt, JE Ruhl, BR Saliwanchik, JT Sayre, KK Schaffer, C Sievers, G Simard, G Smecher, AA Stark, KT Story, C Tucker, K Vanderlinde, T Veach, JD Vieira, G Wang, N Whitehorn, V Yefremenko, **“Constraints on Cosmological Parameters from the 500 deg<sup>2</sup> SPTpol Lensing Power Spectrum.”** *The Astrophysical Journal* 888 (2), 119 (2020) arXiv:1910.07157
- AN Bender, AJ Anderson, JS Avva, PAR Ade, Z Ahmed, PS Barry, R Basu Thakur, BA Benson, L Bryant, K Byrum, JE Carlstrom, FW Carter, TW Cecil, CL Chang, H-M Cho, JF Cliche, A Cukierman, T de Haan, EV Denison, J Ding, MA Dobbs, D Dutcher, W Everett, KR Ferguson, A Foster, J Fu, J Gallicchio, AE Gambrel, RW Gardner, A Gilbert, JC Groh, S Guns, R Guyser, NW Halverson, AH Harke-Hosemann, NL Harrington, JW Henning, GC Hilton, WL Holzzapfel, D Howe, N Huang, KD Irwin, OB Jeong, M Jonas, A Jones, TS Khaire, AM Kofman, M Korman, DL Kubik, S Kuhlmann, C-L Kuo, AT Lee, EM Leitch, **AE Lowitz**, SS Meyer, D Michalik, J Montgomery, A Nadolski, T Natoli, H Nguyen, GI Noble, V Novosad, S Padin, Z Pan, P Paschos, J Pearson, CM Posada, W Quan, A Rahlin, D Riebel, JE Ruhl, JT Sayre, E Shirokoff, G Smecher, JA Sobrin, AA Stark, J Stephen, KT Story, A Suzuki, KL Thompson, Carole Tucker, LR Vale, K Vanderlinde, JD Vieira, G Wang, N Whitehorn, V Yefremenko, KW Yoon, MR Young, **“On-sky performance of the SPT-3G frequency-domain multiplexed readout.”** *Journal of Low Temperature Physics*, 199(182191) (2020) arXiv:1907.10947
- S Raghunathan, S Patil, E Baxter, B A Benson, L E Bleem, T M Crawford, G P Holder, T McClintock, C L Reichardt, T N Varga, N Whitehorn, P A R Ade, S Allam, A J Anderson, J E Austermann, S Avila, J S Avva, D Bacon, J A Beall, A N Bender, F Bianchini, S Bocquet, D Brooks, D L Burke, J E Carlstrom, J Carretero, F J Castander, C

- L Chang, H C Chiang, R Citron, M Costanzi, A T Crites, L N da Costa, S Desai, H T Diehl, J P Dietrich, M A Dobbs, P Doel, S Everett, A E Evrard, C Feng, B Flaughner, P Fosalba, J Frieman, J Gallicchio, J Garcia-Bellido, E Gaztanaga, E M George, T Giannantonio, A Gilbert, R A Gruendl, J Gschwend, N Gupta, G Gutierrez, T de Haan, N W Halverson, N Harrington, J W Henning, G C Hilton, D L Hollowood, W L Holzappel, K Honscheid, J D Hrubes, N Huang, J Hubmayr, K D Irwin, T Jeltema, M Carrasco Kind, L Knox, N Kuropatkin, O Lahav, A T Lee, D Li, M Lima, **A Lowitz**, M A G Maia, J L Marshall, J J McMahon, P Melchior, F Menanteau, S S Meyer, R Miquel, L M Mocanu, J J Mohr, J Montgomery, C Corbett Moran, A Nadolski, T Natoli, J P Nibarger, G Noble, V Novosad, R L C Ogando, S Padin, A A Plazas, C Pryke, D Rapetti, A K Romer, A Roodman, A Carnero Rosell, E Roza, J E Ruhl, E S Rykoff, B R Saliwanchik, E Sanchez, JT Sayre, V Scarpine, K K Schaffer, M Schubnell, S Serrano, I Sevilla-Noarbe, C Sievers, G Smecher, M Smith, M Soares-Santos, A A Stark, K T Story, E Suchyta, M E C Swanson, G Tarle, C Tucker, K Vanderlinde, T Veach, J De Vicente, J D Vieira, V Vikram, G Wang, W L K Wu, V Yefremenko, Y Zhang, **“A Detection of CMB-Cluster Lensing using Polarization Data from SPTpol.”** *Physical Review Letters*, 123 (18), 181301 (2019) arXiv:1907.08605
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