

**Curriculum Vitae
Amber Dawn Miller**

**Columbia University
The Faculty of Arts and Sciences**

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Administrative Positions

2011 – present **Columbia University**, Dean of Science, The Faculty of Arts & Sciences

Academic Positions

2011 – present **Columbia University**, Professor of Physics
2008 – 2011 **Columbia University**, Walter LeCroy Jr. Associate Professor of Physics
2006 – 2008 **Columbia University**, Associate Professor of Physics
2002 – 2006 **Columbia University**, Assistant Professor of Physics
2000 – 2002 **The University of Chicago**, Hubble Fellow
1997 – 2000 **Princeton University**, NASA GSRP Fellow
1995 – 1997 **Princeton University**, Princeton University President's Fellow
1994 – 1995 **U. C. Berkeley**, Research Assistant, Department of Astronomy
1992 – 1994 **U. C. Berkeley**, Research Assistant, Department of Physics

Education

- **Princeton University, Ph. D. Physics, 2000**
- **University of California at Berkeley, B. A. Physics and Astronomy, 1995**

Research Interests

Experimental Cosmology, Physics of the Early Universe, The Origin and Evolution of the Universe, Temperature and Polarization Anisotropy in the Cosmic Microwave Background, Sunyaev-Zel'dovich effect in clusters of galaxies

Scholastic Awards, Honors, and Fellowships

Lenfest Distinguished Faculty Award, 2008
NSF CAREER Award, 2005
Alfred P. Sloan Fellow, 2005-2007
Hubble Fellowship (Space Telescope Science Institute), 2000-2002
Dodds Foundation Fellowship for Outstanding Thesis Research (Princeton), 2000
Graduate Student Research Program (GSRP) Fellowship (NASA), 1997-2000
President's Fellowship (Princeton University), 1995-1997
Klumpke Award (U. C. Berkeley), 1995
University Honors in Physics (U. C. Berkeley), 1995

Professional Society Memberships

2011 – present, American Physical Society
2011 – present, Simons Science Series
2008 – present, Council on Foreign Relations
1996 – present, American Astronomical Society

University Administration Leadership

Dean of Science for the Faculty of Arts & Sciences, Columbia University, 2011-present

Responsibilities

Reporting to the Executive Vice-President (EVP) for Arts and Sciences, the Dean of Science is responsible for Columbia's nine natural science departments and their associated centers, and for strategic planning for the future of science at Columbia. The Dean of Science oversees academic, financial, space, and facilities activities and planning; fundraising; recruiting, retaining, and promoting of the natural science faculty and the scientists on parallel research and teaching tracks (which includes negotiating all hires and retentions, salaries, laboratory spaces and renovations, startup packages, housing, schooling, spousal positions, etc., for the roughly 220 faculty of Columbia's nine science departments); and reviews of departments and programs (including oversight of all promotion and tenure reviews). In addition to these responsibilities for Arts and Sciences, the Dean of Science closely collaborates on a variety of University-wide issues with the leadership of the School of Engineering; the Medical Center; The Earth Institute; the new Mind, Brain, and Behavior Initiative; the office of Alumni and Development, the EVP for Research; the EVP for Communications; the EVP for Facilities; and the Provost.

Strategic Planning

As Dean of Science, Dr. Miller developed the first significant strategic plan for science at Columbia University. The result of a collaborative and consultative process, the strategic plan articulates the needs and ambitions of the University's nine science departments in the context of their individual and collective goals and in their relationship to the needs and goals of the other schools and institutes at the University. The plan includes new strategies for recruiting outstanding faculty, the construction and allocation of new shared facilities that will support research across a wide range of disciplinary and interdisciplinary programs, a program to seed new intellectual centers, a program for recruiting interdisciplinary faculty, a new Columbia Prize Postdoctoral Fellows program, and initiatives to improve administrative efficiency and laboratory infrastructure. The strategic plan includes a detailed ten-year budget covering all operating and capital expenses, endowment and debt capacity requirements, and clear fundraising goals.

Programs and Leadership Structures

- Designed laboratory infrastructure support program (to enhance capacity for laboratory research)
- Initiated postdoctoral scholars program (pilot for prize postdoctoral fellows program)
- Established new leadership and governance models for Columbia's newest science building (in collaboration for Executive Vice-President for Research).

Fundraising

- With the Office of Alumni and Development, raising funds for a range of specific initiatives including, for example:
 - Research Greenhouse
 - Theory Center
 - Shared Nanofabrication Laboratory
 - Endowed Postdoctoral Fellowship Program
 - Endowed Faculty Chairs
- Building a fundraising advisory committee for a ten-year campaign for science

- Produced brochures describing Columbia’s science initiatives as a whole and detailing individual development opportunities

Visibility and Communications

- Regularly present science activity to Columbia board of trustees
- Work with the Executive Vice-President for Communications to identify compelling science stories for internal and external distribution
- Work with Executive Vice-President for Communications and Executive Vice-President for Research on University-wide communications strategy for science
- With Director of Global Centers, connect Columbia science research and teaching to activity in Global Centers’ regions
- Hosted the first Columbia World Leader’s Forum on science
- Published outreach materials related to the Columbia’s science initiatives

Space Planning and Renovations

- Regularly oversee design and construction of multi-million dollar projects for laboratories, offices, and shared facilities
- Led ten-year space-planning and budgeting process for six science buildings (constituting more than 200,000 square feet and housing ~200 research and teaching projects)

Recent Work Across School and Disciplinary Boundaries at Columbia

- Developing synergistic relationship between nascent Zuckerman Institute, the Institute for Data Sciences and Engineering, and key Arts and Sciences (A&S) players (2011-present)
- Spearheaded and negotiated agreement between A&S and School of Engineering and Applied Sciences (SEAS) to jointly provide \$12M seed funding for new nanoscience center (2012)
- Currently leading effort to seed brain imaging partnership between A&S, School of Engineering and Applied Science (SEAS), and the Zuckerman Institute (2013-present)
- Participant in new SEAS-led center for Systemic Risk (2013-present)
- Participant in Comparative Literature-led proposal for “Re-thinking the human sciences” (2013-present)
- As member ex officio of the Academic Review Committee, regularly participate in reviews of departments and institutes across A&S (2011-present)
- As member ex officio of the Promotions and Tenure Committee, regularly participate in promotion and tenure reviews of faculty and researchers in all fields within A&S (2011-present)
- Member of committee drafting institutional conflict of interest policy (2013-present)

As chair of the Executive Committee of the Faculty of Arts and Sciences (ECFAS), spearheaded effort to combine the two executive-level faculty advisory groups to the Executive Vice-President of Arts and Sciences, the steering committee of the chairs and ECFAS, into a single combined advisory committee, the Policy and Planning Committee (required re-drafting significant statutes and a ratification by more than 50% of the faculty) (2009-2010).

Academic Experience

Courses Taught

- Physics C1001 – Physics for Poets
- Physics 1601 – Introductory Mechanics and Relativity
- Physics 1602 – Introduction to Electricity, Magnetism, and Thermodynamics
- Physics V1900 – Seminar: Contemporary Cosmology
- Physics V1900 – Seminar: Physics, Politics, and Critical Thinking
- EES W3018 – Weapons of Mass Destruction

Grants and Awards

- Co-investigator – NASA grant “Search for the B-mode Signal of the Cosmic Microwave Background Polarization with the Balloon-Borne E & B Experiment (EBEX)”, 2008-2013
- Principal Investigator – NSF CAREER grant “CAREER: A Novel Cosmic Microwave Background Polarization Experiment Based on Large Arrays of Coherent Polarimeters”, 2005-2010
- Co-Investigator – NSF grant “The QUIET Project: Phase I”, 2006-2009
- Co-investigator – NASA grant “Search for the B-mode Signal of the Cosmic Microwave Background Polarization with the Balloon-Borne E & B Experiment (EBEX)”, 2005-2008
- Principal Investigator – NSF grant “The Baryon Distribution in Galaxy Clusters and Groups; A New Look with the Sunyaev-Zel’dovich Array”, 2005-2008
- Co-investigator – NSF grant “A Multi-wavelength Study of Galaxy Clusters”, 2005-2008
- Principal Investigator – NASA grant “A U.S. Based Facility for Metal-Mesh Millimeter and Submillimeter Wave Filters”, 2004-2007
- Principal Investigator - Alfred P. Sloane Research Fellowship, 2005-2007
- Principal Investigator – NSF REU supplement to CAREER, 2008
- Principal Investigator – NSF REU supplement to CAREER, 2007
- Principal Investigator – NSF REU supplement to CAREER, 2006
- Principal Investigator – NSF REU supplement to CAREER, 2005
- Co-investigator – NASA grant “CMBPol: A Mission Concept Study for an Inflation Probe”, 2004-2006
- Principal Investigator – subcontract from JPL NASA grant “Columbia Participation in 91-element 90 GHz Polarimeter Array Suitable for Mapping Polarization in the Cosmic microwave Background”, 2004-2005
- Principal Investigator – subcontract from U. Chicago NSF grant “Development of an Advanced Heterogeneous Array for Probing the High Redshift Universe”, 2003-2005

Other Professional Activities

- Member-at-Large APS Division of Astrophysics Executive Committee (2011-present)
- Member NASA Inflation Probe Science Analysis Group – IPSAG (2011-present)
- Member NASA Review of Astrophysics programs for Research, Analysis and Enabling Technology (2011)
- Member NASA Primordial Polarization Program Definition Team (2007-2010)

- Reviewer and panel chair for various programs – NASA (ongoing)
- Reviewer for various programs – NSF (ongoing)
- Reviewer for various programs – NRAO (ongoing)
- Reviewer for Physics Review Letters (ongoing)
- Reviewer for Astronomy and Astrophysics (ongoing)
- Reviewer for Astrophysical Journal (ongoing)
- Reviewer Fondazione Cariparo (2008)

Service to Columbia

- University Conflict of Interest Policy Drafting Committee (member), 2013-present
- Advisory committee of Columbia's Science Honors Program (member), 2011-present
- Executive Committee of the Faculty of Arts and Sciences (chair), 2009-2010
- Executive Committee of the Faculty of Arts and Sciences (member), 2008-2009
- Space Planning Committee, 2008-2010
- Faculty Budget Group, 2008-2010
- Academic Review Committee (ex officio), 2009-2010
- Jr. Faculty Search Committee, 2003-2010
- Qualifying Exam Committee, 2008-2009
- Building Committee (Chair), 2007-2008
- Nevis Laboratories Retreat Committee, 2007-2008
- Graduate Admissions Committee, 2003-2004 & 2007-2008
- Student – faculty Issues Committee, 2005-2006
- Machine Shop Committee (Chair), 2004-2007
- Machine Shop Committee, 2003-2004
- Thesis Committees (Jameson Rollins, 2010; Maurice Leutnegger, 2007; Jun Zhang, 2007; Adam Litz, 2005; John Peterson, 2004; Tzu-Ching Chang, 2004)

Selected Educational Outreach Activities

- Panelist, Plenary Session World Science Festival, “Afterglow: Dispatches from the Birth of the Universe”, 2012
- Moderator, Columbia World Leaders Forum, “What if we find the Higgs particle? And what if we don’t?”, 2012
- Enrichment Speaker business organizations, ongoing
- Enrichment Speaker community outreach, ongoing
- Invited Speaker, General Studies Alumni Event, New York, 2010
- Invited Speaker, Houston Alumni Organization, Houston, 2010
- Café Science Speaker, “Decoding Cosmic Cryptography, in Search of the Holy Grail”, 2007
- Leader of NSF REU (Research Experience for Undergraduates), 2005-2010
- Leader of NSF-funded partnership with School for Democracy and Leadership summer program for high school students, 2004-2010
- Leader of partnership with Renaissance Charter School for participation of high school students in the construction of the Sunyaev-Zel’dovich Array, 2002-2004

Selected Synergistic Activities

- Member, Council on Foreign Relations, 2008-present
- Chief Science Advisor, NYPD Counterterrorism Bureau, 2009-2010

- Physics Consultant to screenwriter Rachel Johnson for screenplay based on the life of Mileva Maric, 2007.
- Speaker at post-show forum, Epic Theater Center, 2006.
- Participant, Conference on Science and Politics, The New School, New York, NY, 2006
- Organizer, Roundtable Discussion at Columbia University with Union of Concerned Scientists on Scientific Integrity in Politics, 2005
- Speaker, “Satellite Verification of Nuclear Non-Proliferation Agreements”; talk given at The 11th International Summer Symposium on Science and World Affairs, Fudan University, Shanghai, China, 1999.

Postdoctoral Advising

- Will Grainger (former)
- Ross Williamson (former)
- Jonathan Zwart (former)
- Britt Reichborn-Kjennerud (current)

Graduate Advising (PhD students)

- Daniel Flanigan (current, co-supervisor)
- Derek Araujo (current)
- Daniel Chapman (current)
- Seth Hillbrand (current), NSF Graduate Fellow, 2010-present
- Joy Didier (current), NASA Graduate Fellow, 2011-present
- Robert Dumoulin (former)
- Marilena LoVerde (former, co-supervised)
- Britt Reichborn-Kjennerud (PhD 2010), NASA GSRP Fellow, 2007-2010; NSF AAP Postdoctoral Fellow, 2011-present
- Laura Newburgh (PhD 2010), Princeton Postdoctoral Scholar, 2010-present
- Tony Mroczkowski (PhD 2008), NASA Einstein Postdoctoral Fellow, 2009-present
- Stephen Muchovej (PhD 2008), NSF Graduate Fellow 2005-2008; NSF AAP Postdoctoral Fellow, 2008-present

Undergraduate Advising

Supervised approximately 50 undergraduate research students between 2002 and 2013

Selected Refereed Publications

- D. Marrone, G. P. Smith, N. Okabe, M. Bonamente, J. E. Carlstrom, T. L. Culverhouse, M. Gralla, C. Greer, N. Hasler, D. Hawkins, R. Hennessy, M. Joy, H. W. Lamb, E. M. Leitch, R. Martino, P. Mazzota, A. D. Miller, T. Mroczkowski, S. Muchovej, T. Plagge, C. Pryke, A. Sanderson, M. Takada, D. Woody, Y. Zhang, “LoCuSS: The Sunyaev-Zel'dovich Effect and Weak Lensing Mass Scaling Relation”, Under Review, *ApJ* (arXiv:1107.5115).
- M. Bonamente, N. Hasler, E. Bulbul, J. E. Carlstrom, T. L. Culverhouse, M. Gralla, C. Greer, D. Hawkins, R. Hennessy, M. Joy, J. Kolodziejczak, J. Lamb, D. Landry, E. M. Leitch, D. P. Marrone, A. D. Miller, T. Mroczkowski, S. Muchovej, T. Plagge, C. Pryke, M. Sharp, D. Woody, “Comparison of Pressure Profiles of Massive Relaxed Galaxy Clusters using the Sunyaev-Zel'dovich and X-ray Data”, *New Journal of Physics*, Volume 14, Issue 2, pp. 025010 (2012).
- N. Hasler, E. Bulbul, M. Bonamente, J. E. Carlstrom, T. L. Culverhouse, M. Gralla, D. Hawkins, R. Hennessy, M. Joy, H. W. Lamb, D. Landry, E. M. Leitch, A. Mantz, D. P.

- Marrone, A. D. Miller, T. Mroczkowski, S. Muchovej, T. Plagge, C. Pryke, D. Woody, “Analytic Modeling of the Physical Properties of Galaxy Clusters: Joint Analysis of X-ray and Sunyaev-Zel’dovich Observations, In Preparation, 2011. *Astronomy & Astrophysics*, Volume 533, id.A6, 2011.
- G. E. Bulbul, N. Hasler, M. Bonamente, M. Joy, D. Marrone, A. D. Miller, & T. Mroczkowski, “The effect of helium sedimentation on galaxy cluster masses and scaling relations”,
 - N. N. Jetha, M. J. Hardcastle, M. Bonamente, E. M. Leitch, A. D. Miller, and S. Muchovej, “Constraints on Spectral Aging of Radio Galaxy Jets from High-Frequency Observations with CARMA, In Preparation, 2011.
 - QUIET Collaboration: C. Bischoff, A. Brizius, I. Buder, Y. Chinone, K. Cleary, R. N. Dumoulin, A. Kusaka, R. Monsalve, S. K. Næss, L. B. Newburgh, R. Reeves, K. M. Smith, I. K. Wehus, J. A. Zuntz, J. T. L. Zwart, L. Bronfman, R. Bustos, S. E. Church, C. Dickinson, H. K. Eriksen, P. G. Ferreira, T. Gaier, J. O. Gundersen, M. Hasegawa, M. Hazumi, K. M. Huffenberger, M. E. Jones, P. Kangaslahti, D. J. Kapner, C. R. Lawrence, M. Limon, J. May, J. J. McMahon, A. D. Miller, H. Nguyen, G. W. Nixon, T. J. Pearson, L. Piccirillo, S. J. E. Radford, A. C. S. Readhead, J. L. Richards, D. Samtleben, M. Seiffert, M. C. Shepherd, S. T. Staggs, O. Tajima, K. L. Thompson, K. Vanderlinde, R. Williamson, B. Winstein, First Season QUIET Observations: Measurements of CMB Polarization Power Spectra at 43 GHz in the Multipole Range $25 < l < 475$, *ApJ*, 741, 111, 2011 (arXiv:1012.3191).
 - S. Muchovej, E. Leitch, J. E. Carlstrom, T. Culverhouse, C. Greer, D. Hawkins, R. Hennessy, M. Joy, J. Lamb, M. Loh, D. P. Marrone, A. D. Miller, T. Mroczkowski, C. Pryke, M. Sharp, D. Woody, “Cosmological Constraints from a 31 GHz Sky Survey with the Sunyaev-Zel’dovich Array”, *ApJ*, 732, 28, 2011 (arXiv:1012.1610).
 - M. B. Gralla, K. Sharon, M. D. Gladders, D. P. Marrone, L. F. Barrientos, M. Bayliss, M. Bonamente, E. Bulbul, J. E. Carlstrom, T. Culverhouse, D. G. Gilbank, C. Greer, N. Hasler, D. Hawkins, R. Hennessy, M. Joy, B. Koester, J. Lamb, E. Leitch, A. D. Miller, T. Mroczkowski, S. Muchovej, M. Oguri, T. Plagge, C. Pryke, D. Woody, “Sunyaev Zel’dovich Effect Observations of Strong Lensing Galaxy Clusters: Probing the Over-Concentration Problem”, *ApJ*, Volume 737, Issue 2, article id. 74 (2011).
 - T. L. Culverhouse, M. Bonamente, E. Bulbul, J. E. Carlstrom, M. Gralla, C. Greer, N. Hasler, D. Hawkins, R. Hennessy, N. N. Jetha, M. Joy, J. Lamb, E. M. Leitch, D. P. Marrone, A. D. Miller, T. Mroczkowski, S. Muchovej, C. Pryke, M. Sharp, D. Woody, S. Andreon, B. Maughan, S. A. Stanford, “Galaxy Clusters at $z \geq 1$: Gas Constraints from the Sunyaev-Zel’dovich Array”, *ApJL*, 723, 1:L78-L83, 2010 (arXiv:1007.2853).
 - S. Muchovej, E. Leitch, J. E. Carlstrom, T. Culverhouse, C. Greer, D. Hawkins, R. Hennessy, M. Joy, J. Lamb, M. Loh, D. P. Marrone, A. D. Miller, T. Mroczkowski, C. Pryke, M. Sharp, D. Woody “Radio Sources from a 31 GHz Sky Survey with the Sunyaev-Zel’dovich Array”, *ApJ*, 716, 1:521-529, 2010 (arXiv:0912.2335).
 - M. Sharp, D. P. Marrone, J. E. Carlstrom, T. Culverhouse, C. Greer, D. Hawkins, R. Hennessy, M. Joy, J. Lamb, E. M. Leitch, M. Loh, A. D. Miller, T. Mroczkowski, S. Muchovej, C. Pryke, and D. Woody, “A Measurement of Arcminute Anisotropy in the Cosmic Microwave Background with the Sunyaev-Zel’dovich Array”, *ApJ*, 713, 1:82-89 2010 (astro-ph/0901.4342).
 - D. Marrone, G. P. Smith, J. Richard, M. Joy, M. Bonamente, N. Hasler, V. Hamilton-Morris, J. Kneib, T. Culverhouse, J. E. Carlstrom, C. Greer, D. Hawkins, R. Hennessy, J. W. Lamb, E. M. Leitch, M. Loh, A. D. Miller, T. Mroczkowski, S. Muchovej, C. Pryke, M. K. Sharp, D. Woody, “LoCuSS: A Comparison of Sunyaev-Zel’dovich Effect and

- Gravitational Lensing Measurements of Galaxy Clusters, *ApJ*, 701, 2:L114-L118, 2009 (astro-ph/0907.1687).
- T. Mroczkowski, M. Bonamente, J. E. Carlstrom, T. Culverhouse, C. Greer, D. Hawkins, R. Hennessy, M. Joy, J. Lamb, E. M. Leitch, M. Loh, B. Maughan, D. P. Marrone, A. D. Miller, D. Nagai, S. Muchovej, C. Pryke, M. Sharp, and D. Woody, “Application of a Self-Similar Pressure Profile to Sunyaev-Zel’dovich Effect Data from Galaxy Clusters”, *ApJ*, 694:1034-1044, 2009 (astro-ph/08095077).
 - M. LoVerde, A. D. Miller, S. Shandera, and L. Verde, “Effects of Scale-Dependent Non-Gaussianity on Cosmological Structure”, *JCAP*, 0804, 014, 2008 (astro-ph/0711.4126v3).
 - S. Muchovej, J. Carlstrom, J. Cartwright, C. Greer, D. Hawkins, R. Hennessy, M. Joy, E. Leitch, M. Loh, A. D. Miller, T. Mroczkowski, C. Pryke, B. Reddall, M. Runyan, M. Sharp, and D. Woody, “Observations of High-Redshift X-ray Selected Clusters with the Sunyaev-Zel’dovich Array”, *ApJ*, 663, 708, 2007 (astro-ph/0610115).
 - A. Oliveira-Costa, M. Tegmark, M. Devlin, L. Page, A. Miller, B. Netterfield, Y. Xu, “How accurately can suborbital experiments measure the CMB?”, *Phys. Rev. D*, 71, 2005. (astro-ph/0406375).
 - M. R. Nolta, M. J. Devlin, W. B. Dorwart, A. D. Miller, L. A. Page, J. Puchalla, E. Torbet, H. T. Tran, “The MAT/TOCO Measurement of the Angular Power Spectrum of the Cosmic Microwave Background at 30 and 40 GHz”, *ApJ*, 598:97-101, 2003.
 - S. J. LaRoque, M. Joy, J. E. Carlstrom, H. Ebeling, M. Bonamente, K. S. Dawson, A. Edge, W. L. Holzzapfel, A. D. Miller, D. Nagai, S. K. Patel, and E. D. Reese, “Sunyaev-Zel’dovich Imaging of MACS Galaxy Clusters at $z > 0.5$ ”, *ApJ*, 583:559, 2003.
 - K. S. Dawson, W. L. Holzzapfel, J. E. Carlstrom, S. J. LaRoque, A. D. Miller, D. Nagai, M. Joy, "Measurement of Arcminute Scale Anisotropy with the BIMA Array", *ApJ*, 581:86 – 95, 2002 (astro-ph/0206012).
 - A. D. Miller, J. Beach, S. Bradley, R. Caldwell, H. Chapman, M. Devlin, W. B. Dorwart, T. Herbig, D. Jones, G. Monnelly, C. B. Netterfield, M. Nolta, L. A. Page, J. Puchalla, T. Robertson, E. Torbet, H. Tran, and B. Vinje, "The QMAP and MAT/TOCO Experiments for Measuring Anisotropy in the Cosmic Microwave Background" *ApJS*, 140:115-141, 2002 (astro-ph/0108030).
 - Y. Xu, M. Tegmark, A. de Oliveira-Costa, M. J. Devlin, T. Herbig, A. D. Miller, C. B. Netterfield, L. Page, "Comparing and combining the Saskatoon, QMAP and COBE CMB maps", *Phys. Rev. D*, 63, 103002, 2001 (astro-ph/0010522).
 - A. de Oliveira-Costa, M. Tegmark, M. J. Devlin, L. M. Haffner, T. Herbig, A. D. Miller, L. A. Page, R. J. Reynolds, & S. L. Tufte, "Galactic contamination in the QMAP experiment", *ApJ*, 542:L5-L8, 2000 (astro-ph/0003090).
 - A. D. Miller, R. Caldwell, M. J. Devlin, W. B. Dorwart, T. Herbig, M. Nolta, L. A. Page, J. Puchalla, E. Tobet, and H. T. Tran, "A Measurement of the Angular Power Spectrum of the CMB from 1-100 to 400", *ApJ*, 524:L1-4, 1999 (astro-ph/9906421).
 - E. Torbet, M. J. Devlin, W. B. Dorwart, A. D. Miller, L. A. Page, and H. T. Tran, “A Measurement of the Angular Power Spectrum of the Microwave Background Made from the High Chilean Andes.” *ApJ*, 521:L79, 1999 (astro-ph/9905100).
 - A. de Oliveira-Costa, M. J. Devlin, T. Herbig, A. D. Miller, L. A. Page, and M. Tegmark, “Mapping the Cosmic Microwave Background Anisotropy: Combined Analysis of QMAP Flights.” *ApJ*, 509:L77, 1998 (astro-ph/9808045).
 - T. Herbig, A. de Oliveira-Costa, M. J. Devlin, A. D. Miller, L. A. Page, and M. Tegmark, “Mapping the Cosmic Microwave Background Anisotropy: The Second Flight of the QMAP Experiment.” *ApJ*, 509:L73, 1998 (astro-ph/9808044).

- M. J. Devlin, A. de Oliveira-Costa, T. Herbig, A. D. Miller, C. B. Netterfield, L. A. Page, and M. Tegmark, “Mapping the Cosmic Microwave Background Anisotropy: The First Flight of the QMAP Experiment.” *ApJ*, 509:L69, 1998 (astro-ph/9808043).
- M. Davis, A. D. Miller, and S. White, “A Galaxy-Weighted Measure of the Relative Peculiar Velocity Dispersion.” *ApJ*, 490:63-71, 1997 (astro-ph/9705224).

Selected White Papers & Conference Proceedings

- A. Amblard et al., “A Program of Technology Development and of Sub-Orbital Observations of the Cosmic Microwave Background Polarization Leading to and Including a Satellite Mission”, *Project Paper submitted to the US Astro2010 Decadal Survey*, 2009.
- M. A. Miville-Deschenes, S. Meyer, A. Miller, S. K. Naess, L. Page, H. V. Peiris, N. Phillips, E. Pierpaoli, G. Rocha, J. E. Vaillancourt, L. Verde, “CMBPol Mission Concept Study: Prospects for polarized foreground removal”, astro-ph/08113915, 2008.
- S. S. Meyer, J. Bock, J. Borrill, A. Cooray, S., Dodelson, J. Dunkley, K. Gorski, S. Hanany, G. Hinshaw, K. Irwin, B. Keating, A. Kogut, C. Lawrence, A. Lee, A. Miller, L. Page, J. Ruhl, M. Seiffert M. Shimon, and M. Zaldarriaga, “The CMB as a Probe of Inflation; A Report by the CMBPol Strategic Mission Concept Study”, *White Paper submitted to NASA*, April 24th, 2009.
- J. Aguirre et al., Full list of 177 author available at <http://cmbpol.uchicago.edu> , “Observing the Evolution of the Universe”, *Science White Paper submitted to the US Astro2010 Decadal Survey*, 2009. (astro-ph/0903.0902).
- S. Golwala, J. Aguirre, K. Basu, B. Benson, F. Bertoldi, J. Burns, S. Church, M. Devlin, M. Dobbs, J. Fowler, E. Hallman, W. Holzapfel, A. Kravtsov, A. Lee, D. Marrone, B. Mason, A. D. Miller, S. Myers, D. Nagai, M. Nord, L. Page, C. Pfrommer, D. Pierpaoli, J. Ruhl, G. Wilson, “Understanding the State of the Intracluster Medium in Galaxy Clusters”, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, 97, 2009
- S. Golwala, J. Aguirre, K. Basu, B. Benson, F. Bertoldi, J. Burns, S. Church, M. Devlin, M. Dobbs, J. Fowler, E. Hallman, W. Holzapfel, A. Kravtsov, A. Lee, D. Marrone, B. Mason, A. D. Miller, S. Myers, D. Nagai, M. Nord, L. Page, C. Pfrommer, E. Pierpaoli, J. Ruhl, G. Wilson, “Calibrating Galaxy Clusters as a Tool for Cosmology via Studies of the Intracluster Medium”, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, 96, 2009
- S. Dodelson, et al. (Full list of authors available at <http://cmbpol.uchicago.edu>.) “The Origin of the Universe as Revealed Through the Polarization of the Cosmic Microwave Background”, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, 67, 2009 (astro-ph/0902.3796).
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