List of Publications – Mathew Madhavacheril

h-index: 45 8900+ citations

Last updated: February 15, 2024

Legend:

indicates that I supervised or co-supervised the corresponding student-led publication.

✓ indicates that it has been accepted in a journal after peer-review.

indicates that it is intended for peer-review but has not been accepted yet.

Out of 106 articles, 86 are intended for peer-review and 80 of those have been accepted.

Papers with major contributions

- 1. Constraints on Dark Matter-Dark Energy Scattering from ACT DR6 CMB Lensing A. Lague, F. McCarthy, MS Madhavacheril, J. C. Hill, F. J. Qu, 02/2024, arxiv:2402.08149, to be submitted to PRD
- 2. ✓ The Atacama Cosmology Telescope: High-resolution component-separated maps across one-third of the sky
 - W. R. Coulton, **MS Madhavacheril**, A. J. Duivenvoorden, J. Colin Hill et al ACT, 07/2023, arxiv:2307.01258, accepted, to appear in PRD
- 3. ✓ Cosmological constraints from the tomography of DES-Y3 galaxies with CMB lensing from ACT DR4
 - G. Marques, MS Madhavacheril et al ACT, 07/2023, arxiv:2306.17268, accepted, to appear in JCAP
- 4. ✓ The Atacama Cosmology Telescope: DR6 Gravitational Lensing Map and Cosmological Parameters
 - MS Madhavacheril, F. J. Qu, B. D. Sherwin, N. MacCrann, Y. Li et al ACT, 04/2023, arxiv:2304.05203, accepted, to appear in ApJ
- 5. The Atacama Cosmology Telescope: A Measurement of the DR6 CMB Lensing Power Spectrum and its Implications for Structure Growth
 - F. J. Qu, B. D. Sherwin, **MS Madhavacheril**, D. Han, K. T. Crowley et al ACT, 04/2023, arxiv:2304.05202, accepted, to appear in ApJ
- 6. ✓ The Atacama Cosmology Telescope: Mitigating the impact of extragalactic foregrounds for the DR6 CMB lensing analysis
 - N. MacCrann, B. D. Sherwin, F. J. Qu, T. Namikawa, **MS Madhavacheril**, 04/2023, arxiv:2304.05196, accepted, to appear in ApJ
- 7. ✓ The Atacama Cosmology Telescope: Map-Based Noise Simulations for DR6 Z. Atkins et al ACT (incl. MS Madhavacheril), 03/2023, arxiv:2303.04180, JCAP11(2023)073
- 8. ✓ High-accuracy emulators for observables in LCDM and extended cosmologies
 B. Bolliet, A. Spurio Mancini, J. Hill, MS Madhavacheril et al, 03/2023, arxiv:2303.01591, accepted, to appear in MNRAS

- 9. ✓ Constraints on primordial non-Gaussianity from halo bias measured through CMB lensing cross-correlations
 - F. McCarthy, **MS Madhavacheril**, A. Maniyar, 10/2022, arxiv:2210.01049, *Phys. Rev. D* 108, 083522
- 10. ✓ De-kSZing the cosmic microwave background with surveys of large-scale structure S. Foreman, S. Hotinli, **MS Madhavacheril**, A. van Engelen, C. Kreisch, 09/2022, arxiv:2209.03973, *Phys. Rev. D* 107, 083502
- 11. ✓ Probing early structure and model-independent neutrino mass with high-redshift CMB lensing mass maps

 F. I. Ou, B. D. Sherwin, O. Darwish, T. Namikawa, MS Madhavacheril, 08/2022, arviv:2208.04
 - F. J. Qu, B. D. Sherwin, O. Darwish, T. Namikawa, **MS Madhavacheril**, 08/2022, arxiv:2208.04253, *Phys. Rev. D* 107, 123540
- 12. The Bias to Cosmic Microwave Background Lensing Reconstruction from the Kinematic Sunyaev-Zel'dovich Effect at Reionization H. Cai, MS Madhavacheril, J. C. Hill, A. Kosowsky, 11/2021, arxiv:2111.01944, Phys. Rev. D 105, 043516
- ✓ Cosmology with the moving lens effect
 S. C. Hotinli, K. M. Smith, MS Madhavacheril, M. Kamionkowski, 08/2021, arxiv:2108.02207, Phys. Rev. D 104, 083529
- 15. ✓ A high-resolution view of the filament of gas between Abell 399 and Abell 401 from the Atacama Cosmology Telescope and MUSTANG-2
 A. Hincks, F. Radiconi, C. Romero, MS Madhavacheril et al. ACT and MUSTANG-2 collaborations, 07/2021, arxiv:2107.04611, MNRAS, Volume 510, Issue 3
- 16. Superclustering with the Atacama Cosmology Telescope and Dark Energy Survey: I. Evidence for thermal energy anisotropy using oriented stacking M. Lokken, R. Hlozek, A. van Engelen, MS Madhavacheril et al. ACT and DES collaborations, 07/2021, arxiv:2107.05523, ApJ 933 134
- 17.

 ☑ Baryonic feedback biases on fundamental physics from lensed CMB power spectra

 F. McCarthy, J. C. Hill, MS Madhavacheril, 03/2021, arxiv:2103.05582, Phys. Rev. D 105, 023517
- 18. Combining information from multiple cosmological surveys: inference and modeling challenges D. Alonso et al (incl. **MS Madhavacheril**), 03/2021, arxiv:2103.05320, response to DOE/NASA RFI
- ✓ The Atacama Cosmology Telescope: Summary of DR4 and DR5 Data Products and Data Access
 Mallaby-Kay et al (incl. MS Madhavacheril), 03/2021, arxiv:2103.03154, ApJS 255 11
- Quadratic estimators for CMB weak lensing
 A. Maniyar, Y. Ali-Haimoud, J. Carron, A. Lewis, MS Madhavacheril, 01/2021, arxiv:2101.12193,
 Phys. Rev. D 103, 083524 (2021)

- 22. ✓ CMB lensing power spectrum estimation without instrument noise bias MS Madhavacheril, K. Smith, B. Sherwin, S. Naess, 11/2020, arxiv:2011.02475, JCAP, Volume 2021, 028
- 23. ✓ The Atacama Cosmology Telescope: Weighing distant clusters with the most ancient light MS Madhavacheril, C. Sifon, N. Battaglia et al. ACT collaboration, 09/2020, arxiv:2009.07772, ApJ Letters, 903, 1
- 24. ✓ The Atacama Cosmology Telescope: A Catalog of more than 4000 Sunyaev-Zel'dovich Galaxy Clusters
 M. Hilton, C. Sifón, S. Naess, MS Madhavacheril et al. ACT, DES, HSC, KiDS collaborations, 09/2020, arxiv:2009.11043, ApJS 253 3
- 25. ✓ The Atacama Cosmology Telescope: A Measurement of the Cosmic Microwave Background Power Spectra at 98 and 150 GHz
 S. Choi et al. ACT collaboration (incl. MS Madhavacheril), 07/2020, arxiv:2007.07289, JCAP12(2020)045
- 26. ✓ The Atacama Cosmology Telescope: DR4 Maps and Cosmological Parameters S. Aiola et al. ACT collaboration (incl. MS Madhavacheril), 07/2020, arxiv:2007.07288, JCAP12(2020)047
- 27. ✓ The Atacama Cosmology Telescope: Delensed Power Spectra and Parameters D. Han, N. Sehgal, A. MacInnis, A. van Engelen, B. D. Sherwin, MS Madhavacheril et al. ACT collaboration, 07/2020, arxiv:2007.14405, JCAP, Issue 01, article id. 031 (2021)
- 29. ✓ The Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel'dovich effect
 MS Madhavacheril, J. C. Hill, S. Naess et al. ACT Collaboration, 11/2019, arxiv:1911.05717, Physical Review D 102 (2), 023534
- 31.

 ✓ Improving Small-Scale CMB Lensing Reconstruction

 B Hadzhiyska, BD Sherwin, MS Madhavacheril, S Ferraro, 05/2019, arxiv:1905.04217,

 Physical Review D 100 (2), 023547
- 32. ✓ Constraining neutrino mass with the tomographic weak lensing one-point probability distribution function and power spectrum

 J Liu, MS Madhavacheril, 04/2019, arxiv:1809.10747, Physical Review D 99 (8), 083508

- 34. ✓ The Simons Observatory: science goals and forecasts
 Ade et al. Simons Observatory Collaboration (incl. MS Madhavacheril), 02/2019, arxiv:1808.07445,

 Journal of Cosmology and Astroparticle Physics 2019 (02), 056
- 36. ✓ Cosmology with kSZ: breaking the optical depth degeneracy with Fast Radio Bursts MS Madhavacheril, N Battaglia, KM Smith, JL Sievers, 01/2019, arxiv:1901.02418, Physical Review D 100 (10), 103532
- 37.

 ✓ Disentangling dark physics with cosmic microwave background experiments

 Z Li, V Gluscevic, KK Boddy, MS Madhavacheril, 12/2018, arxiv:1806.10165, Physical

 Review D (12), 123524
- 38. KSZ tomography and the bispectrum KM Smith, MS Madhavacheril, M Münchmeyer, S Ferraro, U Giri, MC Johnson, 10/2018, arxiv:1810.13423, in review by Physical Review D
- 39. ✓ Constraining local non-Gaussianities with kSZ tomography M Münchmeyer, MS Madhavacheril, S Ferraro, MC Johnson, KM Smith, 10/2018, arxiv:1810.13424, Physical Review D 100, 083508
- 40. ✓ Mitigating foreground biases in CMB lensing reconstruction using cleaned gradients MS Madhavacheril, JC Hill, 07/2018, arxiv:1802.08230, Physical Review D 98 (2), 023534
- 41. The weight of cosmic lenses (invited News and Views article; not peer-reviewed) MS Madhavacheril, 11/2017, Nature Astronomy 1 (11), 751-752

D 96 (10), 103525

- ✓ Fundamental physics from future weak-lensing calibrated Sunyaev-Zel'dovich galaxy cluster counts
 MS Madhavacheril, N Battaglia, H Miyatake, 11/2017, arxiv:1708.07502, Physical Review
- 43. ✓ Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum BD Sherwin, A Van Engelen, N Sehgal, MS Madhavacheril et al. ACTPol Collaboration, 06/2017, arxiv:1611.09753, Physical Review D 95 (12), 123529
- 44. ✓ Internal delensing of cosmic microwave background acoustic peaks
 N Sehgal, MS Madhavacheril, B Sherwin, A van Engelen, 05/2017, arxiv:1612.03898, Physical Review D (10), 103512
- 45. ✓ Measurement of a cosmographic distance ratio with galaxy and cosmic microwave background lensing
 H Miyatake, MS Madhavacheril, N Sehgal, A Slosar, DN Spergel, B Sherwin, A van Engelen, 04/2017, arxiv:1605.05337, Physical Review Letters 118 (16), 161301

- 46. CMB-S4 science book Abazajian et al. CMB-S4 collaboration (incl. **MS Madhavacheril**), 10/2016, arxiv:1610.02743, unsubmitted (for arXiv only)
- 47. ✓ The Atacama Cosmology Telescope: Evidence of lensing of the cosmic microwave background by dark matter halos
 MS Madhavacheril, N Sehgal et al. ACTPol Collaboration, 04/2015, arxiv:1411.7999, Physical Review Letters 114 (15), 151302
- 48. Building unbiased estimators from non-Gaussian likelihoods with application to shear estimation
 - MS Madhavacheril, P McDonald, N Sehgal, A Slosar, 01/2015, arxiv:1407.1906, Journal of Cosmology and Astroparticle Physics 2015 (01), 022
- 49. ✓ Current dark matter annihilation constraints from CMB and low-redshift data MS Madhavacheril, N Sehgal, TR Slatyer, 05/2014, arxiv:1310.3815, Physical Review D 89 (10), 103508

Papers with some contribution

- 50. Constraining gravity with a new precision EG estimator using Planck + SDSS BOSS L. Wenzl, R. Bean, S. Chen, G. Farren, MS Madhavacheril et al, 01/2024, arxiv:2401.12971, submitted to PRD
- 51. The Atacama Cosmology Telescope: Detection of Patchy Screening of the Cosmic Microwave Background
 W. Coulton et al ACT collaboration (incl. MS Madhavacheril), 01/2024, arxiv:2401.13033, submitted to Science
- 52. class_sz I: Overview
 B. Bolliet et al (incl. MS Madhavacheril), 10/2023, arxiv:2310.18482, to appear in Proc. of the mm Universe 2023 conference, Grenoble (France)
- 53. ✓ Cosmology from Cross-Correlation of ACT-DR4 CMB Lensing and DES-Y3 Cosmic Shear S. Shaikh et al. ACT and DES collaborations (incl. MS Madhavacheril), 09/2023, arxiv:2309.04412, MNRAS, Volume 528, Issue 2
- 54. The Atacama Cosmology Telescope: Cosmology from cross-correlations of unWISE galaxies and ACT DR6 CMB lensing G S. Farren et al ACT (incl. MS Madhavacheril), 09/2023, arxiv:2309.05659, submitted to ApJ
- 55. The Atacama Cosmology Telescope: Flux Upper Limits from a Targeted Search for Extragalactic Transients
 Hervias-Caimapo et al ACT (incl. MS Madhavacheril), 01/2023, arxiv:2301.07651, submitted to MNRAS
- 56. ✓ The Atacama Cosmology Telescope: limits on dark matter-baryon interactions from DR4 power spectra
 Z. Li et al ACT collaboration (incl. MS Madhavacheril), 08/2022, arxiv:2208.08985, JCAP02(2023)046

- 57. ✓ The Atacama Cosmology Telescope: The Persistence of Neutrino Self-Interaction in Cosmological Measurements
 C. D. Kreisch et al ACT collaboration (incl. MS Madhavacheril), 07/2022, arxiv:2207.03164, Phys. Rev. D 109, 043501
- 59. Snowmass 2021 CMB-S4 White Paper Abazajian et al. CMB-S4 collaboration (incl. **MS Madhavacheril**), 03/2022, arxiv:2203.08024, Contribution to Snowmass 2021
- 60. ✓ The Atacama Cosmology Telescope: Measurement and Analysis of 1D Beams for DR4
 M. Lungu et al ACT collaboration (incl. MS Madhavacheril), 12/2021, arxiv:2112.12226, JCAP 05 (2022) 044
- 61. ✓ The Simons Observatory: a new open-source power spectrum pipeline applied to the Planck legacy data
 Z. Li et al Simons Observatory collaboration (incl. MS Madhavacheril), 12/2021, arxiv:2112.13839, JCAP 09 (2023) 048
- 62. ✓ The Simons Observatory: Constraining inflationary gravitational waves with multi-tracer B-mode delensing
 T. Namikawa et al SO collaboration (incl. MS Madhavacheril), 10/2021, arxiv:2110.09730, Phys. Rev. D 105, 023511
- 63. ✓ The Atacama Cosmology Telescope: Constraints on Pre-Recombination Early Dark Energy J. C. Hill, E. Calabrese et al ACT collaboration (incl. MS Madhavacheril), 09/2021, arxiv:2109.04451, Phys. Rev. D 105, 123536
- 64. ✓ Cross-correlation of DES Y3 lensing and ACT/Planck thermal Sunyaev Zel'dovich Effect I: Measurements, systematics tests, and feedback model constraints M. Gatti et al ACT and DES collaborations (including MS Madhavacheril), 08/2021, arxiv:2108.01600, Phys. Rev. D 105, 123525
- 65. ✓ Cross-correlation of DES Y3 lensing and ACT/Planck thermal Sunyaev Zel'dovich Effect II: Modeling and constraints on halo pressure profiles
 S. Pandey et al ACT and DES collaborations (including MS Madhavacheril), 08/2021, arxiv:2108.01601, Phys. Rev. D 105, 123526
- 66. ✓ The Atacama Cosmology Telescope: Microwave Intensity and Polarization Maps of the Galactic Center
 Y. Guan et al. ACT collaboration (including MS Madhavacheril), 05/2021, arxiv:2105.05267, ApJ 920 6
- 67. ✓ The mass and galaxy distribution around SZ-selected clusters
 T. Shin et al. ACT collaboration (incl. MS Madhavacheril), 05/2021, arxiv:2105.05914, MNRAS, Volume 507, Issue 4
- 68. ✓ The Atacama Cosmology Telescope: A search for Planet 9
 S. Naess et al. ACT collaboration (incl. MS Madhavacheril), 04/2021, arxiv:2104.10264, ApJ 923 224

- 69. ✓ The Atacama Cosmology Telescope: Probing the Baryon Content of SDSS DR15 Galaxies with the Thermal and Kinematic Sunyaev-Zel'dovich Effects
 E. Vavagiakis et al. ACT collaboration (incl. MS Madhavacheril), 01/2021, arxiv:2101.08373, Phys. Rev. D 104, 043503 (2021)
- 70. ✓ The Atacama Cosmology Telescope: Detection of the Pairwise Kinematic Sunyaev-Zel'dovich Effect with SDSS DR15 Galaxies
 V. Calafut et al. ACT collaboration (incl. MS Madhavacheril), 01/2021, arxiv:2101.08374, Phys. Rev. D 104, 043502 (2021)
- 71. NDRIO White Paper: Envisioning Digital Research Infrastructure for the Simons Observatory A. Hincks et al. (incl. MS Madhavacheril), 12/2020, arxiv:2012.12205, NDRIO white paper
- 72. ✓ The Atacama Cosmology Telescope: Detection of mm-wave transient sources S. Naess et al. ACT collaboration (incl. MS Madhavacheril), 12/2020, arxiv:2012.14347, Ap.J 915 14
- 73. ✓ Strong detection of the CMB lensing x galaxy weak lensing cross-correlation from ACT-DR4, Planck Legacy and KiDS-1000
 N. Robertson et al. ACT collaboration, 11/2020, arxiv:2011.11613, A&A 649, A146 (2021)
- 74. ✓ The Simons Observatory: Bandpass and polarization-angle calibration requirements for B-mode searches
 M. Abitbol et al Simons Observatory collaboration (incl. MS Madhavacheril), 11/2020, arxiv:2011.02449, JCAP05(2021)032
- 75. ✓ The Atacama Cosmology Telescope: Combined kinematic and thermal Sunyaev-Zel'dovich measurements from BOSS CMASS and LOWZ halos
 E. Schaan et al. ACT collaboration (incl. MS Madhavacheril), 09/2020, arxiv:2009.05557, Phys. Rev. D 103, 063513 (2021)
- 76. ✓ The Atacama Cosmology Telescope: Modelling the Gas Thermodynamics in BOSS CMASS galaxies from Kinematic and Thermal Sunyaev-Zel'dovich Measurements
 S. Amodeo et al. ACT collaboration (incl. MS Madhavacheril), 09/2020, arxiv:2009.05558
 , Phys. Rev. D 103, 063514 (2021)
- 77. ✓ CMB-S4: Forecasting Constraints on Primordial Gravitational Waves CMB-S4 collaboration (incl. MS Madhavacheril), 08/2020, arxiv:2008.12619, ApJ 926 54
- ✓ Probing galaxy evolution in massive clusters using ACT and DES: splashback as a cosmic clock
 S. Adhikari et al. ACT, DES collaborations (incl. MS Madhavacheril), 08/2020, arxiv:2008.11663, ApJ 923 37
- 79. ✓ The Atacama Cosmology Telescope: Arcminute-resolution maps of 18,000 square degrees of the microwave sky from ACT 2008-2018 data combined with Planck S. Naess et al. ACT collaboration (incl. MS Madhavacheril), 07/2020, arxiv:2007.07290, JCAP12(2020)046
- 80. ✓ The cross correlation of the ABS and ACT maps
 Z. Li et al. ACT collaboration (incl. MS Madhavacheril), 02/2020, arxiv:2002.05717,
 Journal of Cosmology and Astroparticle Physics 09(2020)010

- 81. CMB-HD: Astro2020 RFI Response N Sehgal et al. (incl. **MS Madhavacheril**), 02/2020, arxiv:2002.12714, response to Astro2020 Decadal RFI
- 82. ✓ Constraints on Cosmic Birefringence T. Namikawa et al. ACT collaboration (incl. MS Madhavacheril), 01/2020, arxiv:2001.10465, Physical Review D 101 (8), 083527
- 83. Microwave Spectro-Polarimetry of Matter and Radiation across Space and Time Delabrouille et al. (incl. MS Madhavacheril), 09/2019, arxiv:1909.01591, Science White Paper submitted in response to the ESA Voyage 2050 call
- 84. A Space Mission to Map the Entire Observable Universe using the CMB as a Backlight Basu et al. (incl. MS Madhavacheril), 09/2019, arxiv:1909.01592, Science White Paper submitted in response to the ESA Voyage 2050 call
- 85. Astro2020 APC White Paper, Project: The Simons Observatory
 Abitbol et al. Simons Observatory collaboration (incl. **MS Madhavacheril**), 09/2019,
 arxiv:1907.08284, Bulletin of the American Astronomical Society
- 86. CMB-S4 Science Case, Reference Design, and Project Plan Abazajian et al. CMB-S4 collaboration (incl. **MS Madhavacheril**), 07/2019, arxiv:1907.04473, submitted as a Decadal Survey Report
- 87. CMB-S4 Decadal Survey APC White Paper Abazajian et al. CMB-S4 collaboration (incl. **MS Madhavacheril**), 07/2019, arxiv:1908.01062, Project White Paper submitted to the 2020 Decadal Survey
- 88. CMB-HD: An Ultra-Deep, High-Resolution Millimeter-Wave Survey Over Half the Sky N Sehgal et al. CMB-HD collaboration (incl. MS Madhavacheril), 06/2019, arxiv:1906.10134, submitted to Astro2020 Decadal Survey
- 89. ✓ Measurement of the splashback feature around SZ-selected Galaxy clusters with DES, SPT, and ACT
 T Shin et al. DES, SPT and ACT collaborations (incl. MS Madhavacheril), 05/2019, arxiv:1811.06081, Monthly Notices of the Royal Astronomical Society 487 (2), 2900-2918
- 90. ✓ Weak-lensing Mass Calibration of ACTPol Sunyaev–Zel'dovich Clusters with the Hyper Suprime-Cam Survey
 H Miyatake et al. ACTPol and HSC collaborations (incl. MS Madhavacheril), 04/2019, arxiv:1804.05873, The Astrophysical Journal 875 (1), 63
- 91. Primordial Non-Gaussianity
 D Meerburg et al (incl. **MS Madhavacheril**), 03/2019, arxiv:1903.04409, submitted to Astro2020 Decadal Survey
- 92. Science from an Ultra-Deep, High-Resolution Millimeter-Wave Survey N Sehgal et al. (incl. **MS Madhavacheril**), 03/2019, arxiv:1903.03263, submitted to Astro2020 Decadal Survey
- 93. Cosmological Probes of Dark Matter Interactions: The Next Decade V Gluscevic et al. (incl. MS Madhavacheril), 03/2019, arxiv:1903.05140, submitted to Astro2020 Decadal Survey

- 94. Messengers from the Early Universe: Cosmic Neutrinos and Other Light Relics
 D Green et al. (incl. MS Madhavacheril), 03/2019, arxiv:1903.04763, submitted to Astro2020 Decadal Survey
- 95. Probing Feedback in Galaxy Formation with Millimeter-wave Observations N Battaglia et al. (incl. MS Madhavacheril), 03/2019, arxiv:1903.04647, submitted to Astro2020 Decadal Survey
- 96. PICO: Probe of Inflation and Cosmic Origins S Hanany et al. (incl. MS Madhavacheril), 02/2019, arxiv:1902.10541, submitted to Astro2020 Decadal Survey
- 97. ✓ The Atacama Cosmology Telescope: Non-Gaussianity of secondary anisotropies from ACT-Pol and Planck
 WR Coulton et al. ACTPol Collaboration (incl. MS Madhavacheril), 09/2018, arxiv:1711.07879,

 Journal of Cosmology and Astroparticle Physics 2018 (09), 022
- 98. MassiveNuS: cosmological massive neutrino simulations
 J Liu, S Bird, JMZ Matilla, JC Hill, Z Haiman, MS Madhavacheril, A Petri, DN Spergel,
 03/2018, arxiv:1711.10524, Journal of Cosmology and Astroparticle Physics 2018 (03), 049
- 99. ✓ The Atacama Cosmology Telescope: the two-season ACTPol Sunyaev-Zel'dovich effect selected cluster catalog
 M Hilton et al. ACTPol Collaboration (incl. MS Madhavacheril), 03/2018, arxiv:1709.05600, The Astrophysical Journal Supplement Series 235 (1), 20
- 100. Two-season ACTPol spectra and parameters T Louis et al. ACTPol Collaboration (incl. MS Madhavacheril), 06/2017, arxiv:1610.02360, Journal of Cosmology and Astroparticle Physics 2017 (06), 031
- 101. ✓ Detection of the pairwise kinematic Sunyaev-Zel'dovich effect with BOSS DR11 and the Atacama Cosmology Telescope
 F De Bernardis et al. ACTPol Collaboration (incl. MS Madhavacheril), 03/2017, arxiv:1607.02139, Journal of Cosmology and Astroparticle Physics 2017 (03), 008
- 102. ✓ Survey strategy optimization for the Atacama Cosmology Telescope
 F De Bernardis et al. ACTPol Collaboration (incl. MS Madhavacheril), 07/2016, arxiv:1607.02120,
 Observatory Operations: Strategies, Processes, and Systems VI 9910, 991014
- 103. ✓ The Atacama Cosmology Telescope: Evidence for the kinematic Sunyaev-Zel'dovich effect with the Atacama Cosmology Telescope and velocity reconstruction from the Baryon Oscillation Spectroscopic Survey
 E. Schaan et al. ACTPol Collaboration (incl. MS Madhavacheril), 04/2016, arxiv:1510.06442, Physical Review D 93 (8), 082002
- 104. The Atacama Cosmology Telescope: Lensing of CMB temperature and polarization derived from cosmic infrared background cross-correlation
 A. van Engelen et al. ACTPol collaboration (incl. MS Madhavacheril), 07/2015, arxiv:1412.0626, The Astrophysical Journal 808 (1), 7
- 105. ✓ The Atacama Cosmology Telescope: Measuring radio galaxy bias through cross-correlation with lensing

R Allison et al. ACTPol Collaboration (incl. MS Madhavacheril), 05/2015, arxiv:1502.06456, Monthly Notices of the Royal Astronomical Society 451 (1), 849-858

106. ✓ CMB polarization at 200 < ℓ < 9000
 S Naess et al. ACTPol Collaboration (incl. MS Madhavacheril), 10/2014, arxiv:1405.5524, Journal of Cosmology and Astroparticle Physics 2014 (10), 007