

Brendan Crill

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Education

- 2001 **PhD Physics**, *California Institute of Technology*, Pasadena, CA, USA.
Thesis title: *A Measurement of the Angular Power Spectrum of the Cosmic Microwave Background with a Long Duration Balloon-Borne Receiver*. Adviser: Andrew Lange
- 1995 **Sc.B. Physics**, *Brown University*, Providence, RI, USA.

NASA Roles

- 2023 – co-I, Pipeline Manager, Roman Cosmology Project Infrastructure Team (PIT)
- 2016 – Deputy Program Chief Technologist, NASA Exoplanet Exploration Program Office
- 2015 – co-I, Science Data Pipeline Architect, SPHEREx
- 2017 – 2018 co-I, PICO (inflation probe) concept study
- 2008 – 2017 Planck HFI instrument data analysis lead

Employment

- 2008 – Staff Scientist, Jet Propulsion Laboratory
- 2007 – 2008 Visiting Professor, Astronomy Department, University of Toronto
- 2004 – 2007 Staff Scientist, IPAC, Caltech
- 2002 – 2004 Assistant Professor of Physics, California State University, Dominguez Hills
- 2001 – 2002 Adjunct Physics Professor, California State University, San Bernardino

Research Interests

- Exoplanets: Terrestrial exoplanet atmosphere characterization; Vis/NIR direct imaging space technology; detectors, coronagraph technology, starshade technology
- Cosmology: Cosmic Microwave Background (CMB) and Large Scale Structure constraints on fundamental physics.
- Scientific Computation: Algorithm development. High performance computing.
- Instrumentation: Infrared detectors and optics; cryogenic detector systems

Awards

- 2018 Gruber cosmology prize (with Planck team)
- 2014 NASA Exceptional Service Medal
- 2013 JPL Mariner award
- 2011 JPL Ranger award
- 2004 NASA Faculty Fellowship
- 1999 Everhart Lectureship, Caltech

- 1995 R. Bruce Lindsay Prize, Brown University
- 1991 National Scholarship, Brown University

Invited Talks

- August 4, 2020 *SPHEREx: NASA's Near-Infrared Spectroscopic All-sky Survey*, Brown University Center for Fundamental Physics of the Universe seminar.
- April 16, 2016 *Planck and the Reionization of the Universe*, American Physical Society April meeting.
- January 19, 2016 *Measuring Fundamental Physics with Planck and the Cosmic Microwave Background*, Oskar Klein Center, University of Stockholm colloquium.
- May 7, 2015 *Cosmology with Planck's observations of the Cosmic Microwave Background*, Case Western Reserve University physics colloquium.
- Dec 12, 2014 *Cosmic Microwave Background measurements in the era of Planck*, Institut d'Astrophysique de Paris "Cosmology after Planck."
- Dec 8, 2014 *Preliminary Results from Planck's 2014 data release*, University of Chicago Kavli Institute of Cosmological Physics seminar.
- June 30, 2014 *Planck and the Universe: Fundamental physics with observations of the Cosmic Microwave Background*, European Week of Astronomy and Space Science plenary talk.
- March 31, 2014 *Planck's Observations of the Cosmic Microwave Background and the cosmic distance scale*, STSCI Cosmic Distance Ladder workshop.
- June 6, 2013 *Planck and the Universe: Fundamental physics with observations of the Cosmic Microwave Background*, UC Riverside Physics and Astronomy colloquium.
- May 20, 2013 *CMB Measurements with Planck/HFI*, Davis, CA conference *Mining the Cosmic Frontier in the Planck Era*.
- May 7, 2013 *Measuring the Cosmic Microwave Background with Planck*, University of Minnesota cosmology seminar.
- April 24, 2013 *Measuring the Cosmic Microwave Background with Planck*, Arizona State University cosmology seminar.
- April 22, 2013 *Planck 2013: Measuring the Cosmic Microwave Background with the High Frequency Instrument*, Kavli Institute of Theoretical Physics conference "Observational and Theoretical Challenges in Primordial Cosmology."

Refereed Publications

1. Ashby, M. L. N. *et al.* The SPHEREx Target List of Ice Sources (SPLICES). *The Astrophysical Journal* **949**, 105 (June 2023).
2. Ivezić, Z. *et al.* Simulated SPHEREx spectra of asteroids and their implications for asteroid size and reflectance estimation. *Icarus* **371**, 114696. ISSN: 0019-1035 (Jan. 2022).
3. Symons, T. *et al.* Superresolution Reconstruction of Severely Undersampled Point-spread Functions Using Point-source Stacking and Deconvolution. *The Astrophysical Journal Supplement Series* **252**, 24 (Feb. 2021).
4. Planck Collaboration. *Planck* 2018 results. III. High Frequency Instrument data processing and frequency maps. *A&A* **641**, A3. arXiv: 1807.06207 [astro-ph.CO] (Sept. 2020).
5. Planck Collaboration. *Planck* 2018 results. II. Low Frequency Instrument data processing. *A&A* **641**, A2. arXiv: 1807.06206 [astro-ph.CO] (Sept. 2020).
6. Planck Collaboration. *Planck* 2018 results. I. Overview and the cosmological legacy of Planck. *A&A* **641**, A1. arXiv: 1807.06205 [astro-ph.CO] (Sept. 2020).
7. Planck Collaboration. *Planck* 2018 results. IV. Diffuse component separation. *A&A* **641**, A4. arXiv: 1807.06208 [astro-ph.CO] (Sept. 2020).
8. Planck Collaboration. *Planck* 2018 results. IX. Constraints on primordial non-Gaussianity. *A&A* **641**, A9. arXiv: 1905.05697 [astro-ph.CO] (Sept. 2020).
9. Planck Collaboration. *Planck* 2018 results. V. CMB power spectra and likelihoods. *A&A* **641**, A5. arXiv: 1907.12875 [astro-ph.CO] (Sept. 2020).
10. Planck Collaboration. *Planck* 2018 results. VI. Cosmological parameters. *A&A* **641**, A6. arXiv: 1807.06209 [astro-ph.CO] (Sept. 2020).
11. Planck Collaboration. *Planck* 2018 results. VIII. Gravitational lensing. *A&A* **641**, A8. arXiv: 1807.06210 [astro-ph.CO] (Sept. 2020).
12. Planck Collaboration. *Planck* 2018 results. VII. Isotropy and statistics of the CMB. *A&A* **641**, A7. arXiv: 1906.02552 [astro-ph.CO] (Sept. 2020).
13. Planck Collaboration. *Planck* 2018 results. X. Constraints on inflation. *A&A* **641**, A10. arXiv: 1807.06211 [astro-ph.CO] (Sept. 2020).
14. Planck Collaboration. *Planck* 2018 results. XII. Galactic astrophysics using polarized dust emission. *A&A* **641**, A12. arXiv: 1807.06212 [astro-ph.GA] (Sept. 2020).
15. Planck Collaboration. *Planck* 2018 results. XI. Polarized dust foregrounds. *A&A* **641**, A11. arXiv: 1801.04945 [astro-ph.GA] (Sept. 2020).
16. Planck Collaboration *et al.* Planck intermediate results - LVII. Joint Planck LFI and HFI data processing. *A&A* **643**, A42 (Nov. 2020).
17. Planck Collaboration *et al.* Planck intermediate results. LVI. Detection of the CMB dipole through modulation of the thermal Sunyaev-Zeldovich effect: Eppur si muove II. *A&A* **644**, A100. arXiv: 2003.12646 [astro-ph.CO] (Dec. 2020).
18. Ruane, G. J. *et al.* Wavefront sensing and control in space-based coronagraph instruments using Zernike's phase-contrast method. *Journal of Astronomical Telescopes, Instruments, and Systems* **6**, 1–26 (Nov. 2020).
19. BICEP2/Keck Collaboration *et al.* BICEP2/Keck Array XI: Beam Characterization and Temperature-to-Polarization Leakage in the BK15 Data Set. *ApJ* **884**, 114. arXiv: 1904.01640 [astro-ph.IM] (Oct. 2019).
20. Stark, C. C. *et al.* ExoEarth yield landscape for future direct imaging space telescopes. *Journal of Astronomical Telescopes, Instruments, and Systems* **5**, 024009 (2019).

21. Tauber, J. A. *et al.* Characterization of the in-flight properties of the Planck telescope. *A&A* **622**, A55 (Feb. 2019).
22. BICEP2 Collaboration *et al.* Constraints on Primordial Gravitational Waves Using Planck, WMAP, and New BICEP2/Keck Observations through the 2015 Season. *Phys. Rev. Lett.* **121**, 221301. arXiv: 1810.05216 [astro-ph.CO] (Nov. 2018).
23. Planck Collaboration. Planck intermediate results. LIII. Detection of velocity dispersion from the kinetic Sunyaev-Zeldovich effect. *A&A* **617**, A48. eprint: 1707.00132 (astro-ph.CO) (Sept. 2018).
24. Planck Collaboration. Planck intermediate results. LIV. The Planck multi-frequency catalogue of non-thermal sources. *A&A* **619**, A94 (Nov. 2018).
25. BICEP2 Collaboration *et al.* BICEP2 / Keck Array IX: New bounds on anisotropies of CMB polarization rotation and implications for axionlike particles and primordial magnetic fields. *Phys. Rev. D* **96**, 102003. arXiv: 1705.02523 (Nov. 2017).
26. Planck Collaboration. Planck intermediate results. L. Evidence of spatial variation of the polarized thermal dust spectral energy distribution and implications for CMB B-mode analysis. *A&A* **599**, A51. arXiv: 1606.07335 (Mar. 2017).
27. Planck Collaboration. Planck intermediate results. LI. Features in the cosmic microwave background temperature power spectrum and shifts in cosmological parameters. *A&A* **607**, A95. arXiv: 1608.02487 (Nov. 2017).
28. Planck Collaboration. Planck intermediate results. LII. Planet flux densities. *A&A* **607**, A122. arXiv: 1612.07151 [astro-ph.EP] (Nov. 2017).
29. Bertincourt, B. *et al.* Comparison of absolute gain photometric calibration between Planck/HFI and Herschel/SPIRE at 545 and 857 GHz. *A&A* **588**, A107. arXiv: 1509.01784 [astro-ph.IM] (Apr. 2016).
30. BICEP2 Collaboration *et al.* BICEP2/Keck Array VIII: Measurement of Gravitational Lensing from Large-scale B-mode Polarization. *ApJ* **833**, 228. arXiv: 1606.01968 (Dec. 2016).
31. BICEP2/Keck Collaboration *et al.* BICEP2/Keck Array. VII. Matrix Based E/B Separation Applied to Bicep2 and the Keck Array. *ApJ* **825**, 66 (July 2016).
32. Planck Collaboration. Planck intermediate results. XL. The Sunyaev-Zeldovich signal from the Virgo cluster. *A&A* **596**, A101. arXiv: 1511.05156 (Dec. 2016).
33. Planck Collaboration. Planck intermediate results. XLI. A map of lensing-induced B-modes. *A&A* **596**, A102. arXiv: 1512.02882 (Dec. 2016).
34. Planck Collaboration. Planck intermediate results. XLII. Large-scale Galactic magnetic fields. *A&A* **596**, A103. arXiv: 1601.00546 (Dec. 2016).
35. Planck Collaboration. Planck intermediate results. XLIII. Spectral energy distribution of dust in clusters of galaxies. *A&A* **596**, A104. arXiv: 1603.04919 (Dec. 2016).
36. Planck Collaboration. Planck intermediate results. XLIV. Structure of the Galactic magnetic field from dust polarization maps of the southern Galactic cap. *A&A* **596**, A105. arXiv: 1604.01029 (Dec. 2016).
37. Planck Collaboration. Planck intermediate results. XLIX. Parity-violation constraints from polarization data. *A&A* **596**, A110. arXiv: 1605.08633 (Dec. 2016).
38. Planck Collaboration. Planck intermediate results. XLV. Radio spectra of northern extragalactic radio sources. *A&A* **596**, A106. arXiv: 1606.05120 (Dec. 2016).
39. Planck Collaboration. Planck intermediate results. XLVI. Reduction of large-scale systematic effects in HFI polarization maps and estimation of the reionization optical depth. *A&A* **596**, A107. arXiv: 1605.02985 (Dec. 2016).
40. Planck Collaboration. Planck intermediate results. XLVII. Planck constraints on reionization history. *A&A* **596**, A108. arXiv: 1605.03507 (Dec. 2016).
41. Planck Collaboration. Planck intermediate results. XLVIII. Disentangling Galactic dust emission and cosmic infrared background anisotropies. *A&A* **596**, A109. arXiv: 1605.09387 (Dec. 2016).

42. Planck Collaboration. Planck intermediate results. XXIX. All-sky dust modelling with Planck, IRAS, and WISE observations. *A&A* **586**, A132. arXiv: 1409.2495 (Feb. 2016).
43. Planck Collaboration. Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes. *A&A* **586**, A133 (Feb. 2016).
44. Planck Collaboration. Planck intermediate results. XXXI. Microwave survey of Galactic supernova remnants. *A&A* **586**, A134. arXiv: 1409.5746 (Feb. 2016).
45. Planck Collaboration. Planck intermediate results. XXXII. The relative orientation between the magnetic field and structures traced by interstellar dust. *A&A* **586**, A135 (Feb. 2016).
46. Planck Collaboration. Planck intermediate results. XXXIII. Signature of the magnetic field geometry of interstellar filaments in dust polarization maps. *A&A* **586**, A136 (Feb. 2016).
47. Planck Collaboration. Planck intermediate results. XXXIV. The magnetic field structure in the Rosette Nebula. *A&A* **586**, A137. arXiv: 1501.00922 (Feb. 2016).
48. Planck Collaboration. Planck intermediate results. XXXIX. The Planck list of high-redshift source candidates. *A&A* **596**, A100. arXiv: 1508.04171 (Dec. 2016).
49. Planck Collaboration. Planck intermediate results. XXXV. Probing the role of the magnetic field in the formation of structure in molecular clouds. *A&A* **586**, A138. arXiv: 1502.04123 (Feb. 2016).
50. Planck Collaboration. Planck intermediate results. XXXVI. Optical identification and redshifts of Planck SZ sources with telescopes at the Canary Islands observatories. *A&A* **586**, A139. arXiv: 1504.04583 (Feb. 2016).
51. Planck Collaboration. Planck intermediate results. XXXVII. Evidence of unbound gas from the kinetic Sunyaev-Zeldovich effect. *A&A* **586**, A140. arXiv: 1504.03339 (Feb. 2016).
52. Planck Collaboration. Planck intermediate results. XXXVIII. E- and B-modes of dust polarization from the magnetized filamentary structure of the interstellar medium. *A&A* **586**, A141. arXiv: 1505.02779 (Feb. 2016).
53. Planck Collaboration. *Planck* 2015 results. I. Overview of products and scientific results. *A&A* **594**, A1. arXiv: 1502.01582 (Sept. 2016).
54. Planck Collaboration II. *Planck* 2015 results. II. Low Frequency Instrument data processings. *A&A* **594**, A2. arXiv: 1502.01583 [astro-ph.IM] (Sept. 2016).
55. Planck Collaboration VI. *Planck* 2015 results. VI. LFI mapmaking. *A&A* **594**, A6. arXiv: 1502.01585 (Sept. 2016).
56. Planck Collaboration VII. *Planck* 2015 results. VII. High Frequency Instrument data processing: Time-ordered information and beams. *A&A* **594**, A7 (Sept. 2016).
57. Planck Collaboration X. *Planck* 2015 results. X. Diffuse component separation: Foreground maps. *A&A* **594**, A10. arXiv: 1502.01588 (Sept. 2016).
58. Planck Collaboration XI. *Planck* 2015 results. XI. CMB power spectra, likelihoods, and robustness of parameters. *A&A* **594**, A11. arXiv: 1507.02704 (Sept. 2016).
59. Planck Collaboration XII. *Planck* 2015 results. XII. Full focal plane simulations. *A&A* **594**, A12. arXiv: 1509.06348 (Sept. 2016).
60. Planck Collaboration XIII. *Planck* 2015 results. XIII. Cosmological parameters. *A&A* **594**, A13. arXiv: 1502.01589 (Sept. 2016).
61. Planck Collaboration XIV. *Planck* 2015 results. XIV. Dark energy and modified gravity. *A&A* **594**, A14. arXiv: 1502.01590 (Sept. 2016).
62. Planck Collaboration XV. *Planck* 2015 results. XV. Gravitational lensing. *A&A* **594**, A15. arXiv: 1502.01591 (Sept. 2016).
63. Planck Collaboration XVII. *Planck* 2015 results. XVII. Constraints on primordial non-Gaussianity. *A&A* **594**, A17. arXiv: 1502.01592 (Sept. 2016).

64. Planck Collaboration XVIII. *Planck* 2015 results. XVIII. Background geometry and topology of the Universe. *A&A* **594**, A18. arXiv: 1502.01593 (Sept. 2016).
65. Planck Collaboration XX. *Planck* 2015 results. XX. Constraints on inflation. *A&A* **594**, A20. arXiv: 1502.02114 (Sept. 2016).
66. Planck Collaboration XXI. *Planck* 2015 results. XXI. The integrated Sachs-Wolfe effect. *A&A* **594**, A21. arXiv: 1502.01595 (Sept. 2016).
67. Planck Collaboration XXII. *Planck* 2015 results. XXII. A map of the thermal Sunyaev-Zeldovich effect. *A&A* **594**, A22. arXiv: 1502.01596 (Sept. 2016).
68. Planck Collaboration XXIV. *Planck* 2015 results. XXIV. Cosmology from Sunyaev-Zeldovich cluster counts. *A&A* **594**, A24. arXiv: 1502.01597 (Sept. 2016).
69. Planck Collaboration XXV. *Planck* 2015 results. XXV. Diffuse low-frequency Galactic foregrounds. *A&A* **594**, A25. arXiv: 1506.06660 (Sept. 2016).
70. Planck Collaboration XXVI. *Planck* 2015 results. XXVI. The Second Planck Catalogue of Compact Sources. *A&A* **594**, A26. arXiv: 1507.02058 (Sept. 2016).
71. Planck Collaboration XXVII. *Planck* 2015 results. XXVII. The second Planck catalogue of Sunyaev-Zeldovich sources. *A&A* **594**, A27. arXiv: 1502.01598 (Sept. 2016).
72. Zemcov, M., Crill, B., Ryan, M. & Staniszewski, Z. An Algorithm for Real-Time Optimal Photocurrent Estimation Including Transient Detection for Resource-Constrained Imaging Applications. *Journal of Astronomical Instrumentation* **05**, 1650007. eprint: <http://www.worldscientific.com/doi/pdf/10.1142/S2251171716500070> (June 2016).
73. BICEP2/Keck and Planck Collaborations. Joint Analysis of BICEP2/Keck Array and Planck Data. *Phys. Rev. Lett.* **114**, 101301 (10 Mar. 2015).
74. BICEP2/Keck Collaboration *et al.* BICEP2 / Keck Array V: Measurements of B-mode Polarization at Degree Angular Scales and 150 GHz by the Keck Array. *ApJ* **811**, 126. arXiv: 1502.00643 (Oct. 2015).
75. Gudmundsson, J. E. *et al.* The thermal design, characterization, and performance of the SPIDER long-duration balloon cryostat. *Cryogenics* **72**, 65–76. arXiv: 1506.06953 [astro-ph.IM] (Dec. 2015).
76. Planck and Fermi Collaborations. Planck intermediate results. XXVIII. Interstellar gas and dust in the Chamaeleon clouds as seen by Fermi LAT and Planck. *A&A* **582**, A31 (Oct. 2015).
77. Planck Collaboration. Planck intermediate results. XIX. An overview of the polarized thermal emission from Galactic dust. *A&A* **576**, A104. arXiv: 1405.0871 (Apr. 2015).
78. Planck Collaboration. Planck intermediate results. XVIII The millimetre and sub-millimetre emission from planetary nebulae. *A&A* **573**, A6. arXiv: 1403.4723 [astro-ph.GA] (Jan. 2015).
79. Planck Collaboration. Planck intermediate results. XX. Comparison of polarized thermal emission from Galactic dust with simulations of MHD turbulence. *A&A* **576**, A105. arXiv: 1405.0872 (Apr. 2015).
80. Planck Collaboration. Planck intermediate results. XXI. Comparison of polarized thermal emission from Galactic dust at 353 GHz with interstellar polarization in the visible. *A&A* **576**, A106. arXiv: 1405.0873 (Apr. 2015).
81. Planck Collaboration. Planck intermediate results. XXII. Frequency dependence of thermal emission from Galactic dust in intensity and polarization. *A&A* **576**, A107. arXiv: 1405.0874 (Apr. 2015).
82. Planck Collaboration. Planck intermediate results. XXIII. Galactic plane emission components derived from Planck with ancillary data. *A&A* **580**, A13. arXiv: 1406.5093 (Aug. 2015).
83. Planck Collaboration. Planck intermediate results. XXVII. High-redshift infrared galaxy overdensity candidates and lensed sources discovered by Planck and confirmed by Herschel-SPIRE. *A&A* **582**, A30. arXiv: 1503.08773 (Oct. 2015).
84. Catalano, A., Ade, P., Atik, Y. & Benoit, A. Characterization and Physical Explanation of Energetic Particles on Planck HFI Instrument. *Journal of Low Temperature Physics* **176**, 773–786. arXiv: 1403.5639 [astro-ph.IM] (Sept. 2014).

85. Catalano, A., Ade, P., Atik, Y. & Benoit, A. Impact of particles on the Planck HFI detectors: Ground-based measurements and physical interpretation. *A&A* **569**, A88. arXiv: 1403.6592 [astro-ph.IM] (Sept. 2014).
86. Planck Collaboration. Planck intermediate results. XIII. Constraints on peculiar velocities. *A&A* **561**, A97 (Jan. 2014).
87. Planck Collaboration. Planck intermediate results. XIV. Dust emission at millimetre wavelengths in the Galactic plane. *A&A* **564**, A45. arXiv: 1307.6815 (Apr. 2014).
88. Planck Collaboration. Planck intermediate results. XV. A study of anomalous microwave emission in Galactic clouds. *A&A* **565**, A103. arXiv: 1309.1357 (May 2014).
89. Planck Collaboration. Planck intermediate results. XVII. Emission of dust in the diffuse interstellar medium from the far-infrared to microwave frequencies. *A&A* **566**, A55. arXiv: 1312.5446 (June 2014).
90. Planck Collaboration I. *Planck* 2013 results: Overview of Planck Products and Scientific Results. *A&A* **571**, A1 (Nov. 2014).
91. Planck Collaboration II. *Planck* 2013 results: The Low Frequency Instrument data processing. *A&A* **571**, A2 (Nov. 2014).
92. Planck Collaboration III. *Planck* 2013 results: LFI systematic uncertainties. *A&A* **571**, A3 (Nov. 2014).
93. Planck Collaboration IV. *Planck* 2013 results: LFI Beams. *A&A* **571**, A4 (Nov. 2014).
94. Planck Collaboration V. *Planck* 2013 results: LFI Calibration. *A&A* **571**, A5 (Nov. 2014).
95. Planck Collaboration VI. *Planck* 2013 results: High Frequency Instrument Data Processing. *A&A* **571**, A6 (Nov. 2014).
96. Planck Collaboration VII. *Planck* 2013 results: HFI time response and beams. *A&A* **571**, A7 (Nov. 2014).
97. Planck Collaboration VIII. *Planck* 2013 results: HFI calibration and Map-making. *A&A* **571**, A8 (Nov. 2014).
98. Planck Collaboration IX. *Planck* 2013 results: HFI spectral response. *A&A* **571**, A9 (Nov. 2014).
99. Planck Collaboration X. *Planck* 2013 results: HFI energetic particle effects. *A&A* **571**, A10 (Nov. 2014).
100. Planck Collaboration XI. *Planck* 2013 results: All-sky model of thermal dust emission. *A&A* **571**, A11 (Nov. 2014).
101. Planck Collaboration XII. *Planck* 2013 results: Component separation. *A&A* **571**, A12 (Nov. 2014).
102. Planck Collaboration XIII. *Planck* 2013 results: Galactic CO emission as seen by Planck. *A&A* **571**, A13 (Nov. 2014).
103. Planck Collaboration XIV. *Planck* 2013 results: Zodiacal emission. *A&A* **571**, A14 (Nov. 2014).
104. Planck Collaboration XV. *Planck* 2013 results: CMB power spectra and likelihood. *A&A* **571**, A15 (Nov. 2014).
105. Planck Collaboration XVI. *Planck* 2013 results: Cosmological parameters. *A&A* **571**, A16 (Nov. 2014).
106. Planck Collaboration XVII. *Planck* 2013 results: Gravitational lensing by large-scale structure. *A&A* **571**, A17 (Nov. 2014).
107. Planck Collaboration XVIII. *Planck* 2013 results: Gravitational lensing by star-forming galaxies. *A&A* **571**, A18 (Nov. 2014).
108. Planck Collaboration XIX. *Planck* 2013 results: The integrated Sachs-Wolfe effect. *A&A* **571**, A19 (Nov. 2014).
109. Planck Collaboration XX. *Planck* 2013 results: Cosmology from Planck SZ cluster counts. *A&A* **571**, A20 (Nov. 2014).
110. Planck Collaboration XXI. *Planck* 2013 results: All-sky Compton parameter map and characterization. *A&A* **571**, A21 (Nov. 2014).
111. Planck Collaboration XXII. *Planck* 2013 results: Constraints on inflation. *A&A* **571**, A22 (Nov. 2014).

112. Planck Collaboration XXIII. *Planck* 2013 results: Isotropy and statistics of the CMB. *A&A* **571**, A23 (Nov. 2014).
113. Planck Collaboration XXIV. *Planck* 2013 results: Constraints on primordial non-Gaussianity. *A&A* **571**, A24 (Nov. 2014).
114. Planck Collaboration XXV. *Planck* 2013 results: Searches for cosmic strings and other topological defects. *A&A* **571**, A25 (Nov. 2014).
115. Planck Collaboration XXVI. *Planck* 2013 results: Geometry and topology of the Universe. *A&A* **571**, A26 (Nov. 2014).
116. Planck Collaboration XXVII. *Planck* 2013 results: Special relativistic effects on the CMB dipole. *A&A* **571**, A27 (Nov. 2014).
117. Planck Collaboration XXVIII. *Planck* 2013 results: The Planck Catalogue of Compact Sources. *A&A* **571**, A28 (Nov. 2014).
118. Planck Collaboration XXIX. *Planck* 2013 results: The Planck catalogue of Sunyaev-Zeldovich sources. *A&A* **571**, A29 (Nov. 2014).
119. Planck Collaboration XXX. *Planck* 2013 results: Cosmic infrared background measurements and implications for star formation. *A&A* **571**, A30 (Nov. 2014).
120. Planck Collaboration XXXI. *Planck* 2013 results: Consistency of the data. *A&A* **571**, A31 (Nov. 2014).
121. Fraisse, A. A. *et al.* SPIDER: probing the early Universe with a suborbital polarimeter. *J. Cosmology Astropart. Phys.* **4**, 47. arXiv: 1106.3087 [astro-ph.CO] (Apr. 2013).
122. Planck Collaboration. Planck intermediate results. IV. The XMM-Newton validation programme for new Planck galaxy clusters. *A&A* **550**, A130. arXiv: 1205.3376 [astro-ph.CO] (Feb. 2013).
123. Planck Collaboration. Planck intermediate results. IX. Detection of the Galactic haze with Planck. *A&A* **554**, A139. arXiv: 1208.5483 [astro-ph.GA] (June 2013).
124. Planck Collaboration. Planck intermediate results. V. Pressure profiles of galaxy clusters from the Sunyaev-Zeldovich effect. *A&A* **550**, A131. arXiv: 1207.4061 [astro-ph.CO] (Feb. 2013).
125. Planck Collaboration. Planck intermediate results. VI. The dynamical structure of PLCKG214.6+37.0, a Planck discovered triple system of galaxy clusters. *A&A* **550**, A132. arXiv: 1207.4009 [astro-ph.CO] (Feb. 2013).
126. Planck Collaboration. Planck intermediate results. VII. Statistical properties of infrared and radio extragalactic sources from the Planck Early Release Compact Source Catalogue at frequencies between 100 and 857 GHz. *A&A* **550**, A133. arXiv: 1207.4706 [astro-ph.CO] (Feb. 2013).
127. Planck Collaboration. Planck intermediate results. VIII. Filaments between interacting clusters. *A&A* **550**, A134. arXiv: 1208.5911 [astro-ph.CO] (Feb. 2013).
128. Planck Collaboration. Planck intermediate results. X. Physics of the hot gas in the Coma cluster. *A&A* **554**, A140. arXiv: 1208.3611 [astro-ph.CO] (June 2013).
129. Planck Collaboration. Planck intermediate results. XI. The gas content of dark matter halos: the Sunyaev-Zeldovich-stellar mass relation for locally brightest galaxies. *A&A* **557**, A52. arXiv: 1212.4131 (Sept. 2013).
130. Planck Collaboration & AMI Collaboration. Planck intermediate results. II. Comparison of Sunyaev-Zeldovich measurements from Planck and from the Arcminute Microkelvin Imager for 11 galaxy clusters. *A&A* **550**, A128. arXiv: 1204.1318 [astro-ph.CO] (Feb. 2013).
131. Planck Collaboration. Planck intermediate results. I. Further validation of new Planck clusters with XMM-Newton. *A&A* **543**, A102 (July 2012).
132. O’Dea, D. T. *et al.* SPIDER Optimization. II. Optical, Magnetic, and Foreground Effects. *ApJ* **738**, 63. arXiv: 1102.0559 (Sept. 2011).
133. Planck Collaboration. Planck early results. I. The Planck mission. *A&A* **536**, A1. arXiv: 1101.2022 [astro-ph.IM] (Dec. 2011).

134. Planck Collaboration. Planck early results. II. The thermal performance of Planck. *A&A* **536**, A2. arXiv: 1101.2023 (Dec. 2011).
135. Planck Collaboration. Planck early results. IX. XMM-Newton follow-up for validation of Planck cluster candidates. *A&A* **536**, A9. arXiv: 1101.2025 (Dec. 2011).
136. Planck Collaboration. Planck early results. VII. The Early Release Compact Source Catalogue. *A&A* **536**, A7. arXiv: 1101.2041 (Dec. 2011).
137. Planck Collaboration. Planck early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. *A&A* **536**, A8. arXiv: 1101.2024 (Dec. 2011).
138. Planck Collaboration. Planck early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. *A&A* **536**, A10. arXiv: 1101.2043 (Dec. 2011).
139. Planck Collaboration. Planck early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. *A&A* **536**, A12. arXiv: 1101.2027 (Dec. 2011).
140. Planck Collaboration. Planck early results. XIII. Statistical properties of extragalactic radio sources in the Planck Early Release Compact Source Catalogue. *A&A* **536**, A13. arXiv: 1101.2044 (Dec. 2011).
141. Planck Collaboration. Planck early results. XIV. ERCSC validation and extreme radio sources. *A&A* **536**, A14. arXiv: 1101.1721 (Dec. 2011).
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