

The Simons Observatory: science goals and forecasts

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Transverse Velocities with the Moving Lens Effect. Physical Review Letters, 2019, 123, 061301.	2.9	29
2	Accurate analytic model for the thermal Sunyaev-Zelâ€™dovich one-point probability distribution function. Physical Review D, 2019, 99, .	1.6	13
3	Axion dark matter detection with CMB polarization. Physical Review D, 2019, 100, .	1.6	90
4	Consistency of CMB experiments beyond cosmic variance. Physical Review D, 2019, 100, .	1.6	3
5	Quasimatter bounce equivalent to Starobinsky inflation. Physical Review D, 2019, 99, .	1.6	2
6	Future CMB constraints on cosmic birefringence and implications for fundamental physics. Physical Review D, 2019, 100, .	1.6	36
7	Constraints on the redshift evolution of astrophysical feedback with Sunyaev-Zelâ€™dovich effect cross-correlations. Physical Review D, 2019, 100, .	1.6	36
8	Fractional polarization of extragalactic sources in the 500â€™deg ² SPTpol survey. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5712-5721.	1.6	20
9	Dust Polarization Maps from TIGRESS: E/B Power Asymmetry and TE Correlation. Astrophysical Journal, 2019, 880, 106.	1.6	29
10	Revisiting a Negative Cosmological Constant from Low-Redshift Data. Symmetry, 2019, 11, 1035.	1.1	104
11	CMB-S4 forecast on the primordial non-Gaussianity parameter of feature models. Physical Review D, 2019, 100, .	1.6	4
12	Standard model Higgs field and hidden sector cosmology. Physical Review D, 2019, 100, .	1.6	15
13	DeepCMB: Lensing reconstruction of the cosmic microwave background with deep neural networks. Astronomy and Computing, 2019, 28, 100307.	0.8	49
14	Cross-correlation of the kinematic Sunyaev-Zelâ€™dovich effect and 21Â’cm intensity mapping with tidal reconstruction. Physical Review D, 2019, 100, .	1.6	11
15	Constraints on ultra-low-frequency gravitational waves with statistics of pulsar spin-down rates. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3547-3552.	1.6	5
16	Early Dark Energy can Resolve the Hubble Tension. Physical Review Letters, 2019, 122, 221301.	2.9	566
17	Measurement of the splashback feature around SZ-selected Galaxy clusters with DES, SPT, and ACT. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2900-2918.	1.6	52
18	Foreground-Immune Cosmic Microwave Background Lensing with Shear-Only Reconstruction. Physical Review Letters, 2019, 122, 181301.	2.9	48

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19	Cosmic variance mitigation in measurements of the integrated Sachs-Wolfe effect. <i>Physical Review D</i> , 2019, 99, .	1.6	3
20	Constraining neutrino mass with the tomographic weak lensing one-point probability distribution function and power spectrum. <i>Physical Review D</i> , 2019, 99, .	1.6	42
21	Pairwise Transverse Velocity Measurement with the Rees–Sciama Effect. <i>Astrophysical Journal Letters</i> , 2019, 873, L23.	3.0	19
22	Cross-correlation of CMB Polarization Lensing with High-z Submillimeter Herschel-ATLAS Galaxies. <i>Astrophysical Journal</i> , 2019, 886, 38.	1.6	6
23	Constraining local non-Gaussianities with kinetic Sunyaev-Zeldovich tomography. <i>Physical Review D</i> , 2019, 100, .	1.6	48
24	Secondary CMB anisotropies from magnetized haloes. <i>Astronomy and Astrophysics</i> , 2019, 630, A149.	2.1	3
25	Extragalactic Astrophysics With Next-Generation CMB Experiments. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	5
26	Several Problems in Particle Physics and Cosmology Solved in One SMASH. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	14
27	Cosmology with the kinematic Sunyaev-Zeldovich effect: Breaking the optical depth degeneracy with fast radio bursts. <i>Physical Review D</i> , 2019, 100, .	1.6	41
28	correlation coefficient of T and E	1.6	5
29	CMB targets after the latest <i>Planck</i> data release. <i>Physical Review D</i> , 2019, 100, .	1.6	30
30	Probing correlated compensated isocurvature perturbations using scale-dependent galaxy bias. <i>Physical Review D</i> , 2019, 100, .	1.6	25
31	Bias to CMB lensing from lensed foregrounds. <i>Physical Review D</i> , 2019, 100, .	1.6	10
32	Improving constraints on fundamental physics parameters with the clustering of Sunyaev-Zeldovich selected galaxy clusters. <i>Physical Review D</i> , 2019, 100, .	1.6	4
33	Optimal filtering for CMB lensing reconstruction. <i>Physical Review D</i> , 2019, 100, .	1.6	12
34	Future constraints on dynamical dark-energy using gravitational-wave standard sirens. <i>Physical Review D</i> , 2019, 100, .	1.6	35
35	Scale-independent R^2 inflation. <i>Physical Review D</i> , 2019, 100, .	1.6	27
36	The Atacama Cosmology Telescope: two-season ACTPol extragalactic point sources and their polarization properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5239-5262.	1.6	27

#	ARTICLE	IF	CITATIONS
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38	Demonstration of 220/280 GHz Multichroic Feedhorn-Coupled TES Polarimeter. Journal of Low Temperature Physics, 2020, 199, 891-897.	0.6	7
39	Information theoretic bounds on cosmic string detection in CMB maps with noise. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1329-1334.	1.6	7
40	The quenching and morphological evolution of central galaxies is facilitated by the feedback-driven expulsion of circumgalactic gas. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4462-4480.	1.6	94
41	Thermalization of large energy release in the early Universe. Monthly Notices of the Royal Astronomical Society, 2020, 498, 959-980.	1.6	25
42	Searching for anisotropic cosmic birefringence with polarization data from SPTpol. Physical Review D, 2020, 102, .	1.6	43
43	Determination of miscalibrated polarization angles from observed cosmic microwave background and foreground EB power spectra: Application to partial-sky observation. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	19
44	Measuring lensing ratios with future cosmological surveys. Physical Review D, 2020, 102, .	1.6	2
45	Dirac neutrino mass generation from a Majorana messenger. Physical Review D, 2020, 101, .	1.6	12
46	Probing the weak gravity conjecture in the cosmic microwave background. Physical Review D, 2020, 101, .	1.6	6
47	Characterizing fast radio bursts through statistical cross-correlations. Physical Review D, 2020, 102, .	1.6	14
48	Neutrino effects on the morphology of cosmic large-scale structure. Physical Review D, 2020, 101, .	1.6	12
49	Hypersensitive Tunable Josephson Escape Sensor for Gigahertz Astronomy. Physical Review Applied, 2020, 14, .	1.5	10
50	Intensity mapping as a probe of axion dark matter. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3162-3177.	1.6	28
51	New Extraction of the Cosmic Birefringence from the Planck 2018 Polarization Data. Physical Review Letters, 2020, 125, 221301.	2.9	119
52	How much primordial tensor mode is allowed?. Physical Review D, 2020, 101, .	1.6	6
53	Stellar property statistics of massive haloes from cosmological hydrodynamics simulations: common kernel shapes. Monthly Notices of the Royal Astronomical Society, 2020, 495, 686-704.	1.6	26
54	Hierarchical Bayesian CMB component separation with the No-U-Turn Sampler. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4383-4401.	1.6	5

#	ARTICLE	IF	CITATIONS
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56	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel'dovich effect. <i>Physical Review D</i> , 2020, 102, .	1.6	56
57	Remote dipole field reconstruction with dusty galaxies. <i>Physical Review D</i> , 2020, 102, .	1.6	5
58	Deep <i>XMM-Newton</i> observations of the most distant SPT-SZ galaxy cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1554-1564.	1.6	12
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60	Forecast constraints on anisotropic stress in dark energy using gravitational waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 879-893.	1.6	11
61	Resolving the Hubble tension with new early dark energy. <i>Physical Review D</i> , 2020, 102, .	1.6	119
62	Cosmology with the Thermal-Kinetic Sunyaev-Zel'dovich Effect. <i>Physical Review Letters</i> , 2020, 125, 111301.	2.9	8
63	Probing dark matter with future CMB measurements. <i>Physical Review D</i> , 2020, 102, .	1.6	19
64	Prospects for detection and application of the alignment of galaxies with the large-scale velocity field. <i>Physical Review D</i> , 2020, 102, .	1.6	1
65	Dark Photon Oscillations in Our Inhomogeneous Universe. <i>Physical Review Letters</i> , 2020, 125, 221303.	2.9	48
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67	Lower bias, lower noise CMB lensing with foreground-hardened estimators. <i>Physical Review D</i> , 2020, 102, .	1.6	26
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69	Understanding galaxy formation and evolution through an all-sky submillimetre spectroscopic survey. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	1.3	3
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71	Including massive neutrinos in thermal Sunyaev-Zeldovich power spectrum and cluster counts analyses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1332-1347.	1.6	18
72	Sensitivity forecasts for the cosmological recombination radiation in the presence of foregrounds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4535-4548.	1.6	10

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73	Baryonic effects on CMB lensing and neutrino mass constraints. Physical Review D, 2020, 101, .	1.6	13
74	hyrec-2: A highly accurate sub-millisecond recombination code. Physical Review D, 2020, 102, .	1.6	21
75	Predictive Dirac and Majorana neutrino mass textures from $S U(6)$ grand unified theories. Physical Review D, 2020, 102, .	1.6	5
76	Strongly-interacting massive particle and dark photon in the era of the intensity frontier. Physical Review D, 2020, 102, .	1.6	2
77	Tracing the high energy theory of gravity: an introduction to Palatini inflation. General Relativity and Gravitation, 2020, 52, 1.	0.7	56
78	Classifying CMB time-ordered data through deep neural networks. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3741-3749.	1.6	2
79	Likelihood Methods for CMB Experiments. Frontiers in Physics, 2020, 8, .	1.0	12
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87	The Gravitational Lensing Signatures of BOSS Voids in the Cosmic Microwave Background. Astrophysical Journal, 2020, 890, 168.	1.6	21
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89	Probing primordial symmetry breaking with the cosmic microwave background anisotropy. Physical Review D, 2020, 101, .	1.6	1
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#	ARTICLE	IF	CITATIONS
91	New physics in light of the $\langle H \rangle_0$ tension: An alternative view. Physical Review D, 2020, 102, .	1.6	267
92	Thermal emission from the amorphous dust: An alternative possibility of the origin of the anomalous microwave emission. Publication of the Astronomical Society of Japan, 2020, 72, .	1.0	5
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100	Constraining the properties of gaseous halos via cross-correlations of upcoming galaxy surveys and thermal Sunyaev-Zeldovich maps. Physical Review D, 2020, 101, .	1.6	21
101	Exact joint likelihood of pseudo-C ℓ estimates from correlated Gaussian cosmological fields. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3165-3181.	1.6	10
102	Internal Delensing of Cosmic Microwave Background Polarization B -Modes with the POLARBEAR Experiment. Physical Review Letters, 2020, 124, 131301.	2.9	25
103	Do we have any hope of detecting scattering between dark energy and baryons through cosmology?. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1139-1152.	1.6	58
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#	ARTICLE	IF	CITATIONS
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110	Using the Marked Power Spectrum to Detect the Signature of Neutrinos in Large-Scale Structure. <i>Physical Review Letters</i> , 2021, 126, 011301.	2.9	49
111	The Simons Observatory: modeling optical systematics in the Large Aperture Telescope. <i>Applied Optics</i> , 2021, 60, 823.	0.9	13
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113	High-resolution tomography for galaxy spectroscopic surveys with angular redshift fluctuations. <i>Astronomy and Astrophysics</i> , 2021, 646, A109.	2.1	4
114	An Improved Measurement of the Secondary Cosmic Microwave Background Anisotropies from the SPT-SZ + SPTpol Surveys. <i>Astrophysical Journal</i> , 2021, 908, 199.	1.6	52
115	Primordial information content of Rayleigh anisotropies. <i>Physical Review D</i> , 2021, 103, .	1.6	5
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124	Optimal filters for the moving lens effect. <i>Physical Review D</i> , 2021, 103, .	1.6	14
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#	ARTICLE	IF	CITATIONS
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128	Atacama Cosmology Telescope: Modeling the gas thermodynamics in BOSS CMASS galaxies from kinematic and thermal Sunyaev-Zeldovich measurements. Physical Review D, 2021, 103, .	1.6	60
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140	Searching for extremal spots in Planck lensing maps. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 044.	1.9	1
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161	Bridging the gap: spectral distortions meet gravitational waves. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4396-4405.	1.6	22
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164	Improving models of the cosmic infrared background using CMB lensing mass maps. <i>Physical Review D</i> , 2021, 103, .	1.6	11
165	Prospects of future CMB anisotropy probes for primordial black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 051.	1.9	16
166	Cobaya: code for Bayesian analysis of hierarchical physical models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 057.	1.9	173
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170	Avoiding baryonic feedback effects on neutrino mass measurements from CMB lensing. <i>Physical Review D</i> , 2021, 103, .	1.6	9
171	Partially constrained internal linear combination: A method for low-noise CMB foreground mitigation. <i>Physical Review D</i> , 2021, 103, .	1.6	18
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175	Cosmology from weak lensing alone and implications for the Hubble tension. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4935-4955.	1.6	9
176	Arbitrating the S_8 discrepancy with growth rate measurements from redshift-space distortions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5427-5437.	1.6	97
177	The Atacama Cosmology Telescope: Detection of Millimeter-wave Transient Sources. <i>Astrophysical Journal</i> , 2021, 915, 14.	1.6	15
178	Bayesian evidence for the tensor-to-scalar ratio r and neutrino masses m . <i>Physical Review D</i> , 2021, 103, .	1.6	21
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182	Breaking degeneracies with the Sunyaev-Zeldovich full bispectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 026.	1.9	3
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184	Cosmology with the Planck τ correlation coefficient. <i>Physical Review D</i> , 2021, 104, .	1.6	2
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