

An absorption profile centred at 78 megahertz in the sky

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Possible interaction between baryons and dark-matter particles revealed by the first stars. <i>Nature</i> , 2018, 555, 71-74.	13.7	418
2	The Radio Sky at Meter Wavelengths: m-mode Analysis Imaging with the OVRO-LWA. <i>Astronomical Journal</i> , 2018, 156, 32.	1.9	62
3	The Global 21 cm Absorption from Cosmic Dawn with Inhomogeneous Gas Distribution. <i>Astrophysical Journal</i> , 2018, 869, 42.	1.6	6
4	A fresh look into the interacting dark matter scenario. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 007-007.	1.9	45
5	M3: a new muon missing momentum experiment to probe $(g \hat{a}' 2)^{1/4}$ and dark matter at Fermilab. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	82
6	Self-interacting dark matter with a stable vector mediator. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 033-033.	1.9	18
7	N-body simulations of structure formation in thermal inflation cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 010-010.	1.9	2
8	Astrophysical radio background cannot explain the EDGES 21-cm signal: constraints from cooling of non-thermal electrons. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L6-L10.	1.2	29
9	Kinetic mixing, dark photons and extra dimensions. Part II: fermionic dark matter. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	19
10	Tighter limits on dark matter explanations of the anomalous EDGES 21-cm signal. <i>Physical Review D</i> , 2018, 98, .	1.6	102
11	Coscatting/coannihilation dark matter in a fraternal twin Higgs model. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	33
12	A novel probe of ionized bubble shape and size statistics of the epoch of reionization using the contour Minkowski Tensor. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 011-011.	1.9	25
13	A new goodness-of-fit statistic and its application to 21-cm cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 015-015.	1.9	11
14	Probing the Secrets of Dark Matter [Turnstile]. <i>IEEE Antennas and Propagation Magazine</i> , 2018, 60, 100-149.	1.2	0
15	On the Prospects of Measuring the Cosmic Dawn 21-cm Power Spectrum using the Upgraded Giant Meterwave Radio Telescope (uGMRT). <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	7
16	From Identity to Uniqueness: The Emergence of Increasingly Higher Levels of Hierarchy in the Process of the Matter Evolution. <i>Entropy</i> , 2018, 20, 533.	1.1	8
17	Black hole high mass X-ray binary microquasars at cosmic dawn. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 365-379.	0.0	1
18	$H \hat{A} \langle \text{sc} \rangle I \langle \text{sc} \rangle 21 \hat{A} \langle \text{sc} \rangle \text{cm}$ Cosmology and the Bispectrum: Closure Diagnostics in Massively Redundant Interferometric Arrays. <i>Radio Science</i> , 2018, 53, 845-865.	0.8	43

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19	Remembering Erik Folke Bolinder [In Memoriam]. IEEE Antennas and Propagation Magazine, 2018, 60, 148-149.	1.2	0
20	Stellar mass dependence of the 21-cm signal around the first star and its impact on the global signal. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1925-1937.	1.6	9
21	Minimum star-forming halo mass in axion cosmology. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 481, L69-L73.	1.2	9
22	Higgs portal dark matter in non-standard cosmological histories. Journal of High Energy Physics, 2018, 2018, 1.	1.6	39
23	The First Stars May Shed Light on Dark Matter. Physics Magazine, 0, 11, .	0.1	3
24	Imprints of quasar duty cycle on the 21-cm signal from the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5564-5578.	1.6	17
25	Strong constraints on light dark matter interpretation of the EDGES signal. Physical Review D, 2018, 98, .	1.6	141
26	Constraints on Dark Matter with a moderately large and velocity-dependent DM-nucleon cross-section. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 007-007.	1.9	55
27	Constraints on MeV dark matter using neutrino detectors and their implication for the 21-cm results. Physical Review D, 2018, 98, .	1.6	15
28	Constraining noncold dark matter models with the global 21-cm signal. Physical Review D, 2018, 98, .	1.6	66
29	Modeling the Radio Background from the First Black Holes at Cosmic Dawn: Implications for the 21 cm Absorption Amplitude. Astrophysical Journal, 2018, 868, 63.	1.6	149
30	Could the 21-cm absorption be explained by the dark matter suggested by ^{8}Be transitions?. European Physical Journal C, 2018, 78, 1.	1.4	7
31	Heating of the intergalactic medium by the cosmic microwave background during cosmic dawn. Physical Review D, 2018, 98, .	1.6	50
32	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. Physical Review D, 2018, 98, .	1.6	72
33	Contributions of dark matter annihilation to the global 21-cm spectrum observed by the EDGES experiment. Physical Review D, 2018, 98, .	1.6	21
34	Assessment of Ionospheric Activity Tolerances for Epoch of Reionization Science with the Murchison Widefield Array. Astrophysical Journal, 2018, 867, 15.	1.6	17
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36	Interacting dark energy: possible explanation for 21-cm absorption at cosmic dawn. European Physical Journal C, 2018, 78, 1.	1.4	43

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38	Metal pollution of low-mass Population III stars through accretion of interstellar objects like $\tilde{\chi}^0$ Oumuamua. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .	1.0	12
39	Constraining the Dark Matter Vacuum Energy Interaction Using the EDGES 21 cm Absorption Signal. <i>Astrophysical Journal</i> , 2018, 869, 26.	1.6	22
40	Freeze-in production of decaying dark matter in five steps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 048-048.	1.9	46
41	Characterizing Signal Loss in the 21 cm Reionization Power Spectrum: A Revised Study of PAPER-64. <i>Astrophysical Journal</i> , 2018, 868, 26.	1.6	51
42	Critical assessment of CMB limits on dark matter-baryon scattering: New treatment of the relative bulk velocity. <i>Physical Review D</i> , 2018, 98, .	1.6	86
43	Dipole Anisotropy as an Essential Qualifier for the Monopole Component of the Cosmic-dawn Spectral Signature, and the Potential of Diurnal Pattern for Foreground Estimation. <i>Astrophysical Journal Letters</i> , 2018, 866, L7.	3.0	9
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50	Calorimetric Dark Matter Detection with Galactic Center Gas Clouds. <i>Physical Review Letters</i> , 2018, 121, 131101.	2.9	40
51	Impact of EDGES 21-cm global signal on the primordial power spectrum. <i>Physical Review D</i> , 2018, 98, .	1.6	16
52	Neutron to dark matter decay in neutron stars. <i>International Journal of Modern Physics A</i> , 2018, 33, 1844020.	0.5	11
53	Implications of a 21-cm signal for dark matter annihilation and decay. <i>Physical Review D</i> , 2018, 98, .	1.6	76
54	Shadow of a black hole at cosmological distances. <i>Physical Review D</i> , 2018, 98, .	1.6	65

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56	Black hole spin constraints on the mass spectrum and number of axionlike fields. <i>Physical Review D</i> , 2018, 98, .	1.6	66
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59	Measuring the global 21-cm signal with the MWA-I: improved measurements of the Galactic synchrotron background using lunar occultation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5034-5045.	1.6	20
60	Cosmological dynamics of brane gravity: A global dynamical system perspective. <i>Physical Review D</i> , 2018, 98, .	1.6	18
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74	Constraining Baryonâ€“Dark-Matter Scattering with the Cosmic Dawn 21-cm Signal. <i>Physical Review Letters</i> , 2018, 121, 011101.	2.9	128
75	Severely Constraining Dark-Matter Interpretations of the 21-cm Anomaly. <i>Physical Review Letters</i> , 2018, 121, 011102.	2.9	168
76	Bounds on Dark-Matter Annihilations from 21-cm Data. <i>Physical Review Letters</i> , 2018, 121, 011103.	2.9	63
77	Bounds on Dark Matter decay from 21 cm line. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 069-069.	1.9	45
78	A Limit on the Warm Dark Matter Particle Mass from the Redshifted 21 cm Absorption Line. <i>Astrophysical Journal Letters</i> , 2018, 859, L18.	3.0	44
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85	Numerical Modeling of Phased Array Antennas. , 0, , 253-299.		0
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87	Scientists downsize bold plan to make human genome from scratch. <i>Nature</i> , 2018, 557, 16-17.	13.7	5
88	Early-Universe constraints on dark matter-baryon scattering and their implications for a global 21Âcm signal. <i>Physical Review D</i> , 2018, 98, .	1.6	135
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90	AI mimics brain codes for navigation. <i>Nature</i> , 2018, 557, 313-314.	13.7	8

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101	Re-evaluating old stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 75-93.	1.6	298
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103	On the possible enhancement of the global 21-cm signal at reionization from the decay of cosmic string cusps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 020-020.	1.9	11
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105	Probing primordial non-Gaussianity with 21 cm fluctuations from minihalos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 033-033.	1.9	14
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111	Possible s -wave annihilation for MeV dark matter with the 21-cm absorption. Physical Review D, 2019, 100, .	1.6	5
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117	Radio Wave Propagation. , 2019, , 58-68.		0
118	The Nature of the Received Radio Signal. , 2019, , 69-81.		0
119	Radiometers. , 2019, , 82-107.		0
120	Spectrometers and Polarimeters. , 2019, , 108-128.		0
121	Single-Aperture Radio Telescopes. , 2019, , 131-176.		0
122	The Basics of Interferometry. , 2019, , 177-219.		0
123	Aperture Synthesis. , 2019, , 220-265.		0
124	Further Interferometric Techniques. , 2019, , 266-298.		0
125	The Sun and the Planets. , 2019, , 301-308.		0
126	Stars and Nebulae. , 2019, , 309-337.		0
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141	Cosmological implications of the composite spectra of galactic X-ray binaries constructed using MAXI data. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2785-2796.	1.6	11
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143	Violation of universal lower bound for the shear viscosity to entropy density ratio in dark energy dominated accretion. European Physical Journal C, 2019, 79, 1.	1.4	4
144	Cosmic reionisation. Contemporary Physics, 2019, 60, 145-163.	0.8	30
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154	Cosmological constraints on the velocity-dependent baryon-dark matter coupling. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 020-020.	1.9	4
155	A universal 21Åcm signature of growing massive black holes in the early Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, , .	1.6	1
156	The 21 cm Power Spectrum from the Cosmic Dawn: First Results from the OVRO-LWA. <i>Astronomical Journal</i> , 2019, 158, 84.	1.9	72
157	Green Peas in X-Rays ^{âˆ’} . <i>Astrophysical Journal</i> , 2019, 880, 144.	1.6	11
158	Evolution of neutral oxygen during the epoch of reionization and its use in estimating the neutral hydrogen fraction. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2755-2768.	1.6	13
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161	Extracting the 21cm Global Signal using Artificial Neural Networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	6
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163	Accretion-induced Collapse of Dark Matter Admixed White Dwarfs. II. Rotation and Gravitational-wave Signals. <i>Astrophysical Journal</i> , 2019, 883, 13.	1.6	7
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172	Ultralight dark matter in disk galaxies. <i>Physical Review D</i> , 2019, 99, .	1.6	51
173	21 cm cosmology and spin temperature reduction via spin-dependent dark matter interactions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 014-014.	1.9	5
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175	Joint estimation of the Epoch of Reionization power spectrum and foregrounds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2904-2916.	1.6	17
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