

First Constraints on Fuzzy Dark Matter from Lyman- α Simulations

Physical Review Letters

119, 031302

DOI: 10.1103/physrevlett.119.031302

Citation Report

#	ARTICLE	IF	CITATIONS
1	Cosmological signatures of ultralight dark matter with an axionlike potential. Physical Review D, 2017, 96, .	1.6	36
2	Cosmological perturbations of extreme axion in the radiation era. Physical Review D, 2017, 96, .	1.6	30
3	Lyman- α constraints on ultralight scalar dark matter: Implications for the early and late universe. Physical Review D, 2017, 96, .	1.6	145
4	Spectrum of the axion dark sector. Physical Review D, 2017, 96, .	1.6	36
5	Non-cold dark matter at small scales: a general approach. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 046-046.	1.9	100
6	Imprints of non-standard dark energy and dark matter models on the 21cm intensity map power spectrum. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 018-018.	1.9	12
7	Constraining the mass of light bosonic dark matter using SDSS Lyman- α forest. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4606-4614.	1.6	183
8	Decay of ultralight axion condensates. Journal of High Energy Physics, 2018, 2018, 1.	1.6	28
9	On the possibility that ultra-light boson haloes host and form supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2018, 477, 3257-3272.	1.6	16
10	A New Precision Measurement of the Small-scale Line-of-sight Power Spectrum of the Ly α Forest. Astrophysical Journal, 2018, 852, 22.	1.6	45
11	Tidal disruption of fuzzy dark matter subhalo cores. Physical Review D, 2018, 97, .	1.6	50
12	Cold light dark matter in extended seesaw models. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 006-006.	1.9	31
13	Absorber Model: the Halo-like model for the Lyman- α forest. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.	1.9	14
14	Fuzzy dark matter and nonstandard neutrino interactions. Physical Review D, 2018, 97, .	1.6	55
15	Impact of ultralight axion self-interactions on the large scale structure of the Universe. Physical Review D, 2018, 97, .	1.6	57
16	Halo abundance and assembly history with extreme-axion wave dark matter at $z \lesssim 4$. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 473, L36-L40.	1.2	16
17	Light scalar dark matter at neutrino oscillation experiments. Journal of High Energy Physics, 2018, 2018, 1.	1.6	19
18	Brief History of Ultra-light Scalar Dark Matter Models. EPJ Web of Conferences, 2018, 168, 06005.	0.1	61

#	ARTICLE	IF	CITATIONS
19	A Fundamental Test for Galaxy Formation Models: Matching the Lyman- $\hat{\pm}$ Absorption Profiles of Galactic Halos Over Three Decades in Distance. <i>Astrophysical Journal</i> , 2018, 859, 125.	1.6	20
20	Exploring axionlike particles beyond the canonical setup. <i>Physical Review D</i> , 2018, 98, .	1.6	13
21	Constraining noncold dark matter models with the global 21-cm signal. <i>Physical Review D</i> , 2018, 98, .	1.6	66
22	The Importance of Quantum Pressure of Fuzzy Dark Matter on Ly $\hat{\pm}$ Forest. <i>Astrophysical Journal</i> , 2018, 863, 73.	1.6	52
23	Parkes Pulsar Timing Array constraints on ultralight scalar-field dark matter. <i>Physical Review D</i> , 2018, 98, .	1.6	72
24	Cosmological imprints of string axions in plateau. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	24
25	Constraining sterile neutrino cosmologies with strong gravitational lensing observations at redshift $z \hat{\approx} 0.2$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3661-3669.	1.6	66
26	Dark glueballs and their ultralight axions. <i>Physical Review D</i> , 2018, 98, .	1.6	13
27	Implications of a prereionization 21-cm absorption signal for fuzzy dark matter. <i>Physical Review D</i> , 2018, 98, .	1.6	42
28	First star formation in ultralight particle dark matter cosmology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L6-L10.	1.2	21
29	A new era in the search for dark matter. <i>Nature</i> , 2018, 562, 51-56.	13.7	259
30	Dark matter and baryon asymmetry from the very dawn of the Universe. <i>Physical Review D</i> , 2018, 97, .	1.6	6
31	Novel constraints on noncold, nonthermal dark matter from Lyman- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ forest data. <i>Physical Review D</i> , 2018, 98, .	1.6	64
32	Galactic rotation curves versus ultralight dark matter: Implications of the soliton-host halo relation. <i>Physical Review D</i> , 2018, 98, .	1.6	119
33	Vector fuzzy dark matter, fifth forces, and binary pulsars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 044-044.	1.9	13
34	Gravitational Bose-Einstein Condensation in the Kinetic Regime. <i>Physical Review Letters</i> , 2018, 121, 151301.	2.9	159
35	Stability of condensed fuzzy dark matter halos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 058-058.	1.9	11
36	Using the full power of the cosmic microwave background to probe axion dark matter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3063-3085.	1.6	106

#	ARTICLE	IF	CITATIONS
37	AX-GADGET: a new code for cosmological simulations of Fuzzy Dark Matter and Axion models. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3935-3951.	1.6	58
38	Stellar Wakes from Dark Matter Subhalos. Physical Review Letters, 2018, 120, 211101.	2.9	27
39	Rotation curves of high-resolution LSB and SPARC galaxies with fuzzy and multistate (ultralight) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 1447-1468.	1.6	59
40	Emergent dark energy from dark matter. Physical Review D, 2018, 97, .	1.6	5
41	New experimental approaches in the search for axion-like particles. Progress in Particle and Nuclear Physics, 2018, 102, 89-159.	5.6	505
42	Kinetic theory and classical limit for real scalar quantum field in curved spacetime. Physical Review D, 2018, 98, .	1.6	8
43	Backreaction of axion coherent oscillations. Physical Review D, 2018, 98, .	1.6	4
44	Late-Time Magnetogenesis Driven by Axionlike Particle Dark Matter and a Dark Photon. Physical Review Letters, 2018, 121, 031102.	2.9	22
45	Formation and structure of ultralight bosonic dark matter halos. Physical Review D, 2018, 98, .	1.6	143
46	Fuzzy dark matter at cosmic dawn: new 21-cm constraints. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 051-051.	1.9	30
47	The one-dimensional power spectrum from the SDSS DR14 Ly α forests. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 017-017.	1.9	80
48	Dark Matter from Scalar Field Fluctuations. Physical Review Letters, 2019, 123, 061302.	2.9	36
49	Axion dark matter detection with CMB polarization. Physical Review D, 2019, 100, .	1.6	90
50	Brief Review on Scalar Field Dark Matter Models. Frontiers in Astronomy and Space Sciences, 2019, 6, .	1.1	57
51	Strong Constraints on Fuzzy Dark Matter from Ultrafaint Dwarf Galaxy Eridanus II. Physical Review Letters, 2019, 123, 051103.	2.9	116
52	Ultralight Boson Dark Matter and Event Horizon Telescope Observations of $M < 87 M_{\odot}$. Physical Review Letters. 2019. 123. 021102.	2.9	148
53	An emulator for the Lyman- α forest. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 050-050.	1.9	44
54	Looking for ultralight dark matter near supermassive black holes. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 045-045.	1.9	62

#	ARTICLE	IF	CITATIONS
55	Power spectrum of the flux in the Lyman-alpha forest from high-resolution spectra of 87 QSOs. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2536-2554.	1.6	7
56	Axion core-halo mass and the black hole-halo mass relation: constraints on a few parsec scales. Monthly Notices of the Royal Astronomical Society, 2019, 488, 4497-4503.	1.6	24
57	Predictions for the abundance of high-redshift galaxies in a fuzzy dark matter universe. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5551-5565.	1.6	16
58	The Lyman- α forest as a diagnostic of the nature of the dark matter. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3456-3471.	1.6	45
59	Imprints of temperature fluctuations on the $z \sim 5$ Lyman- α forest: a view from radiation-hydrodynamic simulations of reionization. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3177-3195.	1.6	33
60	Spatially Resolved Stellar Kinematics of the Ultra-diffuse Galaxy Dragonfly 44. II. Constraints on Fuzzy Dark Matter. Astrophysical Journal, 2019, 885, 155.	1.6	33
61	Could galactic magnetic fields be generated by charged ultra-light boson dark matter?. European Physical Journal C, 2019, 79, 1.	1.4	2
62	First Star-Forming Structures in Fuzzy Cosmic Filaments. Physical Review Letters, 2019, 123, 141301.	2.9	94
63	Isocurvature bounds on axion-like particle dark matter in the post-inflationary scenario. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 021-021.	1.9	14
64	Ultralight dark matter in disk galaxies. Physical Review D, 2019, 99, .	1.6	51
65	Inflaxion dark matter. Journal of High Energy Physics, 2019, 2019, 1.	1.6	9
66	Relaxation in a Fuzzy Dark Matter Halo. Astrophysical Journal, 2019, 871, 28.	1.6	85
67	Constraints on Dark Matter Microphysics from the Milky Way Satellite Population. Astrophysical Journal Letters, 2019, 878, L32.	3.0	110
68	Scalar field dark matter spectator during inflation: the effect of self-interaction. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	1.9	21
69	ETHOS - an Effective Theory of Structure Formation: detecting dark matter interactions through the Lyman- α forest. Monthly Notices of the Royal Astronomical Society, 2019, 487, 522-536.	1.6	23
70	Scalar field dark matter with a cosh potential, revisited. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 009-009.	1.9	11
71	Hunting Axion Dark Matter with Protoplanetary Disk Polarimetry. Physical Review Letters, 2019, 122, 191101.	2.9	39
72	The power spectrum of the Lyman- α Forest at $z \lesssim 0.5$. Monthly Notices of the Royal Astronomical Society, 2019, 486, 769-782.	1.6	30

#	ARTICLE	IF	CITATIONS
73	Strong Gravitational Lensing by Wave Dark Matter Halos. <i>Astrophysical Journal</i> , 2019, 872, 11.	1.6	8
74	Cosmological Simulation for Fuzzy Dark Matter Model. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 5, .	1.1	27
75	Flavor of cosmic neutrinos preserved by ultralight dark matter. <i>Physical Review D</i> , 2019, 99, .	1.6	35
76	Bayesian emulator optimisation for cosmology: application to the Lyman-alpha forest. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 031-031.	1.9	49
77	Constraining the photon coupling of ultra-light dark-matter axion-like particles by polarization variations of parsec-scale jets in active galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 059-059.	1.9	40
78	Numerical and perturbative computations of the fuzzy dark matter model. <i>Physical Review D</i> , 2019, 99, .	1.6	58
79	Enhanced n-body annihilation of dark matter and its indirect signatures. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	11
80	Lyman- $\hat{\pm}$ power spectrum as a probe of modified gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 049-049.	1.9	2
81	Testing extreme-axion wave-like dark matter using the BOSS Lyman-alpha forest data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4273-4286.	1.6	38
82	Asymmetric dark matter with a possible Bose-Einstein condensate. <i>Physical Review D</i> , 2019, 99, .	1.6	9
83	Cosmic reionization history and dark matter scenarios. <i>Physical Review D</i> , 2019, 99, .	1.6	12
84	Co-interacting dark matter. <i>Physical Review D</i> , 2019, 100, .	1.6	2
85	Cosmological scalar fields and Big-Bang nucleosynthesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 038-038.	1.9	4
86	Lyman $\hat{\pm}$ forest and non-linear structure characterization in Fuzzy Dark Matter cosmologies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3227-3243.	1.6	100
87	Interactions of astrophysical neutrinos with dark matter: a model building perspective. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	33
88	How sound are our ultralight axion approximations?. <i>Physical Review D</i> , 2020, 101, .	1.6	19
89	Relic abundance of dark photon dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 801, 135136.	1.5	144
90	Multiple ultralight axionic wave dark matter and astronomical structures. <i>Physics of the Dark Universe</i> , 2020, 30, 100636.	1.8	25

#	ARTICLE	IF	CITATIONS
91	Pulsar timing residual induced by ultralight vector dark matter. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	18
92	Constraining the nature of ultra light dark matter particles with the 21-cm forest. <i>Physical Review D</i> , 2020, 101, .	1.6	15
93	Fuzzy Dark Matter from Clockwork Axion Model. <i>Journal of the Korean Physical Society</i> , 2020, 77, 1107-1112.	0.3	0
94	Time-domain properties of electromagnetic signals in a dynamical axion background. <i>Physical Review D</i> , 2020, 102, .	1.6	6
95	Cosmological evolution of light dark photon dark matter. <i>Physical Review D</i> , 2020, 101, .	1.6	59
96	Three- and two-point spatial correlations of IGM at $z \sim 2$: cloud-based analysis using simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 6100-6119.	1.6	4
97	Pulsar timing array constraints on spin-2 ULDM. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 031-031.	1.9	14
98	Cosmological constraints on ultra-light axion fields. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 055.	0.7	4
99	The impact of AGN feedback on the 1D power spectra from the Ly α forest using the Horizon-AGN suite of simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1825-1840.	1.6	28
100	Multiple Images and Flux Ratio Anomaly of Fuzzy Gravitational Lenses. <i>Physical Review Letters</i> , 2020, 125, 111102.	2.9	14
101	Precision Metrology Meets Cosmology: Improved Constraints on Ultralight Dark Matter from Atom-Cavity Frequency Comparisons. <i>Physical Review Letters</i> , 2020, 125, 201302.	2.9	109
102	21-cm forest probes on axion dark matter in postinflationary Peccei-Quinn symmetry breaking scenarios. <i>Physical Review D</i> , 2020, 102, .	1.6	5
103	Simulating mixed fuzzy and cold dark matter. <i>Physical Review D</i> , 2020, 102, .	1.6	46
104	Optimal 1D Ly α forest power spectrum estimation â€“ I. DESI-lite spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4742-4752.	1.6	14
105	Dark photon dark matter and fast radio bursts. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	6
106	Implications of Milky-Way substructures for the nature of dark matter. <i>Physical Review D</i> , 2020, 101, .	1.6	24
107	Probing the small-scale matter power spectrum with large-scale 21-cm data. <i>Physical Review D</i> , 2020, 101, .	1.6	57
108	Small-scale structure of fuzzy and axion-like dark matter. <i>Progress in Particle and Nuclear Physics</i> , 2020, 113, 103787.	5.6	101

#	ARTICLE	IF	CITATIONS
109	Galaxy formation with BECDM – II. Cosmic filaments and first galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2027-2044.	1.6	58
110	Light scalar dark matter coupled to a trace of energy-momentum tensor. Physical Review D, 2020, 101, .	1.6	1
111	Early structure formation constraints on the ultralight axion in the postinflation scenario. Physical Review D, 2020, 101, .	1.6	23
112	Secular effects of ultralight dark matter on binary pulsars. Physical Review D, 2020, 101, .	1.6	21
113	Subhalo mass function and ultralight bosonic dark matter. Physical Review D, 2020, 101, .	1.6	71
114	Fuzzy dark matter soliton cores around supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5721-5729.	1.6	37
115	Dynamical evidence of a dark solitonic core of $1 < \mu < 0$ in the milky way. Physics of the Dark Universe, 2020, 28, 100503.	1.8	26
116	Relaxion stars and their detection via atomic physics. Communications Physics, 2020, 3, .	2.0	114
117	Binary pulsars as probes for spin-2 ultralight dark matter. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 053-053.	1.9	13
118	Oscillon of ultra-light axion-like particle. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 047-047.	1.9	19
119	Axion resonances in binary pulsar systems. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 061-061.	1.9	10
120	Large-misalignment mechanism for the formation of compact axion structures: Signatures from the QCD axion to fuzzy dark matter. Physical Review D, 2020, 101, .	1.6	118
121	Nonadiabatic cosmological production of ultralight dark matter. Physical Review D, 2020, 101, .	1.6	23
122	Hints, neutrino bounds, and WDM constraints from SDSS DR14 Lyman- α and Planck full-survey data. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 038-038.	1.9	144
123	Searching for Scalar Dark Matter with Compact Mechanical Resonators. Physical Review Letters, 2020, 124, 151301.	2.9	28
124	Baryon-driven growth of solitonic cores in fuzzy dark matter halos. Physical Review D, 2020, 101, .	1.6	39
125	Cosmic Inference: Constraining Parameters with Observations and a Highly Limited Number of Simulations. Astrophysical Journal, 2021, 906, 74.	1.6	10
126	Unifying dark matter, dark energy and inflation with a fuzzy dark fluid. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 033-033.	1.9	6

#	ARTICLE	IF	CITATIONS
127	Probing axion dark matter with 21 \AA m fluctuations from minihalos. <i>Physical Review D</i> , 2021, 103, .	1.6	4
128	Nonequilibrium Temperature Evolution of Ionization Fronts during the Epoch of Reionization. <i>Astrophysical Journal</i> , 2021, 906, 124.	1.6	3
129	One \hat{c} parametric description for scalar field dark matter potentials. <i>Astronomische Nachrichten</i> , 2021, 342, 404-410.	0.6	4
130	$\langle \text{BICEP} \rangle$ XII: Constraints on axionlike polarization oscillations in the cosmic microwave background. <i>Physical Review D</i> , 2021, 103, .	1.6	12
131	General framework for cosmological dark matter bounds using N -body simulations. <i>Physical Review D</i> , 2021, 103, .	1.6	21
132	Strong Bound on Canonical Ultralight Axion Dark Matter from the Lyman-Alpha Forest. <i>Physical Review Letters</i> , 2021, 126, 071302.	2.9	134
133	Constraints on Dark Matter Properties from Observations of Milky \hat{A} Way Satellite Galaxies. <i>Physical Review Letters</i> , 2021, 126, 091101.	2.9	144
134	Neutrino mass bounds from confronting an effective model with BOSS Lyman- $\hat{\pm}$ data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 049.	1.9	9
135	Impact of helical electromagnetic fields on the axion window. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 025.	1.9	3
136	Core-halo mass relation in scalar field dark matter models and its consequences for the formation of supermassive black holes. <i>Physical Review D</i> , 2021, 103, .	1.6	23
137	Wave dark matter and ultra-diffuse galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2868-2876.	1.6	8
138	Don't cross the streams: caustics from fuzzy dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 076.	1.9	28
139	Consequences for the Scalar Field Dark Matter Model from the McGaugh Observed-baryon Acceleration Correlation. <i>Astrophysical Journal</i> , 2021, 909, 162.	1.6	4
140	Probing oscillons of ultra-light axion-like particle by 21 cm forest. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 019.	1.9	2
141	Dark matter and the early Universe: A review. <i>Progress in Particle and Nuclear Physics</i> , 2021, 119, 103865.	5.6	82
142	Exploring the Universe with dark light scalars. <i>Physical Review D</i> , 2021, 103, .	1.6	17
143	Narrowing the Mass Range of Fuzzy Dark Matter with Ultrafaint Dwarfs. <i>Astrophysical Journal Letters</i> , 2021, 912, L3.	3.0	34
144	The Ly $\hat{\pm}$ forest flux correlation function: a perturbation theory perspective. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 053.	1.9	8

#	ARTICLE	IF	CITATIONS
145	Axions: From magnetars and neutron star mergers to beam dumps and BECs. <i>International Journal of Modern Physics D</i> , 2021, 30, 2130002.	0.9	15
146	Properties of ultralight bosons from heavy quasar spins via superradiance. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 007.	1.9	22
147	CMB birefringence from ultralight-axion string networks. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 055.	1.9	22
148	An emulator for the Lyman- α forest in beyond- Λ CDM cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 033.	1.9	24
149	Fuzzy Dark Matter and the 21 cm Power Spectrum. <i>Astrophysical Journal</i> , 2021, 913, 7.	1.6	24
150	Soliton oscillations and revised constraints from Eridanus II of fuzzy dark matter. <i>Physical Review D</i> , 2021, 103, .	1.6	19
151	Cosmological perturbations for ultralight axionlike particles in a state of Bose-Einstein condensate. <i>Physical Review D</i> , 2021, 103, .	1.6	2
152	Axial Anomaly in Galaxies and the Dark Universe. <i>Universe</i> , 2021, 7, 198.	0.9	6
153	Rapid onset of the 21-cm signal suggests a preferred mass range for dark matter particle. <i>Physical Review D</i> , 2021, 103, .	1.6	7
154	Observing invisible axions with gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 034.	1.9	49
155	Relaxation in a Fuzzy Dark Matter Halo. II. Self-consistent Kinetic Equations. <i>Astrophysical Journal</i> , 2021, 915, 27.	1.6	11
156	Structure of the oscillon: The dynamics of attractive self-interaction. <i>Physical Review D</i> , 2021, 103, .	1.6	19
157	On the Random Motion of Nuclear Objects in a Fuzzy Dark Matter Halo. <i>Astrophysical Journal</i> , 2021, 916, 27.	1.6	25
158	A consistent and robust measurement of the thermal state of the IGM at $2 < i > z < / i > \hat{=} 4$ from a large sample of Ly α forest spectra: evidence for late and rapid He reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4389-4412.	1.6	42
159	To Observe, or Not to Observe, Quantum-Coherent Dark Matter in the Milky Way, That is a Question. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	1
160	Assessing the Fornax globular cluster timing problem in different models of dark matter. <i>Physical Review D</i> , 2021, 104, .	1.6	16
161	Constraining ultra-light axions with galaxy cluster number counts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 004.	1.9	3
162	Ultra-light dark matter. <i>Astronomy and Astrophysics Review</i> , 2021, 29, 1.	9.1	150

#	ARTICLE	IF	CITATIONS
163	Constraints on axionic fuzzy dark matter from light bending and Shapiro time delay. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 041.	1.9	9
164	Wave Dark Matter. Annual Review of Astronomy and Astrophysics, 2021, 59, 247-289.	8.1	133
165	Signatures of ultralight dark matter in neutrino oscillation experiments. Journal of High Energy Physics, 2021, 2021, 1.	1.6	21
166	Ultralight DM bosons with an axion-like potential: scale-dependent constraints revisited. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 051-051.	1.9	17
167	Light dark photon dark matter from inflation. Journal of High Energy Physics, 2020, 2020, 170.	1.6	31
168	Galactic condensates composed of multiple axion species. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 020-020.	1.9	17
169	Post-inflationary axion isocurvature perturbations facing CMB and large-scale structure. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 046-046.	1.9	9
170	Scaling relations of fuzzy dark matter haloes “ I. Individual systems in their cosmological environment. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1539-1556.	1.6	31
171	Cosmological tension of ultralight axion dark matter and its solutions. Physical Review D, 2020, 102, .	1.6	16
172	Bounds on very weakly interacting ultra light scalar and pseudoscalar dark matter from quantum gravity. European Physical Journal C, 2020, 80, 1.	1.4	7
173	Testing the Prediction of Fuzzy Dark Matter Theory in the Milky Way Center. Astrophysical Journal, 2020, 889, 88.	1.6	20
174	A measurement of the Ly α forest power spectrum and its cross with the Ly α forest in X-Shooter XQ-100. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2423-2442.	1.6	2
175	Earth as a transducer for dark-photon dark-matter detection. Physical Review D, 2021, 104, .	1.6	19
176	Astronomy with energy dependent flavour ratios of extragalactic neutrinos. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
177	Cosmological structure formation in scalar field dark matter with repulsive self-interaction: the incredible shrinking Jeans mass. Monthly Notices of the Royal Astronomical Society, 2021, 509, 145-173.	1.6	16
178	Novel constraints on the particle nature of dark matter from stellar streams. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043.	1.9	40
179	Two-scalar Bose-Einstein condensates: from stars to galaxies. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 028.	1.9	12
180	Warm and cold dark matter in a bouncing universe. Physical Review D, 2020, 102, .	1.6	0

#	ARTICLE	IF	CITATIONS
199	Probing scalar dark matter oscillations with neutrino oscillations. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	1.6	14
200	Ultralight dark matter or dark radiation cosmologically produced from infrared dressing. <i>Physical Review D</i> , 2021, 104, .	1.6	2
201	Heterodyne broadband detection of axion dark matter. <i>Physical Review D</i> , 2021, 104, .	1.6	27
202	Superradiance evolution of black hole shadows revisited. <i>Physical Review D</i> , 2022, 105, .	1.6	63
203	Galactic rotation curves versus ultralight dark matter: A systematic comparison with SPARC data. <i>Physical Review D</i> , 2022, 105, .	1.6	32
204	Limits on the Light Dark Matter-Proton Cross Section from Cosmic Large-Scale Structure. <i>Physical Review Letters</i> , 2022, 128, 171301.	2.9	23
205	Measuring the stability of fundamental constants with a network of clocks. <i>EPJ Quantum Technology</i> , 2022, 9, .	2.9	11
206	Deep Zoom-In Simulation of a Fuzzy Dark Matter Galactic Halo. <i>Physical Review Letters</i> , 2022, 128, 181301.	2.9	16
207	Nonminimally coupled ultralight axions as cold dark matter. <i>Physical Review D</i> , 2022, 105, .	1.6	1
208	Cointeracting dark matter and conformally coupled light scalars. <i>Physical Review D</i> , 2022, 105, .	1.6	1
209	Searching for dark-matter waves with PPTA and QUIJOTE pulsar polarimetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 014.	1.9	7
210	Accurate effective fluid approximation for ultralight axions. <i>Physical Review D</i> , 2022, 105, .	1.6	6
211	Cosmological structure formation in complex scalar field dark matter versus real ultralight axions: A comparative study using class. <i>Physical Review D</i> , 2022, 105, .	1.6	8
212	Deep forest: neural network reconstruction of intergalactic medium temperature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1568-1579.	1.6	2
213	Tidal disruption of solitons in self-interacting ultralight axion dark matter. <i>Physical Review D</i> , 2022, 105, .	1.6	9
214	Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies. <i>Astrophysical Journal</i> , 2022, 932, 128.	1.6	16
215	Fuzzy dark matter and the Dark Energy Survey Year 1 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 5646-5664.	1.6	21
216	Small-scale structure in vector dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 014.	1.9	29

#	ARTICLE	IF	CITATIONS
217	Testing multiflavored ultralight dark matter models with SPARC. <i>Physical Review D</i> , 2022, 106, .	1.6	7
218	Signatures of Light Massive Relics on non-linear structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 516, 2038-2049.	1.6	5
219	Subsonic accretion and dynamical friction for a black hole moving through a self-interacting scalar dark matter cloud. <i>Physical Review D</i> , 2022, 106, .	1.6	8
220	Astrophysical Searches and Constraints. , 2023, , 73-122.		1
221	Constraining fundamental constant variations from ultralight dark matter with pulsar timing arrays. <i>Physical Review D</i> , 2022, 106, .	1.6	10
222	Searching for axionlike time-dependent cosmic birefringence with data from SPT-3G. <i>Physical Review D</i> , 2022, 106, .	1.6	7
223	Closing the window on fuzzy dark matter with the 21-cm signal. <i>Physical Review D</i> , 2022, 106, .	1.6	16
224	Harvesting the Ly $\hat{\pm}$ forest with convolutional neural networks. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	1
225	Astroparticle Constraints from Cosmic Reionization and Primordial Galaxy Formation. <i>Universe</i> , 2022, 8, 476.	0.9	5
226	Pulsar timing residual induced by wideband ultralight dark matter with spin 0,1,2. <i>Physical Review D</i> , 2022, 106, .	1.6	8
227	Non-linearities in the Lyman- $\hat{\pm}$ forest and in its cross-correlation with dark matter halos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 070.	1.9	4
228	Nonperturbative structure in coupled axion sectors and implications for direct detection. <i>Physical Review D</i> , 2022, 106, .	1.6	6
229	One likelihood to bind them all: Lyman- $\hat{\pm}$ constraints on non-standard dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 032.	1.9	16
230	Soliton stars in Yang-Mills-Higgs theories. <i>Physical Review D</i> , 2022, 106, .	1.6	13
231	Searching for axion-like particles through CMB birefringence from string-wall networks. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 090.	1.9	12
232	Modelling the Lyman- $\hat{\pm}$ forest with Eulerian and SPH hydrodynamical methods. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 518, 3754-3776.	1.6	6
233	Astroparticle Constraints from the Cosmic Star Formation Rate Density at High Redshift: Current Status and Forecasts for JWST. <i>Universe</i> , 2022, 8, 589.	0.9	4
234	Comparison of Low-Redshift Lyman- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{\pm} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Forest Observations to Hydrodynamical Simulations with Dark Photon Dark Matter. <i>Physical Review Letters</i> , 2022, 129, .	2.9	13

#	ARTICLE	IF	CITATIONS
235	Black Hole in Quantum Wave Dark Matter. Fortschritte Der Physik, 2023, 71, .	1.5	17
236	Self-interacting superfluid dark matter droplets. Monthly Notices of the Royal Astronomical Society, 2022, 518, 4064-4072.	1.6	9
237	Can ultralight dark matter explain the ageâ€“velocity dispersion relation of the Milky Way disc: A revised and improved treatment. Monthly Notices of the Royal Astronomical Society, 2022, 518, 4045-4063.	1.6	5
238	Cosmological constraints on the multiscalar field dark matter model. Physical Review D, 2022, 106, .	1.6	8
239	If Dark Matter is Fuzzy, the First Stars Form in Massive Pancakes. Astrophysical Journal Letters, 2022, 941, L18.	3.0	4
240	On the cosmic web elongation in fuzzy dark matter cosmologies: Effects on density profiles, shapes, and alignments of haloes. Monthly Notices of the Royal Astronomical Society, 2023, 519, 4183-4202.	1.6	8
241	A comparison of numerical methods for computing the reionization of intergalactic hydrogen and helium by a central radiating source. Monthly Notices of the Royal Astronomical Society, 0, .	1.6	0
242	Dynamical friction in fuzzy dark matter: Circular orbits. Physical Review D, 2023, 107, .	1.6	7
243	From Images to Dark Matter: End-to-end Inference of Substructure from Hundreds of Strong Gravitational Lenses. Astrophysical Journal, 2023, 942, 75.	1.6	13
244	Small-scale clumping of dark matter and the mean free path of ionizing photons at $z = 6$. Journal of Cosmology and Astroparticle Physics, 2023, 2023, 002.	1.9	5
245	Parasitic black holes: The swallowing of a fuzzy dark matter soliton. Physical Review D, 2022, 106, .	1.6	12
246	Multifield ultralight dark matter. Physical Review D, 2023, 107, .	1.6	11
247	The present and future status of heavy neutral leptons. Journal of Physics G: Nuclear and Particle Physics, 2023, 50, 020501.	1.4	37
248	Halo heating from fluctuating gas in a model dwarf. Monthly Notices of the Royal Astronomical Society, 2023, 521, 772-789.	1.6	0
249	Quantum tunneling of ultralight dark matter out of satellite galaxies. Journal of Cosmology and Astroparticle Physics, 2023, 2023, 059.	1.9	1
250	Compressing the Cosmological Information in One-dimensional Correlations of the Lyman- β Forest. Astrophysical Journal, 2023, 944, 223.	1.6	7
251	Cosmological structure formation and soliton phase transition in fuzzy dark matter with axion self-interactions. Monthly Notices of the Royal Astronomical Society, 2023, 521, 2608-2615.	1.6	14
252	Cosmological simulations of two-component wave dark matter. Monthly Notices of the Royal Astronomical Society, 2023, 522, 515-534.	1.6	7

#	ARTICLE	IF	CITATIONS
253	Fuzzy Dark Matter as a Solution to Reconcile the Stellar Mass Density of High-z Massive Galaxies and Reionization History. <i>Astrophysical Journal</i> , 2023, 947, 28.	1.6	10
254	Fuzzy Aquarius: evolution of a Milky-way like system in the Fuzzy Dark Matter scenario. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 522, 1451-1463.	1.6	5
255	Einstein rings modulated by wavelike dark matter from anomalies in gravitationally lensed images. <i>Nature Astronomy</i> , 2023, 7, 736-747.	4.2	10
298	Feebly-interacting particles: FIPs 2022 Workshop Report. <i>European Physical Journal C</i> , 2023, 83, .	1.4	10