

# CÃ©line BÅ“hm

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,975  
citations

196777

29  
h-index

129628

63  
g-index

83  
all docs

83  
docs citations

83  
times ranked

7508  
citing authors

#	ARTICLE	IF	CITATIONS
1	An INTEGRAL/SPI view of reticulum II: particle dark matter and primordial black holes limits in the MeV range. Monthly Notices of the Royal Astronomical Society, 2022, 511, 914-924.	1.6	16
2	The full Boltzmann hierarchy for dark matter-massive neutrino interactions. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 066.	1.9	27
3	Scalar dark matter candidates revisited. Physical Review D, 2021, 103, .	1.6	11
4	Optical reconstruction of dust in the region of supernova remnant RX J1713.7âˆ³946 from astrometric data. Nature Astronomy, 2021, 5, 832-838.	4.2	3
5	Faint objects in motion: the new frontier of high precision astrometry. Experimental Astronomy, 2021, 51, 845-886.	1.6	17
6	Light new physics in XENON1T. Physical Review D, 2020, 102, .	1.6	38
7	The BUFFALO HST Survey. Astrophysical Journal, Supplement Series, 2020, 247, 64.	3.0	57
8	Is it mixed dark matter or neutrino masses?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 039-039.	1.9	9
9	Using circular polarization to test the composition and dynamics of astrophysical particle accelerators. Physical Review D, 2020, 102, .	1.6	2
10	Reply to "Comment on "Understanding the $\gamma$ -ray emission from the globular cluster 47 Tuc: Evidence for dark matter?". Physical Review D, 2019, 100, .	1.6	2
11	Comprehensive study of neutrino-dark matter mixed damping. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 014-014.	1.9	24
12	Gaia DR2 gravitational lens systems. Astronomy and Astrophysics, 2019, 628, A17.	2.1	5
13	Constraints on $\Lambda^3$ -CDM interactions matching the Planck data precision. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 009-009.	1.9	29
14	Dark matter-neutrino interactions through the lens of their cosmological implications. Physical Review D, 2018, 97, .	1.6	64
15	Reducing the $H_0$ tension with dark matter-neutrino interactions. Physical Review D, 2018, 97, .	1.6	133
16	Understanding the $\gamma$ -ray emission from the globular cluster 47 Tuc: Evidence for dark matter?. Physical Review D, 2018, 98, .	1.6	21
17	Circular polarisation: a new probe of dark matter and neutrinos in the sky. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 043-043.	1.9	25
18	Discovery of a new extragalactic population of energetic particles. Physical Review D, 2017, 95, .	1.6	21

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19	Unique probe of dark matter in the core of M87 with the Event Horizon Telescope. <i>Physical Review D</i> , 2017, 96, .	1.6	26
20	The Fermi-LAT spectrum of Centaurus A - Analysis and interpretations. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
21	The Energetic Particle Population in Centaurus A. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 211-214.	0.0	0
22	Ruling out the light weakly interacting massive particle explanation of the Galactic 511 keV line. <i>Physical Review D</i> , 2016, 94, .	1.6	35
23	Connecting the new H.E.S.S. diffuse emission at the Galactic Center with the Fermi GeV excess: A combination of millisecond pulsars and heavy dark matter?. <i>Physical Review D</i> , 2016, 94, .	1.6	9
24	Microarcsecond astrometric observatory Theia: from dark matter to compact objects and nearby earths. , 2016, , .		8
25	Isotropic extragalactic flux from dark matter annihilations: lessons from interacting dark matter scenarios. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 069-069.	1.9	12
26	Spatial morphology of the secondary emission in the Galactic Center gamma-ray excess. <i>Physical Review D</i> , 2016, 93, .	1.6	16
27	Shocking signals of dark matter annihilation. <i>Physical Review D</i> , 2016, 93, .	1.6	1
28	Physics from solar neutrinos in dark matter direct detection experiments. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	54
29	Radiative model of neutrino mass with neutrino interacting MeV dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 049-049.	1.9	25
30	Search for 511 keV emission in satellite galaxies of the Milky Way with INTEGRAL/SPI. <i>Astronomy and Astrophysics</i> , 2016, 595, A25.	2.1	29
31	Ruling out thermal dark matter with a black hole induced spiky profile in the M87 galaxy. <i>Physical Review D</i> , 2015, 92, .	1.6	25
32	Interplay and characterization of Dark Matter searches at colliders and in direct detection experiments. <i>Physics of the Dark Universe</i> , 2015, 9-10, 51-58.	1.8	40
33	Exploring dark matter microphysics with galaxy surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 034-034.	1.9	16
34	Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015, 9-10, 8-23.	1.8	250
35	Extended gamma-ray emission from Coy Dark Matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 009-009.	1.9	124
36	Fitting the Fermi-LAT GeV excess: On the importance of including the propagation of electrons from dark matter. <i>Physical Review D</i> , 2014, 90, .	1.6	67

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37	New method for analyzing dark matter direct detection data. <i>Physical Review D</i> , 2014, 89, .	1.6	3
38	Probing a dark matter density spike at the Galactic Center. <i>Physical Review D</i> , 2014, 89, .	1.6	19
39	Interpretation of the Galactic Center excess of gamma rays with heavier dark matter particles. <i>Physical Review D</i> , 2014, 90, .	1.6	75
40	First look at the physics case of TLEP. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	269
41	Quantifying the evidence for dark matter in CoGeNT data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 014-014.	1.9	33
42	Naturalness of light neutralino dark matter in pMSSM after LHC, XENON100 and Planck data. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	81
43	Violation of the FRW consistency condition as a signature of backreaction. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 003-003.	1.9	24
44	Observing Higgs boson production through its decay into $\hat{1}^3$ -rays: A messenger for dark matter candidates. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 100-106.	1.5	7
45	A lower bound on the mass of cold thermal dark matter from Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 041-041.	1.9	187
46	Affine extensions of non-crystallographic Coxeter groups induced by projection. <i>Journal of Mathematical Physics</i> , 2013, 54, 093508.	0.5	16
47	Probing the supersymmetric inflaton and dark matter link via the CMB, LHC, and XENON1T experiments. <i>Physical Review D</i> , 2013, 87, .	1.6	12
48	XENON100 exclusion limit without considering $L$ as a nuisance parameter. <i>Physical Review D</i> , 2012, 86, .	1.6	6
49	PAMELA and FERMI limits on the neutralino-chargino mass degeneracy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 028-028.	1.9	29
50	Novel Kac-Moody-type affine extensions of non-crystallographic Coxeter groups. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 285202.	0.7	17
51	Light neutralino dark matter in the MSSM and its implication for LHC searches for staus. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	24
52	125 GeV Higgs boson in the NMSSM in light of the LHC results and astrophysics constraints. <i>Physical Review D</i> , 2012, 86, .	1.6	48
53	Can Planck constrain indirect detection of dark matter in our Galaxy?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 422, L16-L20.	1.2	11
54	Astrophysical limits on light NMSSM neutralinos. <i>Physical Review D</i> , 2011, 84, .	1.6	21

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55	Signature of sub GeV dark matter particles at the LHC and the Tevatron. Physical Review D, 2011, 83, .	1.6	2
56	Revisiting light neutralino scenarios in the MSSM. Physical Review D, 2011, 84, .	1.6	20
57	The 511 keV emission from positron annihilation in the Galaxy. Reviews of Modern Physics, 2011, 83, 1001-1056.	16.4	197
58	Can the Morphology of $\gamma$ -Ray Emission Distinguish Annihilating from Decaying Dark Matter?. Physical Review Letters, 2010, 105, 221301.	2.9	12
59	Implication of the PAMELA antiproton data for dark matter indirect detection at LHC. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 013-013.	1.9	5
60	On the Sunyaev-Zel'dovich effect from dark matter annihilation or decay in galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 005-005.	1.9	10
61	Can neutralinos in the MSSM and NMSSM scenarios still be light?. Physical Review D, 2010, 82, .	1.6	59
62	The dark matter interpretation of the 511 keV line. New Journal of Physics, 2009, 11, 105009.	1.2	3
63	Clarifying the covariant formalism for the Sunyaev-Zel'dovich effect due to relativistic nonthermal electrons. Physical Review D, 2009, 79, .	1.6	9
64	A new test for dark matter particles of low mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 661, 287-289.	1.5	20
65	Is it possible to explain neutrino masses with scalar dark matter?. Physical Review D, 2008, 77, .	1.6	91
66	Light dark matter annihilations into two photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 247-253.	1.5	19
67	Large Scale Structure in Bekenstein's Theory of Relativistic Modified Newtonian Dynamics. Physical Review Letters, 2006, 96, 011301.	2.9	221
68	Non-linear evolution of suppressed dark matter primordial power spectra. Monthly Notices of the Royal Astronomical Society, 2005, 360, 282-287.	1.6	30
69	Constraints on Dark Matter interactions from structure formation: damping lengths. Astronomy and Astrophysics, 2005, 438, 419-442.	2.1	120
70	Can annihilating dark matter be lighter than a few GeVs?. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 279-285.	1.4	119
71	More evidence in favor of light dark matter particles?. Physical Review D, 2004, 70, .	1.6	35
72	Implications of a new light gauge boson for neutrino physics. Physical Review D, 2004, 70, .	1.6	27

#	ARTICLE	IF	CITATIONS
73	MeV Dark Matter: Has It Been Detected?. Physical Review Letters, 2004, 92, 101301.	2.9	369
74	Possible Evidence for MeV Dark Matter in Dwarf Spheroidals. Physical Review Letters, 2004, 93, 161302.	2.9	60
75	STRUCTURE FORMATION FOR LIGHT ANNIHILATING DARK MATTER. International Journal of Modern Physics A, 2004, 19, 4355-4365.	0.5	5
76	Interacting dark matter disguised as warm dark matter. Physical Review D, 2002, 66, .	1.6	105
77	Constraining the Strength of Dark Matter Interactions from Structure Formation. , 2002, , 333-344.		1
78	Light scalar top quarks and supersymmetric dark matter. Physical Review D, 2000, 62, .	1.6	204
79	Decays of the lightest top squark. Physical Review D, 2000, 61, .	1.6	93
80	Could electromagnetic corrections solve the vorton excess problem?. Physical Review D, 1998, 57, 2580-2589.	1.6	11
81	A Reputation Game Simulation: Emergent Social Phenomena from Information Theory. Annalen Der Physik, 0, , 2100277.	0.9	4