Simon Knapen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5618309/publications.pdf

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41 papers	2,149 citations	257450 24 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	5506 citing authors

#	Article	IF	Citations
1	python package for dark matter scattering in dielectric targets. Physical Review D, 2022, 105, .	4.7	32
2	Unleashing the full power of LHCb to probe stealth new physics. Reports on Progress in Physics, 2022, 85, 024201.	20.1	20
3	Searching for axionlike particles with data scouting at ATLAS and CMS. Physical Review D, 2022, 105, .	4.7	9
4	Searching for exotic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math> -meson decays enabled by the CMS L1 track trigger. Physical Review D, 2021, 103, .	4.7	8
5	Perturbative benchmark models for a dark shower search program. Physical Review D, 2021, 103, .	4.7	28
6	Dark matter-electron scattering in dielectrics. Physical Review D, 2021, 104, .	4.7	36
7	Migdal Effect in Semiconductors. Physical Review Letters, 2021, 127, 081805.	7.8	48
8	Direct discovery of new light states at the FCCee. European Physical Journal Plus, 2021, 136, 1.	2.6	3
9	Probing naturally light singlets with a displaced vertex trigger. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136758.	4.1	20
10	Multiphonon excitations from dark matter scattering in crystals. Physical Review D, 2020, 101, .	4.7	26
11	Trigger strategy for displaced muon pairs following the CMS phase II upgrades. Physical Review D, 2020, 101, .	4.7	11
12	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	3.6	133
13	Expression of interest for the CODEX-b detector. European Physical Journal C, 2020, 80, 1.	3.9	63
14	Direct detection of bound states of asymmetric dark matter. Physical Review D, 2019, 100, .	4.7	30
15	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
16	Leveraging the ALICE/L3 cavern for long-lived particle searches. Physical Review D, 2019, 99, .	4.7	48
17	Searching for long-lived particles: A compact detector for exotics at LHCb. Physical Review D, 2018, 97, .	4.7	169
18	Directional detection of light dark matter with polar materials. Physical Review D, 2018, 98, .	4.7	90

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19	Detection of light dark matter with optical phonons in polar materials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 386-390.	4.1	128
20	Light dark matter in superfluid helium: Detection with multi-excitation production. Physical Review D, 2017, 95, .	4.7	97
21	Searching for Axionlike Particles with Ultraperipheral Heavy-Ion Collisions. Physical Review Letters, 2017, 118, 171801.	7.8	143
22	Gauge mediation at the LHC: status and prospects. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
23	Triggering soft bombs at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	43
24	Light dark matter: Models and constraints. Physical Review D, 2017, 96, .	4.7	213
25	Tracking down quirks at the Large Hadron Collider. Physical Review D, 2017, 96, .	4.7	11
26	Diphotons from electroweak triplet-singlet mixing. Physical Review D, 2016, 94, .	4.7	4
27	Rays of light from the LHC. Physical Review D, 2016, 93, .	4.7	95
28	The vector-like twin Higgs. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
29	Gauge mediated mini-split. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
30	Gamma-rays from dark showers with twin Higgs models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	38
31	General gauge mediation at the weak scale. Journal of High Energy Physics, 2016, 2016, 1.	4.7	10
32	Disentangling Mass and Mixing Hierarchies. Physical Review Letters, 2015, 115, 161803.	7.8	21
33	125 GeV Higgs from tree-level A-terms. Journal of High Energy Physics, 2015, 2015, 1.	4.7	13
34	Neutral Naturalness from Orbifold Higgs Models. Physical Review Letters, 2015, 114, 061803.	7.8	91
35	The Orbifold Higgs. Journal of High Energy Physics, 2015, 2015, 1.	4.7	58
36	Higgs mediation with strong hidden sector dynamics. Journal of High Energy Physics, 2014, 2014, 1.	4.7	12

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37	A complete model of low-scale gauge mediation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	61
38	General messenger Higgs mediation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
39	Diagnosing the top-quark angular asymmetry using LHC intrinsic charge asymmetries. Physical Review D, 2012, 86, .	4.7	14
40	Bounds from LEP on unparticle interactions with electroweak bosons. Physical Review D, 2011, 84, .	4.7	11
41	Field representations of vector supersymmetry. Journal of High Energy Physics, 2010, 2010, 1.	4.7	0