

Doojin Kim

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,101
citations

331670

21
h-index

477307

29
g-index

64
all docs

64
docs citations

64
times ranked

4080
citing authors

#	ARTICLE	IF	CITATIONS
1	Stasis in an expanding universe: A recipe for stable mixed-component cosmological eras. <i>Physical Review D</i> , 2022, 105, .	4.7	8
2	Pathfinder for a high statistics search for missing energy in gamma cascades. <i>Physical Review D</i> , 2022, 105, .	4.7	5
3	Searching for dark matter signals in timing spectra at neutrino experiments. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	16
4	Axionlike Particles at Future Neutrino Experiments: Closing the Cosmological Triangle. <i>Physical Review Letters</i> , 2021, 126, 201801.	7.8	27
5	Axions: From magnetars and neutron star mergers to beam dumps and BECs. <i>International Journal of Modern Physics D</i> , 2021, 30, 2130002.	2.1	15
6	Implications of the XENON1T excess on the dark matter interpretation. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	9
7	PASSAT at future neutrino experiments: Hybrid beam-dump-helioscope facilities to probe light axionlike particles. <i>Physical Review D</i> , 2021, 104, .	4.7	4
8	Coherent elastic neutrino-nucleus scattering with the $\hat{1}/2\text{BDX}\hat{\alpha}^{\sim}\text{DRIFT}$ directional detector at next generation neutrino facilities. <i>Physical Review D</i> , 2021, 104, .	4.7	8
9	New interference effects from light gauge bosons in neutrino-electron scattering. <i>Physical Review D</i> , 2021, 104, .	4.7	7
10	Probing energetic light dark matter with multi-particle tracks signatures at DUNE. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
11	Optimizing energetic light dark matter searches in dark matter and neutrino experiments. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
12	LHC signals for KK graviton from an extended warped extra dimension. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	5
13	Nonminimal dark sectors: Mediator-induced decay chains and multijet collider signatures. <i>Physical Review D</i> , 2020, 101, .	4.7	11
14	New Directions for Axion Searches via Scattering at Reactor Neutrino Experiments. <i>Physical Review Letters</i> , 2020, 124, 211804.	7.8	41
15	Dark Matter Signals from Timing Spectra at Neutrino Experiments. <i>Physical Review Letters</i> , 2020, 124, 121802.	7.8	46
16	PASSAT: particle accelerator helioScopes for Slim Axion-like-particle deTection. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	13
17	Enhancing the discovery prospects for SUSY-like decays with a forgotten kinematic variable. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	6
18	Dedicated strategies for triboson signals from cascade decays of vector resonances. <i>Physical Review D</i> , 2019, 99, .	4.7	14

#	ARTICLE	IF	CITATIONS
19	Explaining the ANITA anomaly with inelastic boosted dark matter. Physical Review D, 2019, 100, .	4.7	27
20	Searching for boosted dark matter via dark-photon bremsstrahlung. Physical Review D, 2019, 100, .	4.7	12
21	Kinematic focus point method for particle mass measurements in missing energy events. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
22	Dark matter "transporting" mechanism explaining positron excesses. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
23	Inelastic Boosted Dark Matter at direct detection experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 543-552.	4.1	53
24	Fragmentation uncertainties in hadronic observables for top-quark mass measurements. Nuclear Physics B, 2018, 929, 485-526.	2.5	17
25	Detecting a boosted diboson resonance. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
26	Searching for boosted dark matter at ProtoDUNE. Physical Review D, 2018, 98, .	4.7	27
27	Boosted dark matter quarrying at surface neutrino detectors. Journal of High Energy Physics, 2018, 2018, 1.	4.7	22
28	How to prove that a $\frac{\partial}{\partial t} \int d^3x \frac{1}{\sqrt{1-v^2/c^2}} \epsilon_{ijk} \partial_j \partial_l \dots$ excess at the LHC is not due to dark matter. Physical Review D, 2018, 98, .	4.7	1
29	Dark Matter "Collider" from Inelastic Boosted Dark Matter. Physical Review Letters, 2017, 119, 161801.	7.8	41
30	Boxes, boosts, and energy duality: Understanding the Galactic Center gamma-ray excess through Dynamical Dark Matter. Physical Review D, 2017, 95, .	4.7	21
31	LHC signals from cascade decays of warped vector resonances. Journal of High Energy Physics, 2017, 2017, 1.	4.7	25
32	Detecting kinematic boundary surfaces in phase space: particle mass measurements in SUSY-like events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
33	Testing invisible momentum ansatz in missing energy events at the LHC. Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
34	Identifying a new particle with jet substructures. Journal of High Energy Physics, 2017, 2017, 1.	4.7	0
35	Resolving combinatorial ambiguities in dilepton $\frac{d\sigma}{d\Omega d\Omega' d\phi d\phi'} \propto \frac{1}{(4\pi)^2} \frac{d\Omega d\Omega'}{d\cos\theta d\cos\theta'} \dots$ event topologies with constrained $\frac{d\sigma}{d\cos\theta d\cos\theta' d\phi d\phi'}$	4.7	11
36	DDM trilogy with the "energy-peak" method: MeV, GeV, and TeV. AIP Conference Proceedings, 2017, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Mass measurement using energy spectra in three-body decays. Journal of High Energy Physics, 2016, 2016, 1.	4.7	9
38	Lines and boxes: Unmasking Dynamical Dark Matter through correlations in the MeV gamma-ray spectrum. Physical Review D, 2016, 94, .	4.7	25
39	Distinguishing dark matter stabilization symmetries at hadron colliders. AIP Conference Proceedings, 2016, , .	0.4	1
40	Edge detecting new physics the Voronoi way. Europhysics Letters, 2016, 114, 41001.	2.0	17
41	Enhancement of new physics signal sensitivity with mistagged charm quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 190-194.	4.1	4
42	750 GeV Diphoton Excess May Not Imply a 750 GeV Resonance. Physical Review Letters, 2016, 116, 151805.	7.8	54
43	Top quark mass determination from the energy peaks of b-jets and B-hadrons at NLO QCD. European Physical Journal C, 2016, 76, 1.	3.9	14
44	Identifying phase-space boundaries with Voronoi tessellations. European Physical Journal C, 2016, 76, 1.	3.9	15
45	OPTIMASS: a package for the minimization of kinematic mass functions with constraints. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
46	Using sorted invariant mass variables to evade combinatorial ambiguities in cascade decays. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
47	Disambiguating seesaw models using invariant mass variables at hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	50
48	Energy spectra of massive two-body decay products and mass measurement. Journal of High Energy Physics, 2016, 2016, 1-37.	4.7	7
49	Energy peak: Back to the Galactic Center GeV gamma-ray excess. Physics of the Dark Universe, 2016, 11, 74-78.	4.9	9
50	An alternative interpretation for cosmic ray peaks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 552-558.	4.1	7
51	Photon cascade decay of the warped graviton at LHC14 and a 100 TeV hadron collider. Physical Review D, 2015, 91, .	4.7	1
52	Kinematic discrimination of $t\bar{t}W$ and $t\bar{t}Z$ productions using initial state radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 512-524.	4.1	5
53	Improving the sensitivity of stop searches with on-shell constrained invariant mass variables. Journal of High Energy Physics, 2015, 2015, 1.	4.7	21
54	Diboson excesses demystified in effective field theory approach. Journal of High Energy Physics, 2015, 2015, 1.	4.7	23

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55	Invisible dark gauge boson search in top decays using a kinematic method. Journal of High Energy Physics, 2015, 2015, 1.	4.7	10
56	Probing Resonance Decays to Two Visible and Multiple Invisible Particles. Physical Review Letters, 2014, 112, .	7.8	30
57	Z with missing energy as a warped graviton signal at hadron colliders. Physical Review D, 2014, 89, .	4.7	9
58	Using energy peaks to measure new particle masses. Journal of High Energy Physics, 2014, 2014, 1.	4.7	22
59	On-shell constrained M^2 variables with applications to mass measurements and topology disambiguation. Journal of High Energy Physics, 2014, 2014, 1.	4.7	37
60	Using energy peaks to count dark matter particles in decays. Physics of the Dark Universe, 2013, 2, 72-82.	4.9	28
61	Simple ϵ -invariance of two-body decay kinematics. Physical Review D, 2013, 88, .	4.7	38
62	Using $\langle m_{\text{sub}} M \rangle T^2$ to distinguish dark matter stabilization symmetries. Physical Review D, 2011, 84, .	4.7	23
63	Improving the tunings of the MSSM by adding triplets and singlet. Physical Review D, 2011, 84, .	4.7	14
64	Distinguishing dark matter stabilization symmetries using multiple kinematic edges and cusps. Physical Review D, 2010, 82, .	4.7	31