

Heikki MÄntysaari

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,000
citations

201674

27
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

2659
citing authors

#	ARTICLE	IF	CITATIONS
1	Single inclusive particle production at high energy from HERA data to proton-nucleus collisions. Physical Review D, 2013, 88, .	4.7	131
2	Evidence of Strong Proton Shape Fluctuations from Incoherent Diffraction. Physical Review Letters, 2016, 117, 052301.	7.8	128
3	The electron-ion collider: assessing the energy dependence of key measurements. Reports on Progress in Physics, 2019, 82, 024301.	20.1	104
4	Imprints of fluctuating proton shapes on flow in proton-lead collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 681-686.	4.1	95
5	The Large Hadron-Electron Collider at the HL-LHC. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 110501.	3.6	89
6	Forward dihadron correlations in deuteron-gold collisions with a Gaussian approximation of JIMWLK. Nuclear Physics A, 2013, 908, 51-72.	1.5	88
7	Revealing proton shape fluctuations with incoherent diffraction at high energy. Physical Review D, 2016, 94, .	4.7	88
8	Single inclusive particle production in ultraperipheral Pb+Pb and proton-nucleus collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2013, 87, .	2.9	87
9	Direct numerical solution of the coordinate space Balitsky-Kovchegov equation at next-to-leading order. Physical Review D, 2015, 91, .	4.7	87
10	Incoherent diffractive production in high-energy nuclear deep-inelastic scattering. Physical Review C, 2011, 83, .	2.9	86
11	Next-to-leading order Balitsky-Kovchegov equation with resummation. Physical Review D, 2016, 93, .	4.7	76
12	Forward production in proton-nucleus collisions at high energy. Physical Review D, 2015, 91, .	4.7	74
13	Color glass condensate at next-to-leading order meets HERA data. Physical Review D, 2020, 102, .	4.7	59
14	Probing subnucleon scale fluctuations in ultraperipheral heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 832-838.	4.1	56
15	Diffractive dijet production and Wigner distributions from the color glass condensate. Physical Review D, 2019, 99, .	4.7	56
16	Imaging the nucleus with high-energy photons. Nature Reviews Physics, 2019, 1, 662-674.	26.6	55
17	On the running coupling in the JIMWLK equation. European Physical Journal C, 2013, 73, 1.	3.9	51
18	Confronting the impact parameter dependent JIMWLK evolution with HERA data. Physical Review D, 2018, 98, .	4.7	48

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19	In depth analysis of the combined HERA data in the dipole models with and without saturation. Physical Review D, 2018, 98, .	4.7	44
20	Predictions for cold nuclear matter effects in p+Pb collisions at $\sqrt{s} < N < /m$ TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
21	Multigluon Correlations and Evidence of Saturation from Dijet Measurements at an Electron-Ion Collider. Physical Review Letters, 2020, 124, 112301.	7.8	43
22	Relativistic corrections to the vector meson light front wave function. Physical Review D, 2020, 102, .	4.7	42
23	Review of proton and nuclear shape fluctuations at high energy. Reports on Progress in Physics, 2020, 83, 082201.	20.1	40
24	Exclusive heavy vector meson production at next-to-leading order in the dipole picture. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136723.	4.1	35
25	Gluon imaging using azimuthal correlations in diffractive scattering at the Electron-Ion Collider. Physical Review D, 2021, 103, .	4.7	32
26	Forward J/ψ production at high energy: Centrality dependence and mean transverse momentum. Physical Review D, 2016, 94, .	4.7	30
27	The importance of kinematic twists and genuine saturation effects in dijet production at the Electron-Ion Collider. Journal of High Energy Physics, 2021, 2021, 1.	4.7	30
28	Ballistic Protons in Incoherent Exclusive Vector Meson Production as a Measure of Rare Parton Fluctuations at an Electron-Ion Collider. Physical Review Letters, 2015, 114, 082301.	7.8	26
29	Systematics of strong nuclear amplification of gluon saturation from exclusive vector meson production in high energy electron-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 664-671.	4.1	26
30	Accessing the gluonic structure of light nuclei at a future electron-ion collider. Physical Review C, 2020, 101, .	2.9	22
31	Color charge correlations in the proton at NLO: Beyond geometry based intuition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136560.	4.1	22
32	Exclusive production of light vector mesons at next-to-leading order in the dipole picture. Physical Review D, 2022, 105, .	4.7	21
33	Isolated photon production in proton-nucleus collisions at forward rapidity. Physical Review D, 2018, 97, .	4.7	17
34	Forward J/ψ and D meson nuclear suppression at the LHC. Nuclear and Particle Physics Proceedings, 2017, 289-290, 309-312.	0.5	16
35	Saturation and forward jets in proton-lead collisions at the LHC. Physical Review D, 2019, 100, .	4.7	16
36	Next-to-leading order Balitsky-Kovchegov equation beyond large Q^2 . Physical Review D, 2020, 102, .	4.7	12

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37	Proposal for a running coupling JIMWLK equation. Nuclear Physics A, 2014, 932, 69-74.	1.5	5
38	Cubic color charge correlator in a proton made of three quarks and a gluon. Physical Review D, 2022, 105, .	4.7	5
39	Signatures of gluon saturation from structure-function measurements. Physical Review D, 2022, 105, .	4.7	5
40	Higher-order corrections to exclusive heavy vector meson production. SciPost Physics Proceedings, 2022, , .	0.4	3
41	Particle production in the Color Glass Condensate: from electronâ€“proton DIS to protonâ€“nucleus collisions. Nuclear Physics A, 2014, 926, 186-197.	1.5	2
42	Proton structure fluctuations: constraints from HERA and applications to p + A collisions. Nuclear Physics A, 2017, 967, 317-320.	1.5	2
43	Diffractive vector meson production in ultraperipheral heavy ion collisions from the Color Glass Condensate. , 2014, , .		2
44	Impact parameter dependence of color charge correlations in the proton. SciPost Physics Proceedings, 2022, , .	0.4	2
45	Particle production from the Color Glass Condensate: Protonâ€“nucleus collisions in light of the HERA data. Nuclear Physics A, 2014, 932, 549-554.	1.5	1
46	Centrality dependence of forward J/ψ suppression in high energy protonâ€“nucleus collisions. Nuclear Physics A, 2016, 956, 701-704.	1.5	0
47	Solving the Balitsky-Kovchegov equation at next to leading order accuracy. Nuclear and Particle Physics Proceedings, 2016, 276-278, 189-192.	0.5	0
48	Energy and system size dependence of subnucleonic fluctuations. Nuclear Physics A, 2019, 982, 283-286.	1.5	0
49	Forward rapidity isolated photon production in proton-nucleus collisions. Nuclear Physics A, 2019, 982, 267-270.	1.5	0
50	Exclusive Vector Meson Production at the EIC. , 2020, , .		0
51	Azimuthal correlations in diffractive scattering at the Electron-Ion Collider. SciPost Physics Proceedings, 2022, , .	0.4	0