

Heikki MÄntysaari

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7969700/publications.pdf>

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	Cubic color charge correlator in a proton made of three quarks and a gluon. Physical Review D, 2022, 105, .	4.7	5
2	Signatures of gluon saturation from structure-function measurements. Physical Review D, 2022, 105, .	4.7	5
3	Exclusive production of light vector mesons at next-to-leading order in the dipole picture. Physical Review D, 2022, 105, .	4.7	21
4	Higher-order corrections to exclusive heavy vector meson production. SciPost Physics Proceedings, 2022, , .	0.4	3
5	Impact parameter dependence of color charge correlations in the proton. SciPost Physics Proceedings, 2022, , .	0.4	2
6	Azimuthal correlations in diffractive scattering at the Electron-Ion Collider. SciPost Physics Proceedings, 2022, , .	0.4	0
7	Gluon imaging using azimuthal correlations in diffractive scattering at the Electron-Ion Collider. Physical Review D, 2021, 103, .	4.7	32
8	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
9	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
10	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
11	The Large Hadron Collider at the HL-LHC. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 110501.	3.6	89
12	Next-to-leading order Balitsky-Kovchegov equation beyond large x . Physical Review D, 2020, 102, .	4.7	12
13	Relativistic corrections to the vector meson light front wave function. Physical Review D, 2020, 102, .	4.7	42
14	Color glass condensate at next-to-leading order meets HERA data. Physical Review D, 2020, 102, .	4.7	59
15	Accessing the gluonic structure of light nuclei at a future electron-ion collider. Physical Review C, 2020, 101, .	2.9	22
16	Multigluon Correlations and Evidence of Saturation from Dijet Measurements at an Electron-Ion Collider. Physical Review Letters, 2020, 124, 112301.	7.8	43
17	Review of proton and nuclear shape fluctuations at high energy. Reports on Progress in Physics, 2020, 83, 082201.	20.1	40
18	Exclusive Vector Meson Production at the EIC. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Diffractive dijet production and Wigner distributions from the color glass condensate. Physical Review D, 2019, 99, .	4.7	56
20	Imaging the nucleus with high-energy photons. Nature Reviews Physics, 2019, 1, 662-674.	26.6	55
21	Energy and system size dependence of subnucleonic fluctuations. Nuclear Physics A, 2019, 982, 283-286.	1.5	0
22	Forward rapidity isolated photon production in proton-nucleus collisions. Nuclear Physics A, 2019, 982, 267-270.	1.5	0
23	The electron-ion collider: assessing the energy dependence of key measurements. Reports on Progress in Physics, 2019, 82, 024301.	20.1	104
24	Saturation and forward jets in proton-lead collisions at the LHC. Physical Review D, 2019, 100, .	4.7	16
25	Predictions for cold nuclear matter effects in p+Pb collisions at \sqrt{s} TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
26	In depth analysis of the combined HERA data in the dipole models with and without saturation. Physical Review D, 2018, 98, .	4.7	44
27	Confronting the impact parameter dependent JIMWLK evolution with HERA data. Physical Review D, 2018, 98, .	4.7	48
28	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
29	Isolated photon production in proton-nucleus collisions at forward rapidity. Physical Review D, 2018, 97, .	4.7	17
30	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
31	Proton structure fluctuations: constraints from HERA and applications to p + A collisions. Nuclear Physics A, 2017, 967, 317-320.	1.5	2
32	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
33	Forward J/ψ and D meson nuclear suppression at the LHC. Nuclear and Particle Physics Proceedings, 2017, 289-290, 309-312.	0.5	16
34	Centrality dependence of forward J/ψ suppression in high energy proton-nucleus collisions. Nuclear Physics A, 2016, 956, 701-704.	1.5	0
35	Solving the Balitsky-Kovchegov equation at next to leading order accuracy. Nuclear and Particle Physics Proceedings, 2016, 276-278, 189-192.	0.5	0
36	Revealing proton shape fluctuations with incoherent diffraction at high energy. Physical Review D, 2016, 94, .	4.7	88

#	ARTICLE	IF	CITATIONS
37	Evidence of Strong Proton Shape Fluctuations from Incoherent Diffraction. Physical Review Letters, 2016, 117, 052301.	7.8	128
38	Next-to-leading order Balitsky-Kovchegov equation with resummation. Physical Review D, 2016, 93, .	4.7	76
39	Forward $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ production at high energy: Centrality dependence and mean transverse momentum. Physical Review D, 2016, 94, .	4.7	30
40	Direct numerical solution of the coordinate space Balitsky-Kovchegov equation at next-to-leading order. Physical Review D, 2015, 91, .	4.7	87
41	Forward $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ production in proton-nucleus collisions at high energy. Physical Review D, 2015, 91, .	4.7	74
42	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
43	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
44	Proposal for a running coupling JIMWLK equation. Nuclear Physics A, 2014, 932, 69-74.	1.5	5
45	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
46	Diffraction vector meson production in ultraperipheral heavy ion collisions from the Color Glass Condensate. , 2014, , .		2
47	On the running coupling in the JIMWLK equation. European Physical Journal C, 2013, 73, 1.	3.9	51
48	Forward dihadron correlations in deuteronâ€“gold collisions with a Gaussian approximation of JIMWLK. Nuclear Physics A, 2013, 908, 51-72.	1.5	88
49	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ production in ultraperipheral Pb+Pb and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ +Pb collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2013, 87, .	2.9	87
50	Single inclusive particle production at high energy from HERA data to proton-nucleus collisions. Physical Review D, 2013, 88, .	4.7	131
51	Incoherent diffractive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ production in high-energy nuclear deep-inelastic scattering. Physical Review C, 2011, 83, .	2.9	84