

Matthias Neubert

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

8,685
citations

71102
41
h-index

60623
81
g-index

84
all docs

84
docs citations

84
times ranked

7154
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy-quark symmetry. Physics Reports, 1994, 245, 259-395.	25.6	1,242
2	QCD factorization for $B \rightarrow PP$ and $B \rightarrow PV$ decays. Nuclear Physics B, 2003, 675, 333-415.	2.5	737
3	Neutrino masses and mixings in non-factorizable geometry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 361-371. Minimal Leptoquark Explanation for the $\text{xmlns:mml} = "http://www.w3.org/1998/Math/MathML"$ $\text{display} = "inline"$ > <mml:msub><mml:mi>R</mml:mi><mml:msup><mml:mi>D</mml:mi><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mo>*</mml:mo><mml:mo>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (stretchy="false")</mml:mo>	4.1	704
4	Drell-Yan production at small q_T , transverse parton distributions and the collinear anomaly. European Physical Journal C, 2011, 71, 1.	3.9	311
5	Infrared Singularities of Scattering Amplitudes in Perturbative QCD. Physical Review Letters, 2009, 102, 162001.	7.8	293
6	On the structure of infrared singularities of gauge-theory amplitudes. Journal of High Energy Physics, 2009, 2009, 081-081.	4.7	269
7	Collider probes of axion-like particles. Journal of High Energy Physics, 2017, 2017, 1.	4.7	266
8	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
9	Factorization and momentum-space resummation in deep-inelastic scattering. Journal of High Energy Physics, 2007, 2007, 076-076.	4.7	209
10	Renormalization-group improved predictions for top-quark pair production at hadron colliders. Journal of High Energy Physics, 2010, 2010, 1.	4.7	196
11	Flavor-singlet B-decay amplitudes in QCD factorization. Nuclear Physics B, 2003, 651, 225-248.	2.5	194
12	Dynamical threshold enhancement and resummation in Drell-Yan production. Journal of High Energy Physics, 2008, 2008, 030-030.	4.7	193
13	Renormalization-group improved prediction for Higgs production at hadron colliders. European Physical Journal C, 2009, 62, 333-353.	3.9	163
14	Threshold Resummation in Momentum Space from Effective Field Theory. Physical Review Letters, 2006, 97, 082001.	7.8	153
15	Theory of charmless inclusive B decays and the extraction of Vub. Physical Review D, 2005, 72, .	4.7	141
16	Renormalization-Group Evolution of the B-Meson Light-Cone Distribution Amplitude. Physical Review Letters, 2003, 91, 102001.	7.8	127
17	Axion-like particles at future colliders. European Physical Journal C, 2019, 79, 1.	3.9	125

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19	Two-loop divergences of massive scattering amplitudes in non-abelian gauge theories. Journal of High Energy Physics, 2009, 2009, 062-062.	4.7	124
20	Infrared singularities of QCD amplitudes with massive partons. Physical Review D, 2009, 79, .	4.7	123
21	Axionlike Particles, Lepton-Flavor Violation, and a New Explanation of $\langle \text{mml:math} \rangle$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}>\langle \text{mml:msub} \rangle\langle \text{mml:mi} \rangle a \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{\gamma}^1_4 \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}>\langle \text{mml:msub} \rangle\langle \text{mml:mi} \rangle a \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle e \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle.$ Physical Review Letters, 2020, 124, 211803.	7.8	113
22	Spectator interactions in soft-collinear effective theory. Nuclear Physics B, 2003, 657, 229-256.	2.5	110
23	Two-Loop Divergences of QCD Scattering Amplitudes with Massive Partons. Physical Review Letters, 2009, 103, 201601.	7.8	108
24	Factorization and N3LLp+NNLO predictions for the Higgs cross section with a jet veto. Journal of High Energy Physics, 2013, 2013, 1.	4.7	92
25	The low-energy effective theory of axions and ALPs. Journal of High Energy Physics, 2021, 2021, 1.	4.7	91
26	Sudakov Resummation for Subleading SCET Currents and Heavy-to-Light Form Factors. Journal of High Energy Physics, 2004, 2004, 081-081.	4.7	89
27	Effective Field Theory for Jet Processes. Physical Review Letters, 2016, 116, 192001.	7.8	89
28	NON-LEPTONIC WEAK DECAYS OF B MESONS. Advanced Series on Directions in High Energy Physics, 1998, , 294-344.	0.7	88
29	Electroweak gauge-boson production at small q_T : Infrared safety from the collinear anomaly. Journal of High Energy Physics, 2012, 2012, 1.	4.7	88
30	Factorization at subleading power and irreducible uncertainties in $\mathcal{A}(B) \propto \{X_s\}_{\gamma}$ decay. Journal of High Energy Physics, 2010, 2010, 1.	4.7	81
31	Higgs-boson production at small transverse momentum. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
32	Precision predictions for the $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{altimg}=\text{"si1.gif"}$ $\text{overflow}=\text{"scroll"}>\langle \text{mml:mi} \rangle t \langle / \text{mml:mi} \rangle \langle \text{mml:mover}$ $\text{accent}=\text{"true"}>\langle \text{mml:mi} \rangle t \langle / \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\gamma} \langle / \text{mml:mo} \rangle \langle / \text{mml:mover} \rangle \langle / \text{mml:math} \rangle$ production cross section at hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 703, 135-141.	4.1	76
33	Model-independent properties of the B-meson distribution amplitude. Physical Review D, 2005, 72, .	4.7	73
34	Reading the footprints of the B-meson flavor anomalies. Journal of High Energy Physics, 2021, 2021, 1.	4.7	72
35	RG-improved single-particle inclusive cross sections and forward-backward asymmetry in $\mathcal{A}(t)$ production at hadron colliders. Journal of High Energy Physics, 2011, 2011, 1.	4.7	68
36	Top-pair forward-backward asymmetry beyond next-to-leading order. Physical Review D, 2011, 84, .	4.7	67

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37	Exclusive radiative Higgs decays as probes of light-quark Yukawa couplings. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	58
38	LHC as an Axion Factory: Probing an Axion Explanation for $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\int \frac{g}{\sin^2 \theta_W} d\theta_W \rangle$. <i>Physical Review Letters</i> , 2017, 119, 031802.	4.7	58
39	Factorization and resummation for jet processes. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	53
40	Exclusive radiative decays of W and Z bosons in QCD factorization. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	47
41	Consistent analysis of the $\hat{l}=12$ rule in strange particle decays. <i>Physical Review D</i> , 1991, 44, 775-793.	4.7	46
42	Factorization at subleading power and endpoint-divergent convolutions in $h \rightarrow \bar{q}q$ decay. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	39
43	Enhanced nonlocal power corrections to the $B \rightarrow X_s l^+ l^-$ decay rate. <i>Physical Review D</i> , 2007, 75, .	4.7	36
44	Automated NNLL $\log^2(s/\Lambda^2) + \hat{N}\text{LO}$ resummation for jet-veto cross sections. <i>European Physical Journal C</i> , 2015, 75, 154.	3.9	36
45	Infrared singularities of scattering amplitudes and N3LL resummation for n-jet processes. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	36
46	Effective theory for a heavy scalar coupled to the SM via vector-like quarks. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	34
47	Consistent Treatment of Axions in the Weak Chiral Lagrangian. <i>Physical Review Letters</i> , 2021, 127, 081803.	7.8	33
48	Threshold expansion at order $\hat{l} \pm 4$ for the $t \rightarrow m_l \mu_l$ invariant mass distribution. <i>Physical Review Letters</i> , 2021, 127, 081803.	4.1	32
49	Higgs production in a warped extra dimension. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	32
50	Dipole operator constraints on composite Higgs models. <i>European Physical Journal C</i> , 2014, 74, 2945.	3.9	31
51	Bounds on warped extra dimensions from a Standard Model-like Higgs boson. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 23-28.	4.1	29
52	Two-loop radiative jet function for exclusive B-meson and Higgs decays. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	27
53	Approximate NNLO predictions for the stop-pair production cross section at the LHC. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	26
54	Analyzing the C_P Nature of a New Scalar Particle via $S_Z h$ Decays. <i>Physical Review Letters</i> , 2016, 117, 181801.	7.8	26

#	ARTICLE	IF	CITATIONS
55	Factorization at subleading power and endpoint divergences in $h \rightarrow l^+ l^-$ decay. Part II. Renormalization and scale evolution. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	26
56	Higgs production and decay in models of a warped extra dimension with a bulk Higgs. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	25
57	Factorization at subleading power, Sudakov resummation, and endpoint divergences in soft-collinear effective theory. <i>Physical Review D</i> , 2021, 104, .	4.7	25
58	Higher-order QCD predictions for dark matter production in mono-Z searches at the LHC. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	24
59	Solution to the Flavor Problem of Warped Extra-Dimension Models. <i>Physical Review Letters</i> , 2012, 108, 081603.	7.8	23
60	5D perspective on Higgs production at the boundary of a warped extra dimension. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	23
61	ALP α'' SMEFT interference. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	20
62	Renormalization and scale evolution of the soft-quark soft function. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	19
63	NNLL momentum-space resummation for stop-pair production at the LHC. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	18
64	Soft-gluon resummation for slepton-pair production at hadron colliders. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	17
65	Effective field theory after a new-physics discovery. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	16
66	Diphoton resonance from a warped extra dimension. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	15
67	Evolution of the $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\langle mml:mi>B\langle/mml:mi>\langle/mml:math>$ meson light-cone distribution amplitude in Laplace space. <i>Physical Review D</i> , 2020, 102, .	4.7	15
68	Exclusive weak radiative Higgs decays in the standard model and beyond. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	14
69	Dynamical origin of fermion bulk masses in a warped extra dimension. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	12
70	Resummation of Super-Leading Logarithms. <i>Physical Review Letters</i> , 2021, 127, 212002.	7.8	12
71	A warped scalar portal to fermionic dark matter. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	9
72	Radiative quark jet function with an external gluon. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	9

#	ARTICLE		IF	CITATIONS
73	Higgs decay into two photons in a warped extra dimension. European Physical Journal C, 2014, 74, 2857.		3.9	8
74	Higgs couplings and phenomenology in a warped extra dimension. Journal of High Energy Physics, 2015, 2015, 1.		4.7	8
75	EFFECTIVE FIELD THEORY AND HEAVY QUARK PHYSICS. , 2006, , .			8
76	Exclusive radiative Z-boson decays to mesons with flavor-singlet components. Journal of High Energy Physics, 2016, 2016, 1.		4.7	7
77	Flavour, electroweak symmetry breaking and dark matter: state of the art and future prospects. European Physical Journal Plus, 2015, 130, 1.		2.6	3
78	Impact of warped extra dimensions on the dipole coefficients in $b \rightarrow s\ell^3$ transitions. Journal of High Energy Physics, 2016, 2016, 1-57.		4.7	2
79	Effective field theory for heavy vector resonances coupled to the Standard Model. Journal of High Energy Physics, 2021, 2021, 1.		4.7	1
80	SOFT-COLLINEAR FACTORIZATION AND THE CALCULATION OF THE $B \rightarrow X_s\ell^3$ RATE. , 2004, , .			0