

Christian W Bauer

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

5,497
citations

186265
28
h-index

197818
49
g-index

49
all docs

49
docs citations

49
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	Active readout-error mitigation. Physical Review A, 2022, 105, .	2.5	16
2	Computationally efficient zero-noise extrapolation for quantum-gate-error mitigation. Physical Review A, 2022, 105, .	2.5	17
3	Quantum Gate Pattern Recognition and Circuit Optimization for Scientific Applications. EPJ Web of Conferences, 2021, 251, 03023.	0.3	8
4	Readout rebalancing for near-term quantum computers. Physical Review A, 2021, 103, .	2.5	17
5	Quantum Algorithm for High Energy Physics Simulations. Physical Review Letters, 2021, 126, 062001.	7.8	67
6	Dark matter spectra from the electroweak to the Planck scale. Journal of High Energy Physics, 2021, 2021, 1.	4.7	42
7	Disentangling observable dependence in SCETI and SCETII anomalous dimensions: angularities at two loops. Journal of High Energy Physics, 2021, 2021, 1.	4.7	3
8	Simulating Collider Physics on Quantum Computers Using Effective Field Theories. Physical Review Letters, 2021, 127, 212001.	7.8	28
9	Matching NNLO predictions to parton showers using $\langle \langle N \rangle \rangle_{LL}$ color-singlet transverse momentum resummation in Geneva. Physical Review D, 2021, 104, .	4.7	23
10	Mitigating Depolarizing Noise on Quantum Computers with Noise-Estimation Circuits. Physical Review Letters, 2021, 127, 270502.	7.8	56
11	Zero-noise extrapolation for quantum-gate error mitigation with identity insertions. Physical Review A, 2020, 102, .	2.5	81
12	Unfolding quantum computer readout noise. Npj Quantum Information, 2020, 6, .	6.7	65
13	A formalism for the resummation of non-factorizable observables in SCET. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
14	A quantum algorithm to efficiently sample from interfering binary trees. Quantum Science and Technology, 2020, 5, 035004.	5.8	5
15	Polarization effects in standard model parton distributions at very high energies. Journal of High Energy Physics, 2019, 2019, 1.	4.7	16
16	A numerical formulation of resummation in effective field theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	6
17	Combining initial-state resummation with fixed-order calculations of electroweak corrections. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
18	Standard Model fragmentation functions at very high energies. Journal of High Energy Physics, 2018, 2018, 1.	4.7	21

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19	Standard Model parton distributions at very high energies. Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
20	Resummation of electroweak Sudakov logarithms for real radiation. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
21	Underlying-event sensitive observables in Drell-Yan production using GENEVA. European Physical Journal C, 2016, 76, 1.	3.9	15
22	Drell-Yan production at NNLO to parton showers. Physical Review D, 2015, 92, .	4.7	71
23	Non-cancellation of electroweak logarithms in high-energy scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 179-187.	4.1	25
24	Heavy quark fragmenting jet functions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	28
25	Matching fully differential NNLO calculations and parton showers. Journal of High Energy Physics, 2014, 2014, 1.	4.7	71
26	Combining higher-order resummation with multiple NLO calculations and parton showers in GENEVA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	85
27	Factorization and resummation for dijet invariant mass spectra. Physical Review D, 2012, 85, .	4.7	51
28	On Glauber modes in soft-collinear effective theory. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
29	Factorization of boosted multijet processes for threshold resummation. Physical Review D, 2010, 82, .	4.7	8
30	Factorization for generic jet production. Physical Review D, 2009, 79, .	4.7	26
31	Factorization of shape distributions with hadronic final states in soft collinear effective theory. Physical Review D, 2008, 78, .	4.7	73
32	GenEva (I): a new framework for event generation. Journal of High Energy Physics, 2008, 2008, 010-010.	4.7	29
33	GenEva (II): a phase space generator from a reweighted parton shower. Journal of High Energy Physics, 2008, 2008, 011-011.	4.7	21
34	Gaining analytic control of parton showers. Physical Review D, 2007, 76, .	4.7	7
35	Event generation from effective field theory. Physical Review D, 2007, 76, .	4.7	32
36	Improving Jet Distributions with Effective Field Theory. Physical Review Letters, 2006, 97, 142001.	7.8	31

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37	Shape function effects in $B \rightarrow X s \bar{s}$ and $B \rightarrow X u \bar{u} \ell \ell$ decays. Physical Review D, 2004, 70, .	4.7	114
38	Enhanced nonperturbative effects in Z decays to hadrons. Physical Review D, 2004, 70, .	4.7	75
39	Power suppressed operators and gauge invariance in soft-collinear effective theory. Physical Review D, 2003, 68, .	4.7	56
40	Enhanced Nonperturbative Effects in Jet Distributions. Physical Review Letters, 2003, 91, 122001.	7.8	55
41	B decay shape variables and the precision determination of $ V_{cb} $ and m_b . Physical Review D, 2003, 67, .	4.7	58
42	Factorization and end point singularities in heavy-to-light decays. Physical Review D, 2003, 67, .	4.7	149
43	Hard scattering factorization from effective field theory. Physical Review D, 2002, 66, .	4.7	423
44	Power counting in the soft-collinear effective theory. Physical Review D, 2002, 66, .	4.7	31
45	Soft-collinear factorization in effective field theory. Physical Review D, 2002, 65, .	4.7	964
46	Invariant operators in collinear effective theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 516, 134-142.	4.1	632
47	Resumming the color-octet contribution to radiative Υ decay. Physical Review D, 2001, 64, .	4.7	33
48	An effective field theory for collinear and soft gluons: ϵ_f Heavy to light decays. Physical Review D, 2001, 63, .	4.7	1,088
49	Summing Sudakov logarithms in $B \rightarrow X s \bar{s}$ in effective field theory. Physical Review D, 2000, 63, .	4.7	666