

Simone Bacchio

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

555
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687363

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713466

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docs citations

25
times ranked

428
citing authors

#	ARTICLE	IF	CITATIONS
1	Complete flavor decomposition of the spin and momentum fraction of the proton using lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	69
2	Nucleon axial, tensor, and scalar charges and $\langle \bar{f} f \rangle$ -terms in lattice QCD. Physical Review D, 2020, 102, .	4.7	68
3	Simulating twisted mass fermions at physical light, strange, and charm quark masses. Physical Review D, 2018, 98, .	4.7	58
4	Proton and neutron electromagnetic form factors from lattice QCD. Physical Review D, 2019, 100, .	4.7	58
5	Adaptive aggregation-based domain decomposition multigrid for twisted mass fermions. Physical Review D, 2016, 94, .	4.7	36
6	Isospin-0 $\langle \bar{q} q \rangle$ s-wave scattering length from twisted mass lattice QCD. Physical Review D, 2017, 96, .	4.7	35
7	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	4.7	35
8	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	32
9	Pion and kaon $\langle \bar{q} q \rangle$ from lattice QCD and PDF reconstruction from Mellin moments. Physical Review D, 2021, 104, .	4.7	22
10	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
11	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	4.7	18
12	Computation of parton distributions from the quasi-PDF approach at the physical point. EPJ Web of Conferences, 2018, 175, 14008.	0.3	16
13	Nucleon strange electromagnetic form factors. Physical Review D, 2020, 101, .	4.7	16
14	Ratio of kaon and pion leptonic decay constants with $\langle \bar{q} q \rangle$ Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	4.7	12
15	Multigrid accelerated simulations for Twisted Mass fermions. EPJ Web of Conferences, 2018, 175, 02002.	0.3	11
16	Multigrid approach in shifted linear systems for the non-degenerated twisted mass operator. Computer Physics Communications, 2019, 236, 51-64.	7.5	11
17	Mellin moments $\langle \bar{q} q \rangle$ and $\langle \bar{q} q \rangle$ for the pion and k. Physical Review D, 2021, 103, .	4.7	10
18	Quark flavor decomposition of the nucleon axial form factors. Physical Review D, 2021, 104, .	4.7	8

#	ARTICLE	IF	CITATIONS
19	Scalar, vector, and tensor form factors for the pion and kaon from lattice QCD. Physical Review D, 2022, 105, .	4.7	8
20	Quark and Gluon Momentum Fractions in the Pion from $\langle N_f \rangle = \frac{2}{N_f} \langle \sum_{i=1}^{N_f} p_i \rangle$ Lattice QCD. Physical Review Letters, 2021, 127, 252001.	7.8	5
21	Simulation of an ensemble of $N_f = 2 + 1 + 1$ twisted mass cloverimproved fermions at physical quark masses. EPJ Web of Conferences, 2018, 175, 02003.	0.3	3
22	DDalphaAMG for Twisted Mass Fermions. , 2016, , .		3
23	Isospin-0 $\pi\pi$ scattering from twisted mass lattice QCD. , 2017, , .		1
24	Nucleon form factors from $N_f=2+1+1$ twisted mass fermions at the physical point. , 2019, , .		1
25	Investigating volume effects for $N_f=2$ twisted clover fermions at the physical point. , 2019, , .		0