Simone Bacchio

List of Publications by Year
in descending order

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25 papers	555 citations	687363 13 h-index	713466 21 g-index
25 all docs	25 docs citations	25 times ranked	428 citing authors

#	Article	IF	Citations
1	Scalar, vector, and tensor form factors for the pion and kaon from lattice QCD. Physical Review D, 2022, 105, .	4.7	8
2	Mellin moments <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">âŸ¨</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">âŸ©</mml:mo></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo stretchy="false">âŸ¨</mml:mo><mml:msup><mml:mrow><mml:mi>x</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup><mml:mo stretchy="false">âŸ©</mml:mo></mml:mrow></mml:math> for the pion and k. Physical Review D, 2021, 103, .	4.7	10
3	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	4.7	35
4	Pion and kaon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">âŸ¨</mml:mo><mml:msup><mml:mi>x</mml:mi><mml:mn>3</mml:mn></mml:msup><mml:mo stretchy="false">âŸ©</mml:mo></mml:math> from lattice QCD and PDF reconstruction from Mellin moments. Physical Review D, 2021, 104, .	4.7	22
5	Quark flavor decomposition of the nucleon axial form factors. Physical Review D, 2021, 104, .	4.7	8
6	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	4.7	19
7	Ratio of kaon and pion leptonic decay constants with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn> Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	4.7	12
8	Quark and Gluon Momentum Fractions in the Pion from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi><mml:mi>f</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>2</mml:mn> Lattice QCD. Physical Review Letters, 2021, 127, 252001.	7.8	5
9	Nucleon strange electromagnetic form factors. Physical Review D, 2020, 101, .	4.7	16
10	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	4.7	32
11	Nucleon axial, tensor, and scalar charges and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math> -terms in lattice QCD. Physical Review D, 2020, 102, .	4.7	68
12	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
13	Proton and neutron electromagnetic form factors from lattice QCD. Physical Review D, 2019, 100, .	4.7	58
14	Multigrid approach in shifted linear systems for the non-degenerated twisted mass operator. Computer Physics Communications, 2019, 236, 51-64.	7.5	11
15	Nucleon form factors from Nf=2+1+1 twisted mass fermions at the physical point. , 2019, , .		1
16	Investigating volume effects for $N_f{=}2$ twisted clover fermions at the physical point. , 2019, , .		0
17	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	4.7	18
18	Multigrid accelerated simulations for Twisted Mass fermions. EPJ Web of Conferences, 2018, 175, 02002.	0.3	11

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19	Simulation of an ensemble of Nf = 2 + 1 + 1 twisted mass cloverimproved fermions at physical quark masses. EPJ Web of Conferences, 2018, 175, 02003.	0.3	3
20	Computation of parton distributions from the quasi-PDF approach at the physical point. EPJ Web of Conferences, 2018, 175, 14008.	0.3	16
21	Simulating twisted mass fermions at physical light, strange, and charm quark masses. Physical Review D, 2018, 98, .	4.7	58
22	Isospin-0 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>Ï€</mml:mo><mml:mo>Ï€</mml:mo></mml:mrow></mml:math> s-wave scattering length from twisted mass lattice QCD. Physical Review D, 2017, 96, .	4.7	35
23	Isospin-0 Ï€Ï€ scattering from twisted mass lattice QCD. , 2017, , .		1
24	Adaptive aggregation-based domain decomposition multigrid for twisted mass fermions. Physical Review D, 2016, 94, .	4.7	36
25	DDalphaAMG for Twisted Mass Fermions. , 2016, , .		3