

Akaki Rusetsky

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,657
citations

186265

28
h-index

175258

52
g-index

67
all docs

67
docs citations

67
times ranked

652
citing authors

#	ARTICLE	IF	CITATIONS
1	Relativistic-invariant formulation of the NREFT three-particle quantization condition. Journal of High Energy Physics, 2022, 2022, 1.	4.7	17
2	Spurious poles in a finite volume. Journal of High Energy Physics, 2022, 2022, .	4.7	2
3	Finite volume corrections to forward Compton scattering off the nucleon. Physical Review D, 2021, 103, .	4.7	3
4	Relativistic N-particle energy shift in finite volume. Journal of High Energy Physics, 2021, 2021, 1.	4.7	24
5	Finite-volume energy shift of the three-pion ground state. Physical Review D, 2021, 103, .	4.7	17
6	On the three-particle analog of the Lellouch-Lüscher formula. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
7	On the mass difference between proton and neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136087.	4.1	16
8	Multi-particle systems on the lattice and chiral extrapolations: a brief review. European Physical Journal: Special Topics, 2021, 230, 1623-1643.	2.6	28
9	Testing a new method for scattering in finite volume in the ϕ^4 theory. European Physical Journal C, 2021, 81, 1.	3.9	1
10	An alternative scheme for effective range corrections in pionless EFT. European Physical Journal A, 2021, 57, 1.	2.5	7
11	Sum rule for the Compton amplitude and implications for the proton-neutron mass difference. European Physical Journal C, 2020, 80, 1.	3.9	11
12	Energy shift of the three-particle system in a finite volume. Physical Review D, 2019, 99, .	4.7	42
13	Nucleon in a periodic magnetic field: Finite-volume aspects. Physical Review D, 2019, 99, .	4.7	6
14	Towards a precise determination of the scattering amplitudes of the charmed and light-flavor pseudoscalar mesons. European Physical Journal C, 2019, 79, 1.	3.9	42
15	Extracting observables from lattice data in the three-particle sector. EPJ Web of Conferences, 2018, 175, 11006.	0.3	0
16	Two- and three-body interactions in φ^4 theory from lattice simulations. European Physical Journal C, 2018, 78, 1.	3.9	48
17	Vector-Vector Scattering on the Lattice. EPJ Web of Conferences, 2018, 175, 14013.	0.3	1
18	Solving integral equations in $\eta \rightarrow 3\pi$. European Physical Journal C, 2018, 78, 1.	3.9	15

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19	Three-body spectrum in a finite volume: The role of cubic symmetry. Physical Review D, 2018, 97, .	4.7	86
20	Vector particle scattering on the lattice. Physical Review D, 2018, 98, .	4.7	15
21	Three-particle bound states in a finite volume: Unequal masses and higher partial waves. Physical Review D, 2018, 98, .	4.7	25
22	Chiral study of the $\langle \mathbf{a} \cdot \mathbf{a} \rangle$ correlation function in the ϵ -regime. Physical Review D, 2018, 98, .	4.7	43
23	Scattering phase shifts in light π production in a nucleon in a periodic magnetic field. Physical Review D, 2017, 95, .	4.7	9
24	Feynman-Hellmann theorem for resonances and the quest for QCD exotica. European Physical Journal C, 2017, 77, 1.	3.9	13
25	Three-particle quantization condition in a finite volume: 2. General formalism and the analysis of data. Journal of High Energy Physics, 2017, 2017, 1.	4.7	119
26	Three-particle quantization condition in a finite volume: 1. The role of the three-particle force. Journal of High Energy Physics, 2017, 2017, 1.	4.7	105
27	Baryon resonances in a finite volume. EPJ Web of Conferences, 2017, 134, 02006.	0.3	0
28	Resonance matrix elements on the lattice. EPJ Web of Conferences, 2016, 112, 01001.	0.3	1
29	The $B \rightarrow K$ form factors on the lattice. Nuclear Physics B, 2016, 910, 387-409.	2.5	26
30	The optical potential on the lattice. Journal of High Energy Physics, 2016, 2016, 1.	4.7	28
31	Radiative decays of resonances on the lattice. AIP Conference Proceedings, 2016, , .	0.4	0
32	Cottingham formula and nucleon polarisabilities. European Physical Journal C, 2015, 75, 1.	3.9	46
33	Spectrum of Three-Body Bound States in a Finite Volume. Physical Review Letters, 2015, 114, 091602.	7.8	77
34	Recoil corrections in antikaon-deuteron scattering. Physical Review D, 2015, 91, .	4.7	17
35	Towards a field theoretical understanding of kaonic deuterium: leading order retardation effects. Hyperfine Interactions, 2015, 233, 141-149.	0.5	1
36	Bound states on the lattice with partially twisted boundary conditions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	14

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37	Partial twisting for scalar mesons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
38	A framework for the calculation of the $\langle \hat{I}^N \rangle$ transition form factors on the lattice. Nuclear Physics B, 2014, 886, 1199-1222.	2.5	60
39	Generating functional for mesonic ChPT with virtual photons in a general covariant gauge. European Physical Journal A, 2013, 49, 1.	2.5	1
40	Scattering phases for meson and baryon resonances on general moving-frame lattices. Physical Review D, 2012, 86, .	4.7	128
41	Matrix elements of unstable states. Journal of High Energy Physics, 2012, 2012, 1.	4.7	61
42	Scalar mesons moving in a finite volume and the role of partial wave mixing. European Physical Journal A, 2012, 48, 1.	2.5	97
43	Three particles in a finite volume. European Physical Journal A, 2012, 48, 1.	2.5	172
44	Extraction of the resonance parameters at finite times. Nuclear Physics B, 2011, 846, 1-20.	2.5	8
45	Cusps in decays: A theoretical framework. Nuclear Physics B, 2011, 850, 96-147.	2.5	47
46	Unitarized Chiral Perturbation Theory in a finite volume: Scalar meson sector. European Physical Journal A, 2011, 47, 1.	2.5	157
47	Dynamical coupled-channel approaches on a momentum lattice. European Physical Journal A, 2011, 47, 1.	2.5	60
48	Scalar mesons in a finite volume. Journal of High Energy Physics, 2011, 2011, 1.	4.7	129
49	Resonances in a finite volume. , 2011, , .		0
50	Resonances in an external field: the 1+1 dimensional case. Journal of High Energy Physics, 2010, 2010, 1.	4.7	8
51	Predictions for the cusp in \hat{I}^3 decay. Physical Review C, 2009, 79, .	2.9	27
52	Hadronic Atoms. Annual Review of Nuclear and Particle Science, 2009, 59, 169-190.	10.2	11
53	The mass of the \hat{I}^3 resonance in a finite volume: fourth-order calculation. Journal of High Energy Physics, 2009, 2009, 061-061.	4.7	18
54	Antikaon-nucleon scattering lengths. Hyperfine Interactions, 2009, 193, 69-74.	0.5	0

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55	A method to measure the antikaonâ€™ nucleon scattering length in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 439-443.	4.1	139
56	The role of nucleon recoil in low-energy antikaon-deuteron scattering. European Physical Journal A, 2009, 42, 111.	2.5	32
57	Isospin breaking in K l4 decays. European Physical Journal C, 2009, 59, 777-793.	3.9	53
58	Radiative corrections in $K \rightarrow \pi^0 \ell^+ \ell^-$ decays. Nuclear Physics B, 2009, 806, 178-223.	2.5	57
59	Cusps in $K \rightarrow \pi^0 \ell^+ \ell^-$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 576-584.	4.1	49
60	Hadronic atoms in QCD+QED. Physics Reports, 2008, 456, 167-251.	25.6	87
61	The $\hat{\Gamma}^*$ -resonance in a finite volume. Nuclear Physics B, 2008, 788, 1-20.	2.5	43
62	Resonance properties from the finite-volume energy spectrum. Journal of High Energy Physics, 2008, 024-024.	4.7	112
63	$\pi^0 \rightarrow \gamma \gamma$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 576-584.	4.1	108
64	Effective Lagrangians in Bound State Calculations. Annals of Physics, 2000, 286, 108-156.	2.8	14