

Antonin Portelli

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,775
citations

430442

18
h-index

414034

32
g-index

38
all docs

38
docs citations

38
times ranked

4673
citing authors

#	ARTICLE	IF	CITATIONS
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
2	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
3	Ab initio calculation of the neutron-proton mass difference. Science, 2015, 347, 1452-1455.	6.0	263
4	Calculation of the Hadronic Vacuum Polarization Contribution to the Muon Anomalous Magnetic Moment. Physical Review Letters, 2018, 121, 022003.	2.9	227
5	Domain wall QCD with physical quark masses. Physical Review D, 2016, 93, .	1.6	168
6	Lattice Computation of the Nucleon Scalar Quark Contents at the Physical Point. Physical Review Letters, 2016, 116, 172001.	2.9	102
7	Sigma term and strangeness content of octet baryons. Physical Review D, 2012, 85, .	1.6	80
8	Precision computation of the kaon bag parameter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 477-481.	1.5	76
9	Ispins Splittings in the Light-Baryon Octet from Lattice QCD and QED. Physical Review Letters, 2013, 111, 252001.	2.9	67
10	Calculation of the Hadronic Vacuum Polarization Disconnected Contribution to the Muon Anomalous Magnetic Moment. Physical Review Letters, 2016, 116, 232002.	2.9	62
11	Exploratory Lattice QCD Study of the Rare Kaon Decay $K \rightarrow \pi \ell \ell'$. Physical Review Letters, 2017, 118, 252001.	2.9	52
12	Up and Down Quark Masses and Corrections to Dashen's Theorem from Lattice QCD and Quenched QED. Physical Review Letters, 2016, 117, 082001.	2.9	48
13	Low energy constants of $K \rightarrow \pi \ell \ell'$. Physical Review Letters, 2017, 118, 252001.	1.6	48
14	Lattice QCD at the physical point meets Dashen's Theorem from Lattice QCD and Quenched QED. Physical Review Letters, 2016, 117, 082001.	1.6	41
15	Ispins breaking corrections to meson masses and the hadronic vacuum polarization: a comparative study. Journal of High Energy Physics, 2017, 2017, 1.	1.6	37
16	Prospects for a lattice computation of rare kaon decay amplitudes: $K \rightarrow \pi \ell \ell'$. Physical Review D, 2015, 92, .	1.6	25
17	Prospects for a lattice computation of rare kaon decay amplitudes. II. $K \rightarrow \pi \ell \ell'$ decays. Physical Review D, 2016, 93, .	1.6	25
18	First exploratory calculation of the long-distance contributions to the rare kaon decays $K \rightarrow \pi \ell \ell'$. Physical Review D, 2016, 94, .	1.6	24

#	ARTICLE	IF	CITATIONS
19	Grid: A next generation data parallel C++ QCD library. , 2016, , .		21
20	Theoretical aspects of quantum electrodynamics in a finite volume with periodic boundary conditions. Physical Review D, 2019, 99, .	1.6	16
21	Quantum electrodynamics in finite volume and nonrelativistic effective field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 245-248.	1.5	15
22	Lattice calculation of the leading strange quark-connected contribution to the muon $g_{\hat{a}'}^2$. Journal of High Energy Physics, 2016, 2016, 1-20.	1.6	14
23	$\hat{a}'^2 \tilde{\Gamma} \in \hat{a}'^2 \tilde{\Gamma} \hat{a}'^2$ decay amplitude from. Physical Review D, 2018, 98, .	1.6	14
24	Lattice QCD study of the rare kaon decay $K^+ \hat{a}'^2 \tilde{\Gamma} \in \hat{a}'^2 \tilde{\Gamma} \hat{a}'^2 \hat{A}^-$ at a near-physical pion mass. Physical Review D, 2019, 100, .	1.6	12
25	Novel $ V_{us} $ Determination Using Inclusive Strange Decay and Lattice Hadronic Vacuum Polarization Functions. Physical Review Letters, 2019, 123, 202003.	2.9	11
26	Electromagnetic finite-size effects to the hadronic vacuum polarization. Physical Review D, 2019, 100, .	1.6	9
27	Relativistic, model-independent determination of electromagnetic finite-size effects beyond the pointlike approximation. Physical Review D, 2022, 105, .	1.6	7
28	Nonperturbative Infrared Finiteness in a Superrenormalizable Scalar Quantum Field Theory. Physical Review Letters, 2021, 126, 221601.	2.9	6
29	Current Status of inclusive hadronic tau determinations of $ V_{us} $. , 2019, , .		4
30	Electromagnetic Corrections to Meson Masses and the HVP. , 2017, , .		3
31	$ V_{us} $ determination from inclusive strange tau decay and lattice HVP. EPJ Web of Conferences, 2018, 175, 13011.	0.1	2
32	Renormalization of the energy-momentum tensor in three-dimensional scalar SU(N) theories using the Wilson flow. Physical Review D, 2021, 103, .	1.6	1
33	Electromagnetic finite-size effects beyond the point-like approximation. EPJ Web of Conferences, 2022, 258, 06001.	0.1	1
34	Numerical investigation of finite-volume effects for the HVP. EPJ Web of Conferences, 2018, 175, 06022.	0.1	0
35	Isospin Breaking Corrections to the HVP with Domain Wall Fermions. EPJ Web of Conferences, 2018, 175, 06024.	0.1	0
36	Latest Results on Lattice Calculation Concerning $K \hat{a}'^2 \tilde{\Gamma} \in \hat{a}'^2 \tilde{\Gamma} \hat{a}'^2$ Decays. Journal of Physics: Conference Series, 2020, 1526, 012015.	0.3	0