

Shailesh Chandrasekharan

List of Publications by Year in descending order

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70
papers

1,652
citations

218677

26
h-index

302126

39
g-index

70
all docs

70
docs citations

70
times ranked

762
citing authors

#	ARTICLE	IF	CITATIONS
1	Meron-Cluster Solution of Fermion Sign Problems. Physical Review Letters, 1999, 83, 3116-3119.	7.8	172
2	From an antiferromagnet to a valence bond solid: evidence for a first-order phase transition. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P02009.	2.3	94
3	Fermion bag approach to lattice field theories. Physical Review D, 2010, 82, .	4.7	67
4	Solution to sign problems in half-filled spin-polarized electronic systems. Physical Review B, 2014, 89, .	3.2	67
5	Conformal Dimensions via Large Charge Expansion. Physical Review Letters, 2018, 120, 061603.	7.8	65
6	Quantum critical behavior in three dimensional lattice Gross-Neveu models. Physical Review D, 2013, 88, .	4.7	60
7	Fermion Bags, Duality, and the Three Dimensional Massless Lattice Thirring Model. Physical Review Letters, 2012, 108, 140404.	7.8	51
8	Chiral limit of strongly coupled lattice gauge theories. Nuclear Physics B, 2003, 662, 220-246.	2.5	50
9	An introduction to chiral symmetry on the lattice. Progress in Particle and Nuclear Physics, 2004, 53, 373-418.	14.4	46
10	Dirac spectrum, axial anomaly and the QCD chiral phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 527-534.	0.4	44
11	Finite size effects in the presence of a chemical potential: A study in the classical nonlinear ϕ^4 theory. Physical Review D, 2017, 96, .	4.7	43
12	Fermion bag approach to Hamiltonian lattice field theories in continuous time. Physical Review D, 2017, 96, .	4.7	42
13	Anomalous Chiral Symmetry Breaking above the QCD Phase Transition. Physical Review Letters, 1999, 82, 2463-2466.	7.8	39
14	Massive fermions without fermion bilinear condensates. Physical Review D, 2015, 91, .	4.7	39
15	Origin of fermion masses without spontaneous symmetry breaking. Physical Review D, 2016, 93, .	4.7	39
16	Qubit regularization of the ϕ^4 theory. Physical Review D, 2017, 96, .	4.7	30
17	Fermion bag approach to fermion sign problems. European Physical Journal A, 2013, 49, 1.	2.5	37
18	Conformal Dimensions in the Large Charge Sectors at the ϕ^4 Wilson-Fisher Fixed Point. Physical Review Letters, 2019, 123, 051603.	7.8	37

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19	Spectroscopy of the Kondo Problem in a Box. <i>Physical Review Letters</i> , 2006, 96, 176802.	7.8	32
20	Fermion masses through four-fermion condensates. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	32
21	Phase diagram of two-color lattice QCD in the chiral limit. <i>Physical Review D</i> , 2006, 74, .	4.7	31
22	Quantum Phase Transitions of Hard-Core Bosons in Background Potentials. <i>Physical Review Letters</i> , 2006, 97, 115703.	7.8	31
23	Anomaly cancellation in 2+1 dimensions in the presence of a domain wall mass. <i>Physical Review D</i> , 1994, 49, 1980-1987.	4.7	30
24	Qubit Regularization of Asymptotic Freedom. <i>Physical Review Letters</i> , 2021, 126, 172001.	7.8	29
25	Phase transitions of $S=1$ spinor condensates in an optical lattice. <i>Physical Review B</i> , 2009, 80, .	3.2	28
26	Mesoscopic Kondo problem. <i>Europhysics Letters</i> , 2005, 71, 973-979.	2.0	27
27	Fermion bag solutions to some sign problems in four-fermion field theories. <i>Physical Review D</i> , 2012, 85, .	4.7	24
28	Effects of the Anomaly on the Two-Flavor QCD Chiral Phase Transition. <i>Physical Review Letters</i> , 2007, 99, 142004.	7.8	22
29	Chiral limit of strongly coupled lattice QCD at finite temperatures. <i>Physical Review D</i> , 2003, 68, .	4.7	20
30	Fermion-bag inspired Hamiltonian lattice field theory for fermionic quantum criticality. <i>Physical Review D</i> , 2020, 101, .	4.7	20
31	Solutions to sign problems in lattice Yukawa models. <i>Physical Review D</i> , 2012, 86, .	4.7	19
32	On the sign problem in the Hirsch's algorithm for impurity problems. <i>Journal of Physics A</i> , 2005, 38, 10307-10310.	1.6	17
33	Kosterlitz-Thouless universality in a Fermionic system. <i>Physical Review B</i> , 2002, 66, .	3.2	16
34	Critical behavior of a chiral condensate with a meron cluster algorithm. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 496, 122-128.	4.1	15
35	Cluster algorithms for quantum impurity models and mesoscopic Kondo physics. <i>Physical Review B</i> , 2005, 71, .	3.2	14
36	Quantum Phase Transition and Emergent Symmetry in a Quadruple Quantum Dot System. <i>Physical Review Letters</i> , 2010, 105, 256801.	7.8	14

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37	From spin ladders to the 2D O(3) model at non-zero density. Computer Physics Communications, 2002, 147, 388-393.	7.5	13
38	Kosterlitz-Thouless universality in dimer models. Physical Review D, 2003, 68, .	4.7	13
39	Ginsparg-Wilson fermions: A study in the Schwinger model. Physical Review D, 1999, 59, .	4.7	12
40	Solution to sign problems in models of interacting fermions and quantum spins. Physical Review E, 2016, 94, 043311.	2.1	11
41	Benchmark results in the 2D lattice Thirring model with a chemical potential. Physical Review D, 2018, 97, .	4.7	11
42	Z3twisted chiral condensates in QCD at finite temperatures. Physical Review D, 1996, 53, 5100-5104.	4.7	10
43	Modeling pion physics in the μ -regime of two-flavor QCD using strong coupling lattice QED. Physical Review D, 2008, 77, .	4.7	10
44	Fermion bag approach to the sign problem in strongly coupled lattice QED with Wilson fermions. Journal of High Energy Physics, 2011, 2011, 1.	4.7	10
45	Qubit Regularization and Qubit Embedding Algebras. Symmetry, 2022, 14, 305.	2.2	10
46	Critical behavior of the chiral condensate at the QCD phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 475-477.	0.4	9
47	QCD at a finite density of static quarks. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 71-78.	0.4	8
48	Connecting lattice QCD with chiral perturbation theory at strong coupling. Physical Review D, 2004, 69, .	4.7	8
49	Ground state and excitations of quantum dots with magnetic impurities. Physical Review B, 2009, 80, .	3.2	8
50	Subleading conformal dimensions at the O(4) Wilson-Fisher fixed point. Physical Review D, 2022, 105, .	4.7	7
51	Anomalous Superfluidity in (2+1)-Dimensional Two-Color Lattice QCD. Physical Review Letters, 2006, 97, 182001.	7.8	6
52	Anomaly and a QCD-like phase diagram with massive bosonic baryons. Journal of High Energy Physics, 2010, 2010, 1.	4.7	6
53	Solution to the sign problem in a frustrated quantum impurity model. Annals of Physics, 2017, 376, 63-75.	2.8	6
54	Unexpected results in the chiral limit with staggered fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 536, 72-78.	4.1	5

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55	Failure of Mean Field Theory at LargeN. Physical Review Letters, 2005, 94, 061601.	7.8	5
56	Absence of vortex condensation in a two dimensional fermionicXYmodel. Physical Review D, 2008, 77, .	4.7	5
57	Few-body physics on a spacetime lattice in the worldline approach. Physical Review D, 2019, 99, .	4.7	5
58	Spacetime symmetric qubit regularization of the asymptotically free two-dimensional $O(4)$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 607 Td (stretchy="false")	4.7	5
59	Superconductivity and chiral symmetry breaking with fermion clusters. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1025-1027.	0.4	2
60	Quantum Monte Carlo study of disordered fermions. Physical Review B, 2005, 72, .	3.2	2
61	Multilevel algorithm for quantum-impurity models. Physical Review E, 2005, 71, 036708.	2.1	2
62	Role of the \tilde{f} resonance in determining the convergence of chiral perturbation theory. Physical Review D, 2008, 77, .	4.7	2
63	Hamiltonian models of lattice fermions solvable by the meron-cluster algorithm. Physical Review D, 2021, 103, .	4.7	2
64	Quantum Criticality of Antiferromagnetism and Superconductivity with Relativity. Physical Review Letters, 2022, 128, 117202.	7.8	2
65	A large N chiral transition on a plaquette. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 83-88.	4.1	1
66	Connections between quantum chromodynamics and condensed matter physics. Pramana - Journal of Physics, 2003, 61, 901-910.	1.8	1
67	Chiral limit of staggered fermions at strong couplings: A loop representation. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 929-931.	0.4	1
68	Conductance of quantum impurity models from quantum Monte Carlo. Physical Review B, 2010, 82, .	3.2	1
69	Generating a mass gap using Feynman diagrams in an asymptotically free theory. EPJ Web of Conferences, 2018, 175, 11010.	0.3	1
70	Chiral and critical behavior in strong coupling QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 578-580.	0.4	0