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	Qubit Regularization and Qubit Embedding Algebras. Symmetry, 2022, 14, 305.	2.2	10
2	Subleading conformal dimensions at the O(4) Wilson-Fisher fixed point. Physical Review D, 2022, 105, .	4.7	7
3	Spacetime symmetric qubit regularization of the asymptotically free two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>4</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 647 Td (stretchy="false	4.7	5
4	Quantum Criticality of Antiferromagnetism and Superconductivity with Relativity. Physical Review Letters, 2022, 128, 117202.	7.8	2
5	Hamiltonian models of lattice fermions solvable by the meron-cluster algorithm. Physical Review D, 2021, 103, .	4.7	2
6	Qubit Regularization of Asymptotic Freedom. Physical Review Letters, 2021, 126, 172001.	7.8	29
7	Fermion-bag inspired Hamiltonian lattice field theory for fermionic quantum criticality. Physical Review D, 2020, 101, .	4.7	20
8	Conformal Dimensions in the Large Charge Sectors at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>4</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> Wilson-Fisher Fixed Point. Physical Review Letters, 2019, 123, 051603.	7.8	37
9	Few-body physics on a spacetime lattice in the worldline approach. Physical Review D, 2019, 99, .	4.7	5
10	Qubit regularization of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (stretchy="false">)</mml:m	4.7	39
11	Conformal Dimensions via Large Charge Expansion. Physical Review Letters, 2018, 120, 061603.	7.8	65
12	Generating a mass gap using Feynman diagrams in an asymptotically free theory. EPJ Web of Conferences, 2018, 175, 11010.	0.3	1
13	Benchmark results in the 2D lattice Thirring model with a chemical potential. Physical Review D, 2018, 97, .	4.7	11
14	Solution to the sign problem in a frustrated quantum impurity model. Annals of Physics, 2017, 376, 63-75.	2.8	6
15	Fermion bag approach to Hamiltonian lattice field theories in continuous time. Physical Review D, 2017, 96, .	4.7	42
16	Fermion masses through four-fermion condensates. Journal of High Energy Physics, 2016, 2016, 1.	4.7	32
17	Solution to sign problems in models of interacting fermions and quantum spins. Physical Review E, 2016, 94, 043311.	2.1	11
18	Origin of fermion masses without spontaneous symmetry breaking. Physical Review D, 2016, 93, .	4.7	39

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19	Massive fermions without fermion bilinear condensates. Physical Review D, 2015, 91, .	4.7	39
20	Solution to sign problems in half-filled spin-polarized electronic systems. Physical Review B, 2014, 89, .	3.2	67
21	Fermion bag approach to fermion sign problems. European Physical Journal A, 2013, 49, 1.	2.5	37
22	Quantum critical behavior in three dimensional lattice Gross-Neveu models. Physical Review D, 2013, 88, .	4.7	60
23	Fermion Bags, Duality, and the Three Dimensional Massless Lattice Thirring Model. Physical Review Letters, 2012, 108, 140404.	7.8	51
24	Solutions to sign problems in lattice Yukawa models. Physical Review D, 2012, 86, .	4.7	19
25	Fermion bag solutions to some sign problems in four-fermion field theories. Physical Review D, 2012, 85, .	4.7	24
26	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
27	Anomaly and a QCD-like phase diagram with massive bosonic baryons. Journal of High Energy Physics, 2010, 2010, 1.	4.7	6
28	Conductance of quantum impurity models from quantum Monte Carlo. Physical Review B, 2010, 82, .	3.2	1
29	Quantum Phase Transition and Emergent Symmetry in a Quadruple Quantum Dot System. Physical Review Letters, 2010, 105, 256801.	7.8	14
30	Finite size effects in the presence of a chemical potential: A study in the classical nonlinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>2</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td (stretchy="false">)</mml:m	4.7	43
31	Fermion bag approach to lattice field theories. Physical Review D, 2010, 82, .	4.7	67
32	Phase transitions ofS=1spinor condensates in an optical lattice. Physical Review B, 2009, 80, .	3.2	28
33	Ground state and excitations of quantum dots with magnetic impurities. Physical Review B, 2009, 80, .	3.2	8
34	Absence of vortex condensation in a two dimensional fermionicXYmodel. Physical Review D, 2008, 77, .	4.7	5
35	Modeling pion physics in theÏµ-regime of two-flavor QCD using strong coupling lattice QED. Physical Review D, 2008, 77, .	4.7	10
36	Role of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ïƒ</mml:mi></mml:math>resonance in determining the convergence of chiral perturbation theory. Physical Review D, 2008, 77, .	4.7	2

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37	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
38	Effects of the Anomaly on the Two-Flavor QCD Chiral Phase Transition. Physical Review Letters, 2007, 99, 142004.	7.8	22
39	Phase diagram of two-color lattice QCD in the chiral limit. Physical Review D, 2006, 74, .	4.7	31
40	Spectroscopy of the Kondo Problem in a Box. Physical Review Letters, 2006, 96, 176802.	7.8	32
41	Quantum Phase Transitions of Hard-Core Bosons in Background Potentials. Physical Review Letters, 2006, 97, 115703.	7.8	31
42	Anomalous Superfluidity in(2+1)-Dimensional Two-Color Lattice QCD. Physical Review Letters, 2006, 97, 182001.	7.8	6
43	Mesoscopic Kondo problem. Europhysics Letters, 2005, 71, 973-979.	2.0	27
44	On the sign problem in the Hirschâ€“Fye algorithm for impurity problems. Journal of Physics A, 2005, 38, 10307-10310.	1.6	17
45	Quantum Monte Carlo study of disordered fermions. Physical Review B, 2005, 72, .	3.2	2
46	Multilevel algorithm for quantum-impurity models. Physical Review E, 2005, 71, 036708.	2.1	2
47	Failure of Mean Field Theory at LargeN. Physical Review Letters, 2005, 94, 061601.	7.8	5
48	Cluster algorithms for quantum impurity models and mesoscopic Kondo physics. Physical Review B, 2005, 71, .	3.2	14
49	Connecting lattice QCD with chiral perturbation theory at strong coupling. Physical Review D, 2004, 69, .	4.7	8
50	Chiral and critical behavior in strong coupling QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 578-580.	0.4	0
51	An introduction to chiral symmetry on the lattice. Progress in Particle and Nuclear Physics, 2004, 53, 373-418.	14.4	46
52	Connections between quantum chromodynamics and condensed matter physics. Pramana - Journal of Physics, 2003, 61, 901-910.	1.8	1
53	Chiral limit of staggered fermions at strong couplings: A loop representation. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 929-931.	0.4	1
54	Chiral limit of strongly coupled lattice gauge theories. Nuclear Physics B, 2003, 662, 220-246.	2.5	50

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55	Chiral limit of strongly coupled lattice QCD at finite temperatures. Physical Review D, 2003, 68, .	4.7	20
56	Kosterlitz-Thouless universality in dimer models. Physical Review D, 2003, 68, .	4.7	13
57	Kosterlitz-Thouless universality in a Fermionic system. Physical Review B, 2002, 66, .	3.2	16
58	Superconductivity and chiral symmetry breaking with fermion clusters. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 1025-1027.	0.4	2
59	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
60	From spin ladders to the 2D O(3) model at non-zero density. Computer Physics Communications, 2002, 147, 388-393.	7.5	13
61	QCD at a finite density of static quarks. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 71-78.	0.4	8
62	Critical behavior of a chiral condensate with a meron cluster algorithm. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 496, 122-128.	4.1	15
63	Meron-Cluster Solution of Fermion Sign Problems. Physical Review Letters, 1999, 83, 3116-3119.	7.8	172
64	Anomalous Chiral Symmetry Breaking above the QCD Phase Transition. Physical Review Letters, 1999, 82, 2463-2466.	7.8	39
65	Ginsparg-Wilson fermions: A study in the Schwinger model. Physical Review D, 1999, 59, .	4.7	12
66	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
67	Dirac spectrum, axial anomaly and the QCD chiral phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 527-534.	0.4	44
68	Z3twisted chiral condensates in QCD at finite temperatures. Physical Review D, 1996, 53, 5100-5104.	4.7	10
69	Critical behavior of the chiral condensate at the QCD phase transition. Nuclear Physics, Section B, Proceedings Supplements, 1995, 42, 475-477.	0.4	9
70	Anomaly cancellation in 2+1 dimensions in the presence of a domain wall mass. Physical Review D, 1994, 49, 1980-1987.	4.7	30