

Giancarlo Calvanese Strinati

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial emergence of off-diagonal long-range order throughout the BCS-BEC crossover. Physical Review B, 2022, 105, .	3.2	4
2	Beyond-mean-field description of a trapped unitary Fermi gas with mass and population imbalance. Physical Review A, 2021, 103, .	2.5	12
3	Strong Fulde-Ferrell Larkin-Ovchinnikov pairing fluctuations in polarized Fermi systems. Physical Review Research, 2021, 3, .	3.6	6
4	Josephson effect at finite temperature along the BCS-BEC crossover. Physical Review B, 2020, 102, .	3.2	9
5	Pair correlations in the normal phase of an attractive Fermi gas. New Journal of Physics, 2020, 22, 083008.	2.9	11
6	Pair fraction in a finite-temperature Fermi gas on the BEC side of the BCS-BEC crossover. Physical Review A, 2019, 99, .	2.5	9
7	Fermi gas throughout the BCS-BEC crossover: Comparative study of t -matrix approaches with various degrees of self-consistency. Physical Review B, 2019, 99, .	3.2	31
8	Bound states in a superfluid vortex: A detailed study along the BCS-BEC crossover. Physical Review B, 2019, 99, .	3.2	2
9	The BCS-BEC crossover: From ultra-cold Fermi gases to nuclear systems. Physics Reports, 2018, 738, 1-76.	25.6	188
10	Entanglement between pairing and screening in the Gorkov-Melik-Barkhudarov correction to the critical temperature throughout the BCS-BEC crossover. Physical Review B, 2018, 97, .	3.2	33
11	Optimizing the proximity effect along the BCS side of the BCS-BEC crossover. Physical Review B, 2018, 98, .	3.2	5
12	Gap equation with pairing correlations beyond the mean-field approximation and its equivalence to a Hugenholtz-Pines condition for fermion pairs. Physical Review B, 2018, 98, .	3.2	24
13	Luttinger theorem and imbalanced Fermi systems. European Physical Journal B, 2017, 90, 1.	1.5	7
14	Nonlocal equation for the superconducting gap parameter. Physical Review B, 2017, 96, .	3.2	3
15	Vortex arrays in neutral trapped Fermi gases through the BCS-BEC crossover. Nature Physics, 2015, 11, 941-945.	16.7	17
16	Equation for the superfluid gap obtained by coarse graining the Bogoliubov-de Gennes equations throughout the BCS-BEC crossover. Physical Review B, 2014, 89, .	3.2	25
17	Temperature dependence of the pair coherence and healing lengths for a fermionic superfluid throughout the BCS-BEC crossover. Physical Review B, 2014, 89, .	3.2	27
18	Systematic investigation of the effects of disorder at the lowest order throughout the BCS-BEC crossover. Physical Review B, 2013, 88, .	3.2	20

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19	Temperature dependence of a vortex in a superfluid Fermi gas. <i>Physical Review B</i> , 2013, 87, .	3.2	23
20	Density and Spin Response of a Strongly Interacting Fermi Gas in the Attractive and Quasirepulsive Regime. <i>Physical Review Letters</i> , 2012, 108, 080401.	7.8	43
21	Dispersions, weights, and widths of the single-particle spectral function in the normal phase of a Fermi gas. <i>Physical Review B</i> , 2012, 85, .	3.2	34
22	Gray solitons in a strongly interacting superfluid Fermi gas. <i>New Journal of Physics</i> , 2011, 13, 035010.	2.9	33
23	Pairing-gap, pseudogap, and no-gap phases in the radio-frequency spectra of a trapped unitary Li gas. <i>Physical Review A</i> , 2011, 84, .	2.5	18
24	Evolution of the Normal State of a Strongly Interacting Fermi Gas from a Pseudogap Phase to a Molecular Bose Gas. <i>Physical Review Letters</i> , 2011, 106, 060402.	7.8	108
25	Solution of the Bogoliubov-de Gennes equations at zero temperature throughout the BCS-BEC crossover: Josephson and related effects. <i>Physics Reports</i> , 2010, 488, 111-167.	25.6	55
26	Observation of pseudogap behaviour in a strongly interacting Fermi gas. <i>Nature Physics</i> , 2010, 6, 569-573.	16.7	265
27	Temperature and coupling dependence of the universal contact intensity for an ultracold Fermi gas. <i>Physical Review A</i> , 2010, 82, .	2.5	52
28	Enhanced paraconductivity-like fluctuations in the radiofrequency spectra of ultracold Fermi atoms. <i>Nature Physics</i> , 2009, 5, 736-740.	16.7	55
29	Competition between Final-State and Pairing-Gap Effects in the Radio-Frequency Spectra of Ultracold Fermi Atoms. <i>Physical Review Letters</i> , 2008, 100, 010402.	7.8	44
30	Josephson Effect throughout the BCS-BEC Crossover. <i>Physical Review Letters</i> , 2007, 99, 040401.	7.8	57
31	Effects of density imbalance on the BCS-BEC crossover in semiconductor electron-hole bilayers. <i>Physical Review B</i> , 2007, 75, .	3.2	63
32	Trapped Fermions with Density Imbalance in the Bose-Einstein Condensate Limit. <i>Physical Review Letters</i> , 2006, 96, 150404.	7.8	96
33	Broad vs. narrow Fano-Feshbach resonances in the BCS-BEC crossover with trapped Fermi atoms. <i>Europhysics Letters</i> , 2005, 69, 713-718.	2.0	49
34	Popov approximation for composite bosons in the BCS-BEC crossover. <i>Physical Review B</i> , 2005, 71, .	3.2	27
35	Conserving and gapless approximations for the composite bosons in terms of the constituent fermions. <i>Europhysics Letters</i> , 2005, 71, 359-365.	2.0	3
36	Comparison between a diagrammatic theory for the BCS-BEC crossover and quantum Monte Carlo results. <i>Physical Review B</i> , 2005, 72, .	3.2	23

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37	Extracting the Condensate Density from Projection Experiments with Fermi Gases. <i>Physical Review Letters</i> , 2005, 95, 010407.	7.8	22
38	Pairing Fluctuation Effects on the Single-Particle Spectra for the Superconducting State. <i>Physical Review Letters</i> , 2004, 92, 110401.	7.8	22
39	BCS-BEC crossover at finite temperature in the broken-symmetry phase. <i>Physical Review B</i> , 2004, 70, .	3.2	119
40	Time-dependent Gross-Pitaevskii equation for composite bosons as the strong-coupling limit of the fermionic broken-symmetry random-phase approximation. <i>Physical Review A</i> , 2004, 69, .	2.5	5
41	Renormalization-group approach to the infrared behavior of a zero-temperature Bose system. <i>Physical Review B</i> , 2004, 69, .	3.2	57
42	Quantitative Comparison between Theoretical Predictions and Experimental Results for the BCS-BEC Crossover. <i>Physical Review Letters</i> , 2004, 93, 100404.	7.8	118
43	Single-particle spectra and magnetic field effects within precursor superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 317-318.	1.2	0
44	BCS-BEC Crossover at Finite Temperature for Superfluid Trapped Fermi Atoms. <i>Physical Review Letters</i> , 2004, 92, 220404.	7.8	168
45	Derivation of the Gross-Pitaevskii Equation for Condensed Bosons from the Bogoliubov-deGennes Equations for Superfluid Fermions. <i>Physical Review Letters</i> , 2003, 91, 030401.	7.8	114
46	Comment on "BCS to Bose-Einstein crossover phase diagram at zero temperature for adx ² y ² order parameter superconductor: Dependence on the tight-binding structure". <i>Physical Review B</i> , 2003, 68, .	3.2	5
47	Evolution from BCS superconductivity to Bose-Einstein condensation: Current correlation function in the broken-symmetry phase. <i>Physical Review B</i> , 2003, 68, .	3.2	43
48	Shrinking of a condensed fermionic cloud in a trap approaching the Bose-Einstein condensation limit. <i>Physical Review A</i> , 2003, 68, .	2.5	31
49	Magnetic Field Effect on the Pseudogap Temperature within Precursor Superconductivity. <i>Physical Review Letters</i> , 2002, 89, 127003.	7.8	32
50	Pseudogap and spectral function from superconducting fluctuations to the bosonic limit. <i>Physical Review B</i> , 2002, 66, .	3.2	174
51	From superconducting fluctuations to the bosonic limit in the response functions above the critical temperature. <i>European Physical Journal B</i> , 2002, 30, 161-173.	1.5	11
52	Spin-wave spectrum of a two-dimensional itinerant electron system: Analytic results for the incommensurate spiral phase in the strong-coupling limit. <i>European Physical Journal B</i> , 2001, 19, 433-448.	1.5	1
53	Bipolaron Localization for Increasing Electron-Phonon Coupling in a Small Cluster. <i>Journal of Superconductivity and Novel Magnetism</i> , 2001, 14, 169-174.	0.5	1
54	Relevance of the pair-pair interaction in the crossover from BCS to Bose-Einstein condensation. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 155-156.	1.2	1

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55	Size shrinking of composite bosons for increasing density in the BCS to Bose-Einstein crossover. European Physical Journal B, 2000, 13, 637-642.	1.5	10
56	Strong-coupling limit in the evolution from BCS superconductivity to Bose-Einstein condensation. Physical Review B, 2000, 61, 15370-15381.	3.2	163
57	A Survey on the Crossover from BCS Superconductivity to Bose-Einstein Condensation. Physics Essays, 2000, 13, 427-436.	0.4	7
58	EVOLUTION FROM BCS SUPERCONDUCTIVITY TO BOSE-EINSTEIN CONDENSATION: MAPPING OF THE FERMIONIC ONTO A BOSONIC SYSTEM IN THE STRONG-COUPLING LIMIT. International Journal of Modern Physics B, 1999, 13, 667-673.	2.0	1
59	Density-induced BCS to Bose-Einstein crossover. Physical Review B, 1999, 60, 12410-12418.	3.2	67
60	Evolution from BCS superconductivity to Bose condensation: analytic results for the crossover in three dimensions. European Physical Journal B, 1998, 1, 151-159.	1.5	159
61	Infrared Behavior of Interacting Bosons at Zero Temperature. Physical Review Letters, 1997, 78, 1612-1615.	7.8	52
62	Analytic results for the crossover from BCS superconductivity to Bose-Einstein condensation. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1817-1818.	1.2	1
63	Exact infrared behavior of superfluid interacting bosons at zero temperature. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1821-1822.	1.2	0
64	Symmetry properties and renormalization group in the stable superfluid phase of bosons at zero temperature. Zeitschrift für Physik B-Condensed Matter, 1996, 103, 331-333.	1.1	0
65	Evolution from BCS superconductivity to Bose condensation: Calculation of the zero-temperature phase coherence length. Physical Review B, 1996, 53, 15168-15192.	3.2	106
66	Correct continuum limit of the functional-integral representation for the four-slave-boson approach to the Hubbard model: Paramagnetic phase. Physical Review B, 1995, 52, 2428-2462.	3.2	12
67	Exact criterion for choosing the hopping operator in the four-slave-boson approach. Physical Review B, 1995, 52, 13707-13710.	3.2	3
68	Correct formulation of the 1/N expansion for the slave-boson approach within the functional integral. Physical Review B, 1994, 50, 2700-2703.	3.2	34
69	Implementing the four-slave-boson approach with the correct continuum limit of the functional integral. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2255-2256.	1.2	0
70	Revisiting the Nozières and Schmitt-Rink approach for the evolution from the BCS superconductivity to Bose Condensation. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2359-2360.	1.2	5
71	Functional-integral formulation of the slave-boson approach: Beyond the mean-field treatment with the correct continuum limit. Physics Reports, 1994, 241, 291-369.	25.6	29
72	Evolution from BCS superconductivity to Bose condensation: Role of the parameter κ . Physical Review B, 1994, 49, 6356-6359.	3.2	120

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73	Anomalous pressure dependence of the La ₂ CuO ₄ superexchange interaction: An evidence of band antiferromagnetism?. Solid State Communications, 1993, 87, 237-240.	1.9	1
74	Dimensional crossover in the magnetic properties of highly anisotropic antiferromagnets. II. Paramagnetic phase. Physical Review B, 1993, 48, 957-964.	3.2	18
75	Beyond the Gutzwiller approximation in the slave-boson approach: Inclusion of fluctuations with the correct continuum limit of the functional integral. Physical Review Letters, 1993, 71, 3178-3181.	7.8	29
76	Spin-wave spectrum of a two-dimensional itinerant-electron antiferromagnet based on a CuO ₂ layer: Approximate mapping onto an effective Heisenberg model. Physical Review B, 1992, 45, 7816-7827.	3.2	2
77	Dimensional crossover in the magnetic properties of highly anisotropic antiferromagnets. Physical Review B, 1992, 45, 7872-7881.	3.2	32
78	Incommensurate antiferromagnetism within a slave-boson approach to a two-dimensional Hubbard Hamiltonian. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1691-1692.	1.2	0
79	Critical behavior of the thermopower near the metal-insulator transition. Physical Review B, 1991, 43, 11088-11092.	3.2	11
80	Doping-induced incommensurate antiferromagnetism in a Mott-Hubbard insulator. Physical Review B, 1991, 44, 7455-7465.	3.2	81
81	Kinetic equation for strongly disordered systems. II. Interacting electrons. Physical Review B, 1991, 44, 6078-6089.	3.2	5
82	Antiferromagnetism of CuO ₂ layers within a slave-boson approach. Physical Review B, 1990, 41, 4838-4841.	3.2	12
83	Transport in Disordered Many-Body Systems. Physica Scripta, 1989, T29, 130-134.	2.5	0
84	Kinetic equation for strongly disordered systems: Noninteracting electrons. Physical Review B, 1989, 40, 12237-12254.	3.2	9
85	Kinetic equation for noninteracting electrons in the presence of strongly disordered magnetic impurities. Physical Review B, 1989, 39, 4824-4827.	3.2	6
86	Itinerant vs. localized antiferromagnetism of CuO ₂ layers. Physica C: Superconductivity and Its Applications, 1989, 162-164, 785-786.	1.2	0
87	Polaronic Effects on Exciton States with Different Angular Momenta. Physica Status Solidi (B): Basic Research, 1989, 153, 611-622.	1.5	15
88	Kinetic equation for electrons in strongly disordered systems. Physica C: Superconductivity and Its Applications, 1988, 153-155, 697-698.	1.2	1
89	Application of the Green's functions method to the study of the optical properties of semiconductors. Rivista Del Nuovo Cimento, 1988, 11, 1-86.	5.7	412
90	Heat-transport Ward identity and effective Landau Fermi-liquid parameters in disordered systems. Physical Review B, 1988, 37, 9046-9048.	3.2	18

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91	Thermoelectric power in disordered electronic systems near the Anderson transition. Physical Review B, 1988, 37, 6663-6666.	3.2	35
92	Electronic Thermal Conductivity in Disordered Systems near the Anderson Transition. Europhysics Letters, 1987, 4, 91-96.	2.0	8
93	Thermal conductivity in disordered interacting-electron systems. Physical Review Letters, 1987, 59, 477-480.	7.8	68
94	Energy diffusion in disordered electronic systems near the Anderson transition. Physical Review B, 1987, 36, 2270-2276.	3.2	24
95	On the excitonicâ€polaron theory in angular variables. Journal of Mathematical Physics, 1987, 28, 981-985.	1.1	4
96	Dependence of surface screening in semiconductors on the short-range properties of the bulk dielectric function. Solid State Communications, 1987, 62, 633-635.	1.9	4
97	Screening of a point charge in a semi-infinite semiconductor: Surface versus bulk contribution. Surface Science, 1986, 167, 363-380.	1.9	12
98	Effects of dynamical screening on resonances at inner-shell thresholds in semiconductors. Physical Review B, 1984, 29, 5718-5726.	3.2	271
99	On the effective non-Hermitian eigenvalue problems for resonant levels. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1984, 4, 397-410.	0.4	1
100	Alternative Derivation of the Coupled Set of Differential Equations for Excitons in Semiconductors with Degenerate Bands. Physica Status Solidi (B): Basic Research, 1983, 120, K115.	1.5	0
101	Core excitons in semiconductors with a decaying core hole. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 117-118, 293-295.	0.9	0
102	Impurities in covalent crystals: Exchange-correlation and local-field effects. Physical Review B, 1983, 27, 3735-3747.	3.2	37
103	Many-body effects in the screening of substitutional impurities in covalent crystals. Physical Review B, 1982, 26, 2302-2305.	3.2	9
104	Dynamical aspects of correlation corrections in a covalent crystal. Physical Review B, 1982, 25, 2867-2888.	3.2	260
105	Dynamical Shift and Broadening of Core Excitons in Semiconductors. Physical Review Letters, 1982, 49, 1519-1522.	7.8	186
106	Dynamical Correlation Effects on the Quasiparticle Bloch States of a Covalent Crystal. Physical Review Letters, 1980, 45, 290-294.	7.8	158
107	Multipole wavefunctions for photoelectrons in crystals. IV. The irregular functions and the matching to an impurity. Journal of Mathematical Physics, 1979, 20, 188-194.	1.1	3
108	General form of the quantum-defect theory. Physical Review A, 1979, 19, 1485-1509.	2.5	248

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109	Multipole wave functions for photoelectrons in crystals. II. Examples of constant-energy-surface harmonics. Application to the d -bands of Cu. Physical Review B, 1978, 18, 4096-4103.	3.2	8
110	Multipole wave functions for photoelectrons in crystals. III. The role of singular points in the band structure and the tails of the Wannier functions. Physical Review B, 1978, 18, 4104-4119.	3.2	24
111	Multipole expansion of the density of states about a crystal cell. Journal of Mathematical Physics, 1976, 17, 434.	1.1	8
112	Far ultraviolet absorption spectrum of the K^+ ion in KCl. Solid State Communications, 1974, 15, 1431-1434.	1.9	9