

Thierry Jolicoeur

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spin and valley ordering of fractional quantum Hall states in monolayer graphene. Physical Review B, 2022, 105, .	3.2	2
2	Unconventional $\nu = 2n$ parton states at $\nu = 1/2$: Role of finite width. Physical Review B, 2021, 103, .	3.2	15
3	Interplay between fractional quantum Hall liquid and crystal phases at low filling. Physical Review B, 2020, 102, .	3.2	12
4	Bubble phase at $\nu = 1/2$ for spinless hollow-core interaction. Physical Review B, 2020, 102, .	3.2	4
5	Quantum Hall skyrmions at $\nu = 1/2$ in monolayer graphene. Physical Review B, 2019, 100, .	3.2	7
6	Physics of integer-spin antiferromagnetic chains: Haldane gaps and edge states. Comptes Rendus Chimie, 2019, 22, 445-451.	0.5	7
7	Quantum Hall ferroelectric helix in bilayer graphene. Physical Review B, 2019, 99, .	3.2	2
8	Towards Quantum Simulation with Circular Rydberg Atoms. Physical Review X, 2018, 8, .	8.9	91
9	Shape of the magnetoroton at $\nu = 1/2$ real samples. Physical Review B, 2017, 95, .	3.2	7
10	Phase diagram of a graphene bilayer in the zero-energy Landau level. Physical Review B, 2016, 94, .	3.2	9
11	Edge structure of graphene monolayers in the $\nu = 1/2$ Hall state. Physical Review B, 2015, 92, .	3.2	16
12	SU(3) and SU(4) Singlet Quantum Hall States at $\nu = 2/3$. Physical Review Letters, 2015, 115, 166805.	7.8	8
13	Phase Diagram of the $\nu = 5/2$ Fractional Quantum Hall Effect: Effects of Landau-Level Mixing and Nonzero Width. Physical Review X, 2015, 5, .	8.9	70
14	SO(5) symmetry in the quantum Hall effect in graphene. Physical Review B, 2014, 90, .	3.2	39
15	Absence of a gap in the Gaffnian state. Physical Review B, 2014, 90, .	3.2	13
16	Low-dimensional physics of ultracold gases with bound states and the sine-Gordon model. European Physical Journal: Special Topics, 2013, 217, 3-12.	2.6	0
17	Many-body study of a quantum point contact in the fractional quantum Hall regime at $\nu = 5/2$. Physical Review B, 2013, 88, .	3.2	4
18	Edge properties of principal fractional quantum Hall states in the cylinder geometry. Physical Review B, 2012, 86, .	3.2	7

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19	Exact wave functions for excitations of the $\nu = 1/2$ quantum Hall state from a model Hamiltonian. Physical Review B, 2012, 85, .	3.2	11
20	Highest weight Macdonald and Jack polynomials. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 055204.	2.1	9
21	Multimer formation in one-dimensional two-component gases and trimer phase in the asymmetric attractive Hubbard model. Physical Review A, 2011, 83, .	2.5	19
22	Fermionic trimers in spin-dependent optical lattices. Comptes Rendus Physique, 2011, 12, 39-46.	0.9	4
23	Luttinger Liquid of Trimers in Fermi Gases with Unequal Masses. Physical Review Letters, 2010, 104, 065301.	7.8	39
24	FRACTIONAL QUANTUM HALL STATES WITH NEGATIVE FLUX: EDGE MODES IN SOME ABELIAN AND NON-ABELIAN CASES. International Journal of Modern Physics B, 2010, 24, 549-566.	2.0	8
25	Modified Coulomb gas construction of quantum Hall states from nonunitary conformal field theories. Physical Review B, 2009, 80, .	3.2	15
26	Pairing in ultracold Fermi gases in the lowest Landau level. Physical Review A, 2009, 79, .	2.5	5
27	Stability and Pairing in Quasi-One-Dimensional Bose-Fermi Mixtures. Physical Review Letters, 2009, 103, 105304.	7.8	15
28	Multiparticle Composites in Density-Imbalanced Quantum Fluids. Physical Review Letters, 2009, 103, 215301.	7.8	36
29	Finite-Layer Thickness Stabilizes the Pfaffian State for the $5/2$ Fractional Quantum Hall Effect: Wave Function Overlap and Topological Degeneracy. Physical Review Letters, 2008, 101, 016807.	7.8	116
30	Orbital Landau level dependence of the fractional quantum Hall effect in quasi-two-dimensional electron layers: Finite-thickness effects. Physical Review B, 2008, 78, .	3.2	72
31	Bridge Between Abelian and Non-Abelian Fractional Quantum Hall States. Physical Review Letters, 2008, 101, 066803.	7.8	31
32	Quantum detection of electronic flying qubits in the integer quantum Hall regime. Physical Review B, 2008, 77, .	3.2	33
33	Non-Abelian States with Negative Flux: A New Series of Quantum Hall States. Physical Review Letters, 2007, 99, 036805.	7.8	39
34	Parafermionic states in rotating Bose-Einstein condensates. Physical Review B, 2007, 76, .	3.2	19
35	Composite fermion theory of rapidly rotating two-dimensional bosons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S89-S99.	1.5	24
36	Composite fermionization of bosons in rapidly rotating atomic traps. Physical Review A, 2005, 72, .	2.5	78

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37	Tunneling in fractional quantum Hall line junctions. <i>Physical Review B</i> , 2005, 72, .	3.2	8
38	Quantum Hall fractions for spinless bosons. <i>Physical Review B</i> , 2004, 69, .	3.2	68
39	Quantum Hall fractions in ultracold fermionic vapors. <i>Physical Review B</i> , 2004, 70, .	3.2	22
40	Field-induced disorder point in noncollinear Ising spin chains. <i>Physical Review B</i> , 2004, 70, .	3.2	10
41	QUANTUM HALL FRACTIONS IN ULTRACOLD ATOMIC VAPORS. <i>Modern Physics Letters B</i> , 2004, 18, 1003-1012.	1.9	5
42	Quantum Hall Fractions in Rotating Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2003, 91, 030402.	7.8	174
43	Exchange coupling in the magnetic molecular cluster $Mn_{12}Ac$. <i>Physical Review B</i> , 2002, 66, .	3.2	46
44	Phase transitions in the one-dimensional spin-1 J_1 - J_2 XY model. <i>Physical Review B</i> , 2001, 63, .	3.2	37
45	Magnetization Plateaus of $SrCu_2(BO_3)_2$ from a Chern-Simons Theory. <i>Physical Review Letters</i> , 2001, 87, 097203.	7.8	69
46	Generalized nonlinear sigma model approach to alternating spin chains and ladders. <i>European Physical Journal B</i> , 2000, 14, 47-52.	1.5	6
47	Edge Logarithmic Corrections Probed by Impurity NMR. <i>Physical Review Letters</i> , 1999, 83, 2821-2824.	7.8	20
48	Incommensurability in the magnetic excitations of the bilinear-biquadratic spin-1 chain. <i>European Physical Journal B</i> , 1999, 11, 199.	1.5	8
49	Phases of random antiferromagnetic spin-1 chains. <i>Physical Review B</i> , 1998, 58, 805-815.	3.2	47
50	Effects of randomness on the antiferromagnetic spin-1 chain. <i>Physical Review B</i> , 1998, 58, 8481-8489.	3.2	8
51	Critical exponents of the pure and random-field Ising models. <i>Physical Review B</i> , 1997, 56, 10766-10769.	3.2	5
52	Double Gap and Solitonic Excitations in the Spin-Peierls Chain $CuGeO_3$. <i>Physical Review Letters</i> , 1997, 78, 1560-1563.	7.8	83
53	Percolation Transition in the Random Antiferromagnetic Spin-1 Chain. <i>Physical Review Letters</i> , 1997, 79, 3254-3257.	7.8	78
54	Double gap in the spin-Peierls compound $CuGeO_3$. <i>Journal of Applied Physics</i> , 1997, 81, 4393-4395.	2.5	5

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55	S=2 antiferromagnetic quantum spin chain. Physical Review B, 1996, 54, 4038-4051.	3.2	72
56	Onset of incommensurability at the valence-bond-solid point in the S=1 quantum spin chain. Physical Review B, 1996, 53, 3304-3311.	3.2	137
57	Comment on "Quantum Monte Carlo Approach to Elementary Excitations of Antiferromagnetic Heisenberg Chains", Physical Review Letters, 1996, 77, 2844-2844.	7.8	11
58	Generalized Helimagnets between Two and Four Dimensions. Physical Review Letters, 1996, 76, 3148-3151.	7.8	15
59	Experimental Evidence of a Haldane Gap in an S=2 Quasi-Linear-Chain Antiferromagnet. Physical Review Letters, 1996, 77, 1616-1619.	7.8	81
60	Haldane Gap and Hidden Order in the $\langle S \rangle = 2$ Antiferromagnetic Quantum Spin Chain. Europhysics Letters, 1995, 30, 493-498.	2.0	122
61	A Self-Consistent Theory of Phase Transitions in Noncollinear Magnets. Europhysics Letters, 1995, 30, 555-559.	2.0	5
62	HEISENBERG ANTIFERROMAGNETIC CHAIN of SPIN S=1. International Journal of Modern Physics C, 1994, 05, 259-261.	1.7	0
63	Coupled-cluster approximation in momentum space. Physical Review B, 1994, 49, 9548-9554.	3.2	8
64	\tilde{J} -model study of Haldane-gap antiferromagnets. Physical Review B, 1994, 50, 9265-9273.	3.2	77
65	Finite-lattice extrapolations for a Haldane-gap antiferromagnet. Physical Review B, 1994, 50, 3037-3044.	3.2	128
66	O(N) vector model with twisted boundary conditions. Journal of Statistical Physics, 1993, 70, 583-598.	1.2	12
67	A renormalization-group study of helimagnets in $D = 2 + \epsilon$ dimensions. Nuclear Physics B, 1993, 408, 485-511.	2.5	70
68	ABELIAN BOSONIZATION IN A PATH INTEGRAL FRAMEWORK. International Journal of Modern Physics A, 1993, 08, 1923-1931.	1.5	5
69	The magnetic field behaviour of a Haldane-gap antiferromagnet. Journal of Physics Condensed Matter, 1993, 5, 7847-7858.	1.8	38
70	Dynamical properties of a Haldane-gap antiferromagnet. Journal of Physics Condensed Matter, 1993, 5, 1399-1410.	1.8	31
71	Ground-state properties of the Hubbard model on a C ₆₀ cluster. Physical Review B, 1993, 47, 12316-12319.	3.2	15
72	Generalized spin-density-wave state of the Hubbard model for C ₁₂ and C ₆₀ clusters. Physical Review B, 1993, 47, 5539-5542.	3.2	18

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73	Dispersion of magnetic excitations in a spin-1 chain with easy-plane anisotropy. Physical Review B, 1992, 46, 10854-10857.	3.2	65
74	Spin stiffness of canted antiferromagnets. Physical Review B, 1992, 45, 12612-12615.	3.2	20
75	Order-from-disorder phenomena in Heisenberg antiferromagnets on a triangular lattice. Physical Review B, 1992, 46, 11137-11140.	3.2	71
76	Haldane gaps in a spin-1 Heisenberg chain with easy-plane single-ion anisotropy. Physical Review B, 1992, 45, 9798-9805.	3.2	94
77	Short-range flaws. Nature, 1992, 356, 24-24.	27.8	3
78	Self-consistent interaction of magnons in a frustrated quantum antiferromagnet. Journal De Physique, I, 1992, 2, 371-377.	1.2	3
79	Dimer stability region in a frustrated quantum Heisenberg antiferromagnet. Physical Review B, 1991, 44, 12050-12053.	3.2	64
80	Relativistic quantum field theory with fractional spin and statistics. Nuclear Physics B, 1991, 350, 589-620.	2.5	21
81	On the nature of the phase transition of helimagnets. Journal of Applied Physics, 1991, 69, 6170-6172.	2.5	17
82	Fluctuations beyond the Gutzwiller approximation in the slave-boson approach. Physical Review B, 1991, 44, 2403-2406.	3.2	43
83	Ground-state properties of the $S=1/2$ Heisenberg antiferromagnet on a triangular lattice. Physical Review B, 1990, 42, 4800-4803.	3.2	104
84	Incommensurate correlations in the J and frustrated spin-1/2 Heisenberg models. Physical Review B, 1990, 42, 6283-6293.	3.2	116
85	Nonuniversality in helical and canted-spin systems. Physical Review Letters, 1990, 64, 3175-3178.	7.8	162
86	Functional integral approach to kinetic theory. Physical Review A, 1989, 40, 5815-5821.	2.5	6
87	Spin-wave results for the triangular Heisenberg antiferromagnet. Physical Review B, 1989, 40, 2727-2729.	3.2	194
88	Theoretical Estimate of the Antiferromagnetic Correlation Length in Doped $\text{La}_{2-x}\text{CuO}_4$. Europhysics Letters, 1989, 10, 599-603.	2.0	7
89	Magnetic susceptibility of the $O(N)$ non-linear sigma model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 215, 735-738.	4.1	5
90	An analytical evaluation for the mass gap of the non-linear sigma model. Nuclear Physics B, 1988, 300, 517-530.	2.5	8

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91	Staggered lattice models. <i>Journal of Physics A</i> , 1987, 20, 4923-4937.	1.6	2
92	Anomalies for compact symmetries and the non-abelian anomaly on the lattice. <i>Nuclear Physics B</i> , 1987, 293, 215-228.	2.5	7
93	Continuum symmetries of lattice models with staggered fermions. <i>Nuclear Physics B</i> , 1986, 274, 225-252.	2.5	35
94	A holomorphy property and the critical dimension in string theory from an index theorem. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 174, 273-276.	4.1	55
95	Symmetric quantum models from non-symmetric classical actions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 171, 431-434.	4.1	7
96	Finite-size effects due to Goldstone particles in lattice gauge theory. <i>Nuclear Physics B</i> , 1985, 262, 627-643.	2.5	31
97	The strong coupling expansion of lattice gauge theories with Susskind fermions. <i>Nuclear Physics B</i> , 1984, 235, 455-477.	2.5	38