

Marcelo Gomes

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of the four-fermion interactions in a $2+1$ dimensional electron system. Physical Review D, 2021, 103, .	4.7	12
2	Renormalization of the band gap in 2D materials through the competition between electromagnetic and four-fermion interactions in large N expansion. Physical Review D, 2020, 102, .	4.7	12
3	$1/N$ expansion for Horava-Lifshitz like four-fermion models. European Physical Journal C, 2020, 80, 1.	3.9	4
4	One-loop corrections in the $z=3$ Lifshitz extension of QED. Physical Review D, 2018, 98, .	4.7	4
5	On the radiative corrections in the Horava-Lifshitz $z=2$ QED. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 277-281.	4.1	8
6	UV completion of five-dimensional scalar QED and Lorentz symmetry. Physical Review D, 2017, 96, .	4.7	3
7	Low-energy Lorentz invariance in Lifshitz nonlinear sigma models. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
8	Remarks on a Lorentz-breaking 4D chiral gauge theory. Physical Review D, 2016, 93, .	4.7	2
9	Lorentz breaking supersymmetry and Horava-Lifshitz-like models. Physical Review D, 2015, 92, .	4.7	6
10	One-loop corrections in the Horava-Lifshitz-like QED. Physical Review D, 2015, 92, .	4.7	8
11	Superfield effective potential for the supersymmetric topologically massive gauge theory in four dimensions. Physical Review D, 2015, 91, .	4.7	4
12	Generic higher-derivative $N=2$ gauge theory. Physical Review D, 2014, 89, .	4.7	11
13	Effective potential, Horava-Lifshitz-like theories, and finite temperature. Physical Review D, 2014, 89, .	4.7	16
14	Horava-Lifshitz-like extensions of supersymmetric theories. Physical Review D, 2014, 90, .	4.7	8
15	On the one-loop effective potential in the higher-derivative four-dimensional chiral superfield theory with a nonconventional kinetic term. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 247-252.	4.1	9
16	Braneworlds scenarios in a gravity model with higher order spatial three-curvature terms. European Physical Journal C, 2013, 73, 1.	3.9	2
17	Dynamics of a Dirac fermion in the presence of spin noncommutativity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1475-1480.	4.1	19
18	Effective superpotential in the supersymmetric Chern-Simons theory with matter. Physical Review D, 2013, 87, .	4.7	16

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19	Competing interactions and the Lifshitz-type nonlinear sigma model. <i>Physical Review D</i> , 2013, 88, .	4.7	14
20	Chern-Simons terms in Lifshitz-like quantum electrodynamics. <i>Physical Review D</i> , 2013, 88, .	4.7	13
21	Stochastic quantization of the spherical model and supersymmetry. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P09018.	2.3	3
22	Lorentz violation bounds on Bhabha scattering. <i>Physical Review D</i> , 2012, 86, .	4.7	52
23	Higher spatial derivative field theories. <i>Physical Review D</i> , 2012, 85, .	4.7	33
24	Ward identities in Lifshitz-like field theories. <i>Physical Review D</i> , 2012, 85, .	4.7	24
25	All-loop finiteness of the two-dimensional noncommutative supersymmetric gauge theory. <i>Europhysics Letters</i> , 2012, 98, 21002.	2.0	6
26	Effective potential for Horava-Lifshitz-like theories. <i>Physical Review D</i> , 2012, 85, .	4.7	33
27	Supersymmetric extension of the quantum spherical model. <i>Physical Review E</i> , 2012, 85, 061109.	2.1	4
28	Fourth order spatial derivative gravity. <i>Physical Review D</i> , 2011, 84, .	4.7	8
29	Higher-derivative supersymmetric gauge theory. <i>Physical Review D</i> , 2011, 84, .	4.7	32
30	Slavnov-Taylor identities for the 2+1 dimensional noncommutative CPN ⁿ⁻¹ model. <i>Physical Review D</i> , 2010, 82, .	4.7	1
31	Free energy of Lorentz-violating QED at high temperature. <i>Physical Review D</i> , 2010, 81, .	4.7	14
32	$\int_0^1 dx \exp(-N \int_0^1 dx \dots)$ expansion in noncommutative quantum mechanics. <i>Physical Review D</i> , 2010, 82, .	4.7	1
33	Coleman-Weinberg mechanism in a three-dimensional supersymmetric Chern-Simons-matter model. <i>Physical Review D</i> , 2010, 82, .	4.7	19
34	Aetherlike Lorentz-breaking actions. <i>Physical Review D</i> , 2010, 81, .	4.7	124
35	Noncommutativity due to spin. <i>Physical Review D</i> , 2010, 81, .	4.7	31
36	Slavnov-Taylor identities for noncommutative QED. $\int_0^4 dx \dots$ <i>Physical Review D</i> , 2010, 81, .	4.7	5

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37	Dynamical noncommutativity. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 285301.	2.1	11
38	Equivalence between supersymmetric self-dual and Maxwell-Chern-Simons models coupled to a matter spinor superfield. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 233-239.	4.1	3
39	On the superfield effective potential in three dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 500-503.	4.1	25
40	On the effective potential in higher-derivatives superfield theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 229-234.	4.1	19
41	Dynamical Lorentz symmetry breaking in 3D and charge fractionalization. Physical Review D, 2009, 79, .	4.7	13
42	Position-dependent noncommutativity in quantum mechanics. Physical Review D, 2009, 79, .	4.7	46
43	On duality of the noncommutative supersymmetric Maxwell-Chern-Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 666, 91-94.	4.1	8
44	Perturbative finiteness of three-dimensional supersymmetric QED to all orders. Physical Review D, 2008, 77, .	4.7	9
45	Finiteness of the noncommutative supersymmetric Maxwell-Chern-Simons theory. Physical Review D, 2008, 77, .	4.7	10
46	Borel-Leroy summability of a nonpolynomial potential. Reports on Mathematical Physics, 2008, 61, 401-415.	0.8	1
47	Dynamical Lorentz and CPT symmetry breaking in a 4D four-fermion model. Physical Review D, 2008, 77, .	4.7	15
48	Ambiguities in the effective action in Lorentz-violating gravity. Physical Review D, 2008, 78, .	4.7	24
49	The three-dimensional noncommutative Gross-Neveu model. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 3633-3641.	2.1	9
50	Induction of the four-dimensional Lorentz-breaking non-Abelian Chern-Simons action. Physical Review D, 2007, 76, .	4.7	53
51	Scattering of spin-1 particles by the spin-2 dimensional noncommutative Aharonov-Bohm potential. Physical Review D, 2007, 76, .	4.7	15
52	Lorentz violation in the linearized gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 652, 174-180.	4.1	56
53	Anomaly cancellation in three-dimensional noncommutative gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 656, 145-151.	4.1	2
54	Spontaneous gauge symmetry breaking in a supersymmetric Chern-Simons model. Physical Review D, 2007, 76, .	4.7	15

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55	Lorentz symmetry breaking in the noncommutative Wess-Zumino model: One loop corrections. Physical Review D, 2006, 73, .	4.7	9
56	Supersymmetric non-Abelian non-commutative Chern-Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 275-282.	4.1	6
57	Finite-size effects on the phase structure of the Nambu-Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 551-562.	4.1	50
58	Duality of three-dimensional superfield theories. Physical Review D, 2006, 73, .	4.7	10
59	Three-dimensional nonanticommutative superspace. Physical Review D, 2006, 74, .	4.7	18
60	Consistent interactions of the 2+1 dimensional noncommutative Chern-Simons field. Physical Review D, 2005, 71, .	4.7	9
61	Noncommutative field theory: Nonrelativistic fermionic field coupled to the Chern-Simons field in 2+1 dimensions. Physical Review D, 2005, 71, .	4.7	9
62	Superfield covariant analysis of the divergence structure of noncommutative supersymmetric QED ₄ . Physical Review D, 2004, 69, .	4.7	19
63	(2+1)-dimensional noncommutative CPN ⁿ⁻¹ model. Physical Review D, 2004, 69, .	4.7	5
64	Dynamical breakdown of symmetry in a (2+1)-dimensional model containing the Chern-Simons field. Physical Review D, 2004, 69, .	4.7	20
65	Radiative corrections to the Chern-Simons term at finite temperature in the noncommutative Chern-Simons-Higgs model. Journal of Physics A, 2004, 37, 9989-10005.	1.6	2
66	Towards a consistent noncommutative supersymmetric Yang-Mills theory: Superfield covariant analysis. Physical Review D, 2004, 70, .	4.7	25
67	Coupling of fermions to the three-dimensional noncommutative CPN ⁿ⁻¹ model: Minimal and supersymmetric extensions. Physical Review D, 2004, 69, .	4.7	11
68	On the consistency of the three-dimensional noncommutative supersymmetric Yang-Mills theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 601, 88-92.	4.1	10
69	Noncommutative correction to Aharonov-Bohm scattering: A field theory approach. Physical Review D, 2004, 70, .	4.7	15
70	On the finiteness of noncommutative supersymmetric QED ₃ in the covariant superfield formulation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 577, 83-92.	4.1	19
71	Spontaneous symmetry breaking in noncommutative field theories. Physical Review D, 2003, 67, .	4.7	14
72	THE NONCOMMUTATIVE SUPERSYMMETRIC NONLINEAR SIGMA MODEL. International Journal of Modern Physics A, 2002, 17, 1503-1516.	1.5	28

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73	The Low Energy Limit of the Noncommutative Wess-Zumino Model. Journal of High Energy Physics, 2002, 2002, 040-040.	4.7	13
74	Superfield effective action in the noncommutative Wess-Zumino model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 191-202.	4.1	17
75	The three-dimensional noncommutative nonlinear sigma model in superspace. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 521, 119-126.	4.1	30
76	Relativistic scalar Aharonov-Bohm scattering. Journal of Physics A, 2000, 33, 5521-5529.	1.6	2
77	Renormalization group study of the $(\mathbb{R}^3)^3$ model coupled to a Chern-Simons field. Physical Review D, 2000, 61, .	4.7	8
78	Renormalization group study of the Chern-Simons field coupled to scalar matter in a modified BPHZ subtraction scheme. Physical Review D, 2000, 62, .	4.7	9
79	Non-Abelian Aharonov-Bohm scattering of spin 1/2 particles. Physical Review D, 2000, 62, .	4.7	1
80	A consistent noncommutative field theory: the Wess-Zumino model. Nuclear Physics B, 2000, 587, 299-310.	2.5	83
81	Non-Abelian Aharonov-Bohm scattering of spinless particles. Physical Review D, 1999, 59, .	4.7	5
82	Spin-1 massive particles coupled to a Chern-Simons field. Physical Review D, 1999, 60, .	4.7	1
83	Radiative corrections to the Aharonov-Bohm scattering. Physical Review D, 1999, 61, .	4.7	2
84	Four-fermion field theories and the Chern-Simons field: A renormalization group study. Physical Review D, 1999, 60, .	4.7	6
85	On the equivalence of the self-dual and Maxwell-Chern-Simons models coupled to fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 137-141.	4.1	38
86	Nonrelativistic limit of the scattering of spin-1/2 particles interacting with a Chern-Simons field. Physical Review D, 1998, 57, 3579-3584.	4.7	9
87	Perturbative Gross-Neveu model coupled to a Chern-Simons field: A renormalization group study. Physical Review D, 1998, 59, .	4.7	6
88	NONRELATIVISTIC LIMIT OF THE SCALAR CHERN-SIMONS THEORY AND THE AHARONOV-BOHM SCATTERING. International Journal of Modern Physics A, 1998, 13, 3157-3180.	1.5	7
89	Low energy limit of the Chern-Simons theory coupled to fermions. Physical Review D, 1997, 56, 3623-3630.	4.7	6
90	Coulomb Gauge Quantization and Renormalization of the Chern-Simons Theory Coupled to Fermions. International Journal of Modern Physics A, 1997, 12, 2889-2901.	1.5	7

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91	Duality symmetry in the Schwarz-Sen model. Physical Review D, 1997, 56, 6615-6618.	4.7	8
92	Relativistic corrections to the Aharonov-Bohm scattering. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 373-382.	2.1	11
93	ON THE NONRELATIVISTIC LIMIT OF THE \tilde{t}^4 THEORY IN 2+1 DIMENSIONS. Modern Physics Letters A, 1996, 11, 2825-2836.	1.2	7
94	INFRARED STRUCTURE OF (2 + 1)-DIMENSIONAL QUANTUM ELECTRODYNAMICS. Modern Physics Letters A, 1994, 09, 2699-2704.	1.2	1
95	THE GAUSS-BONNET IDENTITY IN FOURTH ORDER GRAVITY. Modern Physics Letters A, 1993, 08, 1977-1982.	1.2	2
96	Girottiet al.t/Preply. Physical Review Letters, 1993, 71, 203-203.	7.8	5
97	1Nexpansion of the nonlinear \tilde{t}^4 model and its renormalization through stochastic quantization. Physical Review D, 1992, 46, 2617-2627.	4.7	4
98	Attractive forces between electrons in (2+1)-dimensional QED. Physical Review Letters, 1992, 69, 2623-2626.	7.8	16
99	Chiral bosons through linear constraints. Physical Review D, 1992, 45, R3329-R3331.	4.7	14
100	The fermion-fermion effective potential in the Maxwell-Chern-Simons theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 357-362.	4.1	14
101	Gauge structure, anomalies, and mass generation in a three-dimensional Thirring model. Physical Review D, 1991, 43, 3516-3523.	4.7	59
102	Dynamical parity violation and the Chern-Simons term. Physical Review D, 1990, 41, 1363-1366.	4.7	29
103	The Schwinger functions of a rational interaction: Local existence of the Borel transform. Journal of Mathematical Physics, 1989, 30, 1007-1008.	1.1	3
104	Self-dual fields and causality. Physical Review D, 1989, 39, 3792-3794.	4.7	9
105	On the convergence of perturbation series: the S matrix of the non linear sigma model. Zeitschrift für Physik C-Particles and Fields, 1989, 42, 649-652.	1.5	4
106	On the quantization of chiral bosonic particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 218, 63-66.	4.1	6
107	Quantum integrability and Kac-Moody algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 207, 305-308.	4.1	0
108	Superconformal invariant non-linear \tilde{t}^4 -models from the bosonic ones. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 538-540.	4.1	0

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109	Weyl fields, quantum integrability and conformal invariant field theories. Nuclear Physics B, 1988, 295, 139-152.	2.5	1
110	Chiral Bosonization. Physical Review Letters, 1988, 60, 1913-1915.	7.8	32
111	Remarks on noncompact σ models. Physical Review D, 1988, 38, 706-709.	4.7	4
112	Self-dual fields and the Thirring model. Physical Review D, 1988, 38, 1344-1345.	4.7	10
113	Dynamical gauge boson in the $SU(N,1)$ -type σ model. Physical Review Letters, 1987, 58, 2390-2393.	7.8	6
114	Equivalence between the Thirring model and a derivative-coupling model. Physical Review D, 1986, 34, 3916-3919.	4.7	7
115	Mass perturbation in the Thirring model. Physical Review D, 1986, 34, 504-512.	4.7	7
116	Even orthogonal and symplectic sigma models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 137, 197-200.	4.1	2
117	The non-compact sigma model and dynamical mass generation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 145, 235-238.	4.1	10
118	Remarks on the algebra for higher nonlocal charges. Physical Review D, 1983, 28, 2683-2685.	4.7	3
119	Nonlocal charge of the CP^{n-1} model and its supersymmetric extension to all orders. Physical Review D, 1983, 27, 825-836.	4.7	22
120	Anomaly cancellations in the supersymmetric CP^{n-1} model. Physical Review D, 1982, 25, 452-460.	4.7	21
121	On the origin of anomalies in the quantum non-local charge for the generalized non-linear sigma models. Nuclear Physics B, 1982, 210, 181-192.	2.5	63
122	Absence of induced interaction terms in the Federbush model. Physical Review D, 1981, 23, 1764-1770.	4.7	1
123	Anomaly in the nonlocal quantum charge of the CP^{n-1} model. Physical Review D, 1981, 23, 1800-1805.	4.7	36
124	Zero-mass limit and induced interactions in a two-dimensional derivative-coupling model. Physical Review D, 1979, 19, 1144-1152.	4.7	9
125	Mass perturbation around the exact solution of a two-dimensional field-theoretical model. Physical Review D, 1979, 19, 1791-1797.	4.7	9
126	Absence of spontaneous chiral symmetry breaking and the $1/N$ expansion in two dimensions in an exactly soluble model. Physical Review D, 1979, 20, 895-896.	4.7	4

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127	Gauge-invariant subtraction scheme for massive quantum electrodynamics. Physical Review D, 1978, 18, 3634-3638.	4.7	3
128	On an infra-red finite normal-product formalism. Il Nuovo Cimento A, 1975, 25, 616-628.	0.2	3
129	Generalization of the momentum-space subtraction procedure for renormalized perturbation theory. Communications in Mathematical Physics, 1974, 39, 81-90.	2.2	36
130	Comment on "New approach to the renormalization group". Physical Review D, 1974, 10, 3525-3531.	4.7	13
131	Linear Relations Among Normal-Product Fields. Physical Review D, 1973, 7, 550-554.	4.7	10
132	Asymptotic scale invariance in a massive Thirring model. Nuclear Physics B, 1972, 45, 252-266.	2.5	53