

Maarten Fl Golterman

List of Publications by Year in descending order

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158
papers

4,670
citations

108046

37
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129628

63
g-index

160
all docs

160
docs citations

160
times ranked

1477
citing authors

#	ARTICLE	IF	CITATIONS
1	Dilaton chiral perturbation theory and applications. EPJ Web of Conferences, 2022, 258, 08004.	0.1	0
2	Evaluation of the three-flavor quark-disconnected contribution to the muon anomalous magnetic moment from experimental data. Physical Review D, 2022, 105, .	1.6	11
3	Strong coupling from an improved \vec{I}_{ν} vector isovector spectral function. Physical Review D, 2021, 103, .	1.6	22
4	Low-energy constant L10 in a two-representation lattice theory. Physical Review D, 2021, 103, .	1.6	2
5	Light quark vacuum polarization at the physical point and contribution to the muon g_2^{μ} . Physical Review D, 2020, 101, .	1.6	78
6	Application of effective field theory to finite-volume effects in $a^3 HVP$. Physical Review D, 2020, 102, .	1.6	6
7	Explorations beyond dilaton chiral perturbation theory in the eight-flavor SU(3) gauge theory. Physical Review D, 2020, 102, .	1.6	16
8	Application of dilaton chiral perturbation theory to $N_f=8$, SU(3) spectral data. Physical Review D, 2020, 102, .	1.6	23
9	Phase ambiguity of the measure for continuum Majorana fermions. Physical Review D, 2019, 100, .	1.6	2
10	Radiative contribution to the composite-Higgs potential in a two-representation lattice model. Physical Review D, 2019, 99, .	1.6	22
11	Evidence against naive truncations of the OPE from $e^+e^- \rightarrow \text{hadrons}$ below charm. Physical Review D, 2019, 100, .	1.6	7
12	$\hat{\mu}$ -regime of dilaton chiral perturbation theory. Physical Review D, 2019, 100, .	1.6	9
13	Determining α_s from hadronic a_u decay: the pitfalls of truncating the OPE. , 2019, , .		3
14	The strong coupling from $e^+e^- \rightarrow \text{hadrons}$. , 2019, , .		0
15	Effective potential in ultraviolet completions for composite Higgs models. Physical Review D, 2018, 97, .	1.6	25
16	Hyperasymptotics and quark-hadron duality violations in QCD. Physical Review D, 2018, 97, .	1.6	29
17	Strong coupling from $e^+e^- \rightarrow \text{hadrons}$ below charm. Physical Review D, 2018, 98, .	1.6	19
18	Large-mass regime of the dilaton-pion low-energy effective theory. Physical Review D, 2018, 98, .	1.6	39

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19	Spectroscopy of SU(4) composite Higgs theory with two distinct fermion representations. Physical Review D, 2018, 97, .	1.6	53
20	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
21	Effective pion mass term and the trace anomaly. Physical Review D, 2017, 95, .	1.6	25
22	Strong coupling from hadronic $\langle \bar{\psi}\psi \rangle$ decays: A critical appraisal. Physical Review D, 2017, 95, .	1.6	23
23	The status of the strong coupling from tau decays in 2016. Nuclear and Particle Physics Proceedings, 2017, 287-288, 85-88.	0.2	1
24	Determination of the NNLO low-energy constant C_9 . Physical Review D, 2017, 96, .	1.6	2
25	Chiral extrapolation of the leading hadronic contribution to the muon anomalous magnetic moment. Physical Review D, 2017, 95, .	1.6	13
26	Hadronic tau decays and the strong coupling. Journal of Physics: Conference Series, 2017, 912, 012003.	0.3	1
27	Radiative contribution to the effective potential in composite Higgs models from lattice gauge theory. Physical Review D, 2016, 94, .	1.6	11
28	Low-energy effective action for pions and a dilatonic meson. Physical Review D, 2016, 94, .	1.6	63
29	$\hat{\Gamma}_s$ from the updated ALEPH data for hadronic $\bar{\psi}\psi$ decays. Nuclear and Particle Physics Proceedings, 2016, 270-272, 103-107.	0.2	1
30	A Hybrid Strategy for the Lattice Evaluation of the Leading Order Hadronic Contribution to $(g\hat{\Gamma}_s)^{1/4}$. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1650-1656.	0.2	0
31	Finite-volume effects in the muon anomalous magnetic moment on the lattice. Physical Review D, 2016, 93, .	1.6	35
32	$\hat{\Gamma}_s$ analyses from hadronic tau decays with OPAL and ALEPH data. Modern Physics Letters A, 2016, 31, 1630024.	0.5	1
33	One-loop chiral perturbation theory with two fermion representations. Physical Review D, 2016, 94, .	1.6	29
34	The case for duality violations in the analysis of hadronic $\bar{\psi}\psi$ decays. Modern Physics Letters A, 2016, 31, 1630031.	0.5	9
35	Effective action for pions and a dilatonic meson. , 2016, , .		6
36	Top quark induced effective potential in a composite Higgs model. Physical Review D, 2015, 91, .	1.6	32

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37	Low-energy constants and condensates from ALEPH hadronic τ -decay data. Physical Review D, 2015, 92, .	1.6	17
38	Strong coupling from the revised ALEPH data for hadronic τ -decays. Physical Review D, 2015, 91, .	1.6	79
39	Hadronic τ -decay data and a hybrid strategy for the lattice evaluation of the leading order hadronic vacuum polarization contribution to $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/t. Nuclear and Particle Physics Proceedings, 2015,$	0.2	0
40	Chiral LECs from flavor-breaking inverse moment finite energy sum analyses of hadronic τ -decay data. Nuclear and Particle Physics Proceedings, 2015, 260, 125-129.	0.2	0
41	New strategy for the lattice evaluation of the leading order hadronic contribution to $(g\hat{\alpha}^2)^{1/4}$. Physical Review D, 2014, 90, .	1.6	20
42	NNLO low-energy constants from flavor-breaking chiral sum rules based on hadronic τ -decay data. Physical Review D, 2014, 89, .	1.6	12
43	Dimensional transmutation in the longitudinal sector of equivariantly gauge-fixed Yang-Mills theory. Physical Review D, 2014, 90, .	1.6	1
44	Functional-analysis based tool for testing quark-hadron duality. Physical Review D, 2014, 90, .	1.6	10
45	The strong coupling from tau decays without prejudice. Nuclear Physics, Section B, Proceedings Supplements, 2014, 253-255, 56-59.	0.5	0
46	Vacuum alignment and lattice artifacts: Wilson fermions. Physical Review D, 2014, 89, .	1.6	9
47	Vacuum alignment and lattice artifacts: Staggered fermions. Physical Review D, 2014, 89, .	1.6	3
48	Chiral perturbation theory for gradient flow observables. Physical Review D, 2014, 89, .	1.6	48
49	THE MUON ANOMALOUS MAGNETIC MOMENT, A VIEW FROM THE LATTICE. International Journal of Modern Physics Conference Series, 2014, 35, 1460418.	0.7	2
50	LOW-ENERGY CONSTANTS AND CONDENSATES FROM THE $V \hat{\alpha}^4$ A SPECTRUM. International Journal of Modern Physics Conference Series, 2014, 35, 1460443.	0.7	0
51	Low-energy constants and condensates from the τ -hadronic spectral functions. Physical Review D, 2013, 87, .	1.6	22
52	Updated determination of $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	0.5	1
53	Phase with no mass gap in nonperturbatively gauge-fixed Yang-Mills theory. Physical Review D, 2013, 87, .	1.6	8
54	Hadronic vacuum polarization with twisted boundary conditions. Physical Review D, 2013, 88, .	1.6	28

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55	On the foundations of partially quenched chiral perturbation theory. Physical Review D, 2013, 88, .	1.6	15
56	Excited-state contribution to the axial-vector and pseudoscalar correlators with two extra pions. Physical Review D, 2013, 87, .	1.6	17
57	Tests of hadronic vacuum polarization fits for the muon anomalous magnetic moment. Physical Review D, 2013, 88, .	1.6	15
58	Model-independent parametrization of the hadronic vacuum polarization and $g-2$ for the muon on the lattice. Physical Review D, 2012, 86, .	1.6	52
59	Updated determination of f_{\pm} from \tilde{I}_{\pm} decays. Physical Review D, 2012, 85, .	1.6	80
60	Gribov horizon and the one-loop color-Coulomb potential. Physical Review D, 2012, 85, .	1.6	9
61	New determination of \tilde{I}_{\pm} from hadronic decays. Physical Review D, 2011, 84, .	1.6	61
62	Flavor symmetry breaking in lattice QCD with a mixed action. Physical Review D, 2011, 83, .	1.6	11
63	Algebraic renormalization of supersymmetric gauge theories with dimensionful parameters. Physical Review D, 2010, 82, .	1.6	1
64	Possible duality violations in \tilde{I}_{\pm} decay and their impact on the determination of f_{\pm} . Physical Review D, 2009, 79, .	1.6	46
65	Mixed action effective field theory: An addendum. Physical Review D, 2009, 79, .	1.6	26
66	Unraveling duality violations in hadronic tau decays. Physical Review D, 2008, 77, .	1.6	56
67	$\hat{\epsilon}^{\text{TMt}}$ Hoft vertices, partial quenching, and rooted staggered QCD. Physical Review D, 2008, 77, .	1.6	28
68	Effective field theories for QCD with rooted staggered fermions. Physical Review D, 2008, 77, .	1.6	35
69	Reply to $\hat{\epsilon}^{\text{TMt}}$ Hoft vertices, partial quenching, and rooted staggered QCD. Physical Review D, 2008, 78, .	1.6	10
70	Tunneling hybrid Monte-Carlo algorithm. Physical Review D, 2007, 76, .	1.6	2
71	Comment on: Chiral anomalies and rooted staggered fermions. [Phys. Lett. B 649 (2007) 230]. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 235-240.	1.5	40
72	Observations on staggered fermions at nonzero lattice spacing. Physical Review D, 2006, 73, .	1.6	62

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73	Relation between low-energy constants and resonance saturation. Physical Review D, 2006, 74, .	1.6	17
74	The operator product expansion does not imply parity doubling of hadrons. Physical Review D, 2006, 74, .	1.6	17
75	Running couplings in equivariantly gauge-fixed SU(N) Yang-Mills theories. Physical Review D, 2006, 73, .	1.6	9
76	Quenched penguin operators and the $\beta=1/2$ rule. Physical Review D, 2006, 74, .	1.6	5
77	Breakdown of staggered fermions at nonzero chemical potential. Physical Review D, 2006, 74, .	1.6	39
78	Double poles in Lattice QCD with mixed actions. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 135-138.	0.5	0
79	chiral gauge theories on the lattice: a quick overview. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 671-673.	0.5	1
80	Is there an Aoki phase in quenched QCD?. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 335-337.	0.5	5
81	Duality violations and spectral sum rules. Journal of High Energy Physics, 2005, 2005, 076-076.	1.6	76
82	Mobility edge in lattice QCD. Physical Review D, 2005, 71, .	1.6	29
83	Localization properties of lattice fermions with plaquette and improved gauge actions. Physical Review D, 2005, 72, .	1.6	33
84	Before sailing on a domain-wall sea. Physical Review D, 2005, 71, .	1.6	11
85	Masslessness of ghosts in equivariantly gauge-fixed Yang-Mills theories. Physical Review D, 2005, 71, .	1.6	4
86	Role of the double pole in lattice QCD with mixed actions. Physical Review D, 2005, 71, .	1.6	31
87	Effective theory for quenched lattice QCD and the Aoki phase. Physical Review D, 2005, 71, .	1.6	24
88	Effects of (partial) quenching on penguin contributions to $K \rightarrow \pi \pi$. Physical Review D, 2004, 69, .	1.6	12
89	SU(N) chiral gauge theories on the lattice. Physical Review D, 2004, 70, .	1.6	29
90	Note on the power divergence in lattice calculations of $K \rightarrow \pi \pi$ amplitudes at $M_K = M_\pi$. Physical Review D, 2004, 69, .	1.6	2

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91	Localization in lattice QCD (with emphasis on practical implications). Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 149-155.	0.5	8
92	On the phase diagram of quenched QCD with Wilson fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 66-71.	0.5	0
93	Analytic estimates of quenched penguins. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 311-313.	0.5	3
94	On systematic errors due to quenching in $\hat{\mu}^2/\hat{\mu}$. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 425-427.	0.5	1
95	Non-perturbative BRST invariance and what it might be good for. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 971-973.	0.5	0
96	Localization in lattice QCD. Physical Review D, 2003, 68, .	1.6	66
97	Fermion-number violation in regularizations that preserve fermion-number symmetry. Physical Review D, 2003, 67, .	1.6	9
98	Use of the operator product expansion to constrain the hadron spectrum. Physical Review D, 2003, 67, .	1.6	41
99	Analytic estimates for penguin operators in quenched QCD. Physical Review D, 2003, 68, .	1.6	8
100	LATTICE CHIRAL GAUGE THEORIES THROUGH GAUGE FIXING. , 2003, , .		0
101	Testing an approximation to large- N_c QCD with a toy model. Journal of High Energy Physics, 2002, 2002, 024-024.	1.6	57
102	Effects of quenching and partial quenching on QCD penguin matrix elements. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 335-337.	0.5	11
103	Lattice Chiral Gauge Theories Through Gauge Fixing. , 2002, , 165-176.		0
104	Lattice chiral gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 189-203.	0.5	48
105	Large- N_c QCD meets Regge theory: the example of spin-one two-point functions. Journal of High Energy Physics, 2001, 2001, 028-028.	1.6	67
106	Effects of quenching and partial quenching on penguin matrix elements. Journal of High Energy Physics, 2001, 2001, 037-037.	1.6	50
107	Nonperturbative gauge fixing and perturbation theory. Physical Review D, 2001, 63, .	1.6	6
108	On $K \rightarrow \pi^0 \pi^0$ decays in quenched and unquenched chiral perturbation theory. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 250-252.	0.5	12

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109	Overlap-Dirac fermions with a small hopping parameter. Journal of High Energy Physics, 2000, 2000, 006-006.	1.6	10
110	On the determination of nonleptonic kaon decays from $K \rightarrow \pi\pi$ matrix elements. Journal of High Energy Physics, 2000, 2000, 023-023.	1.6	28
111	Abelian and Nonabelian Lattice Chiral Gauge Theories Through Gauge Fixing. , 2000, , 137-151.		0
112	Calculation of the Lepage-Mackenzie scale for the lattice axial-vector and vector currents. Physical Review D, 1999, 59, .	1.6	6
113	On tadpole improvement for staggered fermions. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 906-908.	0.5	9
114	Gauge-fixing approach to lattice chiral gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 147-152.	0.5	9
115	Gauge-fixing approach to lattice chiral gauge theories, part II. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 581-586.	0.5	8
116	Lattice Chiral Fermions Through Gauge Fixing. Physical Review Letters, 1998, 80, 3444-3447.	2.9	27
117	Applications of partially quenched chiral perturbation theory. Physical Review D, 1998, 57, 5703-5710.	1.6	79
118	Chiral perturbation theory for $K \rightarrow \pi\pi$ decay in the continuum and on the lattice. Physical Review D, 1997, 56, 2950-2969.	1.6	28
119	A gauge-fixing action for lattice gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 148-155.	1.5	36
120	Scattering in the quenched approximation. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 553-556.	0.5	3
121	Why the overlap formula does not lead to chiral fermions. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 603-606.	0.5	3
122	Finite-volume two-pion energies and scattering in the quenched approximation. Physical Review D, 1996, 53, 476-484.	1.6	52
123	The relation between the waveguide and overlap implementations of Kaplan's domain wall fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 353, 84-90.	1.5	21
124	Domain wall fermions in a waveguide: The phase diagram at large Yukawa coupling. Physical Review D, 1995, 51, 3026-3033.	1.6	35
125	Investigation of the domain wall fermion approach to chiral gauge theories on the lattice. Physical Review D, 1994, 49, 1606-1620.	1.6	40
126	Partially quenched gauge theories and an application to staggered fermions. Physical Review D, 1994, 49, 486-494.	1.6	220

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127	Partially quenched QCD and staggered fermions. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 331-333.	0.5	4
128	Pion-pion scattering in the quenched approximation. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 334.	0.5	8
129	Chiral gauge theories with domain wall fermions. Nuclear Physics, Section B, Proceedings Supplements, 1994, 34, 593-595.	0.5	3
130	Chern-Simons currents and chiral fermions on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 219-223.	1.5	143
131	The quenched approximation in health and in sickness. Nuclear Physics, Section B, Proceedings Supplements, 1993, 30, 217-220.	0.5	18
132	Absence of chiral fermions in the Eichten-Preiskill model. Nuclear Physics B, 1993, 395, 596-622.	0.9	44
133	Chiral perturbation theory for the quenched approximation of QCD. Physical Review D, 1992, 46, 853-857.	1.6	289
134	The large Wilson-Yukawa coupling expansion. Nuclear Physics B, 1992, 377, 405-423.	0.9	15
135	Fermion interactions in models with strong Wilson-Yukawa couplings. Nuclear Physics B, 1992, 370, 51-68.	0.9	55
136	Fermions in models with Wilson-Yukawa couplings. Nuclear Physics, Section B, Proceedings Supplements, 1992, 29, 60-70.	0.5	3
137	On the Eichten-Preiskill proposal for lattice chiral gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1992, 29, 193-199.	0.5	9
138	Chiral perturbation theory for the quenched approximation. Nuclear Physics, Section B, Proceedings Supplements, 1992, 26, 360-362.	0.5	25
139	Fermions in models with strong Wilson-Yukawa interactions. Nuclear Physics, Section B, Proceedings Supplements, 1992, 26, 483-485.	0.5	2
140	On the Eichten-Preiskill proposal for lattice chiral gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1992, 26, 486-488.	0.5	3
141	The $1/d$ expansion for lattice theories of chiral fermions with Yukawa couplings. Nuclear Physics B, 1991, 359, 91-122.	0.9	23
142	Lattice chiral gauge theories: Results and problems. Nuclear Physics, Section B, Proceedings Supplements, 1991, 20, 528-541.	0.5	27
143	Decoupling of doublers and the phase diagram of lattice chiral fermions for strong Wilson-Yukawa coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 370-376.	1.5	28
144	Decoupling of right-handed neutrinos in the lattice standard model. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 470-474.	0.5	2

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145	Lorentz symmetry restoration in lattice chiral gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 1990, 17, 475-479.	0.5	0
146	The quantization of chiral bosons coupled to gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 217, 289-295.	1.5	20
147	The decoupling of right-handed neutrinos in chiral lattice gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 225, 159-164.	1.5	102
148	Toward a perturbative lattice standard model. Nuclear Physics, Section B, Proceedings Supplements, 1989, 9, 595-599.	0.5	2
149	A local interactive lattice model with supersymmetry. Nuclear Physics B, 1989, 319, 307-341.	0.9	56
150	Consistent chiral bosonization with abelian and non-abelian gauge symmetries. Nuclear Physics B, 1989, 326, 307-332.	0.9	38
151	The physics of the chiral Schwinger model: Taming an anomalous theory. Annals of Physics, 1988, 185, 111-137.	1.0	45
152	The effective action for $\bar{\psi} \hat{\alpha} \psi$, $\bar{\psi} \hat{\alpha} \psi$ and $\bar{\psi} \hat{\alpha} \psi$. Nuclear Physics B, 1988, 309, 188-200.	0.9	1
153	Irreducible representations of the staggered fermion symmetry group. Nuclear Physics B, 1986, 278, 417-435.	0.9	23
154	Staggered mesons. Nuclear Physics B, 1986, 273, 663-676.	0.9	114
155	On the QCD effective action for pions and vector mesons. Nuclear Physics B, 1986, 277, 739-757.	0.9	26
156	Lattice baryons with staggered fermions. Nuclear Physics B, 1985, 255, 328-340.	0.9	75
157	Relation between QCD parameters on the lattice and in the continuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 140, 392-396.	1.5	26
158	Self-energy and flavor interpretation of staggered fermions. Nuclear Physics B, 1984, 245, 61-88.	0.9	194