Marc Knecht

List of Publications by Year
in descending order

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Version: 2024-02-01

44 papers	2,769 citations	394421 19 h-index	315739 38 g-index
44 all docs	44 docs citations	44 times ranked	3796 citing authors

#	Article	IF	Citations
1	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	25.6	790
2	Hadronic light-by-light corrections to the muongâˆ’2:The pion-pole contribution. Physical Review D, 2002, 65, .	4.7	283
3	Hadronic Light-By-Light Scattering Contribution to the Muongâˆ’2: An Effective Field Theory Approach. Physical Review Letters, 2002, 88, 071802.	7.8	202
4	Resonance estimates of $mathcal{O}(p^6)$ low-energy constants and QCD short-distance constraints. European Physical Journal C, 2001, 21, 659-678.	3.9	164
5	The low energy Ï€Ï€ amplitude to one and two loops. Nuclear Physics B, 1995, 457, 513-574.	2.5	160
6	Electroweak Hadronic Contributions to the muongâˆ’2. Journal of High Energy Physics, 2002, 2002, 003-003.	4.7	111
7	Virtual photons in low energy Îâˆ’Î scattering. Nuclear Physics B, 1998, 519, 329-360.	2.5	100
8	Decay of Pseudoscalars into Lepton Pairs and Large-NcQCD. Physical Review Letters, 1999, 83, 5230-5233.	7.8	96
9	Chiral perturbation theory with virtual photons and leptons. European Physical Journal C, 2000, 12, 469-478.	3.9	81
10	Patterns of spontaneous chiral symmetry breaking in the large-Nc limit of QCD-like theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 424, 335-342.	4.1	78
11	Scalar meson contributions to a from hadronic light-by-light scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 787, 111-123.	4.1	73
12	The electroweak Ï€+âˆ’Ï€0 mass difference and weak matrix elements in the 1/Nc expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 443, 255-263.	4.1	59
13	Complete one-loop renormalization of the Higgs-electroweak chiral Lagrangian. Nuclear Physics B, 2018, 928, 93-106.	2.5	59
14	Determination of two-loop Ï€Ï€ scattering amplitude parameters. Nuclear Physics B, 1996, 471, 445-470.	2.5	55
15	New nonrenormalization theorems for anomalous three point functions. Journal of High Energy Physics, 2004, 2004, 035-035.	4.7	55
16	Analytical dispersive construction of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î·</mml:mi><mml:mo>â†’</mml:mo><mml:mn>3</mml:mn><mml:mi>Ï€</mml:mi></mml:math>amplitude: First order in isospin breaking. Physical Review D, 2011, 84, .	4.7	49
17	Matrix elements of electroweak penguin operators in the 1/Nc expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 457, 227-235.	4.1	46
18	A critical reassessment of Q7 and Q8 matrix elements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 508, 117-126.	4.1	43

#	Article	IF	Citations
19	The Dalitz decay Ï€0 â† e + e â€“ Î³ revisited. European Physical Journal C, 2006, 46, 191-217.	3.9	38
20	The Anomalous Magnetic Moment of the Muon: A Theoretical Introduction. Lecture Notes in Physics, 0, , 37-84.	0.7	38
21	A new approach to weak amplitudes in large-Nc QCD. Nuclear Physics, Section B, Proceedings Supplements, 2000, 86, 279-293.	0.4	19
22	Electromagnetic corrections to charged pion scattering at low energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 532, 55-62.	4.1	18
23	Nonperturbative analysis of the spectrum of meson resonances in an ultraviolet-complete composite-Higgs model. Physical Review D, 2017, 95, .	4.7	18
24	On some short-distance properties of the fourth-rank hadronic vacuum polarization tensor and the anomalous magnetic moment of the muon. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
25	Low-energy photon-photon fusion into three pions in generalized chiral perturbation theory. Physical Review D, 1999, 60, .	4.7	13
26	Holographic models of composite Higgs in the Veneziano limit. Part I. Bosonic sector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
27	Two-loop representations of low-energy pion form factors and Ï€Ï€ scattering phases in the presence of isospin breaking. European Physical Journal C, 2012, 72, 1.	3.9	12
28	Spectral action and big desert. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 272-277.	4.1	11
29	On anomaly matching and holography. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
30	On the Pais-Treiman method to measure Ï€Ï€ phase shifts in Ke4 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 543-548.	4.1	8
31	Dispersive representation of amplitudes and cusps. Nuclear Physics, Section B, Proceedings Supplements, 2009, 186, 334-337.	0.4	8
32	Holographic models of composite Higgs in the Veneziano limit. Part II. Fermionic sector. Journal of High Energy Physics, 2022, 2022, .	4.7	8
33	Isospin breaking in the phases of the K e4 form factors. European Physical Journal C, 2013, 73, 1.	3.9	7
34	Dispersive construction of two-loop <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi><mml:mo stretchy="false">â†'</mml:mo><mml:mi>Ï€</mml:mi><mml:mi>Ï€</mml:mi><mml:mi>Ï€</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>P</mml:mi><mml:mo>=</mml:mo><mml:mi>K</mml:mi><mml:mo>,</mml:mo><mml:mi>Î·	4.7	7
35	Higgs-electroweak chiral Lagrangian: One-loop renormalization group equations. Physical Review D, 2021, 104, .	4.7	7
36	The Muon Anomalous Magnetic Moment. Nuclear and Particle Physics Proceedings, 2015, 258-259, 235-240.	0.5	5

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37	On the amplitudes for the CP-conserving KÂ±(KS) â†' Ï€Â±(Ï€0)â„“+â„“â^' rare decay modes. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
38	Perspectives on the hadronic contribution to the muongâ^' 2. EPJ Web of Conferences, 2016, 118, 01017.	0.3	3
39	On some aspects of isospin breaking in the decay $$K^pm ightarrow pi ^0 pi ^0 e^pm mathop {u _e}limits ^{_{(-)}}$$ K Â± â†' Ï€ 0 Ï€ 0 e Â± Î½ e (-). European Physical Journal C, 2015, 75, 1.	3.9	1
40	Dispersive construction of two-loop $Pightarrow 3pi (P=K,eta)$ amplitudes. , 2009, , .		1
41	Construction of the etaightarrow 3pi (and Kightarrow 3 pi) amplitudes using a dispersive approach. , 2010, , .		1
42	Isospin breaking in pion and Ke4 form factors. AIP Conference Proceedings, 2016, , .	0.4	0
43	Radiative corrections in kaon decays. Journal of Physics: Conference Series, 2017, 800, 012027.	0.4	0
44	Qed as an Introduction to Perturbative. , 2002, , 1435-1461.		0