

V Alan Kosteleck \tilde{A} ^{1/2}

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

16,496
citations

36203

51
h-index

98622

67
g-index

82
all docs

82
docs citations

82
times ranked

6241
citing authors

#	ARTICLE	IF	CITATIONS
1	Lorentz violation in Dirac and Weyl semimetals. <i>Physical Review Research</i> , 2022, 4, .	1.3	20
2	Backgrounds in gravitational effective field theory. <i>Physical Review D</i> , 2021, 103, .	1.6	55
3	Searches for beyond-Riemann gravity. <i>Physical Review D</i> , 2021, 104, .	1.6	17
4	Lorentz symmetry in ghost-free massive gravity. <i>Physical Review D</i> , 2021, 104, .	1.6	8
5	Lorentz and CPT violation in partons. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	8
6	Developments in Lorentz and CPT Violation. , 2020, , .		1
7	Gauge field theories with Lorentz-violating operators of arbitrary dimension. <i>Physical Review D</i> , 2019, 99, .	1.6	66
8	Combined Search for a Lorentz-Violating Force in Short-Range Gravity Varying as the Inverse Sixth Power of Distance. <i>Physical Review Letters</i> , 2019, 122, 011102.	2.9	24
9	Lorentz and diffeomorphism violations in linearized gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 136-142.	1.5	51
10	Riemannian Finsler geometry and Lorentz-violating scalar fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 786, 319-326.	1.5	65
11	Lorentz and CPT tests with clock-comparison experiments. <i>Physical Review D</i> , 2018, 98, .	1.6	39
12	Testing local Lorentz invariance with short-range gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 766, 137-143.	1.5	39
13	Constraints on nonmetricity from bounds on Lorentz violation. <i>Physical Review D</i> , 2017, 95, .	1.6	32
14	Combined Search for Lorentz Violation in Short-Range Gravity. <i>Physical Review Letters</i> , 2016, 117, 071102.	2.9	44
15	Lorentz-violating spinor electrodynamics and Penning traps. <i>Physical Review D</i> , 2016, 94, .	1.6	79
16	Lorentz and CPT tests with hydrogen, antihydrogen, and related systems. <i>Physical Review D</i> , 2015, 92, .	1.6	16
17	Relativity tested with a split electron. <i>Nature</i> , 2015, 517, 559-560.	13.7	0
18	Short-range gravity and Lorentz violation. <i>Physical Review D</i> , 2015, 91, .	1.6	98

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19	Laboratory tests of Lorentz and CPT symmetry with muons. Physical Review D, 2014, 90, .		
20	Testing relativity with high-energy astrophysical neutrinos. Physical Review D, 2014, 89, .	1.6	71
21	The magnetic proton. Nature, 2014, 509, 571-572.	13.7	0
22	Constraints on Relativity Violations from Gamma-Ray Bursts. Physical Review Letters, 2013, 110, 201601.	2.9	82
23	Fermions with Lorentz-violating operators of arbitrary dimension. Physical Review D, 2013, 88, .	1.6	187
24	Neutrinos with Lorentz-violating operators of arbitrary dimension. Physical Review D, 2012, 85, .	1.6	238
25	Bipartite Riemann-Finsler geometry and Lorentz violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 470-474.	1.5	95
26	Matter-gravity couplings and Lorentz violation. Physical Review D, 2011, 83, .	1.6	266
27	Data tables for Lorentz and CPT violation. Reviews of Modern Physics, 2011, 83, 11-31.	16.4	978
28	Riemann-Finsler geometry and Lorentz-violating kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 137-143.	1.5	183
29	Classical kinematics for Lorentz violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 443-447.	1.5	83
30	Lorentz violation with an antisymmetric tensor. Physical Review D, 2010, 81, .	1.6	98
31	TOPICS IN LORENTZ AND CPT VIOLATION. , 2010, , .		1
32	Prospects for Large Relativity Violations in Matter-Gravity Couplings. Physical Review Letters, 2009, 102, 010402.	2.9	182
33	Electrodynamics with Lorentz-violating operators of arbitrary dimension. Physical Review D, 2009, 80, .	1.6	410
34	Gravity from spontaneous Lorentz violation. Physical Review D, 2009, 79, .	1.6	100
35	Perturbative Lorentz and CPT violation for neutrino and antineutrino oscillations. Physical Review D, 2009, 80, .	1.6	93
36	Constraints on Torsion from Bounds on Lorentz Violation. Physical Review Letters, 2008, 100, 111102.	2.9	194

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37	Spontaneous Lorentz and diffeomorphism violation, massive modes, and gravity. Physical Review D, 2008, 77, .	1.6	138
38	DATA TABLES FOR LORENTZ AND CPT VIOLATION. , 2008, , .		6
39	PERSPECTIVES ON LORENTZ AND CPT VIOLATION. , 2008, , .		2
40	Lorentz-Violating Electrodynamics and the Cosmic Microwave Background. Physical Review Letters, 2007, 99, 011601.	2.9	160
41	Signals for Lorentz violation in post-Newtonian gravity. Physical Review D, 2006, 74, .	1.6	340
42	Geometrical Methods. , 2006, , 127-158.		0
43	Sensitive Polarimetric Search for Relativity Violations in Gamma-Ray Bursts. Physical Review Letters, 2006, 97, 140401.	2.9	189
44	Gravity from local Lorentz violation. General Relativity and Gravitation, 2005, 37, 1675-1679.	0.7	78
45	GRAVITY FROM LOCAL LORENTZ VIOLATION. International Journal of Modern Physics D, 2005, 14, 2341-2346.	0.9	13
46	Spontaneous Lorentz violation, Nambu-Goldstone modes, and gravity. Physical Review D, 2005, 71, .	1.6	297
47	LORENTZ VIOLATION AND GRAVITY. , 2005, , .		2
48	Gravity, Lorentz violation, and the standard model. Physical Review D, 2004, 69, .	1.6	1,005
49	Bound on Lorentz and CPT Violating Boost Effects for the Neutron. Physical Review Letters, 2004, 93, 230801.	2.9	119
50	NEUTRINO OSCILLATIONS AND LORENTZ VIOLATION. , 2004, , .		0
51	Probing Lorentz and CPT violation with space-based experiments. Physical Review D, 2003, 68, .	1.6	154
52	Vacuum Photon Splitting in Lorentz-Violating Quantum Electrodynamics. Physical Review Letters, 2003, 91, 031801.	2.9	104
53	One-loop renormalization of Lorentz-violating electrodynamics. Physical Review D, 2002, 65, .	1.6	211
54	Clock-Comparison Tests of Lorentz and CPT Symmetry in Space. Physical Review Letters, 2002, 88, 090801.	2.9	206

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55	Signals for Lorentz violation in electrodynamics. <i>Physical Review D</i> , 2002, 66, .	1.6	651
56	CPT AND LORENTZ VIOLATION IN NEUTRAL-MESON OSCILLATIONS. , 2002, , .		1
57	Noncommutative Field Theory and Lorentz Violation. <i>Physical Review Letters</i> , 2001, 87, 141601.	2.9	764
58	Stability, causality, and Lorentz and CPT violation. <i>Physical Review D</i> , 2001, 63, .	1.6	437
59	Lorentz and CPT Tests with Spin-Polarized Solids. <i>Physical Review Letters</i> , 2000, 84, 1381-1384.	2.9	186
60	CPT and Lorentz Tests with Muons. <i>Physical Review Letters</i> , 2000, 84, 1098-1101.	2.9	206
61	Off-Shell Structure of the String Sigma Model. <i>Physical Review Letters</i> , 2000, 84, 4541-4544.	2.9	85
62	Testing CPT and Lorentz symmetry with electrons and positrons in Penning traps. <i>AIP Conference Proceedings</i> , 1999, , .	0.3	1
63	Constraints on Lorentz violation from clock-comparison experiments. <i>Physical Review D</i> , 1999, 60, .	1.6	324
64	Nonrelativistic quantum Hamiltonian for Lorentz violation. <i>Journal of Mathematical Physics</i> , 1999, 40, 6245-6253.	0.5	193
65	CPT and Lorentz Tests in Hydrogen and Antihydrogen. <i>Physical Review Letters</i> , 1999, 82, 2254-2257.	2.9	299
66	Radiatively Induced Lorentz and CPT Violation in Electrodynamics. <i>Physical Review Letters</i> , 1999, 82, 3572-3575.	2.9	396
67	Hydrogen and antihydrogen spectroscopy for studies of CPT and Lorentz symmetry. , 1999, , .		1
68	Testing CPT and Lorentz symmetry with protons and antiprotons in Penning traps. , 1999, , .		1
69	Lorentz-violating extension of the standard model. <i>Physical Review D</i> , 1998, 58, .	1.6	1,857
70	CPT and Lorentz tests in Penning traps. <i>Physical Review D</i> , 1998, 57, 3932-3943.	1.6	221
71	Testing CPT with B mesons. , 1998, , .		0
72	Revival structure of Stark wave packets. <i>Physical Review A</i> , 1997, 55, 819-822.	1.0	29

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73	Testing CPT with Anomalous Magnetic Moments. Physical Review Letters, 1997, 79, 1432-1435.	2.9	200
74	CPT violation and the standard model. Physical Review D, 1997, 55, 6760-6774.	1.6	1,442
75	Radial Coulomb and oscillator systems in arbitrary dimensions. Journal of Mathematical Physics, 1996, 37, 2166-2181.	0.5	28
76	CPT, strings, and meson factories. Physical Review D, 1995, 51, 3923-3935.	1.6	427
77	No more spacetime singularities?. General Relativity and Gravitation, 1994, 26, 7-12.	0.7	1
78	SUPERSYMMETRY, COHERENT STATES, AND SQUEEZED STATES FOR RYDBERG ATOMS. , 1994, , .		1
79	NULL EXPERIMENTS FOR NEUTRINO MASSES. Modern Physics Letters A, 1992, 07, 467-476.	0.5	24
80	CPT and strings. Nuclear Physics B, 1991, 359, 545-570.	0.9	513
81	Spontaneous breaking of Lorentz symmetry in string theory. Physical Review D, 1989, 39, 683-685.	1.6	1,141