

Zurab G Berezghiani

List of Publications by Year in descending order

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111
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61984

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111
docs citations

111
times ranked

1985
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron-Mirror Neutron Oscillations in Absorbing Matter. <i>Symmetry</i> , 2022, 14, 230.	2.2	7
2	Improved Search for Neutron to Mirror-Neutron Oscillations in the Presence of Mirror Magnetic Fields with a Dedicated Apparatus at the PSI UCN Source. <i>Symmetry</i> , 2022, 14, 503.	2.2	13
3	Antistars or Antimatter Cores in Mirror Neutron Stars?. <i>Universe</i> , 2022, 8, 313.	2.5	4
4	A possible shortcut for neutron \leftrightarrow antineutron oscillation through mirror world. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	11
5	New high-sensitivity searches for neutrons converting into antineutrons and/or sterile neutrons at the HIBEAM/NNBAR experiment at the European Spallation Source. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 070501.	3.6	33
6	Are the CKM anomalies induced by vector-like quarks? Limits from flavor changing and Standard Model precision tests. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	23
7	Neutron-mirror neutron mixing and neutron stars. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	24
8	The CKM unitarity problem: a trace of new physics at the TeV scale?. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	76
9	On the Neutron Transition Magnetic Moment. <i>Physics</i> , 2019, 1, 271-289.	1.4	11
10	Neutron \leftrightarrow antineutron oscillations: Discrete symmetries and quark operators. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 788, 58-64.	4.1	17
11	Neutron lifetime puzzle and neutron \leftrightarrow mirror neutron oscillation. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	55
12	How light the lepton flavor changing gauge bosons can be. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	11
13	Neutron lifetime and dark decay of the neutron and hydrogen. <i>Letters in High Energy Physics</i> , 2019, 2, .	1.0	27
14	Neutron \leftrightarrow antineutron oscillation and discrete symmetries. <i>International Journal of Modern Physics A</i> , 2018, 33, 1844016.	1.5	10
15	Matter, dark matter, and antimatter in our Universe. <i>International Journal of Modern Physics A</i> , 2018, 33, 1844034.	1.5	14
16	New experimental limits on neutron \leftrightarrow mirror neutron oscillations in the presence of mirror magnetic field. <i>European Physical Journal C</i> , 2018, 78, 1.	3.9	34
17	Neutron disappearance and regeneration from a mirror state. <i>Physical Review D</i> , 2017, 96, .	4.7	28
18	DAMA annual modulation and mirror Dark Matter. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	48

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19	Gauged $B-L$ number and neutron-antineutron oscillation: long-range forces mediated by baryophotons. European Physical Journal C, 2017, 77, 1.	3.9	19
20	High Energy Neutrinos from Dark Matter Decay. , 2017, , .		0
21	Neutron-antineutron oscillation and baryonic majoron: low scale spontaneous baryon violation. European Physical Journal C, 2016, 76, 1.	3.9	41
22	Neutron-antineutron oscillations: Theoretical status and experimental prospects. Physics Reports, 2016, 612, 1-45.	25.6	138
23	Reconciling Planck results with low redshift astronomical measurements. Physical Review D, 2015, 92, .	4.7	83
24	Chances for SUSY-GUT in the LHC Epoch. Journal of High Energy Physics, 2015, 2015, 1.	4.7	6
25	DAMA annual modulation effect and asymmetric mirror matter. European Physical Journal C, 2015, 75, 1.	3.9	63
26	Shadow dark matter, sterile neutrinos and neutrino events at IceCube. Nuclear and Particle Physics Proceedings, 2015, 265-266, 303-306.	0.5	5
27	Sterile Neutrinos and Leptogenesis of Matter and Dark Matter. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 263-265.	0.4	4
28	Dark matter and generation of galactic magnetic fields. European Physical Journal C, 2013, 73, 1.	3.9	24
29	BBN with light dark matter. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 010-010.	5.4	19
30	SPONTANEOUS BREAKING OF LORENTZ-INVARIANCE AND GRAVITONS AS GOLDSTONE PARTICLES. , 2013, , 58-79.		0
31	Magnetic anomaly in UCN trapping: signal for neutron oscillations to parallel world?. European Physical Journal C, 2012, 72, 1.	3.9	43
32	Neutron oscillations to parallel world: earlier end to the cosmic ray spectrum?. European Physical Journal C, 2012, 72, 1.	3.9	30
33	Mirror matter, mirror gravity and galactic rotational curves. European Physical Journal C, 2010, 70, 305-316.	3.9	22
34	Gravity modification with Yukawa-type potential: dark matter and mirror gravity. Journal of High Energy Physics, 2009, 2009, 083-083.	4.7	35
35	Cosmological bounds on the $\tilde{\chi}^0$ charges of mirror particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 276-281.	4.1	46
36	More about neutron-antineutron oscillation. European Physical Journal C, 2009, 64, 421.	3.9	64

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37	Unified picture of ordinary and dark matter genesis. European Physical Journal: Special Topics, 2008, 163, 271-289.	2.6	51
38	Exact spherically symmetric solutions in massive gravity. Journal of High Energy Physics, 2008, 2008, 130-130.	4.7	53
39	Spontaneous Lorentz Breaking and Massive Gravity. Physical Review Letters, 2007, 99, 131101.	7.8	85
40	Marriage between the baryonic and dark matters. AIP Conference Proceedings, 2006, , .	0.4	14
41	Evolutionary and structural properties of mirror star MACHOs. Astroparticle Physics, 2006, 24, 495-510.	4.3	66
42	Fast neutronâ€“mirror neutron oscillation and ultra high energy cosmic rays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 635, 253-259.	4.1	66
43	Soft SUSY breaking contributions to proton decay. Journal of High Energy Physics, 2006, 2006, 030-030.	4.7	4
44	Supersymmetric SO(10) for fermion masses and mixings: rank-1 structures of flavour. Journal of High Energy Physics, 2006, 2006, 041-041.	4.7	18
45	Double Protection of the Higgs Potential in a Supersymmetric Little Higgs Model. Physical Review Letters, 2006, 96, 031801.	7.8	44
46	Neutronâ€“Mirror-Neutron Oscillations: How Fast Might They Be?. Physical Review Letters, 2006, 96, 081801.	7.8	123
47	Gravitational wave bursts induced by r-mode spin-down of hybrid stars. Astronomy and Astrophysics, 2006, 445, 1053-1060.	5.1	3
48	STRUCTURE FORMATION WITH MIRROR DARK MATTER: CMB AND LSS. International Journal of Modern Physics D, 2005, 14, 107-119.	2.1	126
49	THROUGH THE LOOKING-GLASS: ALICE'S ADVENTURES IN MIRROR WORLD. , 2005, , 2147-2195.		31
50	MIRROR WORLD AND ITS COSMOLOGICAL CONSEQUENCES. International Journal of Modern Physics A, 2004, 19, 3775-3806.	1.5	162
51	Generation of large scale magnetic fields at recombination epoch. Astroparticle Physics, 2004, 21, 59-69.	4.3	50
52	Gammaâ€“Ray Bursts from Delayed Collapse of Neutron Stars to Quark Matter Stars. Astrophysical Journal, 2003, 586, 1250-1253.	4.5	155
53	Probing non-standard couplings of neutrinos at the Borexino detector. Nuclear Physics B, 2002, 638, 62-80.	2.5	44
54	Baryon Asymmetry, Dark Matter and the Hidden Sector. Fortschritte Der Physik, 2002, 50, 489-495.	4.4	36

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55	Limits on the non-standard interactions of neutrinos from e^+e^- colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 535, 207-218.	4.1	125
56	On the deconstruction of time. JETP Letters, 2002, 75, 530-533.	1.4	3
57	Gamma Ray Bursts from delayed quark-deconfinement phase transition in neutron stars. Nuclear Physics, Section B, Proceedings Supplements, 2002, 113, 268-274.	0.4	23
58	Predictive grand unified textures for quark and neutrino masses and mixings. Nuclear Physics B, 2001, 594, 113-168.	2.5	71
59	Strong CP problem and mirror world: the Weinberg-Wilczek axion revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 286-296.	4.1	121
60	The early mirror universe: inflation, baryogenesis, nucleosynthesis and dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 362-375.	4.1	206
61	Vanishing of cosmological constant and fully localized gravity in a brane world with extra time(s). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 387-396.	4.1	11
62	Affleck-Dine leptogenesis via right-handed sneutrino fields in a supersymmetric hybrid inflation model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 518, 282-293.	4.1	17
63	TeV scale unification in four dimensions versus extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 522, 107-116.	4.1	20
64	Flavor structure, flavor symmetry and supersymmetry. Nuclear Physics, Section B, Proceedings Supplements, 2001, 101, 410-420.	0.4	31
65	Blocking active-sterile neutrino oscillations in the early universe with a Majoron field. Physical Review D, 2001, 64, .	4.7	28
66	Leptogenesis via Collisions: Leaking Lepton Number to the Hidden Sector. Physical Review Letters, 2001, 87, 231304.	7.8	111
67	Towards a grand unified picture for neutrino and quark mixings. Nuclear Physics, Section B, Proceedings Supplements, 2000, 81, 346-350.	0.4	2
68	Gamma ray bursts via emission of axion-like particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 473, 281-290.	4.1	31
69	Classical Nambu-Goldstone fields. Physical Review D, 2000, 62, .	4.7	4
70	Grand unified textures for neutrino and quark mixings. Journal of High Energy Physics, 1999, 1999, 002-002.	4.7	60
71	Flavor violation in theories with TeV scale quantum gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 24-33.	4.1	48
72	Unified picture of the particle and sparticle masses in SUSY GUT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 417, 287-296.	4.1	70

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73	Field evolution leading to hybrid inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 431, 286-294.	4.1	14
74	Weak mixing angles as dynamical degrees of freedom. Nuclear Physics B, 1997, 484, 97-123.	2.5	29
75	The high-2 HERA anomaly and supersymmetric unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 407, 250-254.	4.1	33
76	Problem of flavour in SUSY GUT and horizontal symmetry. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 153-158.	0.4	10
77	More missing VEV mechanism in supersymmetric SO(10) model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 220-228.	4.1	62
78	Just-so oscillation: as just as MSW?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 367, 219-225.	4.1	29
79	Asymmetric inflationary reheating and the nature of mirror universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 375, 26-36.	4.1	266
80	Predictive SUSY SO(10) model with very low $\tan \hat{\beta}^2$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 178-186.	4.1	22
81	SUSY SU(6): GIFT for doublet-triplet splitting and fermion masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 481-491.	4.1	47
82	Realistic SUSY model with four fermion families, natural R parity and $\hat{M}_{1/2}$, in the eV range. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 355, 199-208.	4.1	11
83	Reconciling present neutrino puzzles: Sterile neutrinos as mirror neutrinos. Physical Review D, 1995, 52, 6607-6611.	4.7	250
84	Vacuum oscillation solution to the solar neutrino problem in standard and nonstandard pictures. Physical Review D, 1995, 51, 5229-5239.	4.7	26
85	Natural R parity conservation with horizontal symmetries: A four generation model. Physical Review D, 1995, 52, 3087-3099.	4.7	8
86	Could the supersymmetric Higgs particles naturally be pseudo-Goldstone bosons?. Nuclear Physics B, 1995, 444, 61-91.	2.5	67
87	Majoron decay in matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 336, 439-445.	4.1	12
88	Testing neutrino decay in matter. Nuclear Physics, Section B, Proceedings Supplements, 1994, 35, 469-470.	0.4	3
89	Flavour in supersymmetric Grand Unification: A democratic approach. Nuclear Physics B, 1994, 432, 49-67.	2.5	66
90	Matter induced neutrino decay and solar antineutrinos. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 423-428.	1.5	13

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91	Planck scale effects on the majoron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 299, 90-93.	4.1	79
92	17 keV neutrino and large magnetic moment solution of the solar neutrino puzzle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 391-396.	4.1	2
93	Inverse hierarchy approach to fermion masses. Nuclear Physics B, 1993, 407, 249-270.	2.5	23
94	Planck-scale physics and solutions to the strong CP problem without the axion. Physical Review D, 1993, 47, 5565-5570.	4.7	19
95	Planck scale effects in neutrino physics. Physical Review D, 1993, 47, 3245-3253.	4.7	36
96	Fritzsch-like model for the quark mass matrices with a large first-generation–third-generation mixing. Physical Review D, 1992, 45, 934-945.	4.7	3
97	Fast neutrino decay and solar neutrino detectors. Zeitschrift für Physik C-Particles and Fields, 1992, 54, 581-586.	1.5	41
98	Planck-scale physics and neutrino masses. Physical Review Letters, 1992, 69, 3013-3016.	7.8	146
99	Implications of Majorana neutrino transition magnetic moments for neutrino signals from supernovae. Nuclear Physics B, 1992, 373, 479-497.	2.5	33
100	Observable majoron emission in neutrinoless double beta decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 291, 99-105.	4.1	77
101	Universal seesaw and radiative quark mass hierarchy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 279, 124-130.	4.1	44
102	Cosmology of spontaneously broken gauge family symmetry with axion solution of strong CP-problem. Zeitschrift für Physik C-Particles and Fields, 1991, 49, 73-78.	1.5	137
103	Neutrino oscillations and magnetic moment transitions in a model with a conserved lepton number. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 381-388.	4.1	3
104	ON THE POSSIBILITY OF A SOLUTION TO THE STRONG CP-PROBLEM WITHOUT AXION IN A SU(3) _H FAMILY SYMMETRY MODEL. Modern Physics Letters A, 1991, 06, 2437-2442.	1.2	7
105	Matter-induced neutrino decay and supernova 1987A. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 220, 279-284.	4.1	54
106	Neutrino decay in matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 281-285.	4.1	59
107	Horizontal symmetry and quark-lepton mass spectrum: The SU(5) × SU(3) _H model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 150, 177-181.	4.1	116
108	Could neutrinos with masses of a few keV be shortlived?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 349-353.	4.1	10

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109	Horizontal symmetry: masses and mixing angles of quarks and leptons of different generations; neutrino mass and neutrino oscillation. Uspekhi Fizicheskikh Nauk, 1985, 28, 104-105.	0.3	6
110	The weak mixing angles in gauge models with horizontal symmetry " A new approach to quark and lepton masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 129, 99-102.	4.1	169
111	Baryon Asymmetry, Dark Matter and the Hidden Sector. , 0, , 60-66.		0