Bhupal Dev

List of Publications by Year
in descending order

126	6,842	36303 51	64796 79
papers	citations	h-index	g-index

133	133	133	6684
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201.	20.1	496
2	Neutrinos and collider physics. New Journal of Physics, 2015, 17, 075019.	2.9	381
3	A White Paper on keV sterile neutrino Dark Matter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 025-025.	5.4	256
4	Long-lived particles at the energy frontier: the MATHUSLA physics case. Reports on Progress in Physics, 2019, 82, 116201.	20.1	220
5	Maximally symmetric two Higgs doublet model with natural standard model alignment. Journal of High Energy Physics, 2014, 2014, 1.	4.7	164
6	Flavour covariant transport equations: An application to resonant leptogenesis. Nuclear Physics B, 2014, 886, 569-664.	2.5	143
7	TeV scale inverse seesaw model in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 497 Td (stretchy="false"	4.7	141
8	Direct bounds on electroweak scale pseudo-Dirac neutrinos from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>8</mml:mn><mml:mtext>Â</mm LHC data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 364-370.	4.1	134
9	display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>R</mml:mi></mml:mrow><mml:mrow><mml:msup><mml:mrow> stretchy="false">(</mml:mo><mml:mo>*</mml:mo><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (stretchy="false"> anomaly: A possible hint for natural supersymmetry with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml: Physic	4.7	131
10	Minimal radiative neutrino mass mechanism for inverse seesaw models. Physical Review D, 2012, 86, .	4.7	128
11	New Production Mechanism for Heavy Neutrinos at the LHC. Physical Review Letters, 2014, 112, .	7.8	123
12	Lepton flavor violating Zâ€² explanation of the muon anomalous magnetic moment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 389-398.	4.1	121
13	Neutrinoless double beta decay versus other probes of heavy sterile neutrinos. Journal of High Energy Physics, 2020, 2020, 1.	4.7	109
14	Unified Explanation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>e</mml:mi><mml:mi>e</mml:mi><mml:mi>j</mml:mi><mml:mi>j</mml:mi></mml:mrow></mm Diboson, and Dijet Resonances at the LHC. Physical Review Letters, 2015, 115, 181803.	7.8	105
15	Natural TeV-scale left-right seesaw mechanism for neutrinos and experimental tests. Physical Review D, 2013, 88, .	4.7	95
16	Non-standard interactions in radiative neutrino mass models. Journal of High Energy Physics, 2020, 2020, 1.	4.7	90
17	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>and proton lifetime in a minimal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo mathvariant="bold") Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 8 mathvariant="bold">Ã—</mml:mo><mml:msub><mml:mi>S</mml:m	4.7	89
18	Probing the scale of new physics by Advanced LIGO/VIRGO. Physical Review D, 2016, 93, .	4.7	89

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19	Naturalness of light neutralino dark matter in pMSSM after LHC, XENON100 and Planck data. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
20	Probing the Higgs sector of the minimal Left-Right symmetric model at future hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	77
21	Prospects of heavy neutrino searches at future lepton colliders. Physical Review D, 2015, 92, .	4.7	76
22	Determining the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>Properties of the Higgs Boson. Physical Review Letters, 2008, 100, 051801.	7.8	73
23	Constraining neutrino mass from neutrinoless double beta decay. Physical Review D, 2013, 88, .	4.7	72
24	Probing heavy-light neutrino mixing in left-right seesaw models at the LHC. Physical Review D, 2013, 88, .	4.7	72
25	Quark seesaw, vectorlike fermions and diphoton excess. Journal of High Energy Physics, 2016, 2016, 1.	4.7	72
26	Kadanoffâ€“Baym approach to flavour mixing and oscillations in resonant leptogenesis. Nuclear Physics B, 2015, 891, 128-158.	2.5	69
27	Flavor effects in leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842001.	1.5	69
28	Probing leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842005.	1.5	69
29	Heavy right-handed neutrino dark matter and PeV neutrinos at IceCube. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 034-034.	5.4	68
30	Resonant enhancement in leptogenesis. International Journal of Modern Physics A, 2018, 33, 1842003.	1.5	67
31	125 GeV Higgs boson and the type-II seesaw model. Journal of High Energy Physics, 2013, 2013, 1.	4.7	66
32	TeV-scale left-right symmetry and large mixing effects in neutrinoless double beta decay. Physical Review D, 2015, 91, .	4.7	66
33	Naturalness, vacuum stability, and leptogenesis in the minimal seesaw model. Physical Review D, 2017, 95, .	4.7	66
34	TeV scale leptogenesis, inflaton dark matter, and neutrino mass in a scotogenic model. Physical Review D, 2019, 99, .	4.7	66
35	Sneutrino Dark Matter in Gauged Inverse Seesaw Models for Neutrinos. Physical Review Letters, 2012, 108, 081806.	7.8	65
36	Light and superlight sterile neutrinos in the minimal radiative inverse seesaw model. Physical Review D, 2013, 87, .	4.7	65

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37	Unified framework for B-anomalies, muon g â^' 2 and neutrino masses. Journal of High Energy Physics, 2021, 2021, 1.	4.7	64
38	Same sign versus opposite sign dileptons as a probe of low scale seesaw mechanisms. Physical Review D, 2018, 97, .	4.7	60
39	Long lived light scalars as probe of low scale seesaw models. Nuclear Physics B, 2017, 923, 179-221.	2.5	59
40	Displaced vertex signatures of doubly charged scalars in the type-II seesaw and its left-right extensions. Journal of High Energy Physics, 2018, 2018, 1.	4.7	59
41	Gravitational waves from first-order phase transition in a simple axion-like particle model. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 006-006.	5.4	59
42	Bounds on TeV seesaw models from LHC Higgs data. Physical Review D, 2012, 86, .	4.7	58
43	Multilepton collider signatures of heavy Dirac and Majorana neutrinos. Physical Review D, 2012, 85, .	4.7	56
44	Addressing <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">R</mml:mi></mml:mrow><mml:mrow><mml:mi>D</mml:mi><mml:mo mathvariant="bold" stretchy="false">(</mml:mo><mml:mo>*</mml:mo><mml:mo mathvariant="bold") Tj ETQq0 0 0 rgBT /Overlock 10	4.7	56
45	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:m Neutrino non-standard interactions: A status report. SciPost Physics Proceedings, 2019, , .	0.4	56
46	Leptogenesis with TeV-scale inverse seesaw model in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 367 Td (stretchy="false">)</mml	4.7	55
47	Post-sphaleron baryogenesis and an upper limit on the neutron-antineutron oscillation time. Physical Review D, 2013, 87, .	4.7	54
48	Two-component flux explanation for the high energy neutrino events at IceCube. Physical Review D, 2015, 92, .	4.7	54
49	Constraining sterile neutrinos from precision Higgs data. Physical Review D, 2017, 95, .	4.7	52
50	Long-lived TeV-scale right-handed neutrino production at the LHC in gauged U(1) model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 799, 135052.	4.1	51
51	Disambiguating seesaw models using invariant mass variables at hadron colliders. Journal of High Energy Physics, 2016, 2016, 1.	4.7	50
52	Standard model explanation of the ultrahigh energy neutrino events at IceCube. Physical Review D, 2014, 89, .	4.7	48
53	Multiple dark matter scenarios from ubiquitous stringy throats. Physical Review D, 2013, 87, .	4.7	47
54	Gravitational waves as a new probe of Boseâ€“Einstein condensate Dark Matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 219-224.	4.1	47

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55	TeV scale model for baryon and lepton number violation and resonant baryogenesis. Physical Review D, 2015, 92, .	4.7	46
56	Neutrino mass and dark matter in light of recent AMS-02 results. Physical Review D, 2014, 89, .	4.7	44
57	Neutrino nonstandard interactions via light scalars in the Earth, Sun, supernovae, and the early Universe. Physical Review D, 2020, 101, .	4.7	42
58	Neutrino mixings in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (stretchy="false">)</mml xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>. Physi	4.7	41
59	Fast radio bursts from axion stars moving through pulsar magnetospheres. Physical Review D, 2021, 103, .	4.7	41
60	Neutrino mass hierarchy, neutron-antineutron oscillation from baryogenesis. Physical Review D, 2009, 79, .	4.7	40
61	A combined astrophysical and dark matter interpretation of the IceCube HESE and throughgoing muon events. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	40
62	Lepton Flavor Violation Induced by a Neutral Scalar at Future Lepton Colliders. Physical Review Letters, 2018, 120, 221804.	7.8	39
63	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math> -parity violating supersymmetric explanation of the anomalous events at ANITA. Physical Review D, 2019, 99, .	4.7	39
64	Constraints on long-lived light scalars with flavor-changing couplings and the KOTO anomaly. Physical Review D, 2020, 101, .	4.7	39
65	Doubly-charged scalars in the type II seesaw mechanism: Fundamental symmetry tests and high-energy searches. Physical Review D, 2018, 98, .	4.7	38
66	Revisiting supernova constraints on a light CP-even scalar. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 003-003.	5.4	38
67	Implications of purely classical gravity for inflationary tensor modes. Modern Physics Letters A, 2014, 29, 1450163.	1.2	37
68	Naturally stable right-handed neutrino dark matter. Journal of High Energy Physics, 2016, 2016, 1.	4.7	36
69	Invisible Higgs decay in a supersymmetric inverse seesaw model with light sneutrino dark matter. Journal of High Energy Physics, 2013, 2013, 1.	4.7	35
70	Naturalness in testable type II seesaw scenarios. Nuclear Physics B, 2017, 921, 436-453.	2.5	35
71	Unified explanation of flavor anomalies, radiative neutrino masses, and ANITA anomalous events in a vector leptoquark model. Physical Review D, 2020, 102, .	4.7	35
72	Leptogenesis constraints on the mass of right-handed gauge bosons. Physical Review D, 2014, 90, .	4.7	34

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73	Displaced photon signal from a possible light scalar in minimal left-right seesaw model. Physical Review D, 2017, 95, .	4.7	34
74	Asymmetric dark matter in the Sun and diphoton excess at the LHC. Physical Review D, 2016, 94, .	4.7	33
75	A simple testable model of baryon number violation: Baryogenesis, dark matter, neutronâ€“antineutron oscillation and collider signals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 262-268.	4.1	32
76	Constraining non-thermal and thermal properties of Dark Matter. Frontiers in Physics, 2014, 2, .	2.1	31
77	R-parity violating supersymmetry at IceCube. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 116-123.	4.1	30
78	Leptogenesis constraints on B â^' L breaking Higgs boson in TeV scale seesaw models. Journal of High Energy Physics, 2018, 2018, 1.	4.7	30
79	TeV Scale Lepton Number Violation and Baryogenesis. Journal of Physics: Conference Series, 2015, 631, 012007.	0.4	29
80	750ÂGeV diphoton excess explained by a resonant sneutrino inR-parity violating supersymmetry. Physical Review D, 2016, 93, .	4.7	27
81	MUonE sensitivity to new physics explanations of the muon anomalous magnetic moment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
82	Electroweak symmetry breaking and proton decay in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (stretchy="false">)</mml xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>W</mml:mi>	4.7	26
83	Implications of the diboson excess for neutrinoless double beta decay and lepton flavor violation in TeV scale left-right symmetric model. Physical Review D, 2016, 93, .	4.7	24
84	The scalar triplet contribution to lepton flavour violation and neutrinoless double beta decay in Left-Right Symmetric Model. Journal of High Energy Physics, 2016, 2016, 1-28.	4.7	24
85	Model-independent astrophysical constraints on leptophilic Dark Matter in the framework of Tsallis statistics. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 032-032.	5.4	23
86	Phenomenology of light sneutrino dark matter in cMSSM/mSUGRA with inverse seesaw. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
87	Perturbativity constraints on U(1)Bâ^'L and left-right models and implications for heavy gauge boson searches. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22
88	Heavy right-handed neutrino dark matter in leftâ€“right models. Modern Physics Letters A, 2017, 32, 1740007.	1.2	21
89	Probing TeV scale origin of neutrino mass at future lepton colliders via neutral and doubly-charged scalars. Physical Review D, 2018, 98, .	4.7	21
90	Leptonic scalars at the LHC. Journal of High Energy Physics, 2020, 2020, 1.	4.7	18

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91	Impact of improved energy resolution on DUNE sensitivity to neutrino non-standard interactions. Journal of High Energy Physics, 2021, 2021, 1.	4.7	16
92	Zee-Burst: A New Probe of Neutrino Nonstandard Interactions at IceCube. Physical Review Letters, 2020, 124, 041805.	7.8	15
93	CP violating effects in heavy neutrino oscillations: implications for colliders and leptogenesis. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
94	Probing left-right seesaw models using beam polarization at an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo>â collider. Physical Review D, 2017, 95, .	4.7	14
95	Vacuum structure of the left-right symmetric model. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
96	New mechanism for matter-antimatter asymmetry and connection with dark matter. Physical Review D, 2020, 102, .	4.7	14
97	Natural Alignment in the Two Higgs Doublet Model. Journal of Physics: Conference Series, 2017, 873, 012008.	0.4	13
98	Doubly-charged Higgs boson at a future electron-proton collider. Physical Review D, 2019, 99, .	4.7	12
99	ATLAS diboson excess could be anR-parity violating dismuon excess. Physical Review D, 2016, 93, .	4.7	11
100	Vacuum stability in inert higgs doublet model with right-handed neutrinos. Journal of High Energy Physics, 2020, 2020, 1.	4.7	11
101	Probing the minimal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:msub><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 387 Td (stre electron-positron colliders via fermion pair production channels. Physical Review D, 2022, 105, .	4.7	10
102	Light, long-lived B â" L gauge and Higgs bosons at the DUNE near detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	10
103	Stellar limits on light CP-even scalar. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 014.	5.4	9
104	Leptonic scalars and collider signatures in a UV-complete model. Journal of High Energy Physics, 2022, 2022, 1.	4.7	9
105	Hints of natural supersymmetry in flavor anomalies?. Physical Review D, 2022, 106, .	4.7	9
106	Natural Standard Model Alignment in the Two Higgs Doublet Model. Journal of Physics: Conference Series, 2015, 631, 012030.	0.4	8
107	Light scalars in neutron star mergers. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 006.	5.4	8
108	Flavour effects in Resonant Leptogenesis from semi-classical and Kadanoff-Baym approaches. Journal of Physics: Conference Series, 2015, 631, 012087.	0.4	7

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109	Searching for Zâ€² bosons at the P2 experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
110	New interference effects from light gauge bosons in neutrino-electron scattering. Physical Review D, 2021, 104, .	4.7	7
111	TeV-Scale Leptogenesis. Springer Proceedings in Physics, 2016, , 245-253.	0.2	6
112	Neutrinoless double beta decay via light neutralinos in R-parity violating supersymmetry. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
113	Predictive Dirac and Majorana neutrino mass textures from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>6</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> grand unified theories. Physical Review D, 2020, 102, .	4.7	5
114	PASSAT at future neutrino experiments: Hybrid beam-dump-helioscope facilities to probe light axionlike particles. Physical Review D, 2021, 104, .	4.7	4
115	Probing neutrino mass models through resonances at neutrino telescopes. International Journal of Modern Physics A, 2022, 37, .	1.5	4
116	Expectations for neutron-antineutron oscillation time from TeV scale baryogenesis. , 2013, , .		2
117	Searching for new physics from SMEFT and leptoquarks at the P2 experiment. Physical Review D, 2022, 105, .	4.7	2
118	Maximally symmetric two Higgs doublet model with natural standard model alignment. , 2014, 2014, 1.		1
119	Signatures of Supersymmetry in Neutrino Telescopes. , 2020, , 317-352.		1
120	Erratum 2: Phenomenology of light sneutrino dark matter in cMSSM/mSUGRA with inverse seesaw. Journal of High Energy Physics, 2013, 2013, 1.	4.7	0
121	Right-handed neutrino dark matter in left-right symmetric models. Journal of Physics: Conference Series, 2017, 873, 012029.	0.4	0
122	Perturbativity Constraints on $$U(1)_{B-L}$$ and Left-Right Models. Springer Proceedings in Physics, 2021, , 401-407.	0.2	0
123	Testing Neutrino Mass Models at the LHC and beyond. , 2017, , .		0
124	LHC-13 and Neutrinos. , 2018, , .		0
125	Baryogenesis and Leptogenesis. Springer Proceedings in Physics, 2019, , 301-308.	0.2	0
126	Lepton flavor violation induced by a neutral scalar at future lepton colliders. , 2019, , .		0