

Nobel Lecture: The Sudbury Neutrino Observatory: Observing neutrinos

Reviews of Modern Physics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Efficient numerical integration of neutrino oscillations in matter. Physical Review D, 2016, 94, .	1.6	3
2	Nobel Lecture: Discovery of atmospheric neutrino oscillations. Reviews of Modern Physics, 2016, 88, .	16.4	167
3	Systematic uncertainties in long-baseline neutrino-oscillation experiments. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054001.	1.4	30
4	Solar neutrino spectroscopy. Physics Reports, 2017, 685, 1-52.	10.3	12
5	Symmetric formulation of neutrino oscillations in matter and its intrinsic connection to renormalization-group equations. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 044006.	1.4	12
6	Alternative schemes of predicting lepton mixing parameters from discrete flavor and CP symmetry. Physical Review D, 2017, 95, .	1.6	24
7	Discovery probability of next-generation neutrinoless double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ decay experiments. Physical Review D, 2017, 96, .	1.6	85
8	Introduction to Neutrino Oscillation. Springer Theses, 2017, , 5-29.	0.0	0
9	Naturalness, vacuum stability, and leptogenesis in the minimal seesaw model. Physical Review D, 2017, 95, .	1.6	66
10	Probing atmospheric mixing and leptonic CP violation in current and future long baseline oscillation experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 524-531.	1.5	21
11	Predictive Pati-Salam theory of fermion masses and mixing. Journal of High Energy Physics, 2017, 2017, 1.	1.6	26
12	Probing CP violation with non-unitary mixing in long-baseline neutrino oscillation experiments: DUNE as a case study. New Journal of Physics, 2017, 19, 093005.	1.2	64
13	Matter-parity as a residual gauge symmetry: Probing a theory of cosmological dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 825-831.	1.5	43
14	Probing direct and indirect unitarity violation in future accelerator neutrino facilities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 217-224.	1.5	24
15	Nuclear structure and weak probes. AIP Conference Proceedings, 2017, , .	0.3	0
16	Towards gauge coupling unification in left-right symmetric $SU(3)_C \times SU(3)_L \times SU(3)_R \times U(1)_X$ theories. Physical Review D, 2017, 96, .	1.6	18
17	Overview on Neutrino Theory and Phenomenology. Nuclear and Particle Physics Proceedings, 2017, 287-288, 127-132.	0.2	0
18	Relativistic N-body simulations with massive neutrinos. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 004-004.	1.9	54

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19	Probing light sterile neutrino signatures at reactor and Spallation Neutron Source neutrino experiments. <i>Physical Review D</i> , 2017, 96, .	1.6	55
20	Implications of residual C P symmetry for leptogenesis in a model with two right-handed neutrinos. <i>Physical Review D</i> , 2017, 96, .	1.6	16
21	Resolving the atmospheric octant by an improved measurement of the reactor angle. <i>Physical Review D</i> , 2017, 96, .	1.6	7
22	Broken S_{3L} — S_{3R} flavor symmetry and leptonic CP violation. <i>Chinese Physics C</i> , 2017, 41, 113105.	1.5	5
23	Heavy Higgs boson production at colliders in the singlet-triplet scotogenic dark matter model. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	15
24	Neutrino oscillations: status and prospects of accelerator and reactor experiments. <i>Journal of Physics: Conference Series</i> , 2017, 934, 012001.	0.3	1
25	Weyl and Dirac semimetals in three-dimensional solids. <i>Reviews of Modern Physics</i> , 2018, 90, .	16.4	3,031
26	Study of oscillations with accelerator and reactor neutrinos. <i>EPJ Web of Conferences</i> , 2018, 191, 01001.	0.1	0
27	Systematic analysis of Dirac neutrino masses from a dimension five operator. <i>Physical Review D</i> , 2018, 97, .	1.6	33
28	Felsenkeller 5 MV underground accelerator: Towards the Holy Grail of Nuclear Astrophysics $\langle \sup 12 \rangle C(\langle i \rangle \pm, \langle i \rangle \sup 16 \rangle O$. <i>EPJ Web of Conferences</i> , 2018, 178, 01008.	0.1	2
29	Neutrino masses and their ordering: global data, priors and models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 011-011.	1.9	74
30	Berry curvature force and Lorentz force comparison in the magnetotransport of Weyl semimetals. <i>Physical Review B</i> , 2018, 98, .	1.1	17
31	Decaying warm dark matter and structure formation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	1.9	11
32	Zooming in on neutrino oscillations with DUNE. <i>Physical Review D</i> , 2018, 97, .	1.6	19
33	IceCube bounds on sterile neutrinos above 10 eV. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	15
34	Natural and dynamical neutrino mass mechanism at the LHC. <i>Physical Review D</i> , 2018, 98, .	1.6	1
35	Investigation of dark matter in the 3-2-3-1 model. <i>Physical Review D</i> , 2018, 98, .	1.6	9
36	New light Higgs boson and short-baseline neutrino anomalies. <i>Physical Review D</i> , 2018, 97, .	1.6	25

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37	Current unknowns in the three-neutrino framework. Progress in Particle and Nuclear Physics, 2018, 102, 48-72.	5.6	184
38	Search for neutrinoless \hat{I}^2 +EC decay of Te120 with CUORE-0. Physical Review C, 2018, 97, .	1.1	15
39	Matter effects on the flavor conversions of solar neutrinos and high-energy astrophysical neutrinos. Nuclear Physics B, 2018, 931, 324-341.	0.9	7
40	Status of neutrino oscillations 2018: 3 σ hint for normal mass ordering and improved CP sensitivity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 633-640.	1.5	454
41	Neutrino predictions from generalized CP symmetries of charged leptons. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
42	Testing a lepton quarticity flavor theory of neutrino oscillations with the DUNE experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 459-463.	1.5	20
43	Seesaw roadmap to neutrino mass and dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 122-128.	1.5	63
44	CP symmetries as guiding posts: revamping tri-bi-maximal mixing. Part I. Journal of High Energy Physics, 2019, 2019, 1.	1.6	7
45	Neutrinoless Double-Beta Decay: Status and Prospects. Annual Review of Nuclear and Particle Science, 2019, 69, 219-251.	3.5	335
46	Testing generalized $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ symmetries with precision studies at DUNE. Physical Review D, 2019, 99, .	1.6	12
47	Probing neutrino transition magnetic moments with coherent elastic neutrino-nucleus scattering. Journal of High Energy Physics, 2019, 2019, 1.	1.6	55
48	Sub-GeV Atmospheric Neutrinos and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Violation in DUNE. Physical Review Letters, 2019, 123, 081801.	2.9	30
49	Spin-independent two-neutrino exchange potential with mixing and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle C \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ violation. Physical Review D, 2019, 99, .	1.6	10
50	New results and perspectives in neutrino physics. EPJ Web of Conferences, 2019, 212, 01005.	0.1	0
51	Kinetic mixing effect in noncommutative $B \hat{a}^{\wedge} L$ gauge theory. Journal of High Energy Physics, 2019, 2019, 1.	1.6	4
52	Simplest scoto-seesaw mechanism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 132-136.	1.5	24
53	Cosmological measurements from angular power spectra analysis of BOSS DR12 tomography. Monthly Notices of the Royal Astronomical Society, 2019, 485, 326-355.	1.6	44
54	Flavor changing in the flipped trinification. Physical Review D, 2019, 99, .	1.6	7

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55	Electroweak breaking and Higgs boson profile in the simplest linear seesaw model. Journal of High Energy Physics, 2019, 2019, 1. Lepton scattering from $\langle \text{mml:math} \rangle$	1.6	7
56	$\langle \text{mml:math} \rangle$ and $\langle \text{mml:math} \rangle$ in the quasielastic peak region. Physical Review C, 2019, 100, .	1.1	26
57	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. Physica Scripta, 2019, 94, 033001.	1.2	79
58	Standard versus non-standard CP phases in neutrino oscillation in matter with non-unitarity. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	14
59	Physics of parameter correlations around the solar-scale enhancement in neutrino theory with unitarity violation. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	7
60	Experimental evidence of neutrinos produced in the CNO fusion cycle in the Sun. Nature, 2020, 587, 577-582.	13.7	137
61	Scotogenic dark matter in an orbifold theory of flavor. Journal of High Energy Physics, 2020, 2020, 1.	1.6	2
62	Gravitational footprints of massive neutrinos and lepton number breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 807, 135577.	1.5	11
63	Scotogenic dark symmetry as a residual subgroup of Standard Model symmetries *. Chinese Physics C, 2020, 44, 083110.	1.5	11
64	Consistency of the dynamical high-scale type-I seesaw mechanism. Physical Review D, 2020, 101, .	1.6	10
65	Asymmetric matter from $B-L$ symmetry breaking. European Physical Journal C, 2020, 80, 1.	1.4	3
66	One-loop Type II seesaw neutrino model with stable dark matter candidates. Nuclear Physics B, 2020, 961, 115219.	0.9	1
67	Predictions from warped flavor dynamics based on the T family group. Physical Review D, 2020, 102, .	1.6	26
68	The Viability of the $3\hat{A}+1\hat{A}$ Neutrino Model in the Supernova Neutrino Process. Astrophysical Journal, 2020, 894, 99.	1.6	4
69	Flavour and CP predictions from orbifold compactification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135195.	1.5	12
70	Probing the predictions of an orbifold theory of flavor. Physical Review D, 2020, 101, .	1.6	7
71	<i>Colloquium</i> : Neutrino detectors as tools for nuclear security. Reviews of Modern Physics, 2020, 92, .	16.4	42
72	Neutrino Oscillations and Lorentz Invariance Violation. Universe, 2020, 6, 37.	0.9	12

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73	Neutron flux and spectrum in the Dresden Felsenkeller underground facility studied by moderated counters. Physical Review D, 2020, 101, . $\langle \text{He} \rangle$	1.6	10
74	Present and Future Contributions of Reactor Experiments to Mass Ordering and Neutrino Oscillation Studies. Universe, 2020, 6, 52.	0.9	7
75	Accurately weighing neutrinos with cosmological surveys. Physical Review D, 2021, 103, .	1.6	14
76	2020 global reassessment of the neutrino oscillation picture. Journal of High Energy Physics, 2021, 2021, 1.	1.6	325
77	Damped neutrino oscillations in a conformal coupling model. Physical Review D, 2021, 103, .	1.6	9
78	Form factors of the nucleon axial current. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136150.	1.5	21
79	Solar structure and evolution. Living Reviews in Solar Physics, 2021, 18, 1.	7.8	49
80	Minimal scoto-seesaw mechanism with spontaneous CP violation. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
81	Measurement of the Decay Half-Life of ^{130}Te . 2.9	2.9	29
82	Trimaximal neutrino mixing from scotogenic A4 family symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 815, 136122.	1.5	6
83	Model independent analysis of Dirac CP violating phase for some well-known mixing scenarios. International Journal of Modern Physics A, 2021, 36, 2150118.	0.5	4
84	Measuring solar neutrinos over gigayear timescales with paleo detectors. Physical Review D, 2021, 103, .	1.6	4
85	IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. Physical Review D, 2021, 104, .	1.6	142
86	Chiral dynamics and Zitterbewegung of Weyl quasiparticles in a magnetic field. New Journal of Physics, 2021, 23, 073031.	1.2	4
87	Dynamical inverse seesaw mechanism as a simple benchmark for electroweak breaking and Higgs boson studies. Journal of High Energy Physics, 2021, 2021, 1.	1.6	6
88	Unruh effect and particle decay. Journal of Physics: Conference Series, 2021, 1956, 012008.	0.3	1
89	CUORE opens the door to tonne-scale cryogenics experiments. Progress in Particle and Nuclear Physics, 2022, 122, 103902.	5.6	16
90	Interaction of supernova neutrinos with stochastic gravitational waves. Physical Review D, 2021, 104, .	1.6	9

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91	Andreev reflection in Fermi-arc surface states of Weyl semimetals. <i>Physical Review B</i> , 2021, 104, .	1.1	7
92	The simplest scoto-seesaw model: WIMP dark matter phenomenology and Higgs vacuum stability. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 819, 136458.	1.5	14
93	Neutrinoless Double Beta Decay with Germanium Detectors: 1026 yr and Beyond. <i>Universe</i> , 2021, 7, 341.	0.9	10
94	Dark matter as the origin of neutrino mass in the inverse seesaw mechanism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 821, 136609.	1.5	13
95	Multicomponent dark matter in noncommutative $B \hat{\sim} L$ gauge theory. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	9
96	Dirac and Majorana neutrino signatures of primordial black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 014-014.	1.9	38
97	Neutrino oscillations from warped flavor symmetry: Predictions for long baseline experiments T2K, NOvA, and DUNE. <i>Physical Review D</i> , 2017, 95, .	1.6	9
98	Testing the inverted neutrino mass ordering with neutrinoless double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ decay. <i>Physical Review C</i> , 2021, 104, .	1.1	15
99	CUDA Support in GNA Data Analysis Framework. <i>Lecture Notes in Computer Science</i> , 2018, , 12-24.	1.0	0
100	Explosive Nucleosynthesis: What We Learned and What We Still Do Not Understand. <i>Springer Proceedings in Physics</i> , 2019, , 125-134.	0.1	2
101	The Electroweak Model and the Significant Role of the Higgs Field. , 2020, , 229-237.		0
102	Massive Neutrinos and How to Search for Them with Cosmological Observations. <i>Springer Theses</i> , 2020, , 65-121.	0.0	0
103	Dynamical screening effects on big bang nucleosynthesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 017.	1.9	5
104	Conductance oscillation in surface junctions of Weyl semimetals. <i>Physical Review B</i> , 2021, 104, .	1.1	2
105	Leptogenesis, fermion masses and mixings in a SUSY SU(5) GUT with D4 flavor symmetry. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	0
106	Nonstandard interactions in hyperons decay with di-neutrinos in the final state. <i>International Journal of Modern Physics A</i> , 2022, 37, .	0.5	0
107	Neutrino Flavor Conversions in High-Density Astrophysical and Cosmological Environments. <i>Universe</i> , 2022, 8, 94.	0.9	32
108	Gauge Origin of Double Dark Parity and Implication for Dark Matter. <i>Communications in Physics</i> , 2022, 32, 101.	0.0	0

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109	Scotogenic Majorana neutrino masses in a predictive orbifold theory of flavor. <i>Physical Review D</i> , 2022, 105, .	1.6	4
110	Non-zero $\hat{\theta}_{13}$ and $\hat{\delta}$ phase with A4 flavor symmetry and deviations to tri-bi-maximal mixing via $Z_2 \times \tilde{A}_5$ invariant perturbations in the neutrino sector. <i>Nuclear Physics B</i> , 2022, 979, 115759.	0.9	2
111	Dark charge versus electric charge. <i>Physical Review D</i> , 2022, 105, .	1.6	2
112	High-energy colliders as a probe of neutrino properties. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 829, 137110.	1.5	5
113	Tau Appearance from High-Energy Neutrino Interactions. <i>Physical Review Letters</i> , 2022, 128, 171101.	2.9	6
114	Toward diagnosing neutrino non-unitarity through CP phase correlations. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, .	1.8	2
115	A Short Review on the Latest Neutrinos Mass and Number Constraints from Cosmological Observables. <i>Universe</i> , 2022, 8, 284.	0.9	5
116	Toward deconstructing the simplest seesaw mechanism. <i>Physical Review D</i> , 2022, 105, .	1.6	18
117	Screening Models and Neutrino Oscillations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
118	Exploring Recent Trends in Solar Energy Application. , 2022, 1, 30-38.		3
119	DUNE atmospheric neutrinos: Earth tomography. <i>Journal of High Energy Physics</i> , 2022, 2022, .	1.6	12
120	Speeds of Wave Propagation in Ideal Gaseous Molecular and Neutrino Media. <i>Journal of Physical Chemistry B</i> , 0, , .	1.2	0
121	Screening models and neutrino oscillations. <i>Physics of the Dark Universe</i> , 2022, 37, 101067.	1.8	1
122	Sub-percent precision measurement of neutrino oscillation parameters with JUNO*. <i>Chinese Physics C</i> , 2022, 46, 123001.	1.5	20
123	Flavour and dark matter in a scoto/type-II seesaw model. <i>Journal of High Energy Physics</i> , 2022, 2022, .	1.6	5
124	Deviation from Tribimaximal mixing using A4 flavour model with five extra scalars. <i>Nuclear Physics B</i> , 2022, 983, 115932.	0.9	2
125	Dequantization of electric charge: Probing scenarios of cosmological multi-component dark matter. <i>Nuclear Physics B</i> , 2022, 983, 115924.	0.9	2
126	W-mass anomaly in the simplest linear seesaw mechanism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 834, 137408.	1.5	5

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127	Rotating Lepton Model of Pions and Kaons: Mechanics at fm Distances. Journal of Applied Mathematics and Physics, 2022, 10, 2805-2819.	0.2	0
128	Probing Doubly and Singly Charged Higgs at pp Collider HE-LHC. Springer Proceedings in Physics, 2022, , 209-213.	0.1	0
129	Double Beta Decay: A Shell Model Approach. Physics, 2022, 4, 1135-1149.	0.5	2
130	Axion and FIMP dark matter in a $\chi(1)$ extension of the Standard Model. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 064.	1.9	0
131	Mass oscillations and matter wave's phase and amplitude modulations of relativistic quantum particles induced by Heisenberg's uncertainty principle. Scientific Reports, 2022, 12, .	1.6	0
132	Nonunitarity of the lepton mixing matrix at the European Spallation Source. Physical Review D, 2022, 106, .	1.6	3
133	Absolute neutrino mass scale and dark matter stability from flavour symmetry. Journal of High Energy Physics, 2022, 2022, .	1.6	3
134	Scalar-singlet assisted leptogenesis with CP violation from the vacuum. Journal of High Energy Physics, 2023, 2023, .	1.6	2
135	Stringent constraint on $C P T$ violation with the synergy of T2K-II, $NO\hat{1}/2$ extension, and JUNO. Physical Review D, 2023, 107, .	1.6	1
136	Nonzero $\hat{1}3$, CP-violation and neutrinoless double beta decay for neutrino mixing in the $A4\hat{A}-Z2\hat{A}-Z3$ flavor symmetry model. International Journal of Modern Physics A, 2023, 38, .	0.5	2
137	On the flavor/mass dichotomy for mixed neutrinos: a phenomenologically motivated analysis based on lepton charge conservation in neutron decay. European Physical Journal Plus, 2023, 138, .	1.2	5
138	Neutrinos: The Ghost Particles That Make Up Our Universe. Frontiers for Young Minds, 0, 10, .	0.8	0
139	Nuclear Physics Constraints on Neutrino Astrophysics. , 2023, , 1-36.		0
140	Implications of first LZ and XENONnT results: A comparative study of neutrino properties and light mediators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2023, 839, 137742.	1.5	12
141	Probing the mechanism of neutrinoless double-beta decay in multiple isotopes. Journal of High Energy Physics, 2023, 2023, .	1.6	5
142	Investigation of the radiative decay $b \rightarrow s \gamma$ in the 3-4-1-1 model. Communications in Physics, 2023, 33, .	0.0	0
143	Solar neutrino physics. Progress in Particle and Nuclear Physics, 2023, 131, 104043.	5.6	7
144	Physics implication from a Z^3 symmetry of matter. Physical Review D, 2023, 107, .	1.6	1

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145	Physics implications of a combined analysis of COHERENT CsI and LAr data. Journal of High Energy Physics, 2023, 2023, .	1.6	11
148	Chiral Multifold Fermions. Springer Theses, 2023, , 15-32.	0.0	0
159	A geometric progression of the masses of elementary fermions. , 2023, , .		0
162	Nuclear Physics Constraints on Neutrino Astrophysics. , 2023, , 3677-3712.		0