

# Fedor L Bezrukov

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

6,380  
citations

186209

28  
h-index

175177

52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

7486  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Standard Model Higgs boson as the inflaton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 703-706.	1.5	1,528
2	A facility to search for hidden particles at the CERN SPS: the SHiP physics case. Reports on Progress in Physics, 2016, 79, 124201.	8.1	496
3	Higgs boson mass and new physics. Journal of High Energy Physics, 2012, 2012, 1.	1.6	424
4	Higgs inflation: consistency and generalisations. Journal of High Energy Physics, 2011, 2011, 1.	1.6	406
5	Genomic analysis identifies new drivers and progression pathways in skin basal cell carcinoma. Nature Genetics, 2016, 48, 398-406.	9.4	370
6	Standard model Higgs boson mass from inflation: two loop analysis. Journal of High Energy Physics, 2009, 2009, 089-089.	1.6	295
7	On initial conditions for the hot big bang. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 029-029.	1.9	288
8	Standard Model Higgs boson mass from inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 88-92.	1.5	288
9	A White Paper on keV sterile neutrino Dark Matter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 025-025.	1.9	256
10	Multi-omic measurements of heterogeneity in HeLa cells across laboratories. Nature Biotechnology, 2019, 37, 314-322.	9.4	254
11	Higgs inflation at the critical point. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 249-254.	1.5	166
12	keV sterile neutrino dark matter in gauge extensions of the standard model. Physical Review D, 2010, 81, .	1.6	158
13	Light inflaton hunter's guide. Journal of High Energy Physics, 2010, 2010, 1.	1.6	149
14	The Higgs field as an inflaton. Classical and Quantum Gravity, 2013, 30, 214001.	1.5	126
15	Living beyond the edge: Higgs inflation and vacuum metastability. Physical Review D, 2015, 92, .	1.6	126
16	Co-translational assembly of proteasome subunits in NOT1-containing assembliesomes. Nature Structural and Molecular Biology, 2019, 26, 110-120.	3.6	100
17	Higgs-dilaton cosmology: An effective field theory approach. Physical Review D, 2013, 87, .	1.6	90
18	Distinguishing between R2-inflation and Higgs-inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 365-368.	1.5	81

#	ARTICLE	IF	CITATIONS
19	Light inflaton after LHC8 and WMAP9 results. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	74
20	On the robustness of the primordial power spectrum in renormalized Higgs inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 040-040.	1.9	72
21	Semiclassical study of baryon and lepton number violation in high-energy electroweak collisions. <i>Physical Review D</i> , 2003, 68, .	1.6	49
22	Interplay between scintillation and ionization in liquid xenon Dark Matter searches. <i>Astroparticle Physics</i> , 2011, 35, 119-127.	1.9	49
23	Searching for dark matter sterile neutrinos in the laboratory. <i>Physical Review D</i> , 2007, 75, .	1.6	45
24	Neutrino minimal standard model predictions for neutrinoless double beta decay. <i>Physical Review D</i> , 2005, 72, .	1.6	44
25	Late and early time phenomenology of Higgs-dependent cutoff. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 001-001.	1.9	44
26	Relic gravity waves and 7 keV dark matter from a GeV scale inflaton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 736, 494-498.	1.5	44
27	Suppression of baryon number violation in electroweak collisions: numerical results. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 574, 75-81.	1.5	42
28	Some like it hot: R2 heals Higgs inflation, but does not cool it. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 657-665.	1.5	29
29	Dynamical tunneling of bound systems through a potential barrier: Complex way to the top. <i>Journal of Experimental and Theoretical Physics</i> , 2004, 98, 820-836.	0.2	28
30	Inflaton mass in the $\hat{1} _2$ MSM inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 671, 211-215.	1.5	28
31	Composite inflation setup and glueball inflation. <i>Physical Review D</i> , 2012, 86, .	1.6	28
32	Hiding an elephant: heavy sterile neutrino with large mixing angle does not contradict cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 051-051.	1.9	27
33	FKBP10 Regulates Protein Translation to Sustain Lung Cancer Growth. <i>Cell Reports</i> , 2020, 30, 3851-3863.e6.	2.9	19
34	Model dependence of the bremsstrahlung effects from the superluminal neutrino at OPERA. <i>Physical Review D</i> , 2012, 85, .	1.6	18
35	A heatwave affair: mixed Higgs- $\langle R \rangle^2$ preheating on the lattice. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 028-028.	1.9	17
36	O(4) SYMMETRIC SINGULAR SOLUTIONS AND MULTIPARTICLE CROSS-SECTIONS IN $\hat{1} _4$ THEORY AT TREE LEVEL. <i>Modern Physics Letters A</i> , 1995, 10, 2135-2141.	0.5	16

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37	Inflation, LHC and the Higgs boson. <i>Comptes Rendus Physique</i> , 2015, 16, 994-1002.	0.3	15
38	MazF toxin causes alterations in <i>Staphylococcus aureus</i> transcriptome, translatoe and proteome that underlie bacterial dormancy. <i>Nucleic Acids Research</i> , 2021, 49, 2085-2101.	6.5	14
39	Leptogenesis in models with keV sterile neutrino dark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 095202.	1.4	11
40	Direct comparison of sterile neutrino constraints from cosmological data, $\nu_e$ disappearance data and $\nu_\mu \rightarrow \nu_e$ appearance data in a $3+1$ model. <i>European Physical Journal C</i> , 2020, 80, 1.	1.4	11
41	YjbH Solubility Controls Spx in <i>Staphylococcus aureus</i> : Implication for MazEF Toxin-Antitoxin System Regulation. <i>Frontiers in Microbiology</i> , 2020, 11, 113.	1.5	10
42	Applicability of approximations used in calculations of the spectrum of dark matter particles produced in particle decays. <i>Physical Review D</i> , 2016, 93, .	1.6	8
43	Can an odd number of fermions be created due to the chiral anomaly?. <i>Physical Review D</i> , 2006, 73, .	1.6	7
44	Semiclassical calculation of multiparticle scattering cross sections in classicalizing theories. <i>Physical Review D</i> , 2012, 86, .	1.6	7
45	Problems with Higgspllosion. <i>Physical Review D</i> , 2018, 98, .	1.6	7
46	Scalar induced resonant sterile neutrino production in the early Universe. <i>Physical Review D</i> , 2020, 101, .	1.6	4
47	Pinning down the kaon form factors in $K \rightarrow \pi^+ \pi^- \pi^0$ decay. <i>Physical Review D</i> , 2003, 67, .	1.6	3
48	T-odd correlations in $K \rightarrow \pi^+ \pi^- \pi^0$ decays. <i>Physical Review D</i> , 2002, 66, .	1.6	2
49	Transverse muon polarization in $K^+ \rightarrow \mu^+ \nu_\mu$ : scanning over the Dalitz plot. <i>European Physical Journal C</i> , 2003, 30, 487-496.	1.4	2
50	Towards a solution of the strong CP problem by compact extra dimensions. <i>Physical Review D</i> , 2009, 80, .	1.6	2
51	Heavy light inflaton and dark matter production. <i>Physical Review D</i> , 2020, 102, .	1.6	2
52	Inflation, LHC and the Higgs boson. <i>International Journal of Modern Physics A</i> , 2015, 30, 1545001.	0.5	1
53	The $\mathbb{A}$ Instantons in the SU(2) Higgs Theory. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 2004, 138, 397-406.	0.3	0
54	Inflation in the Standard Model and $1/2$ MSM with non-minimal coupling to gravity. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Semiclassical S-matrix for black holes. Journal of High Energy Physics, 2015, 2015, 1-42.	1.6	0
56	Light inflaton model in a metastable universe. Physical Review D, 2021, 104, .	1.6	0
57	Singular classical solutions and tree multiparticle cross sections. Surveys in High Energy Physics, 1997, 10, 395-403.	0.6	0