

Sushant K Raut

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

477
citations

759233

12
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

317
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined study of source, detector and matter non-standard neutrino interactions at DUNE. Journal of High Energy Physics, 2016, 2016, 1.	4.7	67
2	Potential of optimized $\text{NO}^{\hat{1}/2}\text{A}$ for large $\hat{1}, 13$ & combined performance with a LArTPC & T2K. Journal of High Energy Physics, 2012, 2012, 1.	4.7	47
3	Getting the best out of T2K and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{NO} \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{1}/2 \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{A} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$. Physical Review D, 2012, 86, .	4.7	45
4	Neutrino Mass Hierarchy and Octant Determination with Atmospheric Neutrinos. Physical Review Letters, 2012, 109, 091801.	7.8	43
5	Octant sensitivity for large $\hat{1}, 13$ in atmospheric and long-baseline neutrino experiments. Journal of High Energy Physics, 2013, 2013, 1.	4.7	42
6	New look at the degeneracies in the neutrino oscillation parameters, and their resolution by T2K, $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{NO} \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \hat{1}/2 \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{A} \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ and ICAL. Physical Review D, 2016, 93, .	4.7	38
7	Evidence for leptonic CP phase from $\text{NO}^{\hat{1}/2}\text{A}$, T2K and ICAL: A chronological progression. Nuclear Physics B, 2014, 884, 274-304.	2.5	29
8	EFFECT OF NONZERO $\hat{1}, 13$ ON THE MEASUREMENT OF $\hat{1}, 23$. Modern Physics Letters A, 2013, 28, 1350093.	1.2	21
9	Can atmospheric neutrino experiments provide the first hint of leptonic CP violation?. Physical Review D, 2014, 89, .	4.7	19
10	Maximizing the DUNE early physics output with current experiments. European Physical Journal C, 2016, 76, 1.	3.9	19
11	Exploring source and detector non-standard neutrino interactions at $\text{ESS}^{\hat{1}/2}\text{SB}$. Journal of High Energy Physics, 2015, 2015, 1.	4.7	18
12	Magical properties of a 2540 km baseline superbeam experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 227-231.	4.1	17
13	A hybrid setup for fundamental unknowns in neutrino oscillations using T2HK ($\hat{1}/2$) and $\hat{1}/4$ -DAR $\hat{1}/2$ \hat{A}^- \hat{A}^- . Journal of High Energy Physics, 2017, 2017, 1.	4.7	12
14	Probing CP violation with the first three years of ultrahigh energy neutrinos from IceCube. Physical Review D, 2014, 90, .	4.7	11
15	Analysis of four-zero textures in the 3+1 neutrino framework. Physical Review D, 2016, 94, .	4.7	10
16	Matter effects at the T2HK and T2HKK experiments. Physical Review D, 2017, 96, .	4.7	10
17	Synergies between neutrino oscillation experiments: an \hat{A}^- adequate \hat{A}^- configuration for LBNO. Journal of High Energy Physics, 2014, 2014, 1.	4.7	9
18	Implications of $\hat{1}^{\text{CP}} = \hat{A}^{\sim 90}$ towards determining hierarchy and octant at T2K and T2K-II. Modern Physics Letters A, 2017, 32, 1750034.	1.2	8

#	ARTICLE	IF	CITATIONS
19	Probing muonic charged current nonstandard interactions at decay-at-rest facilities in conjunction with T2HK. Physical Review D, 2020, 101, .	4.7	7
20	PHYSICS POTENTIAL OF A 2540 km BASELINE SUPERBEAM EXPERIMENT. Modern Physics Letters A, 2011, 26, 2051-2063.	1.2	4
21	Determining neutrino mass hierarchy from electron disappearance at a low energy neutrino factory. Physical Review D, 2014, 89, .	4.7	1
22	Physics Potential of a 2540 Km Baseline Superbeam Experiment. , 2011, , .		0
23	Magical properties of a 2540 km Superbeam experiment. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 434.	0.4	0
24	Potential of optimized $\text{NO}^{\hat{1}/2}\text{A}$ for large and combined performance with a LArTPC and T2K. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 193-195.	0.4	0
25	Evidence for leptonic CP phase from $\text{NO}^{\hat{1}/2}\text{A}$, T2K and ICAL. Pramana - Journal of Physics, 2016, 86, 387-393.	1.8	0
26	Can the Hint of δ_{CP} $\hat{1}$ CP from T2K Also Indicate the Hierarchy and Octant?. Springer Proceedings in Physics, 2016, , 339-344.	0.2	0