Annexure 9: Sanjib Kumar Agarwalla's complete list of research publications

https://inspirehep.net/authors/1039649

According to Google Scholar: h-index is 35 and i10-index is 90

I. Papers published in peer-reviewed journals (74)

1. **Improved precision on 2-3 oscillation parameters using the synergy between DUNE and T2HK**

   Sanjib Kumar Agarwalla, Ritam Kundu, Masoom Singh

   JHEP 10 (2024) 243

   Impact Factor: **5.0**

   e-Print: 2408.12735 [hep-ph]

2. **A plethora of long-range neutrino interactions probed by DUNE and T2HK**

   Sanjib Kumar Agarwalla, Mauricio Bustamante, Masoom Singh, Pragyanprasu Swain

   JHEP 09 (2024) 055

   Impact Factor: **5.0**, Number of Citations: **5**

   e-Print: 2404.02775 [hep-ph]

3. **Constraining non-unitary neutrino mixing using matter effects in atmospheric neutrinos at INO-ICAL**

   Sadashiv Sahoo, Sudipta Das, Anil Kumar, Sanjib Kumar Agarwalla

   JHEP 09 (2024) 184

   Impact Factor: **5.0**, Number of Citations: **3**

   e-Print: 2309.16942 [hep-ph]

4. **Search for a light sterile neutrino with 7.5 years of IceCube DeepCore data**

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Rev.D 110 (2024) 7, 072007

   Impact Factor: **4.60**, Number of Citations: **9**

   e-Print: 2407.01314 [hep-ex]

5. **Exploration of mass splitting and muon/tau mixing parameters for an eV-scale sterile neutrino with IceCube**

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Lett.B 858 (2024) 139077

   Impact Factor: **4.30**, Number of Citations: **4**

   e-Print: 2406.00905 [hep-ex]

6. **A search for an eV-scale sterile neutrino using improved high-energy ν_μ event reconstruction in IceCube***

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Rev.Lett. 133 (2024) 20, 201804

   Impact Factor: **9.16**, Number of Citations: **15**

   e-Print: 2405.08070 [hep-ex]

   [* Selected as PRL Editors' Suggestion]

7. **Methods and stability tests associated with the sterile neutrino search using improved high-energy ν_μ event reconstruction in IceCube**

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Rev.D 110 (2024) 9, 092009

   Impact Factor: **4.60**, Number of Citations: **7**

   e-Print: 2405.08077 [hep-ex]

8. **Measurement of atmospheric neutrino oscillation parameters using convolutional neural networks with 9.3 years of data in IceCube DeepCore***

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Rev.Lett. 134 (2025) 9, 091801

   Impact Factor: **9.16**, Number of Citations: **20**

   e-Print: 2405.02163 [hep-ex]

   [* Selected as PRL Editors' Suggestion]

9. **Observation of Seven Astrophysical Tau Neutrino Candidates with IceCube***

   R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

   Phys.Rev.Lett. 132 (2024) 15, 151001

   Impact Factor: **9.16**, Number of Citations: **18**

e-Print: 2403.02516 [astro-ph.HE]

[* Selected as PRL Editors' Suggestion and featured in APS Physics]

10. **Flavor-dependent long-range neutrino interactions in DUNE & T2HK: alone they constrain, together they discover**

    Masoom Singh, Mauricio Bustamante, Sanjib Kumar Agarwalla

    JHEP 08 (2023) 101

    Impact Factor: **5.0**, Number of Citations: **10**

    e-Print: 2305.05184 [hep-ph]

11. **Present and future constraints on flavor-dependent long-range interactions of high-energy astrophysical neutrinos**

    Sanjib Kumar Agarwalla, Mauricio Bustamante, Sudipta Das, Ashish Narang

    JHEP 08 (2023) 113

    Impact Factor: **5.0**, Number of Citations: **11**

    e-Print: 2305.03675 [hep-ph]

12. **Constraining Lorentz Invariance Violation with Next-Generation Long-Baseline Experiments**

    Sanjib Kumar Agarwalla, Sudipta Das, Sadashiv Sahoo, Pragyanprasu Swain

    JHEP 07 (2023) 216

    Impact Factor: **5.0**, Number of Citations: **10**

    e-Print: 2302.12005 [hep-ph]

13. **Enhancing Sensitivity to Leptonic CP Violation using Complementarity among DUNE, T2HK, and T2HKK**

    Sanjib Kumar Agarwalla, Sudipta Das, Alessio Giarnetti, Davide Meloni, Masoom Singh

    Eur.Phys.J.C 83 (2023) 8, 694

    Impact Factor: **4.20**, Number of Citations: **16**

    e-Print: 2211.10620 [hep-ph]

14. **Measurement of Atmospheric Neutrino Mixing with Improved IceCube DeepCore Calibration and Data Processing**

    R. Abbasi, M. Ackermann, J. Adams, S. K. Agarwalla *et al.*

Phys.Rev.D 108 (2023) 1, 012014

Impact Factor: **4.60**, Number of Citations: **52**

e-Print: 2304.12236 [hep-ex]

15. **Probing Dark matter inside Earth using atmospheric neutrino oscillations at INO-ICAL**

    Anuj Kumar Upadhyay, Anil Kumar, Sanjib Kumar Agarwalla, Amol Dighe

    Phys.Rev.D 107 (2023) 11, 115030

    Impact Factor: **4.60**, Number of Citations: **10**

    e-Print: 2112.14201 [hep-ph]

16. **Discriminating between Lorentz violation and non-standard interactions using core-passing atmospheric neutrinos at INO-ICAL**

    Sadashiv Sahoo, Anil Kumar, Sanjib Kumar Agarwalla, Amol Dighe

    Phys.Lett.B 841 (2023) 137949

    Impact Factor: **4.95**, Number of Citations: **10**

    e-Print: 2205.05134 [hep-ph]

17. **Locating the core-mantle boundary using oscillations of atmospheric neutrinos**

    Anuj Kumar Upadhyay, Anil Kumar, Sanjib Kumar Agarwalla, Amol Dighe

    JHEP 04 (2023) 068

    Impact Factor: **5.0**, Number of Citations: **14**

    e-Print: 2211.08688 [hep-ph]

18. **Model-Independent Constraints on Non-Unitary Neutrino Mixing from High-Precision Long-Baseline Experiments**

    Sanjib Kumar Agarwalla, Sudipta Das, Alessio Giarnetti, Davide Meloni

    JHEP 07 (2022) 121

    Impact Factor: **5.0**, Number of Citations: **17**

    e-Print: 2111.00329 [hep-ph]

19. **A close look on 2-3 mixing angle with DUNE in light of current neutrino oscillation data**

    Sanjib Kumar Agarwalla, Ritam Kundu, Suprabh Prakash, Masoom Singh

JHEP 03 (2022) 206

Impact Factor: **5.0**, Number of Citations: **9**

e-Print: 2111.11748 [hep-ph]

20. **Probing Lorentz Invariance Violation with Atmospheric Neutrinos at INO-ICAL**

Sadashiv Sahoo, Anil Kumar, Sanjib Kumar Agarwalla

JHEP 03 (2022) 050

Impact Factor: **5.0**, Number of Citations: **17**

e-Print: 2110.13207 [hep-ph]

21. **Evolution of Neutrino Mass-Mixing Parameters in Matter with Non-Standard Interactions**

Sanjib Kumar Agarwalla, Sudipta Das, Mehedi Masud, Pragyanprasu Swain

JHEP 2111 (2021) 094

Impact Factor: **5.0**, Number of Citations: **16**

e-Print: 2103.13431 [hep-ph]

22. **Validating the Earth's Core using Atmospheric Neutrinos with ICAL at INO**

Anil Kumar, Sanjib Kumar Agarwalla

JHEP 2108 (2021) 139

Impact Factor: **5.0**, Number of Citations: **20**

e-Print: 2104.11740 [hep-ph]

23. **A New Approach to Probe Non-Standard Interactions in Atmospheric Neutrino Experiments**

Anil Kumar, Amina Khatun, Sanjib Kumar Agarwalla, Amol Dighe

JHEP 2104 (2021) 159

Impact Factor: **5.0**, Number of Citations: **20**

e-Print: 2101.02607 [hep-ph]

24. **From oscillation dip to oscillation valley in atmospheric neutrino experiments**

Anil Kumar, Amina Khatun, Sanjib Kumar Agarwalla, Amol Dighe

Eur. Phys. J. C (2021) 81: 190

Impact Factor: **4.20**, Number of Citations: **13**

e-Print: 2006.14529 [hep-ph]

25. **Can Lorentz Invariance Violation affect the Sensitivity of Deep Underground Neutrino Experiment?**

    Sanjib Kumar Agarwalla, Mehedi Masud

    Eur. Phys. J. C (2020) 80: 716

    Impact Factor: **4.20**, Number of Citations: **20**

    e-Print: 1912.13306 [hep-ph]

26. **Enhancing Sensitivity to Non-Standard Neutrino Interactions at INO combining muon and hadron information**

    Amina Khatun, Sabya Sachi Chatterjee, Tarak Thakore, Sanjib Kumar Agarwalla

    Eur. Phys. J. C (2020) 80: 533

    Impact Factor: **4.20**, Number of Citations: **15**

    e-Print: 1907.02027 [hep-ph]

27. **Constraints on Non-Standard Neutrino Interactions from Borexino Phase-II**

    S. K. Agarwalla* *et al.*

    JHEP 2002 (2020) 038

    Impact Factor: **5.0**, Number of Citations: **45**

    e-Print: 1905.03512 [hep-ph]

    [* Played an important role in data analysis and in writing the draft]

28. **Physics Potential of ESSνSB in the presence of a Light Sterile Neutrino**

    Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

    JHEP 1912 (2019) 174

    Impact Factor: **5.0**, Number of Citations: **18**

    e-Print: 1909.13746 [hep-ph]

29. **Universe's Worth of Electrons to Probe Long-Range Interactions of High-Energy Astrophysical Neutrinos***

    Mauricio Bustamante, Sanjib Kumar Agarwalla

    Phys.Rev.Lett. 122 (2019) no.6, 061103

Impact Factor: **8.1**, Number of Citations: **58**

e-Print: 1808.02042 [astro-ph.HE]

[* Selected as PRL Editors' Suggestion and featured in APS Physics]

30. **Same-sign Multilepton Signatures of an $SU(2)_R$ Quintuplet at the LHC**
Sanjib Kumar Agarwalla, Kirtiman Ghosh, Nilanjana Kumar, Ayon Patra
JHEP 1901 (2019) 080
Impact Factor: **5.0**, Number of Citations: **10**
e-Print: 1808.02904 [hep-ph]

31. **Active-sterile neutrino oscillations at INO-ICAL over a wide mass-squared range**
Tarak Thakore, Moon Moon Devi, Sanjib Kumar Agarwalla, Amol Dighe
JHEP 1808 (2018) 022
Impact Factor: **5.0**, Number of Citations: **22**
e-Print: 1804.09613 [hep-ph]

32. **Sub-TeV Quintuplet Minimal Dark Matter with Left-Right Symmetry**
Sanjib Kumar Agarwalla, Kirtiman Ghosh, Ayon Patra
JHEP 1805 (2018) 123
Impact Factor: **5.0**, Number of Citations: **8**
e-Print: 1803.01670 [hep-ph]

33. **Signatures of a Light Sterile Neutrino in T2HK**
Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo
JHEP 1804 (2018) 091
Impact Factor: **5.0**, Number of Citations: **31**
e-Print: 1801.04855 [hep-ph]

34. **Can INO be Sensitive to Flavor-Dependent Long-Range Forces?**
Amina Khatun, Tarak Thakore, Sanjib Kumar Agarwalla
JHEP 1804 (2018) 023
Impact Factor: **5.0**, Number of Citations: **14**
e-Print: 1801.00949 [hep-ph]

35. **Addressing Neutrino Mixing Schemes with DUNE and T2HK**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, S. T. Petcov, A. V. Titov

Eur. Phys. J. C (2018) 78: 286

Impact Factor: **4.20**, Number of Citations: **29**

e-Print: 1711.02107 [hep-ph]

36. **Indirect searches of Galactic diffuse dark matter in INO-MagICAL detector**

Amina Khatun, Ranjan Laha, Sanjib Kumar Agarwalla

JHEP 1706 (2017) 057

Impact Factor: **5.0**, Number of Citations: **11**

e-Print: 1703.10221 [hep-ph]

37. **A hybrid setup for fundamental unknowns in neutrino oscillations using T2HK (ν) and μ-DAR ($\bar{\nu}$)**

Sanjib Kumar Agarwalla, Monojit Ghosh, Sushant K. Raut

JHEP 1705 (2017) 115

Impact Factor: **5.0**, Number of Citations: **16**

e-Print: 1704.06116 [hep-ph]

38. **Octant of θ_{23} in danger with a light sterile neutrino**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

Phys.Rev.Lett. 118 (2017) no.3, 031804

Impact Factor: **8.1**, Number of Citations: **60**

e-Print: 1605.04299 [hep-ph]

39. **Degeneracy between θ_{23} octant and neutrino non-standard interactions at DUNE**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

Phys.Lett. B762 (2016) 64-71

Impact Factor: **4.3**, Number of Citations: **74**

e-Print: 1607.01745 [hep-ph]

40. **Physics Reach of DUNE with a Light Sterile Neutrino**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

JHEP 1609 (2016) 016

Impact Factor: **5.0**, Number of Citations: **69**

e-Print: 1603.03759 [hep-ph]

41. **Discovery Potential of T2K and NOνA in the Presence of a Light Sterile Neutrino**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Arnab Dasgupta, Antonio Palazzo

JHEP 1602 (2016) 111

Impact Factor: **5.0**, Number of Citations: **51**

e-Print: 1601.05995 [hep-ph]

42. **Exploring Flavor-Dependent Long-Range Forces in Long-Baseline Neutrino Oscillation Experiments**

Sabya Sachi Chatterjee, Arnab Dasgupta, Sanjib Kumar Agarwalla

JHEP 1512 (2015) 167

Impact Factor: **5.0**, Number of Citations: **19**

e-Print: 1509.03517 [hep-ph]

43. **Running of Neutrino Oscillation Parameters in Matter with Flavor-Diagonal Non-Standard Interactions of the Neutrino**

Sanjib Kumar Agarwalla, Yee Kao, Debashis Saha, Tatsu Takeuchi

JHEP 1511 (2015) 035

Impact Factor: **5.0**, Number of Citations: **15**

e-Print: 1506.08464 [hep-ph]

44. **Physics Potential of the ICAL detector at the India-based Neutrino Observatory (INO)**

A. Kumar, Sanjib Kumar Agarwalla *et al.*

Pramana 88 (2017) no.5, 79

Impact Factor: **1.185**, Number of Citations: **300**

e-Print: 1505.07380 [physics.ins-det]

45. **Probing Non-Standard Interactions at Daya Bay**

Sanjib Kumar Agarwalla, Partha Bagchi, David V. Forero, Mariam Tortola

JHEP 1507 (2015) 060

Impact Factor: **5.0**, Number of Citations: **40**

e-Print: 1412.1064 [hep-ph]

46. **Probing Neutrino Oscillation Parameters using High Power Superbeam from ESS**

Sanjib Kumar Agarwalla, Sandhya Choubey, Suprabh Prakash

JHEP 1412 (2014) 020

Impact Factor: **5.0**, Number of Citations: **31**

e-Print: 1406.2219 [hep-ph]

47. **Enhancing sensitivity to neutrino parameters at INO combining muon and hadron information**

Moon Moon Devi, Tarak Thakore, Sanjib Kumar Agarwalla, Amol Dighe

JHEP 1410 (2014) 189

Impact Factor: **5.0**, Number of Citations: **86**

e-Print: 1406.3689 [hep-ph]

48. **The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment**

S.K. Agarwalla *et al.*

JHEP 1405 (2014) 094

Impact Factor: **5.0**, Number of Citations: **100**

e-Print: 1312.6520 [hep-ph]

49. **Analytical Approximation of the Neutrino Oscillation Matter Effects at large θ_{13}**

Sanjib Kumar Agarwalla, Yee Kao, Tatsu Takeuchi

JHEP 1404 (2014) 047

Impact Factor: **5.0**, Number of Citations: **62**

e-Print: 1302.6773 [hep-ph]

50. **Exploring the three flavor effects with future superbeams using liquid argon detectors**

Sanjib Kumar Agarwalla, Suprabh Prakash, S. Uma Sankar

JHEP 1403 (2014) 087

Impact Factor: **5.0**, Number of Citations: **45**

e-Print: 1304.3251 [hep-ph]

51. **Light sterile neutrino sensitivity at the nuSTORM facility**

    D. Adey, S.K. Agarwalla *et al.*

    Phys.Rev. D89 (2014) 7, 071301

    Impact Factor: **4.506**, Number of Citations: **66**

    e-Print: 1402.5250 [hep-ex]

52. **Physics Potential of Long-Baseline Experiments**

    Sanjib Kumar Agarwalla

    Adv.High Energy Phys. 2014 (2014) 457803

    Impact Factor: **1.839**, Number of Citations: **26**

    e-Print: 1401.4705 [hep-ph]

53. **Resolving the octant of θ_{23} with T2K and NOνA**

    Sanjib Kumar Agarwalla, Suprabh Prakash, S. Uma Sankar

    JHEP 1307 (2013) 131

    Impact Factor: **5.0**, Number of Citations: **91**

    e-Print: 1301.2574 [hep-ph]

54. **Potential of optimized NOνA for large θ_{13} & combined performance with a LArTPC & T2K**

    Sanjib Kumar Agarwalla, Suprabh Prakash, Sushant K. Raut, S. Uma Sankar

    JHEP 1212 (2012) 075

    Impact Factor: **5.0**, Number of Citations: **79**

    e-Print: 1208.3644 [hep-ph]

55. **Constraining Non-Standard Interactions of the Neutrino with Borexino**

    Sanjib Kumar Agarwalla, Francesco Lombardi, Tatsu Takeuchi

    JHEP 1212 (2012) 079

    Impact Factor: **5.0**, Number of Citations: **37**

    e-Print: 1207.3492 [hep-ph]

56. **Probing the Neutrino Mass Hierarchy with Super-Kamiokande**

Sanjib Kumar Agarwalla, Pilar Hernández

JHEP 1210 (2012) 086

Impact Factor: **5.0**, Number of Citations: **15**

e-Print: 1204.4217 [hep-ph]

57. **An incremental approach to unravel the neutrino mass hierarchy and CP violation with a long-baseline Superbeam for large θ_{13}**

Sanjib Kumar Agarwalla, Tracey Li, André Rubbia

JHEP 1205 (2012) 154

Impact Factor: **5.0**, Number of Citations: **46**

e-Print: 1109.6526 [hep-ph]

58. **Short-baseline Neutrino Oscillation Waves in Ultra-large Liquid Scintillator Detectors**

Sanjib Kumar Agarwalla, J.M. Conrad, M.H. Shaevitz

JHEP 1112 (2011) 085

Impact Factor: **5.0**, Number of Citations: **24**

e-Print: 1105.4984 [hep-ph]

59. **Neutrino Probes of the Nature of Light Dark Matter**

Sanjib Kumar Agarwalla, Mattias Blennow, Enrique Fernandez Martinez, Olga Mena

JCAP 1109 (2011) 004

Impact Factor: **5.634**, Number of Citations: **16**

e-Print: 1105.4077 [hep-ph]

60. **Optimization of the Neutrino Factory, revisited**

Sanjib Kumar Agarwalla, Patrick Huber, Jian Tang, Walter Winter

JHEP 1101 (2011) 120

Impact Factor: **5.0**, Number of Citations: **36**

e-Print: 1012.1872 [hep-ph]

61. **LSND reloaded**

Sanjib Kumar Agarwalla, Patrick Huber

Phys.Lett. B696 (2011) 359-361

Impact Factor: **4.787**, Number of Citations: **24**

e-Print: 1007.3228 [hep-ph]

62. **A new approach to anti-neutrino running in long baseline neutrino oscillation experiments**

Sanjib Kumar Agarwalla, Patrick Huber, Jonathan M. Link, Debabrata Mohapatra

JHEP 1104 (2011) 099

Impact Factor: **5.0**, Number of Citations: **15**

e-Print: 1005.4055 [hep-ph]

63. **Potential measurement of the weak mixing angle with neutrino-electron scattering at low energy**

Sanjib Kumar Agarwalla, Patrick Huber

JHEP 1108 (2011) 059

Impact Factor: **5.0**, Number of Citations: **12**

e-Print: 1005.1254 [hep-ph]

64. **Exploring neutrino parameters with a beta-beam experiment from FNAL to DUSEL**

Sanjib Kumar Agarwalla, Patrick Huber

Phys.Lett. B693 (2010) 114-121

Impact Factor: **4.787**, Number of Citations: **6**

e-Print: 0909.2257 [hep-ph]

65. **Constraining sterile neutrinos with a low energy beta-beam**

Sanjib Kumar Agarwalla, Patrick Huber, Jonathan M. Link

JHEP 1001 (2010) 071

Impact Factor: **5.0**, Number of Citations: **26**

e-Print: 0907.3145 [hep-ph]

66. **Exceptional Sensitivity to Neutrino Parameters with a Two Baseline Beta-Beam Set-up**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri

Nucl.Phys. B805 (2008) 305-325

Impact Factor: **3.735**, Number of Citations: **28**

e-Print: 0804.3007 [hep-ph]

67. **Optimizing the greenfield Beta-beam**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri, Walter Winter

JHEP 0806 (2008) 090

Impact Factor: **5.0**, Number of Citations: **35**

e-Print: 0802.3621 [hep-ex]

68. **Unraveling neutrino parameters with a magical beta-beam experiment at INO**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri

Nucl.Phys. B798 (2008) 124-145

Impact Factor: **3.735**, Number of Citations: **41**

e-Print: 0711.1459v1 [hep-ph]

69. **Neutrino parameters from matter effects in the ν_e survival probability at long baselines**

Sanjib Kumar Agarwalla, Sandhya Choubey, Srubabati Goswami, Amitava Raychaudhuri

Phys.Rev. D75 (2007) 097302

Impact Factor: **4.506**, Number of Citations: **29**

e-Print: hep-ph/0611233

70. **Neutrino Mixings and Leptonic CP Violation from CKM Matrix and Majorana Phases**

Sanjib Kumar Agarwalla, M.K. Parida, R.N. Mohapatra, G. Rajasekaran

Phys.Rev. D75 (2007) 033007

Impact Factor: **4.506**, Number of Citations: **41**

e-Print: hep-ph/0611225

71. **Neutrino mass hierarchy and θ_{13} with a magic baseline beta-beam experiment**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri

Nucl.Phys. B771 (2007) 1-27

Impact Factor: **3.735**, Number of Citations: **68**

e-Print: hep-ph/0610333

72. **Probing Lepton Number Violating Interactions with Beta-beams**

Sanjib Kumar Agarwalla, Subhendu Rakshit, Amitava Raychaudhuri

Phys.Lett. B647 (2007) 380-388

Impact Factor: **4.787**, Number of Citations: **16**

e-Print: hep-ph/0609252

73. **Can R-parity violating supersymmetry be seen in long baseline beta-beam experiments?**

Rathin Adhikari, Sanjib Kumar Agarwalla, Amitava Raychaudhuri

Phys.Lett. B642 (2006) 111-118

Impact Factor: **4.787**, Number of Citations: **35**

e-Print: hep-ph/0608034

74. **Exploration prospects of a long baseline beta beam neutrino experiment with an iron calorimeter detector**

Sanjib Kumar Agarwalla, Amitava Raychaudhuri, Abhijit Samanta

Phys.Lett. B629 (2005) 33-40

Impact Factor: **4.787**, Number of Citations: **49**

e-Print: hep-ph/0505015

II. Papers communicated to peer-reviewed journals (1)

1. **Constraining the core radius and density jumps inside Earth using atmospheric neutrino oscillations**

Anuj Kumar Upadhyay, Anil Kumar, Sanjib Kumar Agarwalla, Amol Dighe

Submitted in JHEP

Impact Factor: **5.0**, Number of Citations: **3**

e-Print: 2405.04986 [hep-ph]

III. Unpublished papers (7)

1. **LHC diphoton excess in a left-right symmetric model with minimal dark matter**

   Sanjib Kumar Agarwalla, Kirtiman Ghosh, Ayon Patra

   Number of Citations: **8**

   e-Print: 1607.03878 [hep-ph]

2. **New Power to Measure Supernova ν_e with Large Liquid Scintillator Detectors**

   Ranjan Laha, John F. Beacom, Sanjib Kumar Agarwalla

   Number of Citations: **34**

   e-Print: 1412.8425 [hep-ph]

3. **The LBNO long-baseline oscillation sensitivities with two conventional neutrino beams at different baselines**

   S.K. Agarwalla *et al.*

   Number of Citations: **17**

   e-Print: 1412.0804 [hep-ph]

4. **Optimised sensitivity to leptonic CP violation from spectral information: the LBNO case at 2300 km baseline**

   S.K. Agarwalla *et al.*

   Number of Citations: **25**

   e-Print: 1412.0593 [hep-ph]

5. **High-precision measurement of atmospheric mass-squared splitting with T2K and NOvA**

   Sanjib Kumar Agarwalla, Suprabh Prakash, Wei Wang

   Number of Citations: **15**

   e-Print: 1312.1477 [hep-ph]

6. **Exploring the Earth matter effect with atmospheric neutrinos in ice**

   Sanjib Kumar Agarwalla, Tracey Li, Olga Mena, Sergio Palomares-Ruiz

   Number of Citations: **43**

   e-Print: 1212.2238 [hep-ph]

7. **New Physics with MeV Neutrino Sources Brighter than a Thousand Suns**

   Sanjib Kumar Agarwalla, R. S. Raghavan

   Number of Citations: **11**

   e-Print: 1011.4509 [hep-ph]

IV. Working Group Reports (13)

1. **High-energy and ultra-high-energy neutrinos: A Snowmass white paper**

   Markus Ackermann, Mauricio Bustamante, Lu Lu, Nepomuk Otte, Mary Hall Reno, S. K. Agarwalla *et al.*

   JHEAp 36 (2022) 55-110

   Impact Factor: **10.2**, Number of Citations: **123**

   e-Print: 2203.08096 [hep-ph]

   Contribution to: Snowmass 2021

2. **nuSTORM - Neutrinos from STORed Muons: Proposal to the Fermilab PAC**

   D. Adey, S. K. Agarwalla *et al.*

   Number of Citations: **97**

   e-Print: 1308.6822 [physics.acc-ph]

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