

Full List of Publications

Sanjib Kumar Agarwalla

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I. Latest Papers

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

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

Submitted in JHEP

Number of Citations: **3**

e-Print arXiv:2103.13431 [hep-ph]

II. Papers Published in International Refereed Journals (53)

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

Anil Kumar, Sanjib Kumar Agarwalla

JHEP 2108 (2021) 139

Impact Factor: **5.875**

e-Print arXiv:2104.11740 [hep-ph]

2. **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: **5.875**, Number of Citations: **5**

e-Print arXiv:2101.02607 [hep-ph]

3. **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: **4.84**, Number of Citations: **4**

e-Print arXiv:2006.14529 [hep-ph]

4. **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: **4.84**, Number of Citations: **3**

e-Print arXiv:1912.13306 [hep-ph]

5. **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: **4.84**, Number of Citations: **1**

e-Print arXiv:1907.02027 [hep-ph]

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

S. K. Agarwalla* *et al.*

JHEP 2002 (2020) 038

Impact Factor: **5.875**, Number of Citations: **15**

e-Print arXiv:1905.03512 [hep-ph]

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

7. **Physics Potential of ESS ν SB in the presence of a Light Sterile Neutrino**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

JHEP 1912 (2019) 174

Impact Factor: **5.875**, Number of Citations: **5**

e-Print arXiv:1909.13746 [hep-ph]

8. **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: **8.385**, Number of Citations: **26**

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

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

9. 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: **5.875**, Number of Citations: **3**

e-Print arXiv:1808.02904 [hep-ph]

10. 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: **5.875**, Number of Citations: **8**

e-Print arXiv:1804.09613 [hep-ph]

11. Sub-TeV Quintuplet Minimal Dark Matter with Left-Right Symmetry

Sanjib Kumar Agarwalla, Kirtiman Ghosh, Ayon Patra

JHEP 1805 (2018) 123

Impact Factor: **5.875**, Number of Citations: **3**

e-Print arXiv:1803.01670 [hep-ph]

12. Signatures of a Light Sterile Neutrino in T2HK

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

JHEP 1804 (2018) 091

Impact Factor: **5.875**, Number of Citations: **21**

e-Print arXiv:1801.04855 [hep-ph]

13. Can INO be Sensitive to Flavor-Dependent Long-Range Forces?

Amina Khatun, Tarak Thakore, Sanjib Kumar Agarwalla

JHEP 1804 (2018) 023

Impact Factor: **5.875**, Number of Citations: **5**

e-Print arXiv:1801.00949 [hep-ph]

14. **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: **4.84**, Number of Citations: **18**

e-Print arXiv:1711.02107 [hep-ph]

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

Amina Khatun, Ranjan Laha, Sanjib Kumar Agarwalla

JHEP 1706 (2017) 057

Impact Factor: **5.875**, Number of Citations: **6**

e-Print arXiv:1703.10221 [hep-ph]

16. **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: **5.875**, Number of Citations: **12**

e-Print arXiv:1704.06116 [hep-ph]

17. **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: **8.385**, Number of Citations: **48**

e-Print arXiv:1605.04299 [hep-ph]

18. **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: **4.787**, Number of Citations: **55**

e-Print arXiv:1607.01745 [hep-ph]

19. **Physics Reach of DUNE with a Light Sterile Neutrino**
Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo
JHEP 1609 (2016) 016
Impact Factor: **5.875**, Number of Citations: **53**
e-Print arXiv:1603.03759 [hep-ph]

20. **Discovery Potential of T2K and $\text{NO}\nu\text{A}$ in the Presence of a Light Sterile Neutrino**
Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Arnab Dasgupta, Antonio Palazzo
JHEP 1602 (2016) 111
Impact Factor: **5.875**, Number of Citations: **44**
e-Print arXiv:1601.05995 [hep-ph]

21. **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: **5.875**, Number of Citations: **10**
e-Print arXiv:1509.03517 [hep-ph]

22. **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: **5.875**, Number of Citations: **7**
e-Print arXiv:1506.08464 [hep-ph]

23. **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
Number of Citations: **181**
e-Print arXiv: 1505.07380 [physics.ins-det]

24. **Probing Non-Standard Interactions at Daya Bay**
Sanjib Kumar Agarwalla, Partha Bagchi, David V. Forero, Mariam Tortola
JHEP 1507 (2015) 060
Impact Factor: **5.875**, Number of Citations: **28**
e-Print arXiv:1412.1064 [hep-ph]
25. **Probing Neutrino Oscillation Parameters using High Power Superbeam from ESS**
Sanjib Kumar Agarwalla, Sandhya Choubey, Suprabh Prakash
JHEP 1412 (2014) 020
Impact Factor: **5.875**, Number of Citations: **21**
e-Print arXiv:1406.2219 [hep-ph]
26. **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: **5.875**, Number of Citations: **65**
e-Print arXiv:1406.3689 [hep-ph]
27. **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: **5.875**, Number of Citations: **88**
e-Print arXiv:1312.6520 [hep-ph]
28. **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: **5.875**, Number of Citations: **34**
e-Print arXiv:1302.6773 [hep-ph]

29. **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: **5.875**, Number of Citations: **40**
e-Print arXiv:1304.3251 [hep-ph]
30. **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: **53**
e-Print arXiv:1402.5250 [hep-ex]
31. **Physics Potential of Long-Baseline Experiments**
Sanjib Kumar Agarwalla
[Adv.High Energy Phys. 2014 \(2014\) 457803](#)
Impact Factor: **1.839**, Number of Citations: **21**
e-Print arXiv:1401.4705 [hep-ph]
32. **Resolving the octant of θ_{23} with T2K and NO ν A**
Sanjib Kumar Agarwalla, Suprabh Prakash, S. Uma Sankar
[JHEP 1307 \(2013\) 131](#)
Impact Factor: **5.875**, Number of Citations: **73**
e-Print arXiv: 1301.2574 [hep-ph]
33. **Potential of optimized NO ν A 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: **5.875**, Number of Citations: **71**
e-Print arXiv: 1208.3644 [hep-ph]

34. **Constraining Non-Standard Interactions of the Neutrino with Borexino**
Sanjib Kumar Agarwalla, Francesco Lombardi, Tatsu Takeuchi
JHEP 1212 (2012) 079
Impact Factor: **5.875**, Number of Citations: **22**
e-Print arXiv: 1207.3492 [hep-ph]
35. **Probing the Neutrino Mass Hierarchy with Super-Kamiokande**
Sanjib Kumar Agarwalla, Pilar Hernández
JHEP 1210 (2012) 086
Impact Factor: **5.875**, Number of Citations: **14**
e-Print arXiv: 1204.4217 [hep-ph]
36. **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: **5.875**, Number of Citations: **45**
e-Print arXiv: 1109.6526 [hep-ph]
37. **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: **5.875**, Number of Citations: **23**
e-Print arXiv: 1105.4984 [hep-ph]
38. **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: **12**
e-Print arXiv: 1105.4077 [hep-ph]

39. **Optimization of the Neutrino Factory, revisited**
Sanjib Kumar Agarwalla, Patrick Huber, Jian Tang, Walter Winter
[JHEP 1101 \(2011\) 120](#)
Impact Factor: **5.875**, Number of Citations: **36**
e-Print arXiv: 1012.1872 [hep-ph]
40. **LSND reloaded**
Sanjib Kumar Agarwalla, Patrick Huber
[Phys.Lett. B696 \(2011\) 359-361](#)
Impact Factor: **4.787**, Number of Citations: **24**
e-Print arXiv: 1007.3228 [hep-ph]
41. **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: **5.875**, Number of Citations: **14**
e-Print arXiv: 1005.4055 [hep-ph]
42. **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: **5.875**, Number of Citations: **11**
e-Print arXiv: 1005.1254 [hep-ph]
43. **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 arXiv: 0909.2257 [hep-ph]

44. **Constraining sterile neutrinos with a low energy beta-beam**
Sanjib Kumar Agarwalla, Patrick Huber, Jonathan M. Link
[JHEP 1001 \(2010\) 071](#)
Impact Factor: **5.875**, Number of Citations: **25**
e-Print arXiv: 0907.3145 [hep-ph]
45. **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 arXiv: 0804.3007 [hep-ph]
46. **Optimizing the greenfield Beta-beam**
Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri, Walter Winter
[JHEP 0806 \(2008\) 090](#)
Impact Factor: **5.875**, Number of Citations: **35**
e-Print arXiv: 0802.3621 [hep-ex]
47. **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: **40**
e-Print arXiv: 0711.1459v1 [hep-ph]
48. **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 arXiv: hep-ph/0611233

49. **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: **38**
e-Print arXiv: hep-ph/0611225
50. **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 arXiv: hep-ph/0610333
51. **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 arXiv: hep-ph/0609252
52. **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 arXiv: hep-ph/0608034
53. **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 arXiv: hep-ph/0505015

III. Papers Communicated to International Refereed Journals (7)

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

Sanjib Kumar Agarwalla, Kirtiman Ghosh, Ayon Patra

Submitted in Physical Review D (PRD)

Number of Citations: **7**

e-Print arXiv: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

Submitted in Physical Review D (PRD)

Number of Citations: **21**

e-Print arXiv: 1412.8425 [hep-ph]

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

S.K. Agarwalla et al.

Submitted in Journal of High Energy Physics (JHEP)

Number of Citations: **15**

e-Print arXiv: 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.

Submitted in Journal of High Energy Physics (JHEP)

Number of Citations: **21**

e-Print arXiv: 1412.0593 [hep-ph]

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

Sanjib Kumar Agarwalla, Suprabh Prakash, Wei Wang

Submitted in Nuclear Physics B (NPB)

Number of Citations: **11**

e-Print arXiv: 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

Submitted in Journal of High Energy Physics (JHEP)

Number of Citations: **27**

e-Print arXiv: 1212.2238 [hep-ph]

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

Sanjib Kumar Agarwalla, R. S. Raghavan

Submitted in Phys. Rev. Lett.

Number of Citations: **11**

e-Print arXiv: 1011.4509 [hep-ph]

IV. Working Group Reports (12)

1. nuSTORM - Neutrinos from STOREd Muons: Proposal to the Fermilab PAC

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

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

FERMILAB-PROPOSAL-1028

2. R&D Argon Detector at Ash River (RADAR) - Letter of Intent

P. Adamson, S. Agarwalla *et al.*

e-Print arXiv: 1307.6507 [physics.ins-det]

3. The EUROnu Project

T.R. Edgecock *et al.*

Phys.Rev.ST Accel.Beams **16** (2013) 021002

e-Print arXiv: 1305.4067 [physics.acc-ph]

4. Neutrinos from Stored Muons nuSTORM: Expression of Interest

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

e-Print arXiv: 1305.1419 [physics.acc-ph]

CERN-SPSC-2013-015, SPSC-EOI-009

5. Expression of Interest for a very long baseline neutrino oscillation experiment (LBNO)

A. Stahl *et al.*

CERN-SPSC-2012-021, SPSC-EOI-007

6. EUROnu-WP6 2010 Report

S.K. Agarwalla *et al.*

e-Print arXiv: 1209.2825 [hep-ph]

7. nuSTORM - Neutrinos from STOREd Muons: Letter of Intent to the Fermilab Physics Advisory Committee

P. Kyberd *et al.*

e-Print arXiv: 1206.0294 [hep-ex]

8. **Light Sterile Neutrinos: A White Paper**
K.N. Abazajian *et al.*
e-Print arXiv: 1204.5379 [hep-ph]

9. **International Design Study for the Neutrino Factory, Interim Design Report**
S. Choubey *et al.*
e-Print arXiv: 1112.2853 [hep-ex]
<https://www.ids-nf.org/wiki/FrontPage/Documentation>

10. **Working group report: Neutrino physics**
S. Choubey *et al.*
Prepared for 10th Workshop on High Energy Physics Phenomenology (WHEPP-X),
IMSc, Chennai, India, 2-13 Jan 2008.
Published in *Pramana* **72**, 269-275 (2009)

11. **Working group report: Astroparticle and neutrino physics**
R. Gandhi *et al.*
Prepared for 9th Workshop on High Energy Physics Phenomenology (WHEPP9),
Bhubaneswar, India, 3-14 Jan 2006.
Published in *Pramana* **67**, 735-742 (2006)

12. **India-based Neutrino Observatory: Project Report. Volume I**
M. S. Athar *et al.* [INO Collaboration]
<http://www.imsc.res.in/ino/OpenReports/INORreport.pdf>

V. Conference Proceedings (14)

1. **Probing NSI in Atmospheric Neutrino Experiments using Oscillation Dip & Valley**

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

Proceedings of the XXIV DAE-BRNS High Energy Physics Symposium 2020, NISER, Bhubaneswar, India, 14-18 December, 2020

e-Print arXiv:2104.06955 [hep-ph]

2. **Constraining Non-Standard Interactions of Neutrino Using ICAL Detector at INO**

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

Proceedings of the 22nd DAE-BRNS HEP Symposium, University of Delhi, Delhi, India, 12-16 December, 2016

Springer Proc.Phys. 203 (2018) 289-292

3. **Looking for Galactic Diffuse Dark Matter in INO-MagICAL Detector**

Sanjib Kumar Agarwalla, Amina Khatun, Ranjan Laha

Proceedings of the 19th International Workshop on Neutrinos from Accelerators (NUFACT 2017)

PoS NuFact2017 (2018) 137

e-Print arXiv:1803.02868 [hep-ph]

4. **Can we measure θ_{23} octant in 3+1 scheme?**

Sanjib Kumar Agarwalla, Sabya Sachi Chatterjee, Antonio Palazzo

Proceedings of the 22nd DAE-BRNS HEP Symposium, University of Delhi, Delhi, India, 12-16 December, 2016

Springer Proc.Phys. 203 (2018) 235-237

e-Print arXiv:1704.07151 [hep-ph]

5. **Neutrino Mass Hierarchy in Future Long-baseline Experiments**

Sanjib Kumar Agarwalla

Prepared for NOW 2012, Otranto, Lecce, Italy, 9th-16th September, 2012

Nucl.Phys.Proc.Suppl. 237-238 (2013) 196-198

6. **Optimized Neutrino Factory for small and large θ_{13}**
Sanjib Kumar Agarwalla
Contribution to the 13th International Workshop on Neutrino Factories, Superbeams and Beta beams (NuFact11), 1-6 August 2011, CERN and University of Geneva
J.Phys.Conf.Ser. 408 (2013) 012022
e-Print arXiv:1110.3681 [hep-ph]
7. **New approach to anti-neutrino from muon decay at rest**
Sanjib Kumar Agarwalla
Prepared for the 46th Rencontres De Moriond On Electroweak Interactions And Unified Theories, 13-20 Mar 2011, La Thuile, Aosta Valley, Italy
e-Print arXiv:1107.4951 [hep-ph]
8. **Constraining sterile neutrinos with a low energy beta-beam**
Sanjib Kumar Agarwalla
AIP Conf. Proc. **1222**, 169-173 (2010)
e-Print arXiv: 1006.1640 [hep-ph]
9. **CERN-INO magical Beta-beam experiment: A high precision probe for neutrino parameters**
Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri
PoS **NUFACT08**, 034 (2008)
e-Print arXiv: 0811.1822 [hep-ph]
10. **Probing neutrino parameters with a Two-Baseline Beta-beam set-up**
Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri
PoS **NUFACT08**, 113 (2008)
e-Print arXiv: 0811.1822 [hep-ph]
11. **Optimizing the Greenfield Beta-Beam**
Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri, Walter Winter
J. Phys. Conf. Ser. **136**, 042033 (2008)

12. **Neutrino parameters with magical beta-beam at INO**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri
J. Phys. Conf. Ser. **136**, 042029 (2008)

13. **Physics with Beta-Beam**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri
AIP Conf. Proc. **981**, 84-88 (2008)
e-Print arXiv: 0712.4072 [hep-ph]

14. **Magic Baseline Beta Beam**

Sanjib Kumar Agarwalla, Sandhya Choubey, Amitava Raychaudhuri
AIP Conf. Proc. **939**, 265-268 (2007)
e-Print arXiv: 0707.3367 [hep-ph]