

Curriculum Vitae

<https://inspirehep.net/authors/1039649>

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Sanjib Kumar Agarwalla

Associate Professor - G

Specialization: High Energy Particle Physics

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Wisconsin IceCube Particle Astrophysics Center (WIPAC),
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Family Details:

Married to **Dr. Deepali Mathur** (Ph.D. in Experimental Neuroscience, University of Valencia, Spain. Currently working as a Post-Doctoral Fellow at the Neuroscience Department of University of Wisconsin-Madison, USA), **Child:** Tulsi Agarwalla (studying in the fourth standard, Shorewood Hills Elementary, Madison, WI, USA)

Work Experience

- **January 2023 - till date:**
Visiting Professor at University of Wisconsin-Madison, Madison, Wisconsin, USA
- **March 2022 - December 2022:**
Fulbright-Nehru Fellow at University of Wisconsin-Madison, Madison, Wisconsin, USA
- **July 2019 - till date:**
Associate Professor - G at Institute of Physics, Bhubaneswar, Odisha, India
- **July 2014 - June 2019:**
Reader-F at Institute of Physics, Bhubaneswar, Odisha, India
- **January 2013 - June 2014:**
Assistant Professor at Institute of Physics, Bhubaneswar, Odisha, India
- **October 2010 - December 2012:**
Post-Doctoral Research Associate at IFIC, University of Valencia, Valencia, Spain
- **October 2008 - September 2010:**
Post-Doctoral Research Associate at Physics Dept., Virginia Tech, Blacksburg, USA

Education

- **Ph.D. from University of Calcutta, India (September 2003 - September 2008)**
- **M.Sc. from University of Calcutta, India (2001 - 2003)**
- **B.Sc. from Scottish Church College, Kolkata, India (1998 - 2001)**

Awards/Honours/Research Grants

- **Appointed as an Honorary Fellow of the Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA**
- **Fulbright-Nehru Academic and Professional Excellence Fellowship (FNAPE) to conduct research work on “Massive Neutrinos” at the University of Wisconsin-Madison, Madison, WI, USA (March 2022 to December 2022)**

- **Associate Membership of the Abdus Salam International Centre for Theoretical Physics (ICTP) for Six Years (2022 to 2027)**
- **Featured in the Coffee Table Book titled “75 Scientists under 50” as a part of the Golden Jubilee Celebrations of the Department of Science and Technology (DST), Govt. of India**
- **The N. S. Satya Murthy Memorial Award 2020 by the Indian Physics Association (IPA)**
- **The Department of Science and Technology (DST) Swarnajayanti Fellowship 2020-2025**
- **Research Grant of Rs. 1 (One) Crore (Approx.) from the Science and Engineering Research Board (SERB), Government of India to pursue research in the field of neutrino physics for the duration 2020-2025**
- **The B. M. Birla Science Prize in Physics for the year 2018 by the B. M. Birla Science Centre** (sole winner of this award for 2018, announced on 10th January, 2020)
- **Young Scientist Research Grant for three years (2018 to 2021) from Indian National Science Academy (INSA)**
- **Recipient of the NASI Scopus Young Scientist Awards 2016 - Physics category**
- **Appointed as Simons Associate of The Abdus Salam International Centre for Theoretical Physics (ICTP) from 1st January 2015 to 31st December, 2021**
- **Awarded with the National Academy of Sciences (NASI) - Young Scientist Platinum Jubilee Award (2014)**
- **Awarded with the Indian National Science Academy (INSA) Medal for Young Scientists - 2014**
- **Awarded with the Associateship of Indian Academy of Sciences, July, 2013**
- **Recipient of DST/INSPIRE Faculty Award [IFA-PH-12], 11th May, 2012**
(Only availed the Research Grant from this award)
- **Best student award of NuFact 2007 Summer School (KEK, Tsukuba, Japan)**

Publication Details

According to Google Scholar: h-index is 33 and i10-index is 68

- **Papers published in International Refereed Journals (65)**
- **Papers communicated to International Refereed Journals (8)**
- **Working Group Reports (13)**
- **Conference Proceedings (21)**

Reviewer of the Journals

- **Journal of High Energy Physics [JHEP]**
- **European Physical Journal C [EPJC]**
- **Modern Physics Letters A [MPLA]**
- **Universe**
- **Advances in High Energy Physics [AHEP]**

Service to the Community

- **Organizer of the international workshop on “Multi-messenger Tomography of Earth (MMTE 2023)” which was held at APC-Université Paris Cité, Paris, France, during 4th to 7th July, 2023**
<https://indico.in2p3.fr/event/30001/>
- **Organizer of the international workshop on “Multi-messenger Tomography of Earth (MMTE 2022)” which was held at The Cliff Lodge at Snowbird, Salt Lake City, Utah, USA, during 30th to 31st July, 2022**
<https://indico.fnal.gov/event/53004/page/2944-multi-messenger-tomography-of-earth-mmte-2022-workshop>

- **Convenor of the Theoretical Physics Seminar Circuit (TPSC) at Institute of Physics, Bhubaneswar**
<http://newweb.bose.res.in/LinkageProgrammes/TPSC/CentersConvenors.jsp>
- **One of the main organizers of the International Online Workshop on Outlook for INO, IICHEP, and Beyond, TIFR, Mumbai, India, 19th to 20th February, 2021**
<https://indico.ino.tifr.res.in/event/583/>
- **One of the conveners of Working Group - 5 (Neutrinos Beyond PMNS) of NuFact 2018 International Workshop which was held at the Physics Department of Virginia Tech, Blacksburg, USA, 12th to 18th August, 2018**
<https://nufact2018.phys.vt.edu>
- **Organized the advanced workshop on ‘Physics of Atmospheric Neutrinos - PANE 2018’ which was held at ICTP, Trieste, Italy during 28th May to 1st June, 2018**
<http://indico.ictp.it/event/8312/>
- **Organized a Colloquium Series (five colloquiums) at IOP in the memory of our beloved Professor Durga Prasad Roy in November, 2017**
<http://www.iopb.res.in/dprc.pdf>
- **One of the conveners of Working Group - 5 (Neutrinos Beyond PMNS) of NuFact 2017 International Workshop which was held at the Uppsala University, Uppsala, Sweden during 25th to 30th September, 2017**
<https://indico.uu.se/event/324/>
- **Organizer of the Indo-Japan Neutrino Meeting at IOP, Bhubaneswar on 15th May, 2017**
<http://www.iopb.res.in/ijnm2017>
- **Convener of the High Energy Physics (HEP) school on LHC and Neutrinos – Probing the frontiers of particle physics with Neutrinos and LHC during 17th October to 21st October, 2016 at Institute of Physics, Bhubaneswar**
<http://www.iopb.res.in/hepschool2016/>
- **One of the conveners of Working Group - 5 (Neutrinos Beyond PMNS) of NuFact 2016 International Workshop which was held at ICISE, Quy Nhon, Vietnam during 21st to 27th August, 2016**
<http://vietnam.in2p3.fr/2016/nufact/>

- **One of the main organizers of the academic visit of B.Sc. Physics (Hons.) final year students from S.B.R. Govt. (Autonomous) Women's college, Berhampur, Odisha to celebrate National Science Day 2016 at IOP, Bhubaneswar on 28th February, 2016**
- **Convener of Working Group – III (Neutrino Physics) of Workshop on High Energy Physics Phenomenology (WHEPP XIV) which was held during 4th to 13th December, 2015 at Indian Institute of Technology – Kanpur, India**
<http://www.iitk.ac.in/phy/activities/2015-2016/whepp/>
- **One of the main organizers of COSMOASTRO15 – Discussion Meeting on Cosmology and Astro-Particle Physics during 30th October to 5th November, 2015 at Institute of Physics, Bhubaneswar**
<http://www.iopb.res.in/~cosmoastro15/>
- **Coordinator of the science outreach event for school and college students held at IOP on 1st February, 2015 to celebrate the Diamond Jubilee of the Department of Atomic Energy (DAE)**
<http://www.iopb.res.in/~outreach/>
- **Panel discussion on the India-based Neutrino Observatory project with the students at TIFR, Mumbai organized by Rajyasabha TV (RSTV)**
<https://www.youtube.com/watch?v=RWQaqvwMKdQ>

Professional Memberships

- **Member of the IceCube Collaboration**
 (Actively involved in the analysis of IceCube-DeepCore data and physics simulation studies related to IceCube-Upgrade)
<https://icecube.wisc.edu>
- **Member of the India-based Neutrino Observatory (INO) Collaboration**
 (Actively involved in the physics and detector simulation studies)
<http://www.ino.tifr.res.in/inol/>
- **Life Member of the Indian Physics Association (IPA)**
<https://www.tifr.res.in/~ipa1970/>

- **Member of the DAE Vision Scheme - 7 (Mega Science) Sub-committee**
(Helping Project Appraisal Committee constituted by Secretary, DAE)
- **Member of the International Design Study for the Neutrino Factory**
<https://www.ids-nf.org/wiki/FrontPage>

Research Interests

- **Neutrino Oscillation Phenomenology**
(Neutrino beams, Solar and Atmospheric neutrinos, Reactor neutrinos)
- **Phenomenology with Sterile Neutrinos**
- **Direct and Indirect Searches of Dark Matter**
- **Beyond Standard Model studies (Lepton Number and Flavor Violation)**
- **RGE and possible connection between CKM and PMNS matrix**
- **Neutrino Astronomy**
(Stellar Neutrinos, Supernovae, High Energy Cosmic Neutrinos)
- **Neutrino Geophysics and the Earth matter profile**
- **Neutrino Event Generator (GENIE) & Detector simulation with GEANT4 package**
- **Analysis of IceCube data & physics simulation studies related to IceCube-Upgrade**
- **Physics and Detector Simulation Studies related to the Iron Calorimeter (ICAL) detector at the India-based Neutrino Observatory (INO) facility, Deep Underground Neutrino Experiment (DUNE) in USA, Tokai to Hyper-Kamiokande (T2HK) Experiment in Japan**

Mentoring

- **Ph.D. Students**

Dr. Sabya Sachi Chatterjee, Ph.D. Completed in 2018 (Now Postdoc at IPhT CEA-Saclay, Saclay, France)

Dr. Amina Khatun, Ph.D. Completed in 2019 (Now Postdoc at Comenius University, Bratislava, Slovakia)

Dr. Anil Kumar, Ph.D. Completed in 2022 (Now Postdoc at DESY, Zeuthen, Germany)

Mr. Sudipta Das, IOP Ph.D. Student, Started in September, 2019

Mr. Pragyansprasu Swain, IOP Ph.D. Student, Started in September, 2019

Mr. Ritam Kundu, IOP Ph.D. Student, Started in September, 2019

Ms. Sharmistha Chattopadhyay, IOP Ph.D. Student, Started in March, 2022

Mr. Sadashiv Sahoo, INO Ph.D. Student, Started in December, 2019

Ms. Masoom Singh, DST/INSPIRE Fellow, Started in January, 2018

Mr. Anuj Upadhyay, DST/INSPIRE Fellow, Started in August, 2021

Mr. Krishnamoorthi Jayakumar, JRF under the DST-SERB Swarnajayanti Project, Started in April, 2022

- **Master's Thesis**

Ms. Nityasa Mishra, BITS Pilani, 1st June to 31st December 2017

Mr. Aman Gupta, IIT Roorkee, July 2017 to May, 2018

- **Summer Project Students**

Mr. Md Ful Hossain Sk (Aligarh Muslim University), 16th May to 24th July 2019

Mr. Sujit Kumar Sahoo (Indian Institute of Technology (ISM) Dhanbad), 16th May to 22nd July 2019

Ms. Nimmy Alex Sarah (Assumption College, Kottayam), 14th May to 9th July 2019

Ms. Nandana Rajeev (Mar Athanasius College, Kothamangalam), 14th May to 9th July 2019

Mr. Anuj Upadhyay (Aligarh Muslim University), 19th June to 7th August 2018

Mr. Ashish Narayan (NIT Rourkela), 21st June to 21st July 2018

Ms. Priyanka Baghel (Central University of Haryana), 21st June to 20th July 2018

Mr. Aman Gupta (IIT Roorkee), May to July 2017

Mr. Paras Koundal (IISER Mohali), May to July 2017

Ms. Tanvi Wamorkar (Delhi University), May to July 2013

- **Postdocs/Visitors**

Dr. Atanu Maulik, mini-DINO Dark Matter Project, April, 2014 to February, 2015

Dr. Arnab Dasgupta, May 2015 to May 2017

Dr. C. Soumya, 11th February, 2020 to 11th August, 2021 (NPDF from DST-SERB)

Dr. Mehedi Masud, October 2019 to September, 2020

Mr. Manoranjan Dutta, March to June 2018

Mr. Aman Gupta, August to December 2018

Mr. Anuj Upadhyay, July to October 2019

Dr. Samiran Roy, November 2021 to February 2022

Dr. Ashish Narang, Started on 10th September, 2021 (funded by the DST-SERB Swarnajayanti Project)

Teaching/Lectures

- **Two lectures (1.5 hours each) on “Neutrino Phenomenology” during the 7th Vietnam School on Neutrinos, ICISE, Quy Nhon, Binh Dinh, Vietnam, 20th to 21st July, 2023**
- **One lecture (30 minutes) on “Neutrino Physics and Oscillations” during the IceCube Summer School, Wisconsin IceCube Particle Astrophysics Center, Madison, Wisconsin, USA, 5th June, 2023**
- **One lecture (30 minutes) on “Neutrino Oscillations and Beyond the Standard Model Physics” during the IceCube Bootcamp, Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA, 15th June, 2022**

- One lecture (1 hour) on “A Preamble to Neutrinos” during the PtRC Project Outreach Training Program, IICHEP, Madurai, Tamil Nadu, India, 18th September, 2021
- One lecture (1.5 hours) on “Phenomenology of Light Sterile Neutrino” during the Vietnam Neutrino School, ICISE, Quy Nhon, Vietnam, 8th September, 2021
- One lecture (1.5 hours) on “Present and Future of Neutrino Oscillations” during the Virtual HEP-PHENO School, 5th September, 2021
- One lecture (1 hour) on “A Preamble to Neutrinos” during the PtRC Project Outreach Training Program, IICHEP, Madurai, Tamil Nadu, India, 2nd September, 2021
- Six lectures (1.5 hours each) on Neutrino Physics during the Science Academies’ Refresher Course on “Frontiers of Theoretical Physics” (SARCFTP), sponsored by the Indian Academy of Sciences (IASc), Indian National Science Academy (INSA), and the National Academy of Sciences (NASI), India and organised by the Physics Department, Assam Don Bosco University during 10th to 12th February, 2021
- Particle Physics Course for the Pre-Doctoral Students of IOP, January to July 2020
- Two lectures (1.5 hours each) on “Phenomenology of Light Sterile Neutrino” during the Vietnam Neutrino School, ICISE, Quy Nhon, Vietnam, 16th to 17th July 2019
- Three lectures (1.5 hours each) on Neutrino Physics during the SERB School on Experimental High Energy Physics, TIFR, Mumbai, India, 24th to 26th January 2019
- Particle Physics Course for the Pre-Doctoral Students of IOP, January to May 2019
- Act as a tutor for Neutrino Physics Course during XIth SERC School on Experimental High Energy Physics at NISER, Bhubaneswar, 21st November, 2017
- Particle Physics Course for the Pre-Doctoral Students of IOP, March to May 2016
- Particle Physics Course for the Pre-Doctoral Students of IOP, March to May 2015
- Particle Physics Course for Pre-Doctoral Students of IOP, February to April 2014

Colloquiums, Seminars, and Invited Talks

1. **A journey into the interior of Earth with Neutrinos**

Special HEP seminar given at the Physics & Astronomy Department, Northwestern University, Evanston, Illinois, USA, 12th January 2024

2. **Neutrino Oscillation Parameters: Present and Future**

Invited talk given at the 16th International Conference on Heavy Quarks and Leptons (HQL2023), TIFR, Mumbai, Maharashtra, India, 29th November 2023

3. **Looking inside the Earth with Neutrinos**

Invited talk given at the NCRAMPP-2023 conference, P.G. Dept. of Physics, Berhampur University, Berhampur, Odisha, India, 25th November 2023

4. **Imaging the Earth with Atmospheric Neutrinos**

Invited talk given at the IRCHEP 1402 conference, School of Physics, IPM, Tehran, Iran, 22nd November 2023

5. **IceCube: Highlights and Prospects**

Invited talk given at the GW-EM-Nu-2023 conference, TIFR, Mumbai, Maharashtra, India, 20th November 2023

6. **A journey into the interior of Earth with Neutrinos**

Colloquium given at the Physics Department, University of Hawaii at Manoa, Honolulu, Hawaii, USA, 9th November 2023

7. **Imaging the Deep Earth with Neutrinos**

Webinar given at the Department of Physics and Geophysics, Kurukshetra University, Kurukshetra, Haryana, India, 27th October 2023

8. **Exploring Earth Matter Effects and features of PREM with IceCube Upgrade**

Talk given at the Fall 2023 IceCube Collaboration Meeting, Grand Rapids, MI, USA, 19th October 2023

9. **Neutrino Tomography: A journey into the interior of Earth**

Colloquium given at the Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA, 6th October 2023

10. **Unmatched Precision on Neutrino Oscillation Parameters using Complementarity between DUNE and T2HK**

N3AS Online Seminar, Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA, 8th August 2023

11. **Present Status and Future Prospects of a Light eV-Scale Sterile Neutrino**

Invited talk given at the Neutrino Workshop, IFIRSE, ICISE, Quy Nhon, Vietnam, 18th July 2023

12. **Unprecedented Precision on Neutrino Oscillation Parameters using Synergy between DUNE and T2HK**

Invited talk given at the WIN 2023 conference, Sun Yat-sen University Zhuhai Campus, Zhuhai, China, 7th July 2023

13. **Probing the interior of Earth using neutrino oscillations in IceCube-DeepCore**

Invited talk given at the “Multi-messenger Tomography of Earth (MMTE 2023)” workshop, APC-Université Paris Cité, Paris, France, 5th July 2023

14. **Landscape of CP Violation in Long-baseline Experiments**

NPAC Seminar, Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA, 27th April 2023

15. **Imaging the Deep Earth with Neutrinos**

Invited talk given at the Department of Physics, Odisha University of Technology and Research, Bhubaneswar, Odisha, India, 7th December 2022

16. **Multi-Messenger Tomography of Earth**

Invited talk given at the IceCube Collaboration Meeting, Madison, Wisconsin, USA, 21st September, 2022

17. **Summary of “Multi-Messenger Tomography of Earth (MMTE 2022)” Workshop**

Invited talk given at the NuFact 2022 Conference, The Cliff Lodge at Snowbird, Salt Lake City, Utah, USA, 4th August, 2022

18. **Earth’s Matter Effect in Neutrino Oscillation**

Talk given at the “Multi-messenger Tomography of Earth (MMTE 2022)” workshop, The Cliff Lodge at Snowbird, Salt Lake City, Utah, USA, 31st July, 2022

19. **Complementarity among Next-generation Long-baseline Experiments**
Invited talk given at the Snowmass Summer Meeting, University of Washington, Seattle, USA, 19th July 2022

20. **Core-passing atmospheric neutrinos:
a unique probe to discriminate between Lorentz violation and non-standard interactions**
Talk given at the WIPAC Group Meeting, Madison, Wisconsin, USA, 8th July, 2022

21. **Imprints of Lorentz Violation in Neutrino Oscillation Experiments**
NPAC Seminar, Physics Department, University of Wisconsin-Madison, Madison, Wisconsin, USA, 7th July, 2022

22. **Lorentz Violation in Neutrino Oscillations**
Invited talk given at the Ninth Meeting on CPT and Lorentz Symmetry, Indiana University, Bloomington, Indiana, USA, 26th May, 2022

23. **Cutting Edge Research with Invisible Neutrinos**
Invited talk given at the National Science Day Celebration, Physics Department, Tezpur University, Assam, India, 1st March, 2022

24. **New Opportunities at Future Long-Baseline Experiments**
Invited Plenary talk given at the IRCHEP 1400 Online Conference, School of Physics, IPM, Tehran, Iran, 9th November, 2021

25. **Physics with Atmospheric Tau Neutrino at ICAL-INO**
Invited Plenary talk given at the NuTau2021 Workshop, BNL, Upton, USA, 1st October, 2021

26. **Exploring BSM Physics at Neutrino Oscillation Experiments**
Invited Plenary talk given at the NuFact 2021 Conference, Cagliari, Italy, 10th September, 2021

27. **Landscape of BSM Physics at Neutrino Experiments**
Invited Plenary talk given at the 20th Lomonosov Conference, Moscow State University, Moscow, Russia, 25th August, 2021

28. **Probing the Earth's Core using Atmospheric Neutrinos at INO**
Talk given at the EPS-HEP Conference 2021, University of Hamburg/DESY, Germany, 29th July, 2021

29. **Dream Big in 2021 with India-based Neutrino Observatory**

Webinar given at the SASTRA University, Thanjavur, Tamil Nadu, India, 6th January, 2021

30. **Exciting Journey of Oscillating Neutrinos**

Webinar given at the Department of Physics, Scottish Church College, Kolkata, India, 17th December, 2020

31. **BSM Searches in Neutrino Experiments**

Invited Plenary talk given at the Neutrino 2020 Online Conference, Fermilab, Chicago, USA, 24th June, 2020

32. **Search for Sterile Neutrino**

Online Neutrino Lecture Series by the INO Collaboration, 15th May, 2020

33. **India-based Neutrino Observatory: Present Status and Physics Goals**

Invited talk given at the International Conference on Synergy of Sciences (ICSS - 2020), SASTRA Deemed University, Thanjavur, Tamil Nadu, India, 29th February, 2020

34. **Massive Neutrinos: A Window for Physics Beyond the Standard Model**

Invited talk given at the Winter Astronomy School, B. M. Birla Science Centre, Hyderabad, India, 18th February, 2020

35. **Physics Goals of ICAL**

Plenary talk given at the INO Collaboration meeting, TIFR, Mumbai, India, 16th November, 2019

36. **Matter Effect in Long-baseline Experiments**

Invited talk given at the Prospects of Neutrino Physics Workshop, Kavli IPMU, Kashiwa, Japan, 12th April, 2019

37. **India-based Neutrino Observatory: Present Status and Physics Reach**

Invited talk given at the Prospects of Neutrino Physics Workshop, Kavli IPMU, Kashiwa, Japan, 11th April, 2019

38. **Neutrino Oscillation: Present Status and Future Prospects**

Invited talk given at the National Seminar on Recent Advances in Physics (NSRAP-2019), P.G. Department of Physics, Berhampur University, Berhampur, Odisha, India, 23rd March, 2019

39. **Discussion on Light Sterile Neutrino**

IITB - ICTP Workshop on Neutrino Physics, IIT Bombay, Mumbai, India, 14th December, 2018

40. **Atmospheric ν Oscillation: Celebrating 20 years of Super-K Discovery & Beyond**

Seminar given at ICTP, Trieste, Italy, 17th September, 2018

41. **Addressing Neutrino Mixing Models with T2HK and DUNE**

Invited talk given at the Neutrino Oscillation Workshop (NOW) 2018, Ostuni, Italy, 14th September, 2018

42. **Neutrino Physics: An Introduction**

Two pedagogical lectures given during the Lecture Workshop on High Energy Physics at Department of Physics, Maharajah's College (Autonomous), Vizianagaram, Andhrapradesh, India, 9th to 10th August, 2018

43. **Oscillation with Three Active and One Light Sterile Neutrinos**

Seminar given at ICTP, Trieste, Italy, 7th June, 2018

44. **Sensitivity of Long-baseline Experiments with a Sterile Neutrino**

Seminar given at INFN Padova, Padova, Italy, 25th May, 2018

45. **Light eV-scale Sterile Neutrino in Long-baseline Experiments**

Seminar given at INFN Rome, Rome, Italy, 14th May, 2018

46. **Atmospheric Neutrinos: Status and Prospects**

Invited talk given at the Nu HoRizons VII Conference, HRI, Allahabad, India, 21st February, 2018

47. **Recent Developments in Neutrino Oscillations and Future Outlook**

Invited Plenary talk given at WHEPP XV workshop, IISER Bhopal, Bhopal, India, 20th December, 2017

48. **Indirect Searches of Galactic Diffuse Dark Matter in INO-MagICAL Detector**

Talk given at the NuFact 2017 Conference, Uppsala University, Uppsala, Sweden, 28th September, 2017

49. **Can New Physics spoil the measurement of Octant of θ_{23} ?**

Seminar given at ICTP, Trieste, Italy, 21st September, 2017

50. **Can we probe Octant of θ_{23} in presence of New Physics?**

Seminar given at the Laboratori Nazionali del Gran Sasso (LNGS), Assergi, Italy, 8th September, 2017

51. **Non-Standard Interactions in Borexino and Daya Bay**

Invited talk given at the workshop on Recent Developments in Neutrino Physics and Astrophysics, LNGS, Assergi, Italy, 5th September, 2017

52. **Known and Unknown Parameters in Neutrino Oscillation**

Talk given during UGC-DRS Sponsored National Seminar on Current Trends in Physics at Department of Physics, Utkal University, Bhubaneswar, Odisha, India, 31st March, 2017

53. **India-based Neutrino Observatory: The Search for Invisible Neutrinos**

Talk given during DST- Inspire Internship Programme at School of Biotechnology, KIIT University, Bhubaneswar, India, 13th January, 2017

54. **Fundamental Unknowns in Neutrino Oscillation and their Future**

Seminar given at ICTP, Trieste, Italy, 13th December, 2016

55. **Addressing Fundamental Unknowns in Neutrino Oscillation**

Seminar given at Istituto Nazionale di Fisica Nucleare (INFN), Milan, Italy, 29th November, 2016

56. **Neutrino Oscillation Parameters: Present Status and Future Roadmap**

Invited talk given at the 82nd Annual Meeting of Indian Academy of Sciences, IISER Bhopal, Bhopal, 4th November, 2016

57. **Neutrino Mass Hierarchy and CP-violation: How to get them?**

Invited talk given at the workshop on New Frontiers in Electroweak Interactions of Leptons and Hadrons, Aligarh Muslim University, Aligarh, India, 2nd November, 2016

58. **A Thrilling Journey into the World of Neutrinos**

Invited talk given at the Department of Physics, College of Engineering and Technology (CET), Techno Campus, Bhubaneswar, 22nd October, 2016

59. **Three-Flavor Oscillations**

Pedagogical lecture given during the High Energy Physics (HEP) School on LHC and Neutrinos at Institute of Physics, Bhubaneswar, 20th October, 2016

60. **Working Group 5 (Neutrinos Beyond PMNS) Summary Talk**

Talk given at the NuFact 2016 Conference, Quy Nhon, Vietnam, 27th August, 2016

61. **Impact of Light Sterile Neutrinos at Long-baselines**

Talk given at the NuFact 2016 Conference, Quy Nhon, Vietnam, 26th August, 2016

62. **Physics Reach of DUNE in 3+1 Scheme**

Talk given at the DUNE Physics Working Group meeting, Fermilab, USA, 26th April, 2016

63. **Neutrino Mass Hierarchy and CP-violation: Future Prospects**

Invited talk given at the PHENO1@IISERM workshop, IISER Mohali, 6th April, 2016

64. **The Race for Neutrino Mass Hierarchy**

Invited talk given at the Frontiers in High Energy Physics III meeting, IMSc, Chennai, 22nd March, 2016

65. **Future Prospects for Mass Hierarchy Discovery**

Invited talk given at the Nu HoRizons VI Conference, HRI, Allahabad, 17th March, 2016

66. **Opening a New Era in Neutrino Physics**

Invited talk given at the School of Physics, Sambalpur University, Odisha, India, 19th February, 2016

67. **Flavor-Dependent Long-Range Forces in Long-Baseline Experiments**

Talk given at the DUNE Physics Working Group meeting, Fermilab, USA, 13th October, 2015

68. **Can Daya Bay Probe Non-Standard Neutrino Interactions?**

Invited talk given at the IPP15 Conference, School of Physics, IPM, Tehran, Iran, 27th September, 2015

69. **Unraveling Neutrino Properties at the India-based Neutrino Observatory**

Talk given at the Internal Symposium of Institute of Physics (IOP) to celebrate 40th year of Academic Activities, Bhubaneswar, Odisha, India, 27th August, 2015

70. **Standard and Non-Standard Oscillation Physics at ICAL-INO**

Talk given at the Crossroads of Neutrino Physics Workshop, MITP, Johannes Gutenberg University, Mainz, Germany, 28th July, 2015

71. **Roadmap for Neutrino Mass Hierarchy**

Plenary talk given at the INO Collaboration meeting, IIT Madras, Chennai, India, 3rd April, 2015

72. **Constraining Active - Sterile mixing at ICAL detector with atmospheric neutrinos**

Talk given at the INO Collaboration meeting, IIT Madras, Chennai, India, 2nd April, 2015

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

Seminar given at the Centre for Theoretical Physics, Jamia Millia Islamia, New Delhi, India, 9th March, 2015

74. **Talking to Neutrinos at the India-based Neutrino Observatory (INO)**

Colloquium given at the Centre for Theoretical Physics, Jamia Millia Islamia, New Delhi, India, 5th November, 2014

75. **Projected Sensitivity from ICAL + LBL Experiments**

Talk given at the INO Collaboration meeting, IICHEP, Madurai, India, 18th September, 2014

76. **Exploring Neutrino Properties at the India-based Neutrino Observatory (INO)**

Colloquium given at the Utkal University, Bhubaneswar, India, 6th September, 2014

77. **Neutrino Properties from Recent Reactor and Accelerator Experiments**

Seminar given at the Alumni Day Celebration, Institute of Physics, Bhubaneswar, India, 3rd September, 2014

78. **Recent Developments in Neutrino Oscillations & Future Roadmap**
Seminar given at Tata Institute of Fundamental Research (TIFR), Mumbai, India, 22nd August, 2014
79. **Enhancing Sensitivity to Neutrino Parameters with Inelasticity measurement in Atmospheric Neutrinos at ICAL-INO**
Seminar given at IFIC, University of Valencia, Valencia, Spain, 10th July, 2014
80. **India-based Neutrino Observatory (INO)**
Invited talk given at the ICHEP 2014 Conference, Valencia, Spain, 4th July, 2014
81. **Implications of Recent Measurements in Neutrino Sector & Future Directions**
Colloquium given at the APC Laboratory, Paris, France, 27th June, 2014
82. **Overview of Currently Running Reactor and Accelerator Experiments**
Invited plenary talk given at the Global Neutrino meeting, Paris, France, 23rd June, 2014
83. **Statistical Significance of Mass Hierarchy in Future Experiments**
Invited plenary talk given at the INO Collaboration meeting, VECC, Kolkata, India, 5th April, 2014
84. **Neutrino Oscillation Experiments: Latest Results & Future Roadmap**
Invited talk given at WHEPP 2013 workshop, Puri, Orissa, India, 15th December, 2013
85. **Neutrino Program in India**
Invited talk given at the ICFA Neutrino Panel: Asian Neutrino Community Meeting, Kavli IPMU, Kashiwa, Japan, 13th November, 2013
86. **Status and Prospects of India-based Neutrino Observatory**
Invited plenary talk given at the NNN13 International Workshop, Kavli IPMU, Kashiwa, Japan, 12th November, 2013
87. **Recent Advances in Neutrino Physics and Future Roadmap**
Talk given at Institute of Physics, Bhubaneswar, India, 26th September, 2013
88. **Implications of Recent Measurements in Neutrino Sector and Future Directions**

Invited plenary talk given at the International Conference on ‘Triggering Discoveries in High Energy Physics’, University of Jammu, India, 10th September, 2013

89. **Resolving θ_{23} Octant in Current and Future Oscillation Facilities**

Invited talk given at the NUFACT 2013 workshop, Institute of High Energy Physics (IHEP), Beijing, China, 20th August, 2013

90. **India-based Neutrino Observatory**

Talk given at Institute of Physics, Bhubaneswar, India, 24th May, 2013

91. **Three Flavor Effects in Current and Future Oscillation Facilities**

Invited plenary talk given at the IPM international school and workshop on Particle Physics (IPP13), Tehran, Iran, 4th May, 2013

92. **Electroweak Measurements with nuSTORM**

Talk given at the nuSTORM workshop, Virginia Tech, Blacksburg, USA, 14th April, 2013

93. **Expectations from T2K and NO ν A in light of recent Neutrino Data**

Talk given at the e-NuMI phone meeting, Fermilab, USA, 27th February, 2013

94. **Status of Sterile Neutrinos**

Invited review talk given at the XX DAE-BRNS HEP symposium, Visva-Bharati, Santiniketan, India, 15th January, 2013

95. **New Physics Searches with ^7Be Solar Neutrinos**

Talk given at the IVICFA Theoretical Physics Mini-Workshops, Instituto De Fisica Corpuscular, Valencia, USA, 16th November, 2012

96. **Searching for New Physics at Borexino**

Talk given at Virginia Tech, Blacksburg, Virginia, USA, 20th October, 2012

97. **Elastic Neutrino-Electron scattering in near detectors**

Invited talk given at the 9th IDS-NF Plenary meeting, Fermilab, USA, 9th October, 2012

98. **Probing Non-Standard Interactions with Borexino**

Invited talk given at the IPP12 workshop, School of Physics, IPM, Tehran, Iran, 30th September, 2012

99. **Electro-weak Precision Tests with nuSTORM**

Invited talk given at the nuSTORM 2012 workshop, Fermilab, USA, 22nd September, 2012

100. **Mass Hierarchy in Future Long-baseline Experiments**

Invited talk given at the NOW 2012, Otranto, Lecce, Italy, 15th September, 2012

101. **Mass Hierarchy with Super-K**

Invited talk given at the 4th EUROnu annual meeting, APC, Paris, France, 13th June, 2012

102. **Optimization of Neutrino Factory for large θ_{13}**

Invited plenary talk at the 4th EUROnu annual meeting, APC, Paris, France, 13th June, 2012

103. **Non-zero θ_{13} and Beyond**

Seminar given at Physics Department, Calcutta University, Kolkata, India, 26th April, 2012

104. **Re-optimization of Neutrino Factory for large θ_{13}**

Talk given at 8th IDS-NF plenary meeting, University of Glasgow, Scotland, 19th April, 2012

105. **Sterile Neutrino Searches: Current Status & Future Prospects**

Talk given at Informal pre-meeting of Invisibles at Madrid, Spain, 30th March, 2012

106. **Neutrino Oscillation Parameters: Current Knowledge and Future Goals**

Seminar given at Indian Institute of Science Education and Research Bhopal, 13th February, 2012; Indian Institute of Technology Kanpur, 8th February, 2012; Indian Institute of Science Education and Research Mohali, 2nd February, 2012; Indian Institute of Technology Gandhinagar, 25th January, 2012; Indian Institute of Science Education and Research Pune, 23rd January, 2012; Indian Institute of Technology Bombay, 19th January, 2012; Indian Institute of Technology Madras, 6th January, 2012; Institute of Physics, Bhubaneswar, Orissa, India, 7th December, 2011

107. **Hunt for the Sterile Neutrinos: Present Status & Future Prospects**

Seminar given at Harish-Chandra Research Institute, Allahabad, 7th February, 2012; Saha Institute of Nuclear Physics, Kolkata, 31st January, 2012; Physical Research Laboratory, Ahmedabad, 24th January, 2012; Tata Institute of Fundamental Research, Mumbai, 17th January, 2012; Indian Institute of Mathematical Sciences, Chennai, India, 5th January, 2012

108. **Neutrinos: A Probe of the Universe & Window Beyond the Standard Model**

Colloquium given at Harish-Chandra Research Institute, Allahabad, India, 6th February, 2012

109. **Sterile Neutrino Searches: Current Status & Future Prospects**

Invited talk given at WHEPP XII workshop, Mahabaleswar, India, 12th January, 2012

110. **Physics Reach of Future Neutrino Oscillation Experiments**

Invited talk given at WHEPP XII workshop, Mahabaleswar, India, 10th January, 2012

111. **Neutrino Oscillation Parameters: Current Status and Future Prospects**

Colloquium given at Indian Institute of Mathematical Sciences, Chennai, India, 3rd January, 2012

112. **Short and long baseline oscillations with DAR sources and status of DAE δ ALUS**

Invited plenary talk given at the 12th International Workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN11), Zurich, Switzerland, 9th November, 2011

113. **Status of the India-based Neutrino Observatory**

Invited plenary talk given at the 12th International Workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN11), Zurich, Switzerland, 7th November, 2011

114. **Neutrino Oscillation Parameters: Current Knowledge & Future Goals**

Seminar given at the Institut De Physique Nucleaire, Orsay, Cedex, France, 4th November, 2011

115. **Direct Detection of Dark Matter**

Seminar given at Instituto De Fisica Corpuscular, Valencia, Spain, 21st October, 2011

116. **Optimized Neutrino Factory for small and large θ_{13}**
Invited talk in the NuFact'11 Conference, CERN and University of Geneva, Switzerland, 3rd August, 2011
117. **Short Baseline Neutrino Anomalies and Future Probes**
Invited talk in the FLASY 2011 workshop, IFIC, Valencia, Spain, 13th July, 2011
118. **Very Short Baseline Neutrino Oscillation Experiments using Cyclotron Decay-at-Rest Sources**
Invited plenary talk in the GLA2011 workshop, Jyväskylä, Finland, 7th June, 2011
119. **New approach to antineutrino from muon decay at rest**
Invited talk in the Electroweak session of the Rencontres de Moriond, La Thuile, Italy, 19th March, 2011
120. **Precision Physics at a Neutrino Factory**
Invited talk in nu HoRIzons IV conference, HRI, Allahabad, India, 24th February, 2011
121. **Neutrino Parameters : Upcoming Experiments & Future Facilities**
Seminar given at Centre for High Energy Physics, IISc, Bangalore, India, 15th February, 2011
122. **Neutrino Parameters : Upcoming Experiments & Future Facilities**
Seminar given at SINP, Kolkata, India, 14th February, 2011.
123. **Optimization of the Neutrino Factory, revisited**
Invited plenary talk at the 3rd EUROnu annual meeting, Rutherford Appleton Laboratory, 20th January, 2011
124. **A new concept in long baseline neutrino oscillation experiments**
Seminar given at IFIC-CSIC, University of Valencia, Spain, 15th November, 2010
125. **A new concept in long baseline neutrino oscillation experiments**
Physics Department, University of Maryland, USA, 24th August, 2010
126. **A new approach to anti-neutrino running in long baseline neutrino oscillation experiments**

Seminar given at the Theoretical Physics Department, Fermilab, Batavia, USA, 8th July, 2010

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

Seminar given at the Department of Physics & Astronomy, Northwestern University, Evanston, IL, USA, 7th July, 2010

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

Seminar given at the Argonne National Lab, Argonne, IL, USA, 6th July, 2010

129. **Ultra precise leptonic measurement of Weinberg angle**

Invited talk given at Brookhaven Forum 2010 - A Space-Time Odyssey, Upton, NY, USA, 26th May, 2010.

130. **Ultra precise leptonic measurement of Weinberg angle**

Invited talk given at PHENO 2010 Conference, University of Wisconsin, Madison, USA, 11th May, 2010

131. **Neutrino parameters with a mono-flavor Beta-beam**

Seminar given at the Physics Department, North Carolina State University, Raleigh, NC, USA, 15th December, 2009

132. **Long Range Forces and Neutrino Oscillations**

Invited talk given at the IDS-NF meeting, TIFR, Mumbai, India, 12th October, 2009

133. **Physics Potential of Long Baseline Neutrino Oscillation Experiments**

Seminar given at TIFR, Mumbai, India, 8th October, 2009

134. **Physics Potential of Long Baseline Neutrino Oscillation Experiments**

Seminar given at SINP, Kolkata, India, 17th September, 2009

135. **Constraining sterile neutrinos with a low energy Beta-beam**

Invited talk given at the NUFAC 2009 Conference, Illinois Institute of Technology, Chicago, USA, 24th July, 2009

136. **Beta-beam : An Ultimate Probe for Sterile Neutrinos**
Invited talk given at the PHENO 2009 Conference, University of Wisconsin, Madison, USA, 12th May, 2009
137. **Physics Potential of Long Baseline Neutrino Oscillation Experiments**
Virginia Tech, Blacksburg, Virginia, USA, 20th April, 2009
138. **CERN-INO magical Beta-beam experiment :
A high precision probe for neutrino parameters**
Seminar given at Virginia Tech, Blacksburg, Virginia, USA, 8th December, 2008
139. **Probing Neutrino Parameters with a Two-Baseline Beta-Beam Set-up**
Talk given at the Nufact 2008 Conference, Valencia, Spain, 30th June, 2008
140. **Unraveling Neutrino Parameters with a Magical Beta-Beam at INO**
Talk given at the Nufact 2008 Conference, Valencia, Spain, 30th June, 2008
141. **Neutrino Parameters with Magical Beta-Beam at INO**
Neutrino 2008, 25th-31st May, 2008, Christchurch, New Zealand
142. **Exceptional Sensitivity to Neutrino Parameters with a Two-Baseline
Beta-Beam Set-up**
The conference dedicated to “Neutrinos and Beams” at Darjeeling, India, 6th May, 2008
143. **Physics Potential of Long Baseline Experiments**
Harish-Chandra Research Institute, Allahabad, India, 24th April, 2008
144. **Prospects of INO with Neutrino Beams**
Diamond Jubilee Seminar on Current Trends in Physics, Punjab University, Chandigarh, India, 29th February, 2008
145. **Long range forces in long baseline experiments**
NuHorizons 2008 conference, Harish-Chandra Research Institute, Allahabad, India, 14th February, 08.
146. **Physics Potential of Long Baseline Experiments**
WHEPP-X, IMSc, Chennai, India, 5th January, 2008

147. **Some aspects of neutrino mixing and oscillations**
Calcutta University, Kolkata, India, 10th September, 2007
148. **New Physics Searches with Beta Beams**
NuFact 07 Conference, Okayama University, Japan, 8th August, 2007
149. **Magic Baseline Beta Beam**
INFN, Padova, Italy, 28th June, 2007
150. **Magic Baseline Beta Beam**
ICTP, Trieste, Italy, 26th June, 2007
151. **Magic Baseline Beta Beam**
Max-Planck-Institute for Physics, Munich, Germany, 29th May, 2007
152. **The India-based Neutrino Observatory : Present Status and Physics Prospects**
University of Wurzburg, Germany, 24th May, 2007
153. **Magic Baseline Beta Beam**
MPI-K, Heidelberg, Germany, 21st May, 2007
154. **Neutrino mass hierarchy and θ_{13} with a magic baseline Beta Beam experiment**
International Workshop on Theoretical High Energy Physics (IWTHEP), IIT, Roorkee, India, 19th March, 2007
155. **Neutrino Oscillation and India Based Neutrino Observatory**
Centre for Theoretical Physics, Jamia Millia Islamia, New Delhi, India, 13th March, 2007
156. **Prospects of INO with Beams**
INO Collaboration meeting, University of Delhi, Delhi, India, 9th March, 2007
157. **Neutrino mixings and leptonic CP violation from CKM matrix and Majorana phases**
Joint Indo - German School and Workshop 2007 (JIGSAW '07), TIFR, Mumbai, India, 19th February, 2007

158. **New physics search at INO**

Joint Indo - German School and Workshop 2007 (JIGSAW '07), TIFR, Mumbai, India, 19th February, 2007

159. **Neutrino mixings and leptonic CP violation from CKM matrix and Majorana phases**

21st International Workshop on Weak Interactions and Neutrinos (WIN07), SINP, Kolkata, India, 17th Jan, 2007

160. **Neutrino mass hierarchy and θ_{13} with a magic baseline Beta Beam experiment**

21st International Workshop on Weak Interactions and Neutrinos (WIN07), SINP, Kolkata, India, 17th Jan, 2007

161. **Neutrino mass hierarchy and θ_{13} with a magic baseline Beta Beam experiment"**

Theoretical Physics Seminar Circuit talk given at Physical Research Laboratory, Ahmedabad, India, 11th Jan, 2007

162. **Neutrino mass hierarchy and θ_{13} with a magic baseline Beta Beam experiment**

17th DAE-BRNS Symposium on High Energy Physics, IIT Kharagpur, India, 11th December, 2006

163. **Physics reach of CERN-INO baseline with beta beams**

Neutrino 2006, Santa Fe, USA, 16th June, 2006

164. **Physics reach of CERN – INO baseline with Beta Beam**

WHEPP-9, Institute of Physics, Bhubaneswar, January, 2006

165. **Scoping study: Beta Beam and INO**

INO simulation meeting, HRI, Allahabad, India, October 24-26, 2005

166. **The novel aspects of a long baseline Beta Beam experiment with INO**

Invited talk at Satellite neutrino meeting, Mumbai, August 1-2, 2005

167. **Precision measurement of θ_{13} using beta beam**

XVI DAE-BRNS Symposium on High Energy Physics, Saha Institute of Nuclear Physics, Kolkata, India, Nov-Dec 2004

Academic Visits & Conferences/Schools/Workshops/Meetings Attended

1. GW-EM-Nu-2023 Conference at TIFR, Mumbai, Maharashtra, India, 20th to 24th November, 2023
2. Physics Department, University of Hawaii at Manoa, Honolulu, Hawaii, USA, 8th to 10th November, 2023
3. Fall 2023 IceCube Collaboration Meeting, Grand Rapids, MI, USA, 18th to 23rd October, 2023
4. Neutrino Workshop at IFIRSE, ICISE, Quy Nhon, Vietnam, 16th to 19th July, 2023
5. 2nd International Workshop on “Multi-messenger Tomography of Earth (MMTE 2023)”, APC-Université Paris Cité, Paris, France, 4th to 7th July, 2023
6. Fall 2022 IceCube Collaboration Meeting, Madison, Wisconsin, USA, 18th to 23rd September, 2022
7. NuFact 2022 Conference, The Cliff Lodge at Snowbird, Salt Lake City, Utah, USA, 31st July to 6th August, 2022
8. 1st International Workshop on “Multi-messenger Tomography of Earth (MMTE 2022)”, The Cliff Lodge at Snowbird, Salt Lake City, Utah, USA, 30th to 31st July, 2022
9. Ninth Meeting on CPT and Lorentz Symmetry, Indiana University, Bloomington, Indiana, USA, 17th to 26th May, 2022
10. Workshop on Tau Neutrinos from GeV to EeV 2021 (NuTau2021), BNL, Upton, USA, 28th September to 2nd October, 2021
11. International Online Workshop on Outlook for INO, IICHEP, and Beyond, TIFR, Mumbai, India, 19th to 20th February, 2021
12. DAE-BRNS High Energy Physics (HEP) Online Symposium, NISER, Bhubaneswar, India, 14th to 18th December, 2020
13. India-based Neutrino Observatory (INO) Online Collaboration meeting, TIFR, Mumbai, India, 26th to 27th September, 2020

14. Virtual Mini-Workshop on Neutrino Theory at Fermilab, Chicago, USA, 21st to 23rd September, 2020
15. PROSPECT-focused Oscillation Online Workshop, Illinois Institute of Technology, Chicago, USA, 18th to 19th August, 2020
16. Neutrino 2020 Online Conference, Fermilab, Chicago, USA, 22nd June to 2nd July, 2020
17. International Conference on Synergy of Sciences (ICSS - 2020), SASTRA Deemed University, Thanjavur, Tamil Nadu, India, 27th to 29th February, 2020
18. India-based Neutrino Observatory (INO) Collaboration meeting, TIFR, Mumbai, India, 16th to 17th November, 2019
19. Prospects of Neutrino Physics Workshop, Kavli IPMU, Kashiwa, Japan, 8th to 12th April, 2019
20. National Seminar on Recent Advances in Physics (NSRAP-2019), P.G. Department of Physics, Berhampur University, Berhampur, Odisha, India, 23rd to 24th March, 2019
21. SERB School on Experimental High Energy Physics, TIFR, Mumbai, India, 24th to 26th January, 2019
22. Vision Scheme - 7 (VS7) Sub-committee Meeting to review the Mega Science Projects of DAE, IPR, Gandhinagar, India, 3rd January, 2019
23. IITB - ICTP Workshop on Neutrino Physics, IIT Bombay, Mumbai, India, 14th to 18th December, 2018
24. Academic visit to ICTP, Trieste, Italy, 5th to 19th September, 2018
25. Neutrino Oscillation Workshop (NOW) 2018, Ostuni, Italy, 9th to 16th September, 2018
26. Lecture Workshop on High Energy Physics at Department of Physics, Maharajah's College (Autonomous), Vizianagaram, Andhrapradesh, India, 9th to 10th August, 2018

27. Advanced workshop on Physics of Atmospheric Neutrinos - PANE 2018, ICTP, Trieste, Italy, 28th May to 1st June, 2018
28. Academic visit to ICTP, Trieste, Italy, 8th May to 18th June, 2018 including a visit to INFN, Rome (14th - 15th May) and INFN, Padova (25th - 26th May), Italy
29. Dark Matter experiment at Jaduguda Underground Science Laboratory (JUSL) - First National Level Collaboration Meeting, SINP, Kolkata, India, 12th April 2018
30. Nu HoRizons VII Conference, HRI, Allahabad, India, 21st to 23rd February, 2018
31. Workshop on High Energy Physics Phenomenology (WHEPP XV), IISER Bhopal, Bhopal, India, 15th to 21st December, 2017
32. NuFact 2017 Conference, Uppsala University, Uppsala, Sweden, 25th-30th September, 2017
33. Workshop on Recent Developments in Neutrino Physics and Astrophysics, LNGS and GSSI, Assergi and L'Aquila, Italy, 4th to 7th September, 2017
34. Indo-Japan Neutrino Meeting at Institute of Physics, Bhubaneswar, 15th May, 2017
35. Academic visit to ICTP, Trieste, Italy, 13th November to 16th December, 2016 including a visit to INFN, Milan, Italy during 28th-30th November, 2016
36. 82nd Annual meeting of Indian Academy of Sciences, IISER Bhopal, Bhopal, India, 4th-6th November, 2016
37. Workshop on New Frontiers in Electroweak Interactions of Leptons and Hadrons, Aligarh Muslim University, Aligarh, India, 2nd-3rd November, 2016
38. India-based Neutrino Observatory (INO) collaboration meeting, Homi Bhabha Centre for Science Education (HBCSE), Mumbai, India, 24th-25th October, 2016
39. NuFact 2016 Conference, Quy Nhon, Vietnam, 21st-27th August, 2016
40. First Workshop on Beyond Standard Model Phenomenology at IISER Mohali (PHENO1@IISERM), IISER Mohali, Mohali, India, 6th-9th April, 2016

41. Frontiers in High Energy Physics (FHEP) III meeting, IMSc, Chennai, India, 22nd-25th March, 2016
42. Nu HoRIZons VI Conference, HRI, Allahabad, India, 17th-19th March, 2016
43. Crossroads of Neutrino Physics Workshop, Mainz Institute for Theoretical Physics, Johannes Gutenberg University, Mainz, Germany, 20th July-14th August, 2015
44. India-based Neutrino Observatory (INO) Collaboration meeting, IIT Madras, Chennai, India, 2nd-4th April, 2015
45. India-based Neutrino Observatory (INO) Collaboration meeting, IICHEP, Madurai, Tamil Nadu, India, 18th-20th September, 2014
46. DAE-DST Vision meeting on Nuclear, Particle, and High Energy Physics, BARC/HBCSE, Mumbai, India, 24th-25th August, 2014
47. 37th International Conference on High Energy Physics (ICHEP 2014), Valencia, Spain, 2nd-9th July, 2014
48. International meeting for Large Neutrino Infrastructures, Paris, France, 23rd-24th June, 2014
49. India-based Neutrino Observatory (INO) collaboration meeting, VECC, Kolkata, India, 3rd-5th April, 2014
50. Workshop on High Energy Physics Phenomenology (WHEPP-2013), Puri, Orissa, India, 12th to 21st December, 2013
51. International Workshop on Next generation Nucleon Decay and Neutrino Detectors (NNN13), Kavli IPMU, Kashiwa, Japan, 11th-13th November, 2013
52. India-based Neutrino Observatory (INO) collaboration meeting, Madurai Kamaraj University, Madurai, Tamil Nadu, India, 13th-15th September, 2013
53. International Conference on 'Triggering Discoveries in High Energy Physics', University of Jammu, India, 9th-12th September, 2013

54. NUFACT 2013 workshop, Institute of High Energy Physics (IHEP), Beijing, China, 19th-24th August, 2013
55. Particle Physics at the crossroads: Edinburgh - India Symposium, India International Centre, New Delhi, India, 15th-17th February, 2013
56. XX DAE-BRNS HEP symposium, Visva-Bharati, Santiniketan, India, 13th-18th January, 2013
57. Neutrino Oscillation Workshop (NOW 2012), Otranto, Lecce, Italy, 9th-16th September, 2012
58. 4th EUROnu annual meeting, APC, Paris, France, 12th-15th June, 2012
59. XIIth Workshop on High Energy Physics Phenomenology (WHEPP-XII), Fountain Hotel, Mahabaleswar, India, 8th to 15th January, 2012
60. 12th International Workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN11), Zurich, Switzerland, 7th-9th November, 2011
61. NuFact'11 Conference, CERN and University of Geneva, Switzerland, 1st-6th August, 2011
62. FLASY 2011 workshop, IFIC, Valencia, Spain, 11th-14th July, 2011
63. 2nd International Workshop towards the Giant Liquid Argon Charge Imaging Experiment (GLA2011), Jyväskylä, Finland, 5th-10th June, 2011
64. Rencontres de Moriond - Electroweak session, La Thuile, Aosta valley, Italy, 13th-20th March, 2011
65. Nu HoRizons IV conference, HRI, Allahabad, India, 23rd-25th February, 2011
66. Third EUROnu annual meeting, 18th-21st January, 2011 at the STFC Rutherford Appleton Laboratory
67. Brookhaven Forum 2010 - A Space-Time Odyssey, Upton, NY, USA, May 26-28, 2010
68. PHENO 2010 Conference, University of Wisconsin, Madison, USA, May 10-12, 2010

69. IDS-NF meeting, TIFR, Mumbai, India, October, 2009
70. NuFact'09 Conference, Illinois Institute of Technology, Chicago, USA, July, 2009
71. PHENO 2009 Conference, University of Wisconsin, Madison, USA, May, 2009
72. NuFact'08 Conference, Valencia, Spain, June-July, 2008
73. Conference dedicated to "Neutrinos and Beams" at Darjeeling, India, May, 2008
74. Diamond Jubilee Seminar on Current Trends in Physics, Panjab University, Chandigarh, India, February, 2008
75. Nu HoRizons, HRI, Allahabad, India, February, 2008
76. Xth Workshop on High Energy Physics Phenomenology (WHEPP-X), IMSc, Chennai, India, 2nd to 13th January, 2008
77. Ninth International Workshop on Neutrino Factories, Super Beams and Beta Beams (NuFact07), Okayama University, Okayama, Japan, August 6-11, 2007
78. 6th International School on Neutrino Factories, Super Beams and Beta Beams, KEK, Tsukuba, Japan, July 27 - August 4, 2007
79. Summer School on Particle Physics, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, 11th to 22nd June, 2007
80. International Workshop on Theoretical High Energy Physics (IWTHEP), Indian Institute of Technology, Roorkee, India, March, 2007
81. INO Collaboration meeting, University of Delhi, Delhi, India, 9th March, 2007
82. Joint Indo - German School and Workshop 2007 (JIGSAW '07), Tata Institute of Fundamental Research, Mumbai, India, February, 2007
83. XXI International Workshop on Weak Interactions and Neutrinos (WIN07), Saha Institute of Nuclear Physics, Kolkata, India, Jan, 2007
84. Topical Meeting on Physics at the LHC, Harish-Chandra Research Institute (HRI), Allahabad, India. 16-21 December 2006

85. XVII DAE-BRNS High Energy Physics Symposium, Indian Institute of Technology, Kharagpur, India, December, 2006
86. 2nd phase of INO School, Variable Energy Cyclotron Centre/Saha Institute of Nuclear Physics, Kolkata, India, May 1-13, 2006
87. 1st phase of INO School, Harish-Chandra Research Institute, Allahabad, India, April, 2006
88. XXI SERC Main School in Theoretical High Energy Physics, Physical Research Laboratory, Ahmedabad, 11th February to 5th March, 2006
89. IX Workshop on High Energy Physics Phenomenology (WHEPP-9), Institute of Physics, Bhubaneswar, January 3-14, 2006
90. Satellite neutrino meeting Mumbai, August 1-2, 2005, preceding the International Cosmic Ray Conference, ICRC2005, Pune, Aug 2005
91. XX SERC Main School in Theoretical High Energy Physics, Indian Institute of Technology, Kanpur, India, December 4 - 24, 2004
92. XVI DAE-BRNS High Energy Physics Symposium, Saha Institute of Nuclear Physics, Kolkata, India, Nov-Dec 2004
93. Preparatory SERC School in Theoretical High Energy Physics, University of Hyderabad, Hyderabad, India, 18th November to 7th December, 2003

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