

Session Program

14-18 Oct 2024

**PPC 2024: XVII International Conference on
Interconnections between Particle Physics
and Cosmology**

Parallel - Neutrino

Tuesday 15 October

14:00

Parallel - Neutrino: Session 1

Session | **Location:** IIT Hyderabad , Seminar Room 3-4, Convention Center | **Convener:** Sushant Raut

14:00–14:15

Constraining Systematic Uncertainties for Future Sterile Neutrino Analysis at NOvA Experiment

Speaker

Shivam Chaudhary

14:15–14:30

Probing Scalar Nonstandard Interactions: Insights from the Protvino to Super-ORCA Experiment

Speaker

Dinesh Kumar Singha

14:30–14:45

Physics opportunities with kaon decay-at-rest neutrinos: search for sterile neutrino and non-standard interactions

Speaker

AMAN Gupta

14:45–15:00

Effect of large extra dimension in future long baseline neutrino experiments

Speaker

Papia Panda

15:00–15:15

Sensitivity study of next generation neutrino detectors to supernova neutrinos with varied flux models

Speaker

Riya Gaba

15:15–15:30

A 17 MeV pseudoscalar and the LSND, MiniBooNE and ATOMKI anomalies

Speaker

Mr Samiran Roy

15:30–15:45

Exploring Flavor Dependent Long-Range Interactions in Atmospheric Neutrino Oscillation at IceCube DeepCore

Speaker

Gopal Garg

15:45–16:00

Measuring the mass of Earth and mass of Core using neutrino oscillations at IceCube DeepCore

Speaker

Sharmistha Chattopadhyay

16:00

16:30

Parallel - Neutrino: Session 2**Session** | **Location:** IIT Hyderabad, Seminar Room 3-4, Convention Center | **Convener:** Rahul Srivastava

16:30-16:45

Neutrino Phenomenology in A_4 Modular Symmetry with Scotto Seesaw Mechanism**Speaker**

Priya Mishra

16:45-17:00

Degeneracies in presence of invisible decay of Neutrinos**Speaker**

Mr Supriya Pan

17:00-17:15

Implications of Long-Range Forces in P2SO and T2HKK Experiments.**Speaker**

Rudra Majhi

17:15-17:30

Leptogenesis and Muon ($g-2$) from vector like fermion triplet.**Speaker**

Ms Simran Arora

17:30-17:45

Constraining the mass-spectra in the presence of a light sterile neutrino from absolute mass-related observables**Speaker**

Debashis Pachhar

17:45-18:00

Probing new physics with high energy appearance events @ NOvA**Speaker**

Dr Deepthi K N

18:00-18:15

Validating Layered Structure Inside Earth Using Atmospheric Neutrino Oscillations at IceCube DeepCore**Speaker**

Mr Krishnamoorthi J

18:15-18:30

Establishing Earth's Matter Effect in Atmospheric Neutrino Oscillations at IceCube DeepCore**Speaker**

Anuj Kumar Upadhyay

18:45

Wednesday 16 October

14:00

Parallel - Neutrino: Session 3

Session | **Location:** IIT Hyderabad, Seminar Room 3-4, Convention Center | **Convener:** Sushant Raut

14:00–14:15

Latest Three-Flavor Neutrino Oscillation Results from NOvA

Speaker

Mr Ishwar Singh

14:15–14:30

Scalar-NSI: An unique tool to probe New Physics

Speaker

Sambit Kumar Pusty

14:30–14:45

Probing Heavy Neutrino Magnetic Moments at the LHC Using Non-Pointing Photons

Speaker

Patrick Bolton

14:45–15:00

On Exploring Leptogenesis in an Extension of the Scotogenic Model

Speaker

Mr Labh Singh

15:00–15:15

Weak mixing angle at direct detection

Speaker

Tarak Nath Maity

15:15–15:30

Revisiting two-zero texture in the light of gauged Type-II seesaw

Speaker

Dr Anirban Biswas

15:30–15:45

Understanding the Quasi-Elastic Neutrino Energy Reconstruction.

Speaker

Lalnuntluanga R

16:00