

Session Program

9-13 Dec 2024

**BCVSPIN Conference 2024: Particle Physics
and Cosmology in the Himalayas**

Parallel Session

Kathmandu, Nepal

Monday 9 December

14:00

Parallel Session: 1

Session | **Location:** Kathmandu, Nepal | **Convener:** Santosh Parajuli

14:00-14:17 **LHC Results: Vector-like quark searches from ATLAS**

Speaker

Joseph Haley

14:17-14:34 **LHC Results: Dark Matter Searches at CMS**

Speaker

Mr Shriniketan Acharya

14:34-14:51

Searches for BSM physics using long-lived signatures with the CMS detector

Speaker

Shubham Dutta

14:51-15:08

LHC Results: Search for the rare decays of the Higgs and Z boson to a J/Psi or Psi' meson and a photon in CMS at $\sqrt{s} = 13$ TeV

Speaker

Sweta Baradia

15:08

Tuesday 10 December

15:50

Parallel Session: 3

Session | **Location:** Kathmandu, Nepal | **Convener:** Roshan Joshi

15:50-16:07

Accumulating Evidence for New Higgs Bosons at the LHC

Speaker

Sumit Banik

16:07-16:24

Probing Lepton Number Violation from Low to High Energies

Speaker

Lukas Graf

16:24-16:41

Exploring new physics in the FCNC $B_c \rightarrow D_s \nu \bar{\nu}$ channel

Speaker

Tarun Kumar

16:41-16:58

Probing flavor violation and baryogenesis via primordial gravitational waves

Speaker

Zafri Ahmed Borboruah

16:58-17:15

Unique observational constraints on generalized Starobinsky inflationary model

Speaker

SAISANDRI SAINI

17:15

Thursday 12 December

15:50

Parallel Session: 5

Session | Location: Kathmandu, Nepal | Convener: Dr Jan Heisig

15:50-16:07

Exploring Neutrino Oscillations in the Japanese Long-Baseline Experiments

Speaker

Unik Limbu

16:07-16:24

Effect of NSI on tripartite entanglement in neutrino oscillations

Speaker

Bhavna Yadav

16:24-16:41

Probing neutrino self-interactions with JWST data

Speaker

Ranjini Mondol

16:41-16:58

Exploring Legget-Garg type Inequality Violations in Light of NOvA and T2K Anomalies

Speaker

Lekhashri Konwar

16:58-17:15

Collider and CMB complementarity of leptophilic dark matter with light Dirac neutrinos

Speaker

Bhavya Thacker

17:15

Friday 13 December

15:50

Parallel Session: 7

Session | Location: Kathmandu, Nepal

15:50-16:07

Shaping Dark Photon Spectral Distortions

Speaker

Xucheng Gan

16:07-16:24

Lights on the Dark using EFT approach

Speaker

Ms Sanchari Bhattacharyya

16:24-16:41

Neutron Stars with BHF Modified Density-Dependent Nucleon Masses and Weakly Interacting Dark Matter

Speaker

Mr Arijit Das

16:41-16:58

Exploring High-Energy Neutrino Sources: A Comprehensive Analysis

Speaker

Mr Rajendra Neupane

16:58-17:15

Ultraheavy multiscattering dark matter: DUNE, CYGNUS, kilotonne detectors, and tidal streams

Speaker

Harsh Aggarwal

17:15