

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: 2

Session | **Location:** Kathmandu, Nepal | **Convener:** Lukas Graf

14:00-14:17 **Accidental quality axion from gauged flavor symmetry**

Speaker

Sai Charan Chandrasekar

14:17-14:34

Structure formation in axion-like Fuzzy Dark Matter (FDM) in String Theory

Speaker

Somesh Tiwari

14:34-14:51 **Are Fractals Behind Flavor Mixing of the SM?**

Speaker

Aadarsh Singh

14:51-15:08 **Generalized Symmetries and Model Building**

Speaker

Seth Koren

15:08

Tuesday 10 December

15:50

Parallel Session: 4

Session | **Location:** Kathmandu, Nepal | **Convener:** Prajita Bhattarai

15:50–16:07

Search for new phenomena beyond the Standard Model at Belle and Belle II

Speaker

Junewoo PARK

16:07–16:24

Recent results from Belle and Belle II on dark sector searches

Speaker

Sungjin Cho

16:24–16:41

Precision measurements of weak interaction parameters at Belle and Belle II (to include CKM and CPV)

Speaker

Ansu Johnson

16:41–16:58

Recent studies of exotic hadrons from Belle and Belle II

Speaker

Youngjoon Kwon

16:58–17:15

Study of CP property of ggH coupling in Higgs production associated with two jets

Speaker

Pratik Kafle

17:15

Thursday 12 December

15:50

Parallel Session: 6

Session | **Location:** Kathmandu, Nepal | **Convener:** Xucheng Gan

15:50–16:07 **SU(5) Grand Unified Theory in five-dimensional brane world scenario**

Speaker

Masato Arai

16:07–16:24 **Cosmology in metric affine theories of gravity**

Speaker

Ilaria Andrei

16:24–16:41

Exploring wormhole solutions with global monopole charge in the context of $f(Q)$ gravity

Speaker

MORESHWAR TAYDE

16:41–16:58 **Modular symmetry and mass hierarchies**

Speaker

Dr Xiang-Gan Liu

16:58–17:15 **A Semi-analytic Approach for Curvaton Scenario**

Speaker

Abhishek Naskar

17:15

Friday 13 December

15:50

Parallel Session: 8

Session | **Location:** Kathmandu, Nepal | **Convener:** Susan Bataju

15:50–16:07 **Inflationary Gravitational waves as test for low scale leptogenesis**

Speaker

Ms Lekhika Malhotra

16:07–16:24 **The vGeN neutrino experiment at the Kalinin NPP**

Speaker

Alexey Konovalov

16:24–16:41

Design, Development and Characterization of Liquid Organic Scintillation Detector

Speaker

Sunil Kumar Saini

16:41–16:58 **Searching for Multi-Messenger Events with LIGO-Virgo-KAGRA**

Speaker

Naresh Adhikari

16:58–17:15

Simulating Negative Hydrogen ion acceleration in LINAC-4 using Unity 3D

Speaker

manula dissanayake

17:15