

BCVSPIN-2023: Particle Physics and Cosmology in the Himalayas

Monday, 15 May 2023 - Thursday, 25 May 2023

Kathmandu University

Scientific Programme

The school will be held over two weeks. Each day will feature lectures from multiple speakers (roughly 5 hours of lectures per day, with the remaining time left for discussions and informal interactions). Each week, we will also have an open panel discussion where students can ask lecturers about PhD programs at international institutions, and academic and research careers.

We also plan to organize an optional online preparatory school the week before BCVSPIN-2023, where the organizers will cover the basics of particle physics and cosmology.

Please go to the BCVSPIN website (<https://www.bcvspin.org/>) for information regarding travel, accommodation, and other logistics.

Lecturers and Topics:

Mu-Chun Chen, University of California, Irvine (Flavor Physics)

Niraj Dhital, Tribhuvan University (Particle Astrophysics)

Shih-Chieh Hsu, University of Washington (Physics at the Large Hadron Collider)

Joachim Kopp, Mainz/CERN (Neutrino Physics)

Ranjan Laha, IISc. Bangalore (Dark Matter Detection)

Nobuchika Okada, Alabama (Early Universe Cosmology)

Michael Ratz, University of California, Irvine (Fundamentals of Quantum Field Theory)

Nausheen Shah, Wayne State University (Higgs and New Physics)

Bibhushan Shakya, DESY (Gravitational Waves)

Tracy Slatyer, MIT (Dark Matter Theory)

Michael Spannowsky, IPPP Durham (Quantum Machine Learning)

Avelino Vicente, Valencia (Numerical Tools for Particle Physics and Cosmology)