

Monday 9 December

09:30 Plenary: 1 Session | Location: Kathmandu, Nepal | Convener: Bibhushan Shakya 09:35-10:10 The KAGRA gravitational wave project Speaker Takaaki Kajita 10:10-10:45 Dark Matter and Neutrino Mass from a Conformal Dark Sector Speaker Prof. Maxim Perelstein 10:45 11:05 Plenary: 2 Session | Location: Kathmandu, Nepal | Convener: Anjan Giri 11:05-11:40 The Path to Future Particle Physics Experiments **Speakers** Harris Kagan, Harris Kagan 11:40-12:05 Cosmic Colliders Speaker Bibhushan Shakya 12:05-12:30 HEP Research in Nepal: Status and Prospects Speaker Niraj Dhital

12:30

Tuesday 10 December

09:00 Plenary: 4 Session | Location: Kathmandu, Nepal | Convener: Suyog Shrestha 09:00-09:35 The latest and the near-future physics highlights from the ATLAS experiment Speaker Stefano Giagu 09:35-10:10 Latest results and near-future highlights from CMS Speaker Gagan Mohanty 10:10-10:45 The latest and the near-future physics highlights from the ALICE experiment Speaker Amrit Gautam 10:45 11:05 Plenary: 5 Session | Location: Kathmandu, Nepal | Convener: Anil Thapa 11:05-11:40 **Modular Flavor Symmetries** Speaker Michael Ratz 11:40-12:15 Modular Symmetries and Neutrino Mixing Speaker Prof. Mu-Chun Chen 12:15 13:45 Plenary: 6 Session | Location: Kathmandu, Nepal | Convener: Dr Sudip Jana 13:45-14:20 Flavorful Dark matter and B to K invisible excess Speaker Xiao-Gang He **Deciphering Neutrino Non-Standard Interactions** 14:20-14:55 Speaker Anjan Giri **Exploration of Physics beyond the Standard Model with Neutrinos** 14:55-15:30 Speaker Dr. Rukmani Mohanta 15:30

Wednesday 11 December

09:00 Plenary: 7 Session | Location: Kathmandu, Nepal | Convener: JESSICA TURNER 09:00-09:35 De Sitter Spacetime and High Frequency Gravitational Waves from String Theory Fernando Quevedo Light shining through astrophysical walls Speaker Amol Dighe 10:10-10:45 Heavy Neutral Leptons without Prejudice Speaker Marta Losada 10:45 11:05 Plenary: 8 Session | Location: Kathmandu, Nepal | Convener: Brian Shuve 11:05-11:40 Overview of Dark Matter Models Speaker Joshua Ruderman Dark Matter Freeze-out Beyond the WIMP Paradigm 11:40-12:15 Speaker Jan Heisig

12:15

Thursday 12 December

09:00 Plenary: 9 Session | Location: Kathmandu, Nepal | Convener: Joseph Haley 09:00-09:35 Latest and near-future highlights from DUNE Speaker Dr Alessandro Minotti 09:35-10:10 Latest and near-future highlights from Belle Speaker Mario Merola Highlights from the IceCube neutrino observatory 10:10-10:45 Speaker Mohamed Rameez 10:45 11:05 Plenary: 10 Session | Location: Kathmandu, Nepal | Convener: Dr. Rukmani Mohanta 11:05-11:40 **Neutrino-Dark Matter Interactions** Speaker **Bhupal Dev** 11:40-12:15 Unveiling a non-trivial Temporal structure in Neutrino Emissions from SN1 Speaker Giulia Ricciardi 12:15 13:45 Plenary: 11 Session | Location: Kathmandu, Nepal | Convener: Niraj Dhital 13:45-14:20 **Electromagnetic Properties of Neutrino** Speaker Dr Sudip Jana 14:20-14:55 **Imaging the Deep Earth with Neutrinos** Speaker Prof. Sanjib Kumar Agarwalla 14:55-15:30 What is AI, what is it not, how we use it in Physics and how it impacts... You. Speaker Claire David 15:30

Friday 13 December

09:00 Plenary: 12 Session | Location: Kathmandu, Nepal | Convener: Bhupal Dev 09:00-09:35 The CMB frontier: Status and prospects Speaker Francois BOUCHET 09:35-10:10 **EIC Overview** Speaker Daniel Tapia Takaki 10:10-10:45 FCC Overview Speaker Prolay Mal 10:45 11:05 Plenary: 13 Session | Location: Kathmandu, Nepal | Convener: Prof. Mu-Chun Chen 11:05-11:40 Hidden Sectors in the Early Universe and Today Speaker **Brian Shuve** 11:40-12:15 Primordial Black Holes and the Early Universe Speaker **IESSICA TURNER** 12:15 13:45 Plenary: 14 Session | Location: Kathmandu, Nepal | Convener: Michael Ratz 13:45-14:20 Quantum tunneling in curved spacetime Speaker Masahide Yamaguchi 14:20-14:55 Radio pulsars as the best (natural) laboratory to test aspects of fundamental physics Speaker Manjari Bagchi 14:55-15:30 CERN International Relations Speaker Luciano Musa 15:30