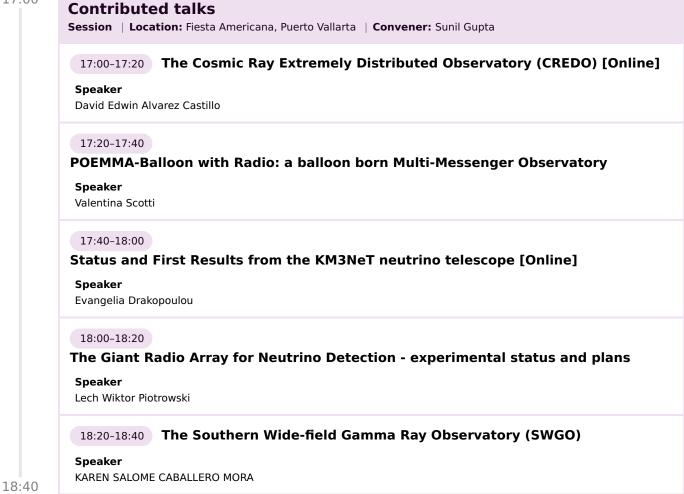


Monday 8 July

17:00



Tuesday 9 July

10:00 Contributed talks Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Lukas Nellen 10:00-10:20 Mean number of TeV muons in air showers measured with IceTop and IceCube Speaker Stef Verpoest 10:20-10:40 Top-Down reconstruction of extensive air showers: a method to quantify the rescaling of the muon signal of hadronic interaction models Speaker **Kevin Cheminant** 10:40-11:00 A measurement of the muon number of extensive air showers from cosmic ray collisions using the data from KASCADE-Grande Speaker Juan Carlos Arteaga 11:00 11:30 Contributed talks Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Rodrigo Gamboa Goñi 11:30-11:50 Estimation of the cosmic-ray mass composition and proton-proton interaction cross sections from air shower data measured by the Pierre Auger Observatory [Online] Speaker Olena Tkachenko 11:50-12:10 Investigating the hadron nature of high-energy photons with PeVatrons [Online] Speaker Giuseppe Di Sciascio 12:10-12:30 Neutrinos from muon-rich ultra high energy electromagnetic cascades: The **MUNHECA code [Online]** Speaker AmirFarzan Esmaeili 13:00 15:30 Contributed talks Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Antonella Castellina 15:30-15:50 Neutron Production in Extensive Air Showers

Speaker Ralph Engel

15:50-16:10 Results from the first 8.5 years of operation with CALET Speaker Yosui Akaike 16:10 17:10 **Contributed talks** Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Eduardo de la Fuente Acosta 17:10-17:30 High-energy Hadronic Interaction Models: Insights from the Pierre Auger **Observatory** Speaker Ruben Mauricio Da Silva Conceicao 17:30-17:50 High Energy Neutrinos studies in the forward direction with the FASER experiment at the LHC Speaker Osamu Sato 17:50-18:10 Machine learing model for discrimination of simulated muonic traces in water cherenkov detectors

18:10-18:30 Neutrino Classification Through Deep Learning

18:30

Speaker Erick Berazain

Wednesday 10 July

10:00 **Contributed talks** Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Sergey Ostapchenko 10:00-10:20 EPOS LHC-R: up-to-date hadronic model for EAS simulations Speaker Dr Tanguy Pierog 10:20-10:40 Investigating Muon Content in Extensive Air Showers using Pythia 8 Speaker Chloé Gaudu 10:40-11:00 Hadronic Interactions in CRPropa with state-of-the-art generators **Speaker** Leonel Morejon 11:00 11:30 Contributed talks Session | Location: Fiesta Americana, Puerto Vallarta | Convener: John Mathews 11:30-11:50 Production and propagation of secondary antinuclei in the Galaxy Speaker Luis Fernando Galicia Cruztitla 11:50-12:10 Preliminary atmospheric effects through air showers at Agra using DEASA experiment [Online] **Speaker** sonali bhatnagar 12:10-12:30 Impact of the Magnetic Horizon on the Interpretation of the Pierre Auger Observatory Spectrum and Composition Data [Online]

4

Speaker

13:00

Juan Manuel Gonzalez

Thursday 11 July

10:00 Contributed talks Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Hiroaki Menjo 10:00-10:20 Constraints from the Pierre Auger Observatory on BSM scenarios generating UHE nu_tau, tau, and tau-like particles Speaker Karl-Heinz Kampert 10:20-10:40 The complex nature of the abnormally weak absorption of cosmic ray hadrons in lead calorimeters at superhigh energies [Online] Speaker A.S. Borisov 10:40-11:00 Outreach Hyper-Kamiokande México **Speakers** Judith Torres Jiménez, Montserrat Montiel Dücker Romero 11:00 11:30 **Contributed talks** Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Dr Kazumasa Kawata 11:30-11:50 Calculation of Long Gamma-Ray Burst Pseudo-Redshifts using the Amati Correlation Speaker Gabriela Xol 11:50-12:10 On the correlation between X-rays and TeV gamma-rays in HBL Blazars Speaker Dr Jose Rodrigo Sacahui Reyes 12:10-12:30 Determination of Pseudo-redshifts to Long GRBs by the Guiriec Method [Online] Speaker Paula Yuc 13:00 15:30 **Contributed talks** Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Juan Carlos Arteaga 15:30-15:50 Cost Effective Large Area Gaseous Detectors for Detection of Charged Particles [Online] Speaker Dr Rajesh Ganai

15:50-16:10

Design, manufacturing and installation of multi-PMT vessel for Hyper-Kamiokande

Speaker

Brenda Elisa Medina Estrada

16:10

Friday 12 July

Contributed talks
Session | Location: Fiesta Americana, Puerto Vallarta | Convener: Dr Jose Rodrigo Sacahui Reyes

10:00-10:20
Unveiling New Physics with Tau Leptons: Innovative Approaches at Belle II
Speaker
Eduard De La Cruz Burelo