Session Program

Jun 22 – 25, 2020

CORSIKA Cosmic Ray Simulation Workshop [virtual]

CORSIKA Workshop

virtual

Mon, June 22

3:35 PM

CORSIKA Workshop: Air shower physics
Session | **Location:** virtual | **Convener:** Tanguy Pierog

15:35 – 15:50

A simulation study of the effects of diffractive collisions on observables of air showers experiments

Speaker
Ken Ohashi

15:50 – 16:05   **Opportunities for BSM physics in Cosmic Rays**

Speaker
Oliver Fischer

16:05 – 16:25

Sub-TeV hadronic interaction model differences and their impact on air-shower development

Speaker
Álvaro Pastor Gutiérrez

16:25 – 16:40   **Input from LHCb towards understanding air showers**

Speaker
Hans Dembinski

16:40 – 16:55   **Modifying interactions in CORSIKA with MOCHI**

Speaker
Jan Ebr

16:55 – 17:15   **Combined discussion, Q&A**

Speaker
Tanguy Pierog

5:15 PM

Tue, June 23

2:00 PM

CORSIKA Workshop: Theory and models
Session | **Location:** virtual | **Convener:** Hans Dembinski

14:00 – 14:20   **EPOS and EPOS3**

Speaker
Klaus Werner

14:20 – 14:35   **SIBYLL2.3d**

Speaker
felix riehn

14:35 – 14:50   **UrQMD**

Speaker
Marcus Bleicher

14:50 – 15:05   **Diffraction in pPb collisions measured with CMS**

Speaker
Lev Kheyn

15:05 – 15:25   **Combined discussion, Q&A**

Speaker
Hans Dembinski

3:25 PM

Wed, June 24

2:00 PM

CORSIKA Workshop: Cherenkov photons
Session | **Location:** virtual | **Conveners:** Gernot Maier, Luisa Arrabito, Konrad Bernloehr

14:00 – 14:15 **Introduction & CTAO**

Speaker
Gernot Maier

14:15 – 14:30 **Hadronic interaction models & IACTs**

Speaker
Michiko Ohishi

14:30 – 14:40

Cherenkov propagation optimization in Corsika 7 for the CTA use case

Speaker
Luisa Arrabito

14:40 – 14:55 **Cherenkov photons on GPU**

Speaker
Dominik Baack

14:55 – 15:10 **Fluorescence emission & IACTS**

Speakers
Daniel Morcuende, Jose Luis Vazquez-Poletti

15:10 – 15:35 **Combined discussion, Q&A**

Speaker
Konrad Bernlöhr

3:35 PM