Session Program

Jun 22 – 25, 2020

CORSIKA Cosmic Ray Simulation Workshop [virtual]

CORSIKA Workshop

virtual

Tue, June 23

3:35 PM

CORSIKA Workshop: Connection to accelerators
Session | **Location:** virtual | **Convener:** Remy Prechelt

15:35 – 15:50 **Core-Corona approach and the muon deficit**

Speaker
Matias Perlin

15:50 – 16:05 **Lower energy hadron collisions with SMASH**

Speaker
Anna Schäfer

16:05 – 16:20 **CRMC in Geant4**

Speaker
Andrii Tykhonov

16:20 – 16:40 **FASER: very-forward neutrinos**

Speaker
Felix Kling

16:40 – 17:10 **A Forward Multiparticle Spectrometer for CMS**

Speaker
Mike Albrow

17:10 – 17:30 **Combined discussion, Q&A**

Speaker
Remy Prechelt

5:30 PM

Wed, June 24

3:55 PM

CORSIKA Workshop: Radio emission
Session | **Location:** virtual | **Convener:** Tim Huege

15:55 – 16:10 **General thoughts on radio in CORSIKA 8**

Speaker
Tim Huege

16:10 – 16:25 **Suggestion for a radio interface in CORSIKA 8**

Speaker
Remy Prechelt

16:25 – 16:45

Simulations of radio emission for air showers penetrating from air to ice

Speaker
Krijn de Vries

16:45 – 17:05 **Simulations for in-ice radio experiments**

Speaker
Christian Glaser

17:05 – 17:25 **Combined discussion, Q&A**

Speaker
Tim Huege

5:25 PM

Thu, June 25

CORSIKA Workshop: GPU and acceleration
Session | **Location:** virtual | **Convener:** Dominik Baack

14:15 – 14:35 **Cascade equations and accelerated methods**

Speaker
Anatoli Fedynitch

14:35 – 14:55

Random number generation in multi-threaded programs and recent developments in numpy | Efficient static dispatch mechanisms in C++

Speaker
Hans Dembinski

14:55 – 15:10 **EM cascades**

Speaker
Stephan Meighen-Berger

15:10 – 15:25 **Electromagnetic shower simulation using PROPOSAL**

Speaker
Maximilian Sackel

15:25 – 15:45 **Combined discussion, Q&A**

Speaker
Dominik Baack

3:45 PM