



# CORSIKA Cosmic Ray Simulation Workshop [virtual]

## Monday, June 22, 2020

### CORSIKA Workshop: Air shower physics (3:35 PM - 5:15 PM)

-Conveners: Tanguy Pierog

time	[id] title	presenter
3:35 PM	[36] A simulation study of the effects of diffractive collisions on observables of air showers experiments	OHASHI, Ken
3:50 PM	[45] Opportunities for BSM physics in Cosmic Rays	FISCHER, Oliver
4:05 PM	[43] Sub-TeV hadronic interaction model differences and their impact on air-shower development	PASTOR GUTIÉRREZ, Álvaro
4:25 PM	[7] Input from LHCb towards understanding air showers	DEMBINSKI, Hans
4:40 PM	[18] Modifying interactions in CORSIKA with MOCHI	EBR, Jan
4:55 PM	[9] Combined discussion, Q&A	PIEROG, Tanguy

# Tuesday, June 23, 2020

## CORSIKA Workshop: Theory and models (2:00 PM - 3:25 PM)

-Conveners: Hans Dembinski

time	[id] title	presenter
2:00 PM	[12] EPOS and EPOS3	WERNER, Klaus
2:20 PM	[13] SIBYLL2.3d	RIEHN, felix
2:35 PM	[14] UrQMD	BLEICHER, Marcus
2:50 PM	[46] Diffraction in pPb collisions measured with CMS	KHEYN, Lev
3:05 PM	[16] Combined discussion, Q&A	DEMBINSKI, Hans

# Wednesday, June 24, 2020

## CORSIKA Workshop: Cherenkov photons (2:00 PM - 3:35 PM)

-Conveners: Luisa Arrabito; Gernot Maier; Konrad Bernloehr

time	[id] title	presenter
2:00 PM	[37] Introduction & CTAO	MAIER, Gernot
2:15 PM	[38] Hadronic interaction models & IACTs	OHISHI, Michiko
2:30 PM	[3] Cherenkov propagation optimization in Corsika 7 for the CTA use case	ARRABITO, Luisa
2:40 PM	[40] Cherenkov photons on GPU	BAACK, Dominik
2:55 PM	[41] Fluorescence emission & IACTS	MORCUENDE, Daniel VAZQUEZ-POLETTI, Jose Luis
3:10 PM	[42] Combined discussion, Q&A	BERNLÖHR, Konrad