

CORSIKA Cosmic Ray Simulation Workshop Karlsruhe

Monday, June 17, 2019

Status and progress of air shower simulations (11:10 AM - 12:25 PM)

time	[id] title	presenter
11:10 AM	[68] Introduction	ENGEL, Ralph
11:25 AM	[1] The CORSIKA 8 Project	ULRICH, Ralf
11:45 AM	[59] Status of capabilities of CORSIKA 8, first results and comparisons	REININGHAUS, Maximilian
12:05 PM	[63] The lepton propagator PROPOSAL and the air shower simulation code CORSIKA	SANDROCK, Alexander

Status and progress of air shower simulations (3:30 PM - 5:05 PM)

time	[id] title	presenter
3:30 PM	[47] The COSMOS air shower simulation program	SAKO, Takashi
3:50 PM	[11] Hands-On: Simulate your first CORSIKA 8 air shower	ULRICH, Ralf
4:45 PM	[57] Introduction to template meta-programming in C++	DEMBINSKI, Hans

Wednesday, June 19, 2019

Status and progress of air shower simulations (11:00 AM - 12:35 PM)

time	[id] title	presenter
11:00 AM	[66] Particle propagation for CORSIKA in PROPOSAL	ALAMEDDINE, Jean-Marco
11:20 AM	[67] EmCa - Electromagnetic Cascades Simulation Package	MEIGHEN-BERGER, Stephan
11:40 AM	[52] Hands-On: Physics processes	RIEHN, felix

Status and progress of air shower simulations (2:00 PM - 5:00 PM)

time	[id] title	presenter
2:00 PM	[56] Python in High-Energy Physics	DEMBINSKI, Hans
2:30 PM	[71] Optimization and Vectorization	ARRABITO, Luisa
2:50 PM	[54] Atmosphere implementation and approximations	BERNLÖHR, Konrad
3:10 PM	[70] Simulation of radio emission from particle showers in CORSIKA 7 and CORSIKA 8	HUEGE, Tim
3:25 PM	Coffee	

Thursday, June 20, 2019

Status and progress of air shower simulations (9:40 AM - 10:20 AM)

time	[id] title	presenter
9:40 AM	[51] Hands-On: Geometry and environment setup	REININGHAUS, Maximilian

Status and progress of air shower simulations (10:50 AM - 12:20 PM)

time	[id] title	presenter
10:50 AM	[75] DynStack / Memory management - implementation and features	BAACK, Dominik
11:10 AM	[6] Run control and steering	Dr NELLEN, Lukas
11:55 AM	[15] Speedup of extensive air shower simulations with neural networks	KÖPKE, Marcel