

IceCube Simulation Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

The IceCube Simulation Chain

Monday, 19 October 2020 08:00 (15 minutes)

Presenter: DIAZ-VELEZ, Juan Carlos (University of Wisconsin-Madison)

Session Classification: The IceCube Simulation Chain

Contribution ID: 2

Type: **not specified**

MuonGun

Monday, 19 October 2020 08:15 (15 minutes)

Presenter: VAN SANTEN, Jakob (DESY Zeuthen)

Session Classification: The IceCube Simulation Chain

Contribution ID: 3

Type: **not specified**

LeptonInjector/LeptonWeighter

Tuesday, 20 October 2020 08:00 (20 minutes)

Presenter: Prof. ARGUELLES DELGADO, Carlos (Harvard University)

Session Classification: The IceCube Simulation Chain

Contribution ID: 4

Type: **not specified**

PROPOSAL

Monday, 19 October 2020 08:50 (20 minutes)

Presenter: SOEDINGREKSO, Jan (Universität Dortmund)

Session Classification: The IceCube Simulation Chain

Contribution ID: 5

Type: **not specified**

CMC

Monday, 19 October 2020 09:10 (15 minutes)

Presenter: CLARK, Brian (Michigan State University)

Session Classification: The IceCube Simulation Chain

Contribution ID: 6

Type: **not specified**

PPC

Monday, 19 October 2020 09:25 (15 minutes)

Presenter: Mr CHIRKIN, Dmitry (University of Wisconsin-Madison)

Session Classification: The IceCube Simulation Chain

Contribution ID: 7

Type: **not specified**

ClSim

Monday, 19 October 2020 09:40 (20 minutes)

Presenter: VAN SANTEN, Jakob (DESY Zeuthen)

Session Classification: The IceCube Simulation Chain

Contribution ID: 8

Type: **not specified**

Polytopia

Monday, 19 October 2020 10:10 (10 minutes)

Presenter: DIAZ-VELEZ, Juan Carlos (University of Wisconsin-Madison)

Session Classification: The IceCube Simulation Chain

Contribution ID: 9

Type: **not specified**

Vuvuzela

Monday, 19 October 2020 10:20 (15 minutes)

Presenter: LARSON, Michael (University of Maryland)

Session Classification: The IceCube Simulation Chain

Contribution ID: **10**

Type: **not specified**

DOMLauncher

Monday, 19 October 2020 10:35 (15 minutes)

Presenter: JANSSON, Matti (Stockholm University)

Session Classification: The IceCube Simulation Chain

Contribution ID: **11**

Type: **not specified**

Trigger-Sim

Tuesday, 20 October 2020 08:20 (15 minutes)

Presenter: OLIVAS, Alex (University of Maryland)

Session Classification: The IceCube Simulation Chain

Contribution ID: **12**

Type: **not specified**

TopSimulator/g4-tankresponse

Monday, 19 October 2020 11:00 (15 minutes)

Presenter: PLUM, Matthias (Marquette University)

Session Classification: The IceCube Simulation Chain

Contribution ID: **13**

Type: **not specified**

Software Profiling

Monday, 19 October 2020 11:15 (25 minutes)

GPU efficiency, Memory requirements, data transfer.

Presenter: SCHULTZ, David (University of Wisconsin-Madison)

Session Classification: The IceCube Simulation Chain

Contribution ID: **14**

Type: **not specified**

Discussion

Monday, 19 October 2020 11:40 (25 minutes)

Session Classification: The IceCube Simulation Chain

Contribution ID: 15

Type: **not specified**

DYNSTACK CORSIKA update

Tuesday, 20 October 2020 09:05 (25 minutes)

Presenter: MEAGHER, Kevin (University of Wisconsin-Madison)

Session Classification: CORSIKA/MuonGun

Contribution ID: **16**

Type: **not specified**

CORSIKA8 Design and status

Tuesday, 20 October 2020 09:30 (20 minutes)

Presenter: ALVES JUNIOR, Antonio Augusto (Karlsruhe Institute of Technology)

Session Classification: CORSIKA/MuonGun

Contribution ID: 17

Type: **not specified**

CORSIKA biasing/importance sampling

Tuesday, 20 October 2020 09:50 (25 minutes)

Session Classification: CORSIKA/MuonGun

Contribution ID: **18**

Type: **not specified**

IceTop applications

Tuesday, 20 October 2020 10:15 (25 minutes)

Session Classification: CORSIKA/MuonGun

Contribution ID: **19**

Type: **not specified**

DOM Oversizing

Tuesday, 20 October 2020 10:45 (45 minutes)

Session Classification: Code Optimizations

Contribution ID: 20

Type: **not specified**

Memory optimizations

Tuesday, 20 October 2020 11:30 (35 minutes)

Dataclasses: MCTree, Photons, PEs

Presenter: VAN SANTEN, Jakob (DESY Zeuthen)

Session Classification: Code Optimizations

Contribution ID: **21**

Type: **not specified**

SnowStorm

Tuesday, 20 October 2020 08:35 (20 minutes)

Presenter: GANSTER, Erik (RWTH Aachen University)

Session Classification: The IceCube Simulation Chain

Contribution ID: 22

Type: **not specified**

I3MPI

Wednesday, 21 October 2020 08:00 (20 minutes)

Presenter: WHITEHORN, Nathan (University of California, Los Angeles)

Session Classification: Code Optimizations

Contribution ID: 23

Type: **not specified**

Module-level parallelism vs. event-level parallelism

Wednesday, 21 October 2020 08:20 (20 minutes)

Presenter: WHITEHORN, Nathan (University of California, Los Angeles)

Session Classification: Code Optimizations

Contribution ID: 24

Type: **not specified**

Hitspooling format and DAQ specifications

Wednesday, 21 October 2020 10:10 (20 minutes)

Presenter: BENDFELT, Tim (University of Wisconsin-Madison)

Session Classification: Hitspooling DAQ simulation

Contribution ID: 25

Type: **not specified**

Resource prediction studies

Thursday, 22 October 2020 10:10 (20 minutes)

Presenter: VAN SANTEN, Jakob (DESY Zeuthen)

Session Classification: Code Optimizations

Contribution ID: 26

Type: **not specified**

Upgrade Sim

Friday, 23 October 2020 08:00 (30 minutes)

Presenter: STUTTARD, Thomas (Niels Bohr Institute - University of Copenhagen)

Session Classification: Upgrade/GEN2 Simulation