Session Program

Jul 12 - 15, 2022









CORSIKA 8 Air-Shower Simulation and Development Workshop

Software development

Max Planck Institute for Nuclear Physics, Otto-Hahn-Hörsaal (library buidling) Saupfercheckweg 1, 69117 Heidelberg https://www.mpi-hd.mpg.de/mpi/en

Wed, July 13

9:30 AM

Software development

Location: Max Planck Institute for Nuclear Physics, Otto-Hahn-Hörsaal (library building), Saupfercheckweg 1, 69117 Heidelberg https://www.mpi-hd.mpg.de/mpi/en

09:30 - 10:00 Benchmarking of CORSIKA 8

Speaker

Nikos Karastathis

10:00 - 10:30

Status of hadronic interaction models in C8

Speaker

felix riehn

10:30 - 11:00 Containers for CORSIKA 8

Speaker

Dr Lukas Nellen

11:00 AM 2:00 PM

Software development

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14:00 - 14:30 CORSIKA 8 physics validation

Speaker

Lukas Nellen

14:30 - 15:00

New tracking/continous processses/propagation code

Speaker

Maximilian Reininghaus

15:00 - 15:30

Thoughts on the organization of CORSIKA 8 development

Speaker

Dr Antonio Augusto Alves Junior

3:30 PM 4:00 PM

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16:00 - 16:15 2D solution of Cascade Equations

Speaker

Tetiana Kozynets

16:15 - 16:45

About the Progress of accelerated Photon propagation

Speaker

Dominik Baack

Performance and parallelization in CORSIKA 8 16:45 - 17:15

Speaker

Dr Antonio Augusto Alves Junior

17:15 - 17:35

How to gain single-core performance: Instruction pipelines, CPU cache optimisation, and SIMD $\,$

Speaker

Hans Dembinski

6:00 PM