

2nd CORSIKA 8 Focus Week

Report of Contributions

Contribution ID: 1

Type: **not specified**

Discussion

Monday, February 18, 2019 4:00 PM (30 minutes)

Welcome to the 2nd CORSIKA 8 Focus Week

The aim is to make a major concerted step toward the next milestone release “Physics demonstrator (hadron core)”, which should become the foundation of what we want to show at ICRC 2019. We should have a final milestone release in ~May/June to identify the actual version of CORSIKA 8 used for ICRC 2019.

Today we should set our priorities for the coming week and also for the upcoming milestone.

We should try to focus on physics aspects, including first validation and comparisons to CORSIKA v7. Only critical technical aspect should be addressed now if they are needed for physics.

Session Classification: Discussion Monday

Contribution ID: 3

Type: **not specified**

Discussion

Tuesday, February 19, 2019 4:00 PM (30 minutes)

We need at least one low-energy hadron interaction model. Could be GHEISHA or URQMD (good for comparisons to CORSIKA v7) or HillasSplitting (comparing to AIRES).

We need to test and finalize the mechanics to switch between high/low energy models for given projectile particles.

Session Classification: Discussion Tuesday

Contribution ID: 4

Type: **not specified**

Discussion

Wednesday, February 20, 2019 4:00 PM (30 minutes)

We need energy losses and multiple scattering for hadrons and muons.

Session Classification: Discussion Wednesday

Contribution ID: 7

Type: **not specified**

Final discussion

Friday, February 22, 2019 4:00 PM (1 hour)

Summarize progress, discuss open points and decide on next goals.

Session Classification: Discussion Friday

Contribution ID: 8

Type: **not specified**

Tracking and Atmosphere

Monday, February 18, 2019 4:30 PM (30 minutes)

Presenter: REININGHAUS, Maximilian (KIT / IKP)

Session Classification: Discussion Monday

Contribution ID: 9

Type: **not specified**

Interactions and decays

Tuesday, February 19, 2019 4:30 PM (30 minutes)

Presenter: RIEHN, felix (kit)

Session Classification: Discussion Tuesday

Contribution ID: **10**

Type: **not specified**

Continuous integration, options and outlook

Friday, February 22, 2019 5:00 PM (30 minutes)

Presenter: Dr NELLEN, Lukas (I de Ciencias Nucleares, Universidad Nacional Autonoma de Mexico)

Session Classification: Discussion Friday

Contribution ID: 11

Type: **not specified**

Stack infrastructure

Wednesday, February 20, 2019 4:30 PM (30 minutes)

Status of particle stack infrastructure. There are many ways where we need to access the stack and stack data, which is not yet fully implemented and designed.

In this context we may also talk about the Cascade workflow and the best way to define “stack view” and “full stack” analysis processes etc.

Presenter: BAACK, Dominik (TU Dortmund)

Session Classification: Discussion Wednesday

Contribution ID: 12

Type: **not specified**

Not open meeting on licensing and considerations

Wednesday, February 20, 2019 9:00 AM (1 hour)

Session together with legal experts from KIT to discuss options and issues with licensing choices, and related agreements. Relevant results and conclusions of this meeting will be discussed with everybody in the corsika project.

Contribution ID: **13**

Type: **not specified**

Software / CI

Friday, February 22, 2019 5:30 PM (30 minutes)

Presenter: DEMBINSKI, Hans

Session Classification: Discussion Friday