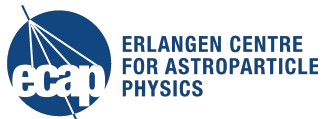


KM3NeT use case extended - Integrating CWL and DIRAC

Jutta Schnabel

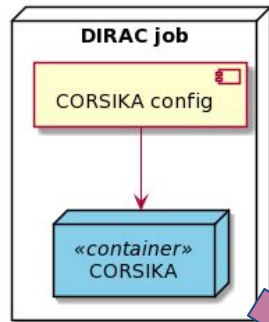
WP5 Progress meeting

27/10/2020



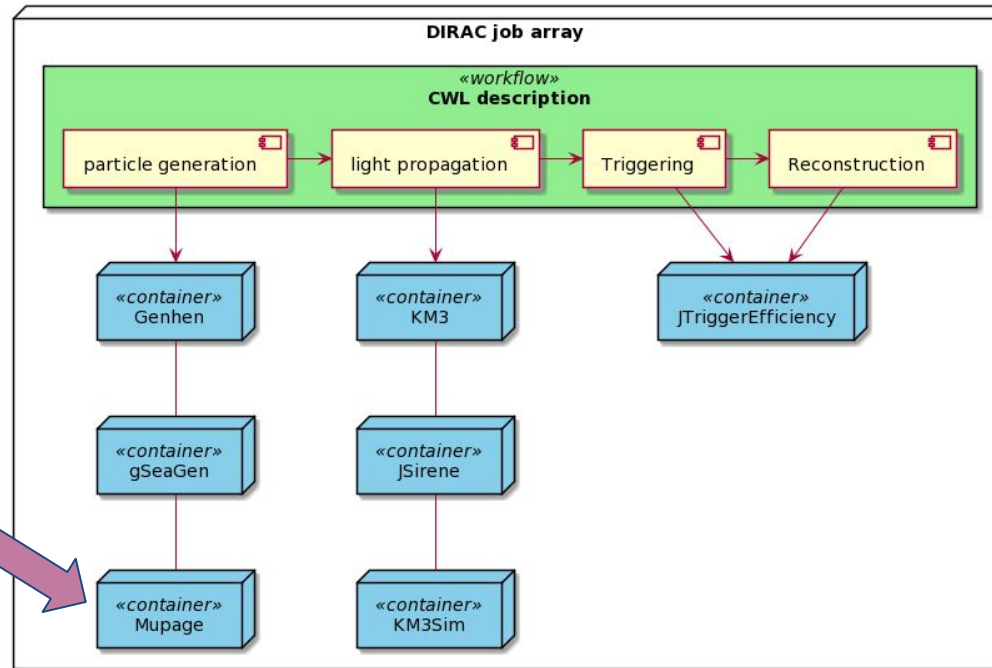
Common workflow language (CWL) and Dirac

What is implemented for Corsika studies:



Results used to improve

What we will need for **full Monte Carlo simulations**:



- rich annotation with metadata, provenance
- modular set-up
- use of docker/ singularity containers
- parallel execution, high volume production
- verification of settings and environment control

→ add **description layer**

using CWL

Current status and plans

- started a **first test for wrapping** simulation software:
<https://git.km3net.de/tgal/pipelines>
- discussion on possibility to integrate **data-driven logic** of Dirac with CWL composition of the workflow
- Getting access to Dirac installation and first use tests
- develop full workflow description
- capture provenance from workflow description
- integrate job execution and data access in ESCAPE environment?