



Contribution ID: 24

Type: **not specified**

# DQM4HEP : a generic data quality monitoring framework for HEP

*Thursday, 18 January 2018 11:15 (15 minutes)*

Data quality monitoring is the first step to the certification of the recorded data for off-line physics analysis. Dedicated monitoring framework have been developed by many experiments in the last decades and usually rely on the event data model (EDM) of the experiment, leading to a strong dependency on the data format and storage. We present a generic data quality monitoring system, DQM4HEP, that has been developed without any assumption on the EDM. This increases the code maintenance, the portability across different experiments and re-usability for future experiment.

After introducing the framework architecture and the various tools provided by the software package, its use in different testbeam situations for various detectors, such as the SDHCal, SiWECal, AHCal calorimeters of the CALICE collaboration, is presented. The ongoing developments on data quality assessment in off-line mode and future integrations for different projects are finally discussed.

**Primary author:** Dr ETE, Remi (DESY)

**Co-authors:** PINGAULT, Antoine (GENT); COATES, Tom (SUSSEX)

**Presenter:** Dr ETE, Remi (DESY)

**Session Classification:** Software & Simulation