



Contribution ID: 297

Type: **Poster**

Data Calibration and Processing at Belle II

Monday, 24 October 2022 16:10 (30 minutes)

The Belle II experiment has been collecting data since 2019 at the second generation e^+/e^- B-factory SuperKEKB in Tsukuba, Japan. The goal of the experiment is to explore new physics via high precision measurement in flavor physics. This is achieved by collecting a large amount of data that needs to be calibrated promptly for fast reconstruction and recalibrated thoroughly for the final reprocessing. To fully automate the calibration process a Python plugin package, `b2cal`, had been developed based on the open-source Apache Airflow package using Directed Acyclic Graphs (DAGs) to describe the ordering of processes and Flask to provide administration and job submission web pages. Prompt processing and reprocessing are performed at different calibration centers (BNL and DESY, respectively). After calibration, the raw data are reconstructed on the GRID to an analysis-oriented format (mDST), also stored on the GRID, and delivered to the collaborations. This talk will describe the whole procedure, from raw data calibration to mDST production.

Experiment context, if any

Belle II

References

Significance

Primary author: LACAPRARA, Stefano (INFN sezione di Padova)**Presenter:** LACAPRARA, Stefano (INFN sezione di Padova)**Session Classification:** Poster session with coffee break