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Run Dependent Monte Carlo at Belle II

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The Belle II is an experiment taking data from 2019 at the asymmetric e^+e^- SuperKEKB collider, a second generation B-factory, at Tsukuba, Japan. Its goal is to perform high precision measurements of flavor physics observables. One of the many challenges of the experiment is to have a Monte Carlo simulation with very accurate modeling of the detector, including any variation occurring during data taking. To this goal, a dedicated “run dependent” Monte Carlo has been developed, using the detector conditions during data taking, as well as using beam induced background collected with random triggers. In this talk, the procedure for setup and processing of run-dependent Monte Carlo at Belle II will be shown.

Significance

References

Experiment context, if any

Belle II

Primary authors: MARTINI, Alberto (DESY); LACAPRARÀ, Stefano (INFN sezione di Padova)

Presenter: MARTINI, Alberto (DESY)

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