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Data quality monitors of vertex detectors at the start of the Belle II experiment

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The Belle II experiment features a substantial upgrade of the Belle detector and will operate at the SuperKEKB energy-asymmetric e^+e^- collider at KEK in Tuskuba, Japan. The accelerator successfully completed the first phase of commissioning in 2016 and the Belle II detector saw its first electron-positron collisions in April 2018. Belle II features a newly designed silicon vertex detector based on double-sided strip and DEPFET pixel detectors. A subset of the vertex detector was operated in 2018 to determine background conditions (Phase 2 operation); installation of the full detector was completed early in 2019 and the experiment starts full data taking.

This talk will report on the final arrangement of the silicon vertex detector part of Belle II with focus on on-line and off-line monitoring of detector conditions and data quality, design and use of diagnostic and reference plots, and integration with the software framework of Belle II. Data quality monitoring plots will be discussed with a focus on simulation and acquired cosmic and collision data.

Consider for promotion

No

Authors: BILKA, Tadeas (Charles University, Prague); CASAROSA, Giulia (INFN - National Institute for Nuclear Physics); KODYS, Peter (Charles University); RIZZO, Giuliana (INFN & University - Pisa); SPRUCK, Bjoern (Johannes Gutenberg University Mainz); WIECHCZYNSKI, Jaroslaw Pawel (Polish Academy of Sciences (PL)); KODYS, Peter (Charles University (CZ))

Presenters: KODYS, Peter (Charles University); KODYS, Peter (Charles University (CZ))

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