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Belle II Pixel Detector Commissioning and Operational Experience

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The Belle 2 experiment at the super flavour factory SuperKEKB in Tsukuba, Japan, has started regular operation with its final detector setup in spring 2019. The Belle 2 vertexing system consists of four layers of double sided silicon strips (SVD) and two layers of DEPFET pixel sensors (PXD). These inner most pixel layers are arranged at radii of 14mm and 22mm around the beam pipe. The sensors with pixel sizes down to 50um times 55um are thinned down to 75um thickness to minimize multiple scattering. They are most crucial for reconstructing the secondary decay vertices of short lived B and D mesons with a precision of better than 15 microns. The high luminosity and harsh background conditions impose challenges on the operation of the detector close to the interaction point.

In this talk, we will review the commissioning and operation experience during the first months of data taking, including performance figures of first data.

Author: SPRUCK, Björn (Universität Mainz)

Presenter: SPRUCK, Björn (Universität Mainz)

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