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Performance of the Belle II Silicon Vertex Detector

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The Belle II experiment at the SuperKEKB collider of KEK (Japan) will accumulate 50 ab^{-1} of e^+e^- collision data at an unprecedented instantaneous luminosity of $8 \times 10^{35} \text{ cm}^{-2}\text{s}^{-1}$, about 40 times larger than its predecessor. The Belle II vertex detector plays a crucial role in the rich Belle II physics program, especially for time-dependent measurements. It consists of two layers of DEPFET-based pixels and four layers of double sided silicon strip detectors (SVD). The vertex detector has recently completed its first physics run in spring 2019 and is scheduled to restart in October for the autumn run of SuperKEKB. In this talk, I will report results from the commissioning of the SVD and its performance measured with the first collision data set.

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