



Contribution ID: 13

Type: Talk (invited speaker only)

[A03] The Belle II Silicon Vertex Detector: Performance and Operational Experience in the first year of data taking

Monday 5 October 2020 21:15 (30 minutes)

In spring 2019 the Belle II experiment at the high luminosity SuperKEKB $e+e-$ collider (KEK, Japan) has resumed operation after the installation of the new vertex detector. Two inner layers of DEPFET-based pixels (PXD) and four layers of double-sided silicon strip detectors (SVD) make up the vertex detector. In the first period of operation SuperKEKB has already reached the record luminosity of $2.4 \times 10^{34} \text{cm}^{-2}\text{s}^{-1}$, which will be increased by about a factor 30 in the coming years.

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Session Classification: Current Detectors I