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Performance of Belle II tracking on collision data

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The tracking system of Belle II consists of a silicon vertex detector (VXD) and a cylindrical drift chamber (CDC), both operating in a magnetic field created by the main solenoid of 1.5 T and final focusing magnets. The Belle II VXD is a combined tracking system composed by two layers of pixel detectors married with four layers of double sided silicon strip sensors (SVD). The drift chamber consists of 56 layers of sense wires, arranged in interleaved axial and stereo superlayers, to assist track finding and provide full 3D tracking. The tracking algorithms employed at Belle II are based on a standalone reconstruction in SVD and CDC as well as on a combination of the two approaches. The tracking reconstruction is tested on the collision data collected in 2018 and 2019, the results are reported in this talk.

Consider for promotion

Yes

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