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Spatial Resolution of the Belle II Silicon Vertex Detector

The Belle II experiment at the SuperKEKB collider in Japan will search for new sources of CP violation as well as probe new physics by studying the suppressed decays of beauty and charm mesons. In these pursuits, the spatial resolution of the silicon vertex detector (SVD) of the experiment will play a key role. We dwell on the studies undertaken towards extracting the SVD spatial resolution based on simulated and commissioning data, and how all these might help improving the SVD reconstruction software. We also provide an insight into the working of the latest version of the SVD software.

Primary author: Mr HALDER, Soumen (Research Scholar)

Presenter: Mr HALDER, Soumen (Research Scholar)