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Material Studies for the Belle-II experiment

Monday, 29 May 2017 12:00 (15 minutes)

The Belle II experiment at the KEK laboratory is currently undergoing commissioning, with first physics data anticipated in 2018. Understanding the material distribution of detector components is of critical importance for precision e+e- collider experiments like Belle-II, as the density and distribution of this material impacts tracking and vertex reconstruction, as well as other aspects of detector performance. In the talk I will present a comparison of test beam experiments using high resolution tracking telescopes to obtain precise 2D images silicon vertex detector modules with the detector model implemented in the Belle-II simulation. I will also present detailed studies of material profiles of other components of the Belle II detector and compare these with the as-built detector

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