Contribution ID: **40** Type: **ORAL**

The silicon strip vertex detector of the Belle II experiment

Tuesday, September 3, 2013 9:20 AM (20 minutes)

The CP violation in the quark sector had been observed in 2001 by two B-factories, the Belle and BaBar experiments. The Belle II, upgrade of the Belle experiment, searching for the physics beyond the Standard model is under construction toward the physics run scheduled for the end of 2016. The vertex detector of the Belle II consists of two types of silicon detectors, of a pixel detector (PXD) and a strip detector (SVD) using double-sided silicon detectors(DSSDs). One of the most characteristic features of SVD is adapting unique chip-on-sensor scheme which ensures good S/N ratio while keeping the material budget as low as possible. In this talk, I'll report on the implementation of the scheme, the status and future prospect of the Belle II-SVD.

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Session Classification: Session 3

Track Classification: Strips