



Contribution ID: 1007

Type: Parallel Session Talk

Status and Prospects of SuperKEKB and Belle II

Saturday, 24 July 2010 17:15 (13 minutes)

We report on the plan and current status of the upgrade of the KEK B-factory accelerator to a super B factory (SuperKEKB), and the upgrade of the Belle detector to Belle II. The upgraded accelerator should reach an instantaneous luminosity of $8 \times 10^{35} \text{ cm}^{-2} \text{ s}^{-1}$, which is about 40 times higher than that of the current KEKB accelerator. The upgraded Belle II detector will be significantly improved to increase background rejection and improve physics performance. The expected sensitivity to new physics of the Belle II experiment will be presented. Many of the physics measurements are unique to e^+e^- collider experiments and complementary to new physics searches that will be carried out at the LHC.

Primary author: Prof. KRIZAN, Peter (Ljubljana Univ. and J. Stefan Institute, Ljubljana)

Presenter: USHIRODA, Yutaka (KEK)

Session Classification: 06 - CP violation, CKM and Rare Decays

Track Classification: 06 - CP violation, CKM and Rare Decays