



Contribution ID: 230

Type: **Oral Presentation**

The beam background at SuperKEKB/Belle-II

Saturday 11 June 2011 14:00 (25 minutes)

The Belle experiment, operated at the asymmetric electron-positron collider KEKB, had accumulated a data sample with an integrated luminosity of more than 1 ab^{-1} before the shutdown in June 2010.

We have started upgrading both the accelerator and detector, SuperKEKB and Belle-II, to achieve the target luminosity of $8 \times 10^{35} \text{ cm}^{-2} \text{ s}^{-1}$.

With the increased luminosity, the beam background will also increase.

We will present the estimation of beam background at SuperKEKB and the development of Machine-Detector Interface (MDI) design, to cope with the increased background and protect Belle-II detector.

Primary author: UNO, Shoji (KEK, Tsukuba)

Co-authors: Mr NAKANO, Hiroshi (Tohoku Univ.); NAKAYAMA, Hiroyuki (KEK)

Presenter: UNO, Shoji (KEK, Tsukuba)

Session Classification: Machine Det. Interface and Beam Instr.

Track Classification: Machine Detector Interface and Beam Instrumentation