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Status and Prospects of the Super KEKB project (title TBC)

Friday, 15 October 2010 15:00 (15 minutes)

(TBC) We report on the plan and current status of Super B upgrade of the KEK B-factory accelerator, SuperKEKB, and the Belle detector, Belle II
The upgraded accelerator should reach an instantaneous
luminosity of $O(10^{36})$ cm^{-2} s^{-1}, which is
about 40-50 times higher than that of the current highest luminosity by
KEKB accelerator. The upgraded Belle II detector will have significant improvements to increase background rejection and improve
physics performance. The expected sensitivity to new physics of the
Super B factory experiments is 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.

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Session Classification: New Experiments

Track Classification: Future Experiments