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Status and Prospects of SuperKEKB and Belle II

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We report on the plan and current status of the upgrade of the KEK B-factory accelerator toa super B factory (SuperKEKB), and the upgrade of the Belle detector to Belle II. The upgraded accelerator should reach an instantaneous luminosity of 8 x 10^{35} cm^{-2} 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- a collider experiments and complementary to new physics searches that will be carried out at the LHC.

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