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The Belle II experiment: status and Physics prospects.

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The Belle II experiment is a substantial upgrade of Belle detector and will operate at the SuperKEKB energy-asymmetric e^+e^- collider, which has started commissioning and is working towards its design luminosity of $8 \times 10^{35} \text{ cm}^{-2}\text{s}^{-1}$. The Belle II experiment aims to record 50 ab^{-1} of data, a factor of 50 more than the Belle experiment. This large data set will be accumulated with low backgrounds and high trigger efficiencies in a clean e^+e^- environment and will provide unprecedented sensitivity to new physics signatures in B and D meson decays as well as τ lepton decays. This talk will review the present status of the detector upgrade, and the physics capabilities of this experiment.

Presentation type

Parallel talk

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