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Towards First Physics At Belle II

Wednesday 15 June 2016 10:00 (30 minutes)

The next-generation B-factory Belle II at the upgraded KEKB accelerator, SuperKEKB, is aiming to start physics data taking in 2018. It is an asymmetric e^+e^- collider that will operate with 40x the instantaneous luminosity of KEKB/Belle. The broad physics program will cover physics with B and D mesons, muon and tau leptons as well as measurements using the method of radiative returns and direct searches for New Physics. This talk will summarize the current status of the accelerator and the detector with emphasis on the electromagnetic calorimeter. This talk will furthermore give an overview about physics topics for the first data with a focus on direct searches for Dark Photons decaying into standard model particles or light dark matter.

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Session Classification: W1-2 Energy Frontier: Standard Model and Higgs Boson (PPD) / Frontière d'énergie: modèle standard et boson de Higgs (PPD)

Track Classification: Particle Physics / Physique des particules (PPD)