



Contribution ID: 32

Type: **Parallel talk**

## The Belle II experiment: status and Physics prospects.

*Thursday, 22 June 2017 14:30 (15 minutes)*

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  $50 \text{ ab}^{-1}$  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  $\tau$  lepton decays. This talk will review the present status of the detector upgrade, and the physics capabilities of this experiment.

### Presentation type

Parallel talk

**Primary author:** Dr MEROLA, Mario (University of Naples and INFN)**Presenter:** Dr MEROLA, Mario (University of Naples and INFN)**Session Classification:** Parallel IV