



Contribution ID: 394

Type: talk

The Belle II experiment at the SuperKEKB collider

Saturday, July 25, 2015 10:20 AM (15 minutes)

The Belle II experiment at the SuperKEKB collider in Tsukuba, Japan, will start physics data taking in the year 2018 and aims at accumulating 50 ab^{-1} of $e^+ e^-$ collision data, about 50 times the data set of the previous Belle experiment. The physics program provides simultaneous studies of a wide range of areas in b -quark, c -quark, τ -lepton, two-photon, quarkonium and exotic physics. Belle II, as a next generation flavour factory, will search for New Physics in the flavour sector at the precision frontier, and further reveal the nature of QCD in describing matter. In this presentation, we review the current state of Belle II construction and describe the main physics opportunities at this future facility.

additional information

Submitted on behalf of the Belle II collaboration. Actual presenter will be selected by the Belle II collaboration at a later time.

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Session Classification: Flavour Physics and Fundamental Symmetries

Track Classification: Flavour Physics and Fundamental Symmetries