Contribution ID: **14** Type: **not specified**

B-physics results from Belle and Belle II

Tuesday, 4 June 2024 09:00 (30 minutes)

The Belle II experiment has collected a 424 fb^{-1} sample of e^+e^- collisions produced by the asymmetric SuperKEKB collider. Ninety percent of the sample is at the $\Upsilon(4S)$ resonance, which decays to B-meson pairs. The predecessor experiment, Belle, collected nearly 1 ab^{-1} of data from 1999-2010, three-quarters of which was at the $\Upsilon(4S)$. From these $\Upsilon(4S)$ data, we have made measurements of rare B decays and CP violation, as well as searched for lepton-universality violation. Highlights include the first observation of $B \to K\nu\bar{\nu}$ and measurements of lepton-universality in semitauonic B decays.

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Session Classification: Session 3