

Hadronic B decays at Belle and Belle~II

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The Belle and Belle II B-factories have collectively gathered an extensive 1.1~fb^{-1} dataset of e^+e^- collisions at the $\Upsilon(4S)$ resonance, resulting in the production of numerous $B\bar{B}$ pairs. This allows for precise measurements of hadronic B decays, which is essential to test Quantum Chromodynamics (QCD) and refine theoretical models. This also helps improve simulation accuracy. We present results for the B to hadronic decays such as $B^- \rightarrow D^0 \rho^-$, $B \rightarrow DK^* K_{(s)}^{(*) (0)}$, $B^0 \rightarrow \eta' K_S^0$ and $B \rightarrow \pi^0 \pi^0$. These decays provide deep insights into absolute branching fractions and angular distributions of decay products and help measure CKM elements.

Track type

Flavour Physics

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