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Recent Belle II results on hadronic B decays

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The investigation of B -meson decays to charmed and charmless hadronic final states is a keystone of the Belle II physics program. It allows for theoretically reliable and experimentally precise constraints on the CKM Unitarity Triangle fit, and is sensitive to effects from non-SM physics. Results on branching ratios, direct CP -violating asymmetries, and polarization of various charmless B decays are presented, with particular emphasis on those for which Belle II will have unique sensitivity. New results from combined analyses of Belle and Belle II data to determine the CKM angle ϕ_3 (or γ) are also presented. Perspectives on the precision achievable on the CKM angles and on the so called “ $K\pi$ puzzle” are also discussed.

In-person participation

Yes

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