

# Hadronic B decay at Belle II

*Monday, 6 June 2022 15:40 (25 minutes)*

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. Perspectives on the precision achievable on the CKM angles and on the so called “ $K\pi$  puzzle” are also discussed. New results from combined analyses of Belle and Belle II data to determine the CKM angle  $\phi_3$  (or  $\gamma$ ) and time-dependent CP violation measurements are also presented.

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**Session Classification:** Heavy Flavour session