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Charmless B decays at Belle II

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Charmless B decays provide a unique portion of the Belle II program. The expected large signal yields with moderate backgrounds associated with efficient reconstruction of neutral particles enable world-leading determination of the CKM phase α/ϕ_2, a conclusive understanding of the so-called K-π CP puzzle, and further insight into the nature of localized CP violation in three-body decays. We report preliminary measurements based on the sample collected during 2019-2020 operations and corresponding to 65 fb^{-1} of integrated luminosity. Results include a test of the $K\pi$ isospin sum-rule, an angular analysis of $B \to \rho^+\rho^0$ decays, and the reconstruction of a $B^0 \to \pi^0\pi^0$ signal.

Summary

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