

# 31st International Symposium on Lepton Photon Interactions at High Energies



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## Recent Belle II results on hadronic B decays

*Tuesday, 18 July 2023 17:00 (15 minutes)*

The investigation of  $B$ -meson decays into charmed and charmless hadronic final states is a keystone of the Belle II program. It offers theoretically reliable and experimentally precise constraints on CKM unitarity, it is sensitive to effects from non-SM physics, and it furthers knowledge about uncharted  $b \rightarrow c$  hadronic transitions. Recent results on branching ratios and direct CP-violating asymmetries of  $B \rightarrow K\pi$  decays are presented that lead to world-leading tests of the SM based on the  $K\pi$  isospin sum rule. First observations of new  $B \rightarrow D^{(*)}KK_S$  decays and new results from combined analyses of Belle and Belle II data to determine the CKM angle  $\phi_3$  (or  $\gamma$ ) are also presented.

**Presenter:** SHI, Xiaodong (KEK)

**Session Classification:** Flavour

**Track Classification:** Flavour physics