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Measurements of electroweak and radiative penguin B decays at Belle and Belle II

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The Belle and Belle II experiments have collected a 1.1 ab^{-1} sample of $e^+e^- \to B\bar{B}$ collisions at the $\Upsilon(4S)$ resonance. These data, with low particle multiplicity and constrained initial state kinematics, are an ideal environment to search for rare B meson decays proceeding via electroweak and radiative penguin processes. Results include those of the decay $B^+ \to K^+\nu\bar{\nu}$ using an inclusive tagging technique. We also present results on radiative decays $B^0 \to \gamma\gamma$, $B \to \rho\gamma$ and $B \to K^*\gamma$. CP and isospin asymmetries are presented for the latter two decays. We also present results from decays related to $b \to s\ell^+\ell^-$ and $b \to d\ell^+\ell^-$ transitions, where ℓ is an electron or muon.

Primary authors: Mr GHOSH, Debjit (INFN Trieste); VAHSEN, Sven (University of Hawaii (US))

Presenter: Mr GHOSH, Debjit (INFN Trieste)

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