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## Electroweak penguin and lepton-flavour violating B decays to final states with missing energy at Belle II

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The Belle and Belle II experiments have collected a  $1.2 \text{ ab}^{-1}$  sample of  $e^+e^- \rightarrow B\bar{B}$  collisions at a centre-of-mass energy corresponding to the  $\Upsilon(4S)$  resonance. These data, with low particle multiplicity and constrained initial state kinematics, are an ideal environment to search for rare electroweak penguin  $B$  decays and lepton-flavour-violating decays to final states with missing energy from neutrinos.

Results from  $b \rightarrow s\nu\bar{\nu}$  processes and their interpretation are presented. In addition, we present searches for the processes . Finally, we present our searches for the lepton-flavour violating decays  $B \rightarrow K^{(*)}\tau^\pm\ell^\mp$ , where  $\ell$  is an electron or muon.

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