

30th International Symposium on Lepton Photon Interactions at High Energies



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Electroweak and radiative penguin decays at Belle II

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Decays of B mesons that proceed through electroweak and radiative penguin amplitudes currently attract significant attention due to a number of observed discrepancies between the standard model predictions and the experimental results.

Belle II is expected to perform measurements on channels closely related to those exhibiting anomalies and that are uniquely available to Belle II. These include $b \rightarrow s(d) \nu \bar{\nu}$ and $b \rightarrow s(d) \tau^+ \tau^-$ transitions. We present the first signals observed with early data on $b \rightarrow s \gamma$, $b \rightarrow s l^+ l^-$ transitions, and discuss the limits on $B^+ \rightarrow K^+ \nu \bar{\nu}$ obtained with a novel inclusive technique.

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