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Prospects for rare B decays at Belle II

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Rare, and flavor-changing neutral current B decays are an important probe in the search for physics beyond the Standard Model. There have recently been several anomalies in rare B decays, and lepton-universality measurements, specifically involving the $b \rightarrow sl+l^-$ quark transition. These results tend towards a non-Standard-Model interpretation.

The Belle II experiment is a next-generation B-physics experiment located at SuperKEKB, an upgraded B-factory $e+e^-$ collider, in Tsukuba, Japan. The first data are expected in early 2018. This talk will describe prospects for many rare B decays at Belle II including $b \rightarrow sl+l^-$ processes and others, such as $b \rightarrow (s, d)\gamma$, $b \rightarrow s\tau\tau$, and $b \rightarrow sv\nu$. Areas where the Belle II program is complementary to the currently running LHCb experiment will be highlighted.

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