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Electroweak and radiative penguin processes in B decays at Belle

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Electroweak and radiative penguin processes such as the quark-level b -> s l+ l- and b -> s gamma decays occur only through the FCNC loop or box diagrams in the Standard Model (SM) and so provide a very powerful probe to look for new physics beyond the SM. In this talk, we present recent results from Belle on these decays. For the first time, we measure the forward-backward asymmetry of inclusive B -> Xs l+ l- decays, where Xs is the hadronic recoil system containing a strange quark, using the full \Upsilon(4S) event sample of 711 fbˆ-1 produced by the KEKB collider and collected by the Belle detector. We also report new results on the search for radiative B -> p \bar{p} Lambda gamma decays.

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