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Rare decays at LHCb

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Rare decays are very sensitive probes for phenomena beyond the Standard Model, complementary to direct searches. In the Standard Model, rare decays are loop suppressed and may receive significant contributions from new particles, if these exist. Particularly interesting are $b \rightarrow sll$ transitions, which allow tests of lepton universality to be performed. Very rare decays such as $B(s) \rightarrow ll$ are furthermore helicity suppressed and constitute powerful probes for new (pseudo) scalar particles. Recent results of rare b-hadron decays at LHCb will be presented.

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