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## Rare strange decays at LHCb

*Saturday, July 8, 2017 12:00 PM (15 minutes)*

Rare decays are fundamental probes of physics beyond the Standard Model.

The expanding LHCb program of strange physics, in particular of their rare decays, provides a unique and complementary probe to test the SM with respect to the beauty and charm sector.

We present here the current status of rare decays studies at the LHCb experiment, including the new limit on the  $K_s \rightarrow \mu\mu$  branching fractions, and discuss a possible picture emerging from these measurements.

In addition, prospects for strange physics with the LHCb Run 2 data and after the improvements in the trigger foreseen in the LHCb Upgrade are discussed.

### Experimental Collaboration

LHCb

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**Session Classification:** Flavour and symmetries

**Track Classification:** Flavour Physics and Fundamental Symmetries