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Latest results on $B_s \rightarrow \mu\mu$ and other rare decays in LHCb

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Rare heavy flavour decays occurring through flavour-changing neutral-current processes are an ideal place to search for the effects of potential new particles that modify the decay rates. The LHCb experiment, a dedicated heavy flavour experiment at the LHC, has recorded the world's largest sample of heavy meson decays. The status of the rare decay analyses with this sample is reviewed. The first evidence for the very rare decay $B^0_s \rightarrow \mu\mu$ is presented together with the most stringent upper exclusion limits on the branching fraction of decays of B^0 and K^0_s mesons into two muons. The first limit ever set on the $B \rightarrow 4\mu$ decays is also presented.

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Classification de Session: Heavy Flavours

Classification de thématique: Experiment