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Studies of rare Bs and B0 decays to dimuons at CMS

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Rare beauty meson decays $B_{s,d} \rightarrow \mu^+\mu^-$ are searched in pp collisions at LHC using a data sample collected by the CMS experiment. These decays are highly suppressed in the standard model. They can only proceed through the flavor-changing neutral currents, which are forbidden at tree-level diagrams. These decays are an excellent probe to the new physics; any difference between the measured branching fraction and the standard model prediction could provide a smoking gun signal of new physics.

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