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Studies of rare beauty and charm decays with the CMS experiment

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The rare decays B_s(B^0)->mu+mu-, B0->K*mu+mu- and D0->mu+mu- are excellent tests of the flavor sector of the Standard Model and are sensitive to new physics. We report on studies of these decays performed with the CMS experiment using pp collisions data collected in 2011 at a centre-of-mass energy of 7 TeV.

We present the first observation of the excited B baryon Xi_b^* in the strong decays to Xi_b^- and a charged pion, performed with the CMS experiment at sqrt(s)=7 TeV. In addition, we present measurements of B hadron lifetimes.

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