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Properties and decays of the B_c meson and b baryons

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Using the large data sample collected by the CERN LHCb experiment, we present studies of B_c mesons and b baryons, including the first observation of new decay modes of the B_c meson as well as high precision mass measurements. The polarization amplitudes in $\Lambda_b \rightarrow J/\psi \Lambda_0$ decay are measured together with measurements of the transverse polarisation of Λ_b baryons produced in $\sqrt{s}=7$ TeV pp collisions

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