

Measurement of the Λ_b cross section

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The Λ_b differential production cross section are measured as functions of their corresponding transverse momentum and rapidity in proton-proton collisions as centre-of-mass energy of 7 TeV using data collected by the Compact Muon Solenoid (CMS) experiment at the Large Hadron Collider (LHC). Measurements are based on Λ_b reconstructed decays in the J/ψ meson and Λ^0 baryon final state where the J/ψ decays into an opposite charged muon pair and Λ^0 decays into a proton and a pion meson. This work uses a data sample corresponding to an integrated luminosity of 1.9/fb.

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