

Measurment of the Λ_b polarization in the $\Lambda_b \rightarrow \Lambda J/\psi$ decay

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Abstract

Predictions based on heavy-quark effective theory indicate for Λ_b baryons a large fraction of the transverse b-quark polarization to be retained after hadronization. We performed an angular analysis in the $\Lambda_b \rightarrow \Lambda(p+\pi^-) J/\psi(\mu^+\mu^-)$ decay. We present a measurement of the Λ_b polarization using data from pp collisions at $\sqrt{s} = 7$ TeV and 8 TeV collected with the CMS detector.

Title

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