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Angular analysis of the decay B + →k + μ + μ - in proton - proton collisions at s = 8 TeV (Article) (Open Access)

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Abstract

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The angular distribution of the flavor-changing neutral current decay B + →K + μ + μ - is studied in proton - proton collisions at a center-of-mass energy of 8 TeV . The analysis is based on data collected with the CMS detector at the LHC, corresponding to an integrated luminosity of 20.5 fb-1. The forward-backward asymmetry AFB of the dimuon system and the contribution FH from the pseudoscalar, scalar, and tensor amplitudes to the decay width are measured as a function of the dimuon mass squared. The measurements are consistent with the standard model expectations. © 2018 CERN.

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