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Measurement of B0, B0s, B+ and Lambda0b production asymmetries in 7 and 8 TeV proton-proton collisions at LHCb

Friday, 21 April 2017 17:00 (1 hour)

The B^0, B_s^0, B^+ and Λ_b^0 hadron production asymmetries are measured using a data sample corresponding to an integrated luminosity of $3.0 fb^{-1}$, collected by the LHCb experiment in proton-proton collisions at centre-of-mass energies of 7 and 8 TeV. The B^0, B_s^0 and B^+ production asymmetries are measured by means of $B^0 \to J/\psi(\mu^+\mu^-)K^{*0}(K^-\pi^+)$, $B_s^0 \to D_s^-(K^+K^-\pi^-)\pi^+$ and $B^+ \to J/\psi(\mu^+\mu^-)K^+$ decays. Then, exploiting a unitarity relation, the Λ_b^0 production asymmetry is determined. The measurements are performed as a function of transverse momentum and rapidity of the b hadrons within the LHCb detector acceptance. The overall production asymmetries, integrated over transverse momentum and rapidity, are also determined.

Primary author: FERRARI, Fabio (BO)

Presenter: FERRARI, Fabio (BO)

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