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Measurement of B^0 , B_s^0 , B^+ and Λ_b^0 production asymmetries in 7 and 8 TeV proton-proton collisions at LHCb

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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 $B^0 \rightarrow J/\psi(\mu^+\mu^-)K^{*0}(K^-\pi^+)$, $B_s^0 \rightarrow D_s^-(K^+K^-\pi^-\pi^+)$ and $B^+ \rightarrow J/\psi(\mu^+\mu^-)K^+$ 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)**Session Classification:** Archivio Poster**Track Classification:** Sessione Frontiera Intensità