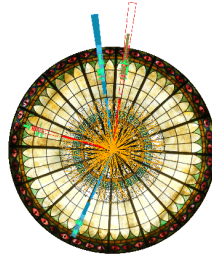


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## Measurement of forward-backward asymmetries of $B^+$ , $\Lambda_b$ and $\Lambda$ in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV

*Tuesday, 28 April 2015 17:05 (25 minutes)*

We present a measurement of the forward-backward asymmetry in the production of  $B^\pm$  mesons,  $\Lambda_b$  baryons and  $\Lambda$  baryons in  $10.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s}=1.96$  TeV collected by the D0 experiment during Run II of the Tevatron collider. Nonzero asymmetries would indicate a preference for a particular flavor, i.e., b quark or b antiquark, to be produced in the direction of the proton beam. These measurements provide important constraints on the production mechanisms of heavy quarks at hadron colliders.

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