

Production of Λ_b baryon and B_0 s mesons at LHCb

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Heavy hadron production is well-suited as a benchmark process for understanding QCD. While b-quark production properties can be estimated within perturbative QCD, the subsequent fragmentation into a b hadron is a non-perturbative process and cannot be calculated from the first principles. Our understanding of fragmentation functions and fractions thus relies solely on experimental input. Recently, LHCb have taken a closer look at the properties of Λ_b baryon and B_s meson production. The new results demonstrate that b-quark fragmentation clearly depends on the kinematics of the hadrons produced, and shed welcome light on B_s production.

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