

Abstract Submitted  
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**$b$  quark production at a center-of-mass energy of 13 TeV**  
MATTHEW KELSEY, Syracuse Univ, LHCb COLLABORATION — Measurements of the cross-section for producing  $b$  quarks in the reaction  $pp \rightarrow b\bar{b}X$  and  $B$  hadron production fractions as a function of  $\eta$  and transverse momentum are reported in 13 TeV collisions at the LHC with data taken by the LHCb detector. The measurements are done using semileptonic decays of  $b$ -flavored hadrons decaying into a ground-state charmed hadron in association with a muon.

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