

Top physics at LHCb

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LHCb, while purpose built for b-physics, also functions as a general purpose forward detector, covering the pseudo-rapidity range 2.0 to 5.0. Measurements of top production in the LHCb acceptance have particular sensitivity to high values of Bjorken-x, and offer complementary PDF constraints to measurements at the central detectors. In addition, the higher contribution from quark-initiated production to top pair production in the forward region leads to a larger expected charge asymmetry at LHCb than at the other experiments. The first Run 2 measurement of top pair production at LHCb at 13 TeV will be presented, along with previous Run 1 measurements in final states accessible to both single top and top pair production.

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