

Electroweak boson production in the forward region with LHCb

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We report on measurements of W and Z boson production, using muon final state topologies, with the LHCb experiment and using data taken at centre of mass energy of 7 TeV. Measurements of the inclusive W and Z production cross-sections, $Z(W)$ differential cross-sections as a function of boson rapidity (muon pseudorapidity), their ratios, and the W charge asymmetry are presented and compared to theoretical predictions. We discuss the potential sensitivity such measurements display to the underlying parton density functions.

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