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Measurement of the inclusive muon differential cross section with the ATLAS detector at LHC

We present the measurement of the muon inclusive differential cross section dSigma/dpT in pp collisions at sqrt(s) = 7 TeV. The analysis is performed in the pseudorapidity interval |eta| < 2.5 for muon of transverse momentum 4 < pT < 100 GeV. The data have been recorded using different configurations of the level-1 muon trigger for an integrated luminosity of 1.4 pb-1. The result is compared with the Next-To-Leading Order with Next to Leading Log high pT resummation prediction for the heavy flavour production and with MC@NLO prediction for W-Z bosons production. The measurement is sensitive for the first time to the Next to Leading Log contribution to the heavy flavour production in hadronic interactions.

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