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Heavy flavours in DIS using muon tags at HERA

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The production of charm and beauty quarks in ep interactions has been measured with the ZEUS detector at HERA for squared four-momentum exchange Qˆ2>20 GeVˆ2, using an integrated luminosity of 126 pbˆ-1. Charm and beauty quarks were identified through their decays into muons. Differential cross sections were measured for muon transverse momenta p_Tˆ{mu}>1.5 GeV and pseudorapidities -1.6<etaˆ{mu}<2.3, as a function of p_Tˆ{mu}, etaˆ{mu}, Qˆ2 and Bjorken x. The charm and beauty contributions to the proton structure function F_2 were also extracted. The results agree with previous measurements based on independent techniques and are well described by QCD predictions.

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