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First Physics Results from LHCb

Friday 23 July 2010 10:00 (25 minutes)

The LHCb experiment is primarily designed to study charm and bottom hadron decays at the LHC. The first exclusively reconstructed charm and bottom hadrons signals have been observed shortly after the start of the first LHC physics run at √s = 7 TeV, in events collected with a minimum bias trigger. Charm cross-sections for D0, D+, Ds and Lambda_c are measured in the forward region covered by LHCb (2 < eta < 5). We also use the semi-inclusive decay B -> D0 lep nu to ascertain the b anti-b production cross section. Preliminary results will be shown. Also reported are studies of W and Z boson, as well as low mass Drell-Yan production.

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