



Contribution ID: 78

Type: Oral presentation

Combination of D^* Differential Cross-Section Measurements in Deep Inelastic ep Scattering at HERA

Wednesday, 30 April 2014 09:20 (25 minutes)

H1 and ZEUS have recently published differential cross sections for D^* production from their respective final data sets, for photon virtualities $Q^2 > 5 \text{ GeV}^2$. These cross sections are combined at the visible cross section level, taking into account all relevant correlations. This significantly reduces the experimental uncertainties, while theory uncertainties from the combination procedure remain almost negligible. To extend the kinematic range down to $Q^2 > 1.5 \text{ GeV}^2$, double differential cross sections are also combined with a subset of earlier D^* data. NLO QCD predictions are compared to the results.

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Session Classification: WG5: Heavy Flavours

Track Classification: WG5: Heavy Flavours