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Charm production in DIS and the measurement of F2cc at ZEUS

Tuesday, 28 April 2009 16:00 (15 minutes)

Charm production has been measured in the deep inelastic scattering regime with the ZEUS detector at HERA. Charm was reconstructed by identifying charmed mesons (D*, D+, D0) in the final state, or through its decay into muons. Differential cross sections were measured and compared to next-to-leading order QCD predictions. The charm contribution to the proton structure function F2, F2cc, was extracted and compared with theoretical predictions using different parameterisations of the proton PDFs.

Summary

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