XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Measurement of charm production in DIS with D* mesons and extraction of F2cc

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Charm production has been measured with the ZEUS detector in deep inelastic ep scattering at HERA. The measurement is based on the full reconstruction of the decay chain D->D0pis, D0->Kpi and exploits the full HERA II statistics. Differential cross sections have been measured. The kinematic range is 1.5 GeV < pT(D) < 10GeV, |eta(D)| < 1.5, 5 < Q2 < 1000GeV2 and 0.02 < y < 0.7. The observed cross sections is extrapolated to the full pt(D) and $eta(D^*)$ range in order to determine the open-charm contribution, F2cc(x,Q2) to the proton structure function, F2.

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