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Charm production in charged current deep inelastic scattering at HERA

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Charm production in charged current deep inelastic scattering has been measured for the first time in $e^{\pm}p$ collisions, using data collected with the ZEUS detector at HERA, corresponding to an integrated luminosity of 358 pb^{-1}. Results are presented separately for $e^{+}p$ and $e^{-}p$ scattering at a centre-of-mass energy of $\sqrt{s} = 318$ GeV within a kinematic phase-space region of 200 GeV^2 $< Q^2 <$ 60000 GeV^2 and $y < 0.9$, where Q^2 is the squared four-momentum transfer and y is the inelasticity of deep inelastic scattering. The measured cross sections of electroweak charm production, although not statistically significant, are consistent with expectations.

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