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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  $358 \text{ pb}^{-1}$ . Results are presented separately for  $e^+p$  and  $e^-p$  scattering at a centre-of-mass energy of  $\sqrt{s} = 318 \text{ GeV}$  within a kinematic phase-space region of  $200 \text{ GeV}^2 < Q^2 < 60000 \text{ GeV}^2$  and  $y < 0.9$ , where  $Q^2$  is the squared four-momentum transfer and  $y$  is the inelasticity. The measured cross sections of electroweak charm production are consistent with expectations from the Standard Model within the large statistical uncertainties.

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