



Contribution ID: 108

Type: **Parallel Session Talk**

Charm production in charged current deep inelastic scattering at HERA

Wednesday 10 April 2019 16:35 (20 minutes)

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 $\sqrt{s} = 318 \text{ GeV}$ 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 of deep inelastic scattering. The measured cross sections of electroweak charm production, although not statistically significant, are consistent with expectations.

Author: NAM, Jae (Temple University)

Presenter: NAM, Jae (Temple University)

Session Classification: WG1:Structure Functions and Parton Densities

Track Classification: WG1: Structure Functions and Parton Densities