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## High $Q^2$ Neutral Current new results from ZEUS

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The cross sections for neutral current deep inelastic scattering in  $e+p$  collisions with a longitudinally polarised positron beam have been measured using the ZEUS detector at HERA. The single-differential cross-sections  $d\sigma/dQ^2$ ,  $d\sigma/dx$  and  $d\sigma/dy$  and the double-differential cross sections in  $Q^2$  and  $x$  are measured in the kinematic region  $Q^2 > 185 \text{ GeV}^2$  for both positively and negatively polarised electron beams and for each polarisation state separately. The measurements are based on an integrated luminosity of  $136 \text{ pb}^{-1}$  taken in 2006 and 2007 at a centre-of-mass energy of 318 GeV. The structure functions  $xF_3$  and  $xF_3^{\{\gamma Z\}}$  are determined by combining the  $e+p$  results presented in this analysis with previously measured  $e-p$  neutral current data. The measured cross sections are compared to the predictions.

**Session Classification:** TR 6 - RM 217 - QCD, Jets, Parton Distributions

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