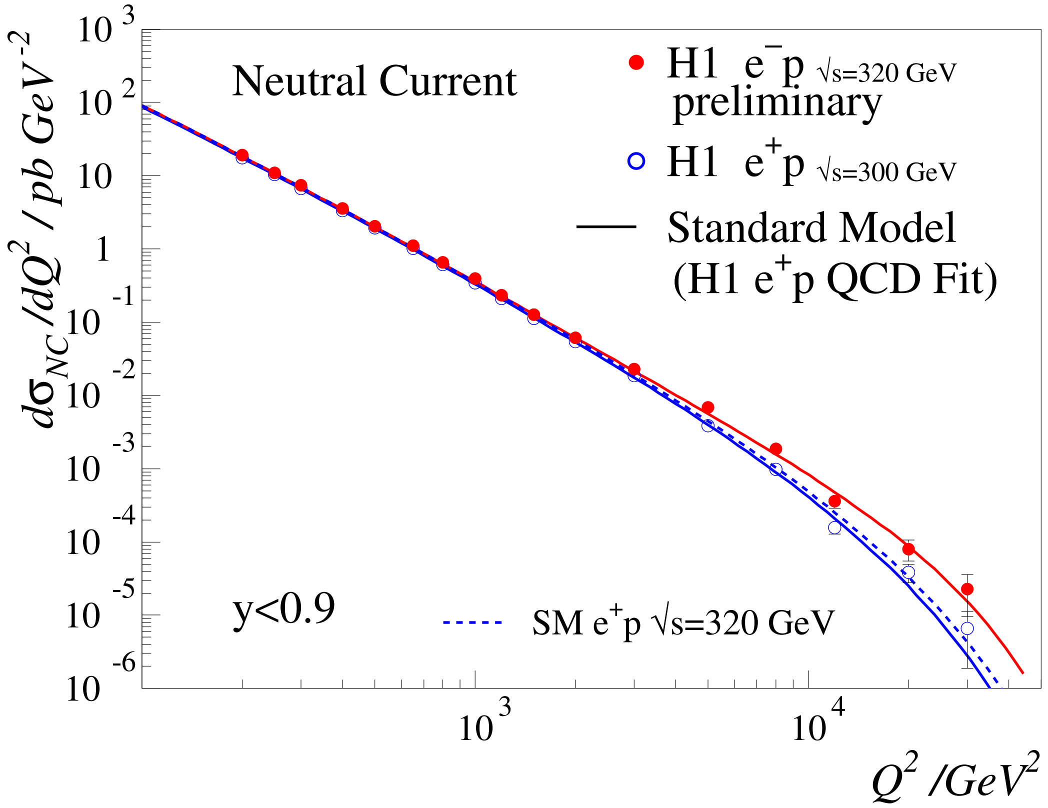
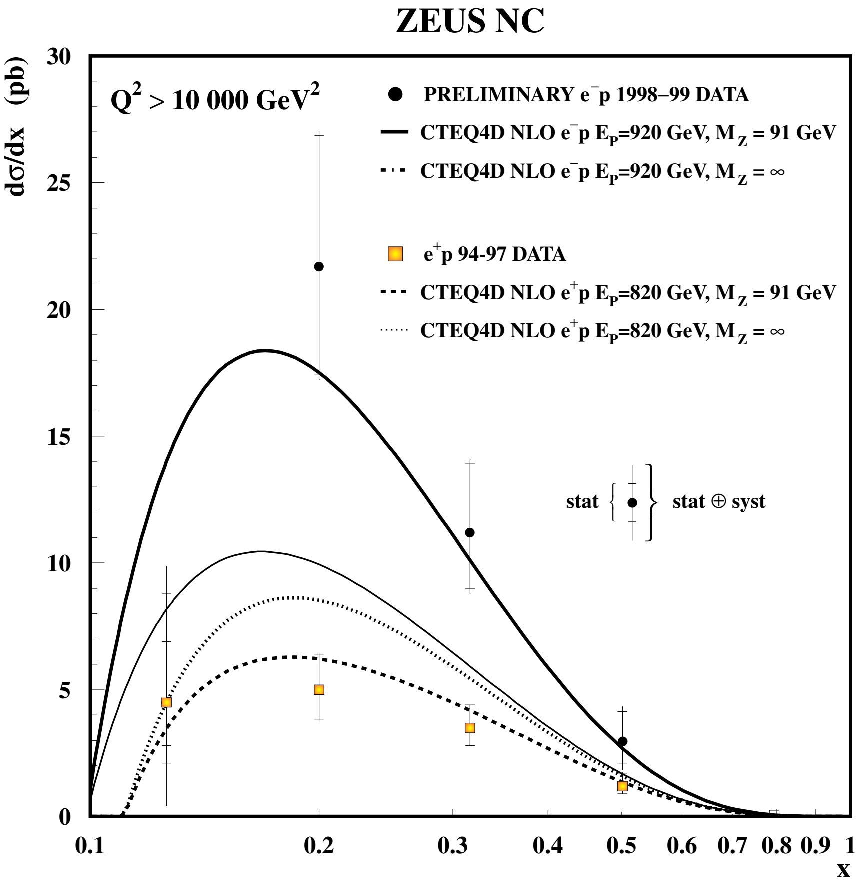
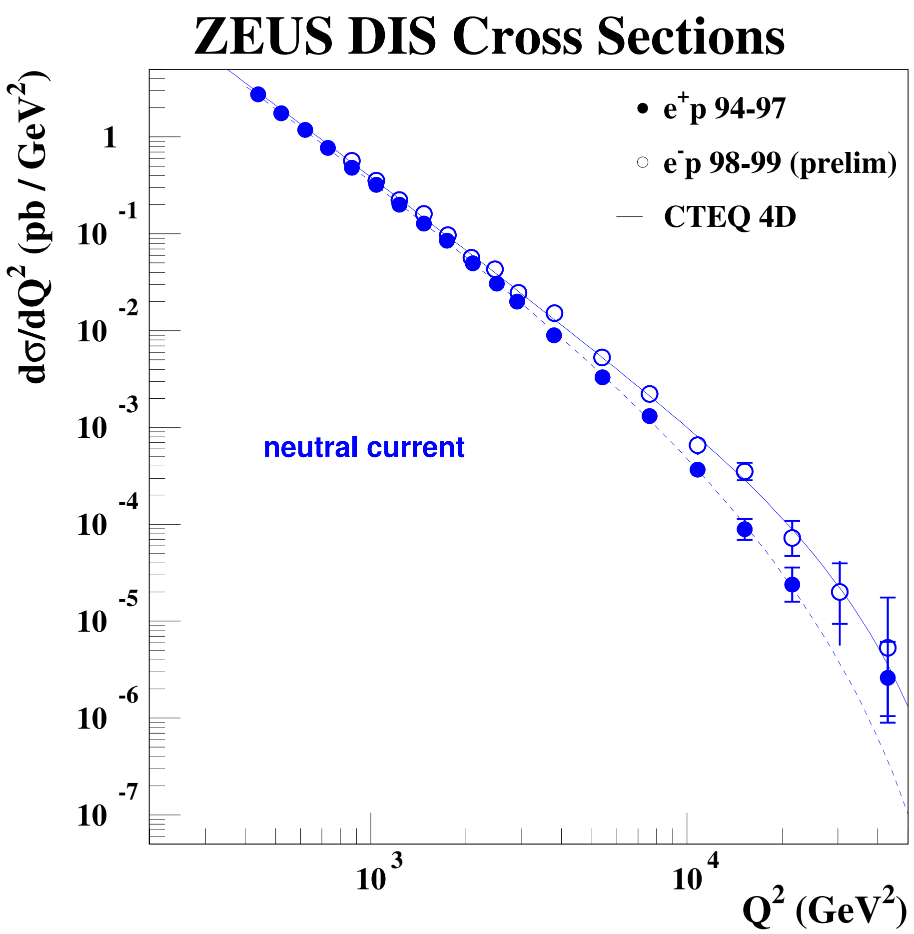
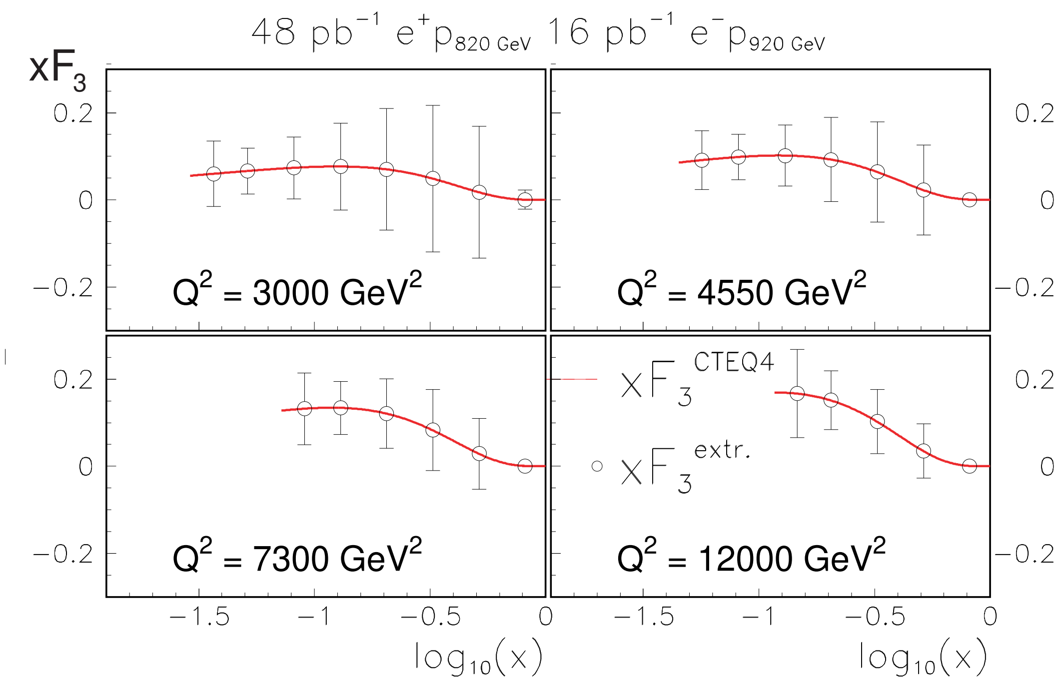
High Q^2 Neutral Current Cross sections





Extraction of x F_3?

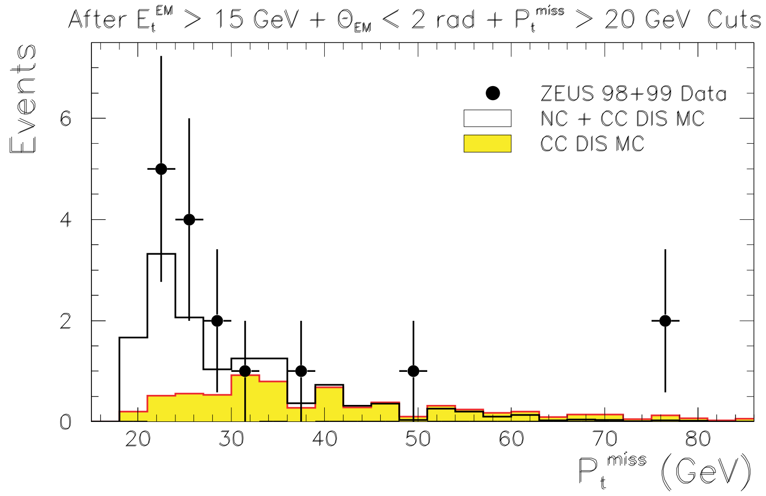


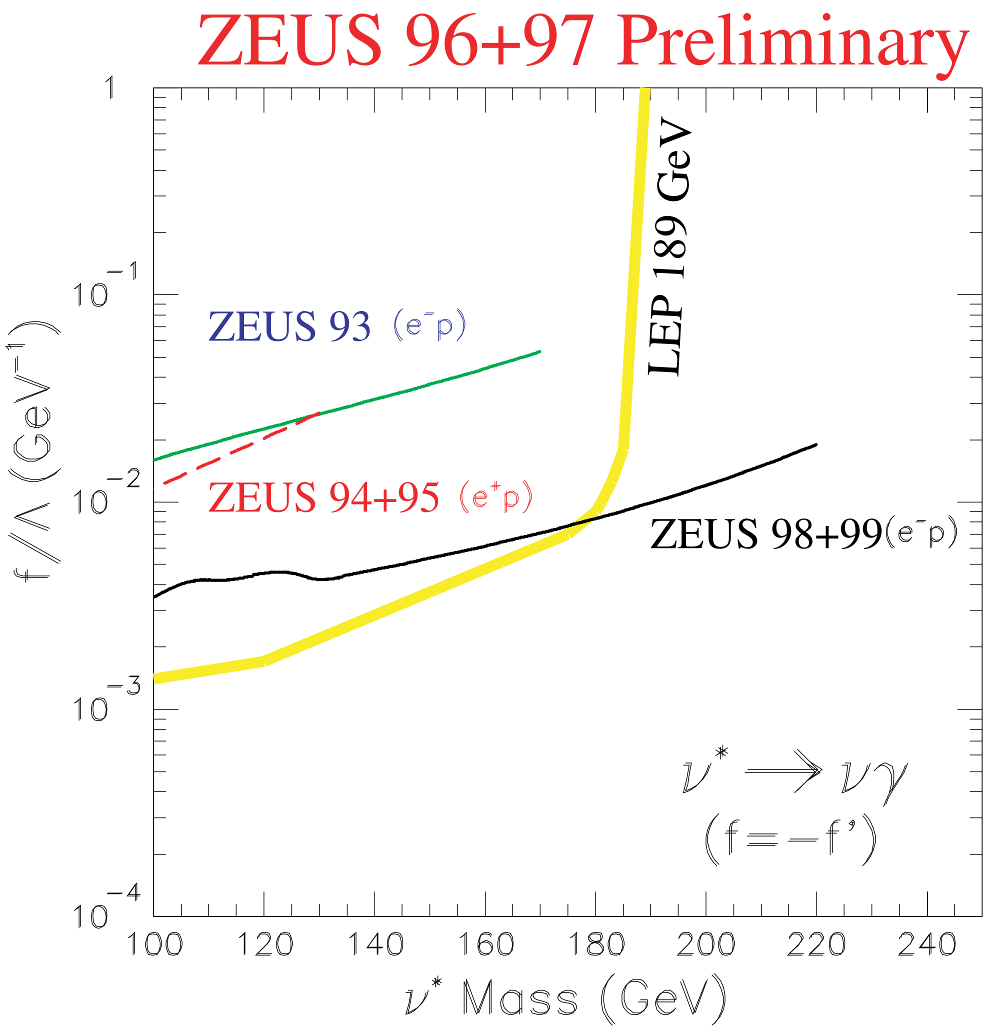


Where does the SM break down?

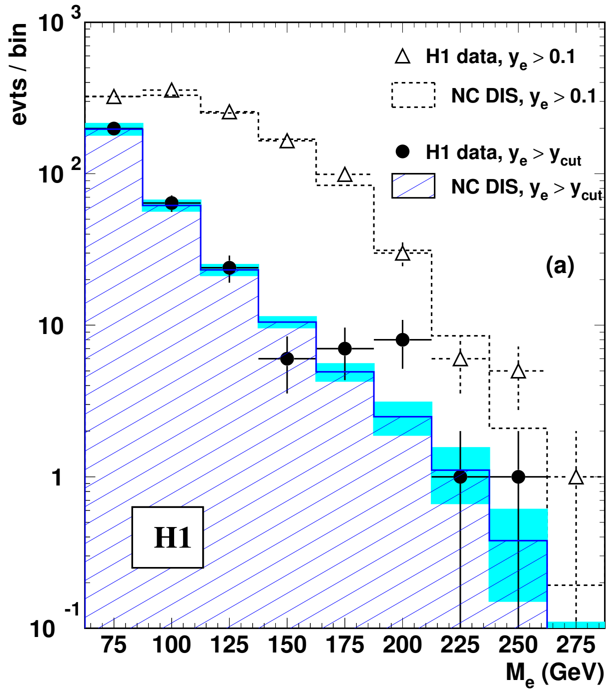
- Excited Fermions
- R-parity Violating SUSY
- Contact Interactions
- Lepton Flavour Violation
- Leptoquarks
- ...

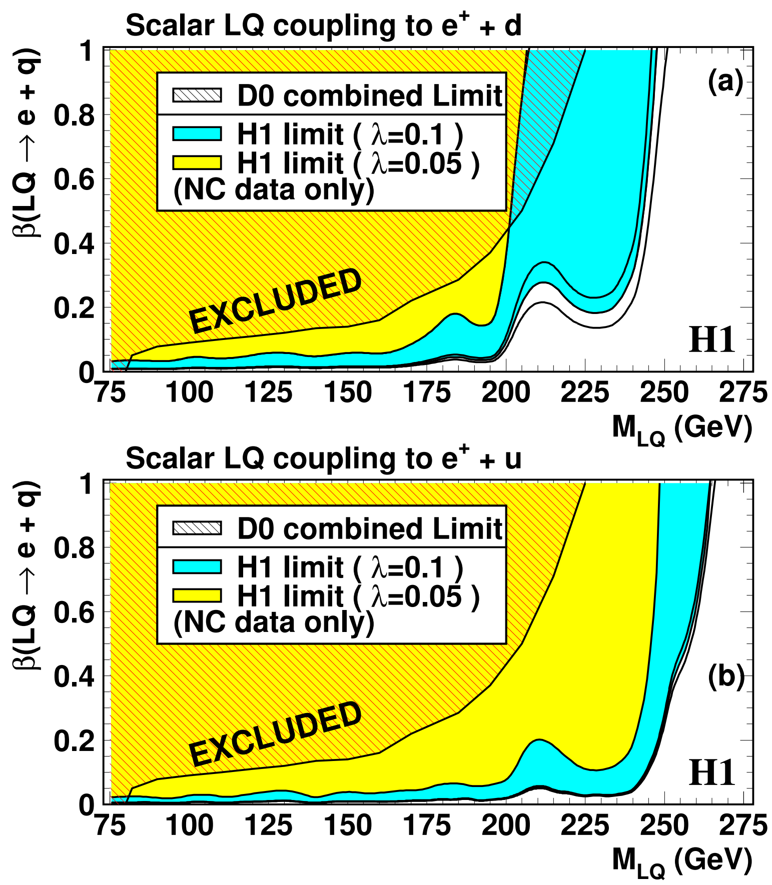
Where does the SM break down?
Excited Fermions



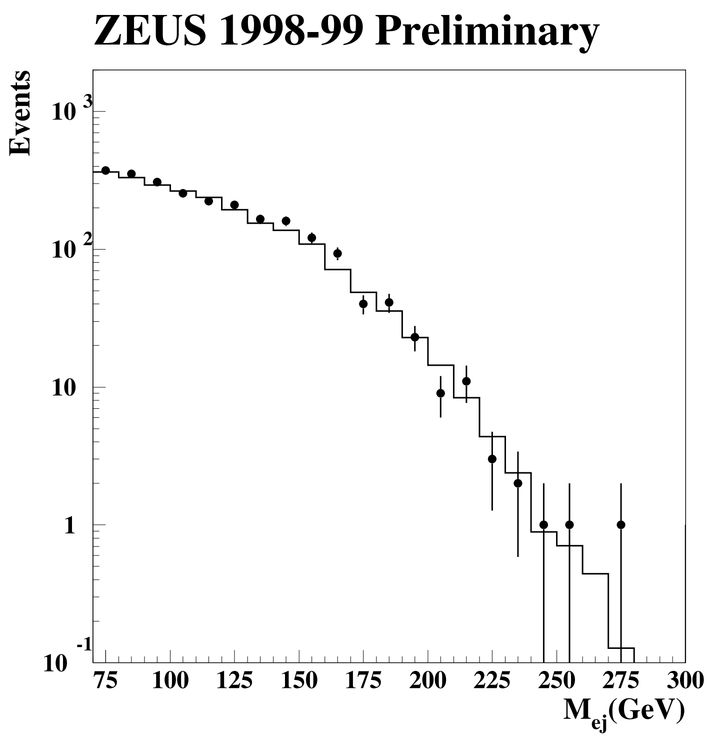


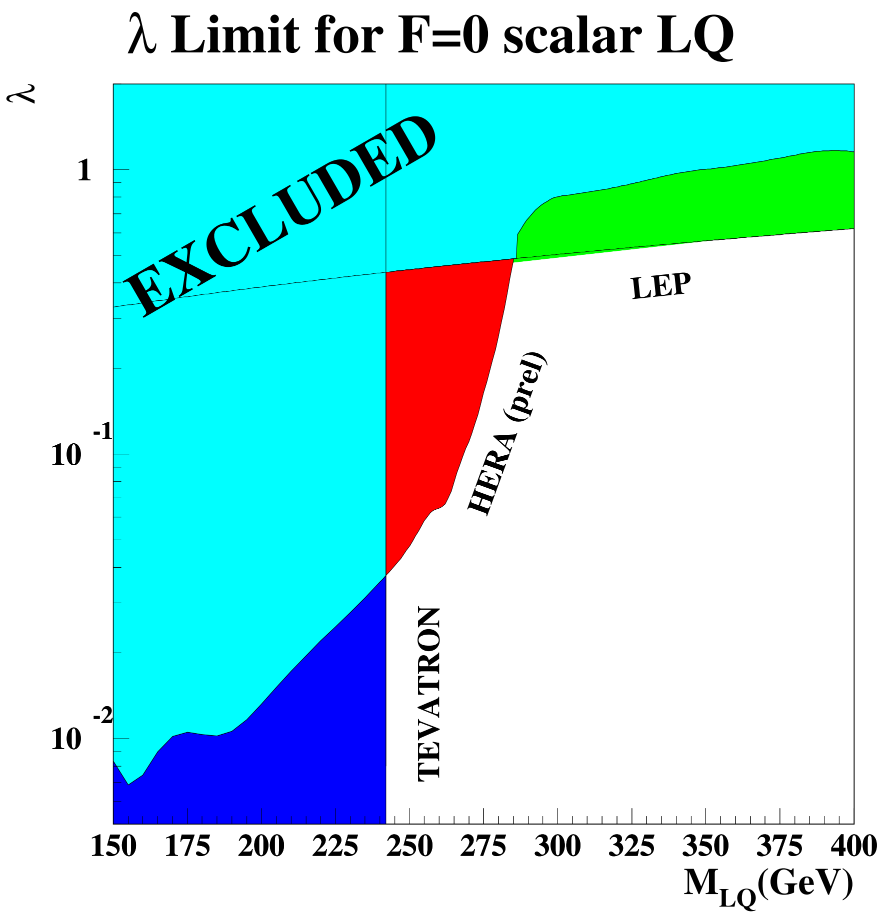
Where does the SM break down?
Leptoquarks



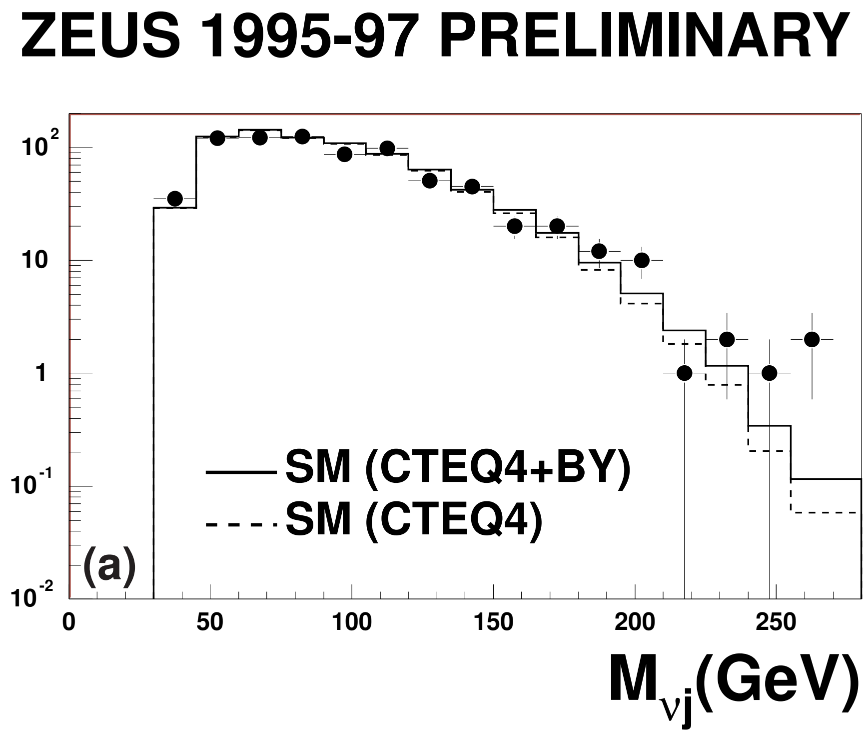


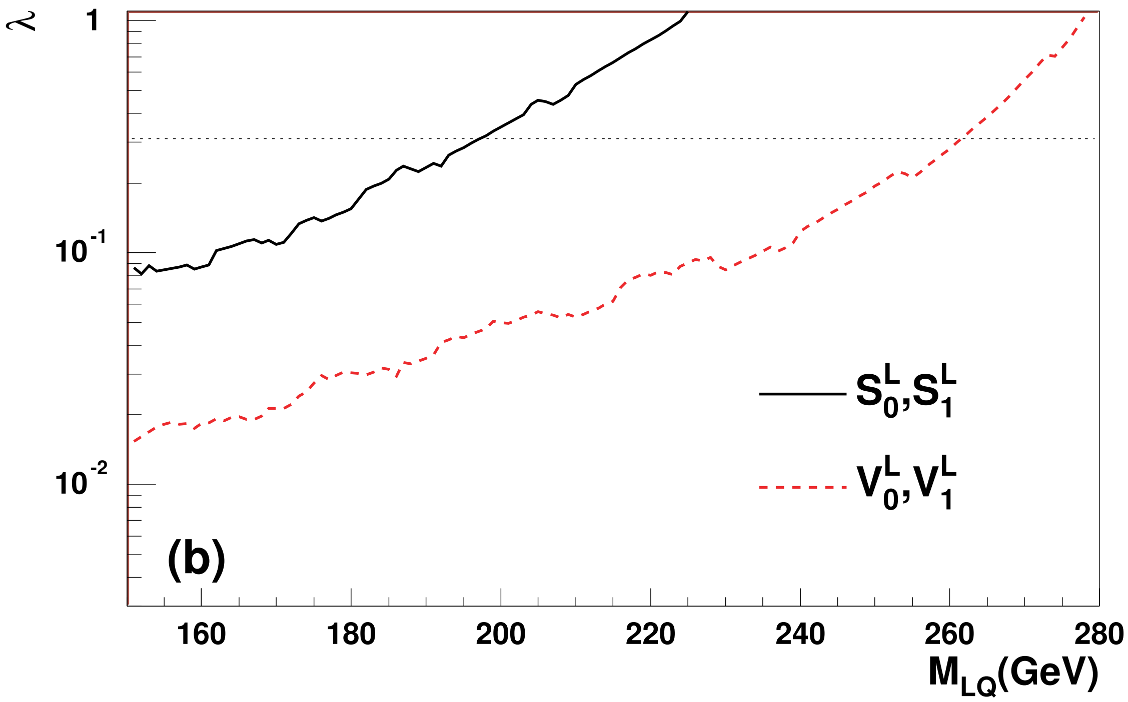
Where does the SM break down? Leptoquarks



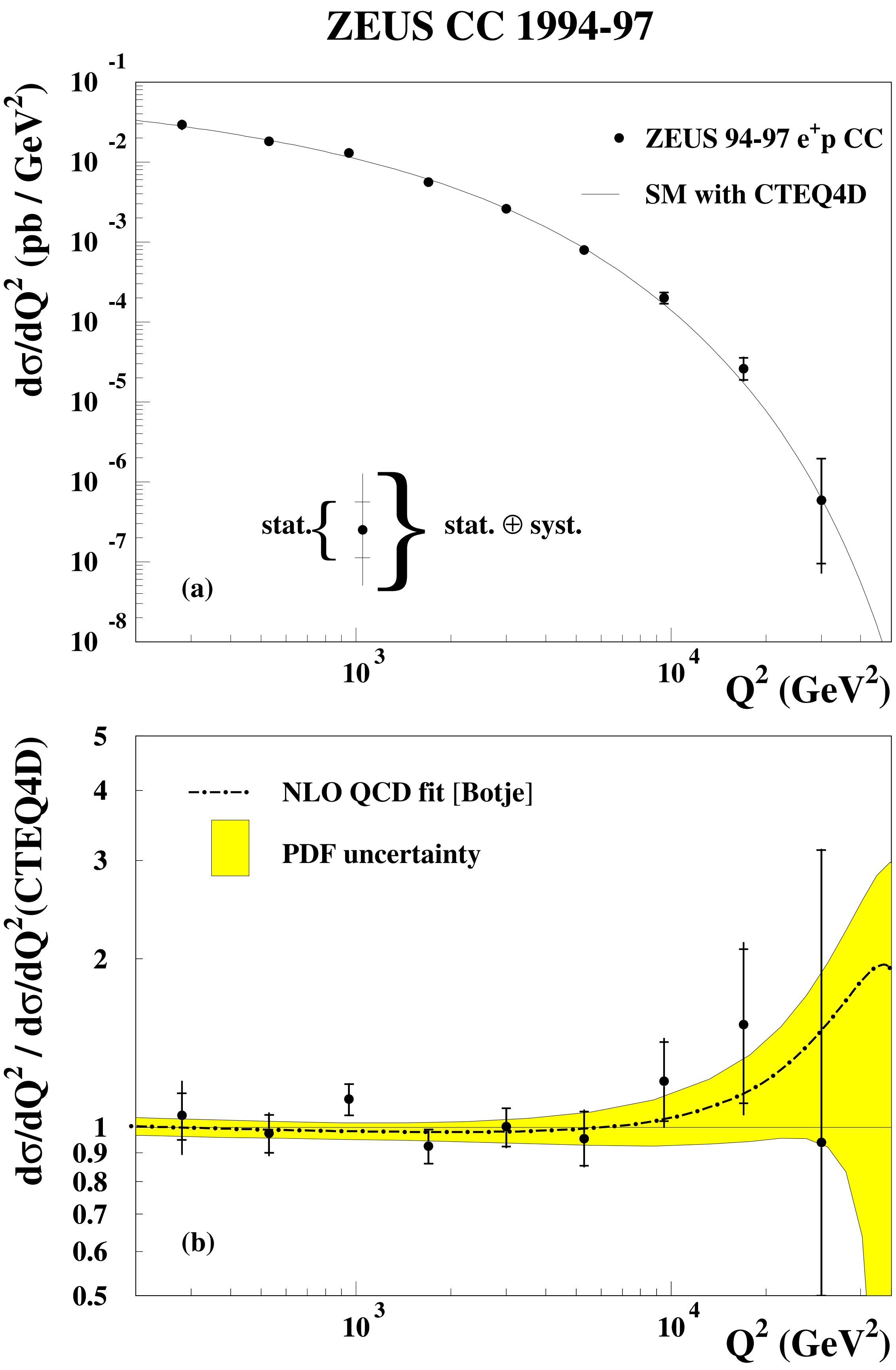


Where does the SM break down?
Leptoquarks: $\nu\ jet$

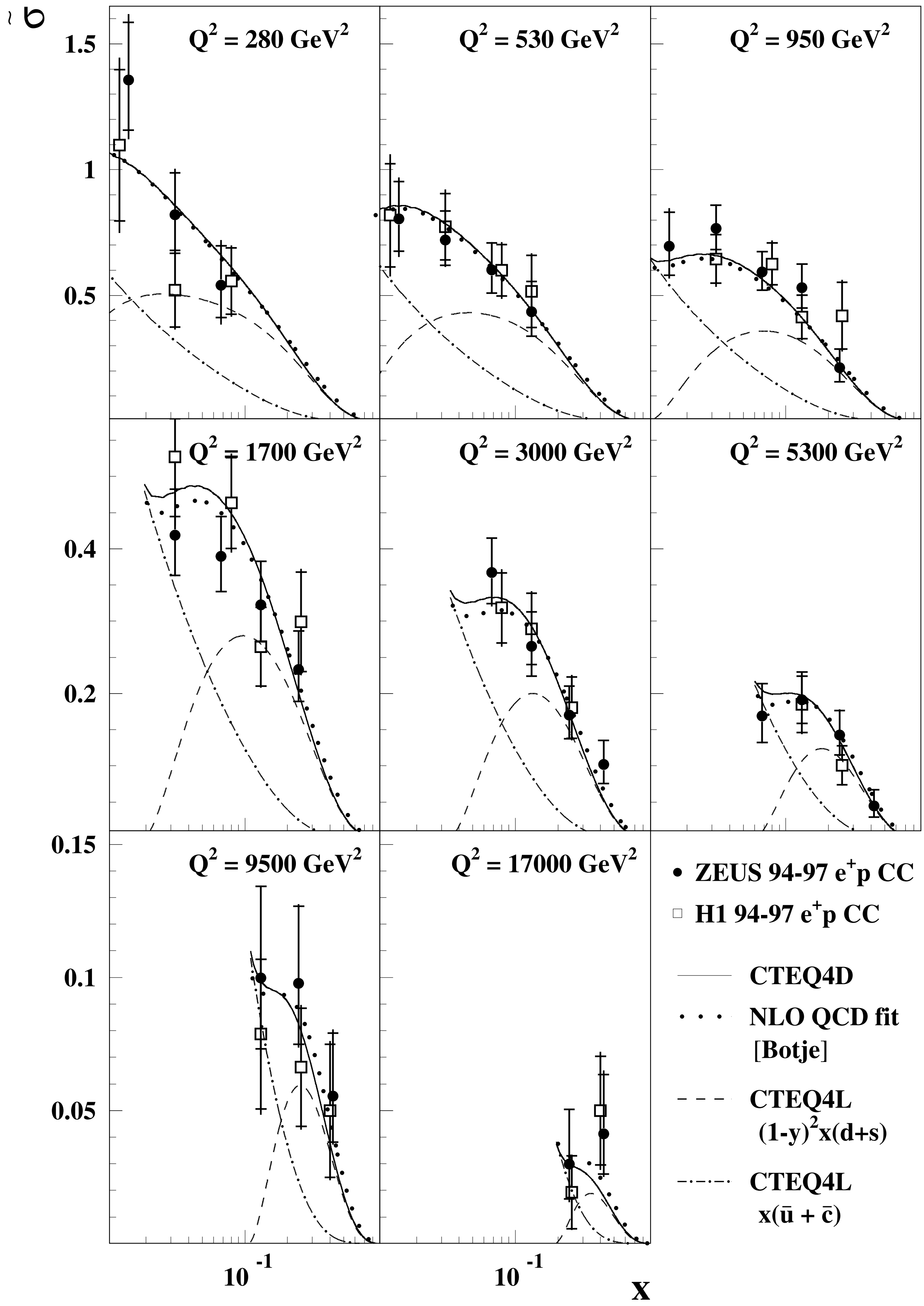




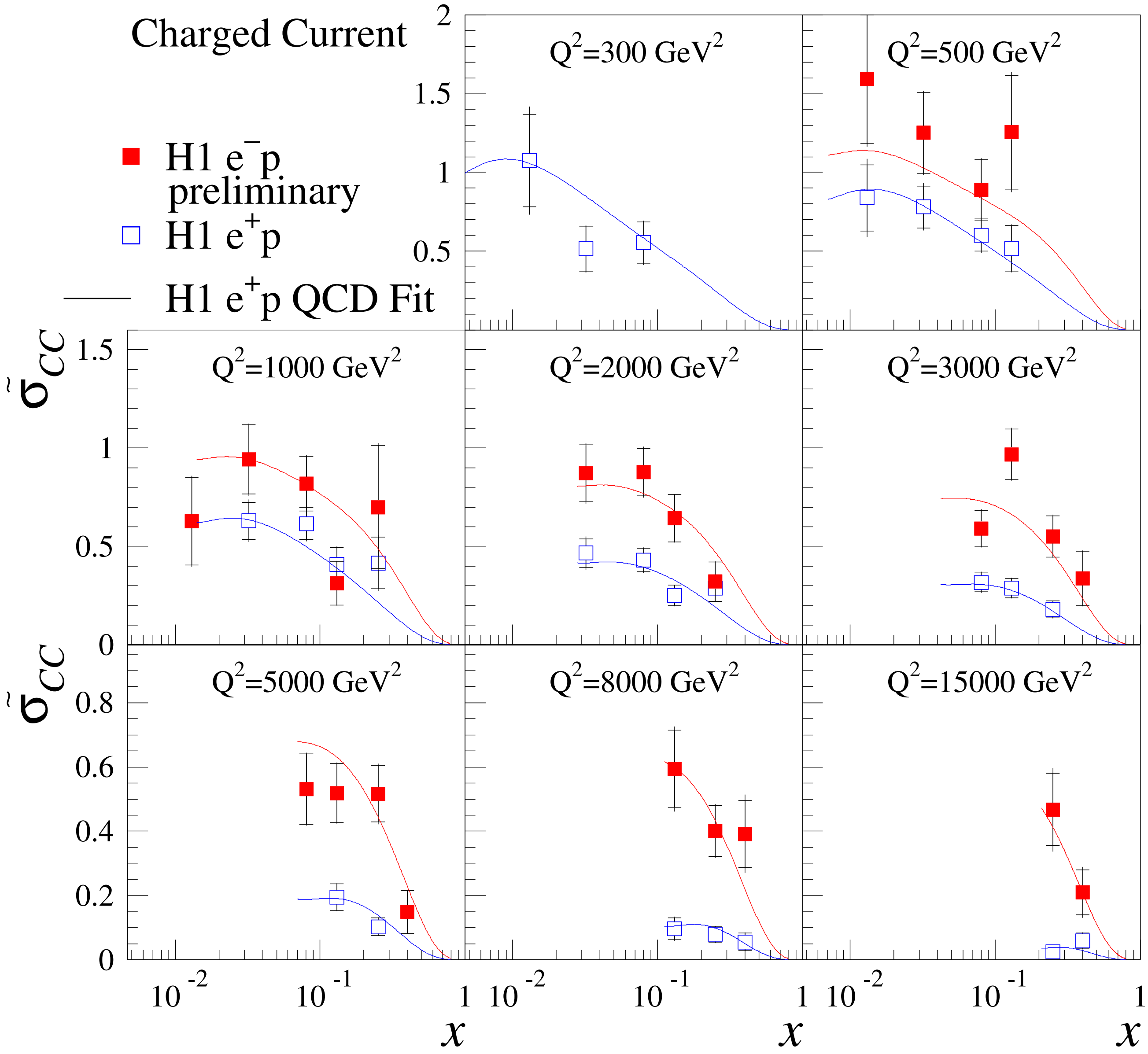
High Q^2 Charged Current Cross sections



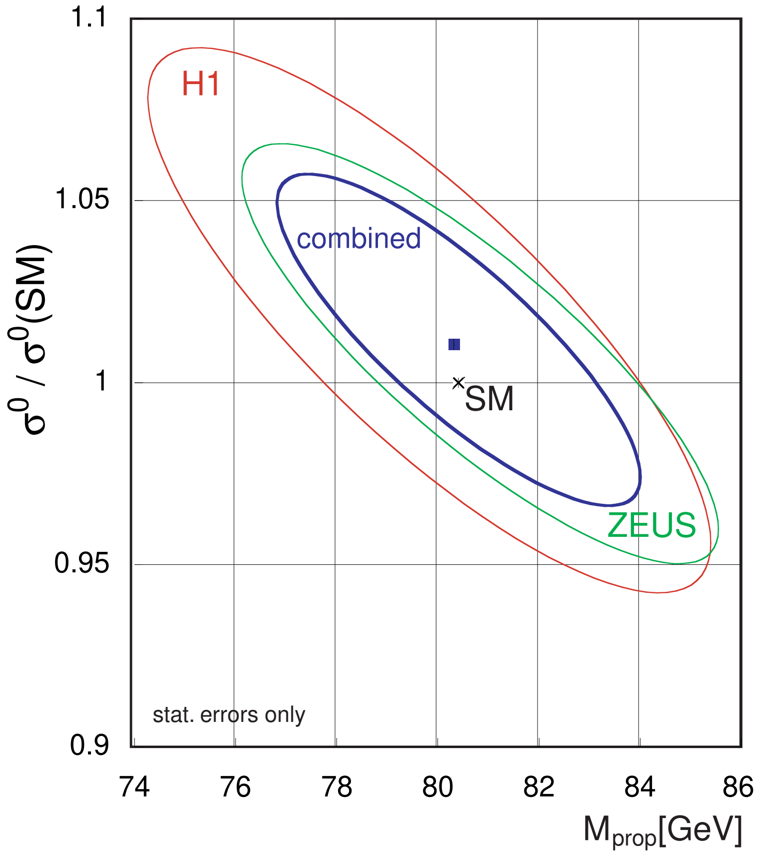
High Q^2 CC Cross sections cont'd

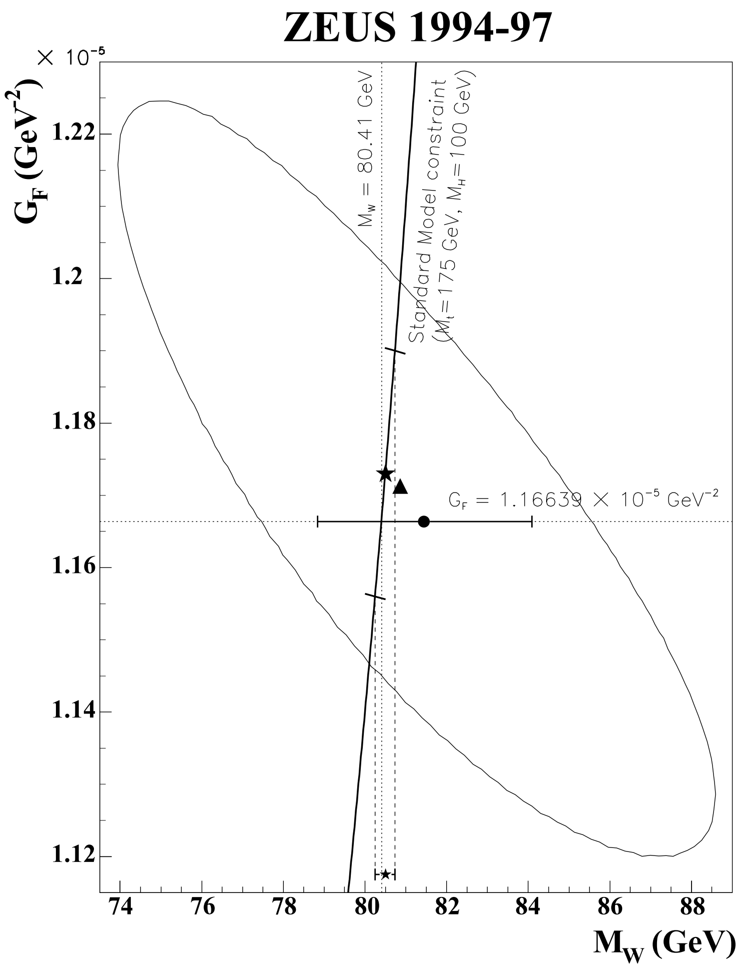


High Q^2 CC Cross sections cont'd

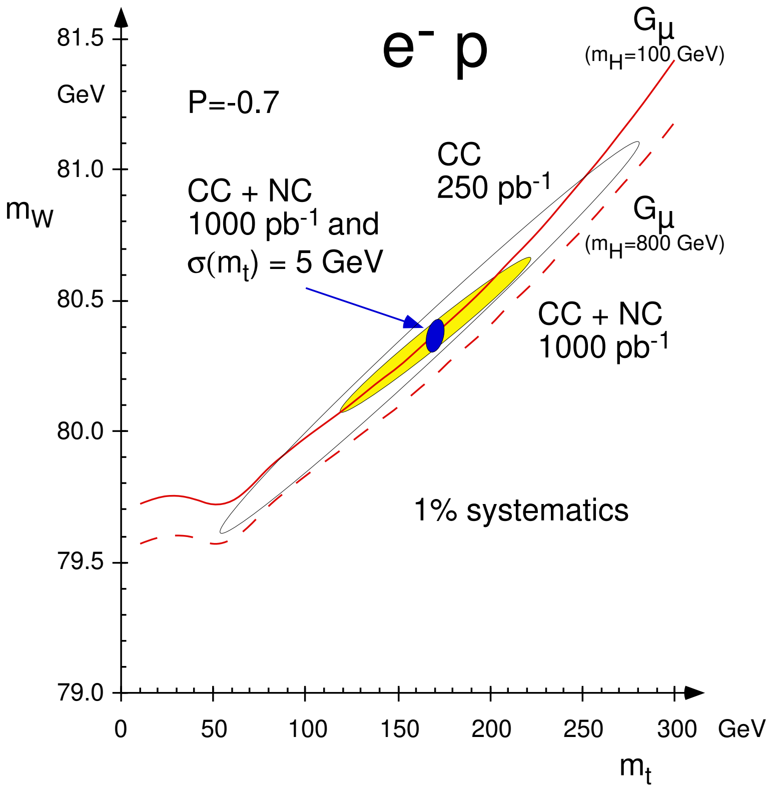


High Q^2 CC Cross sections $\rightarrow M_W$

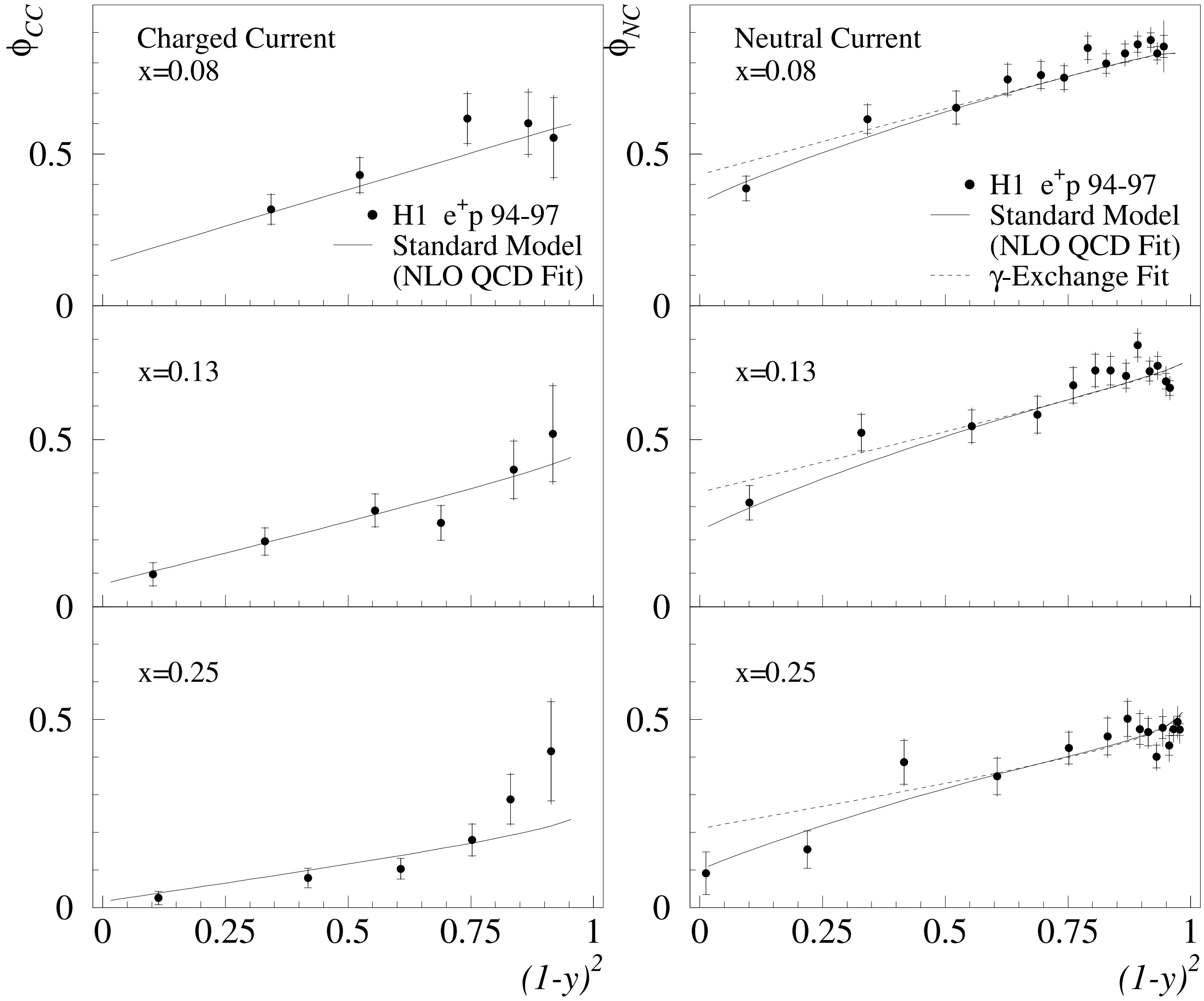




High Q^2 CC Cross sections - post-upgrade



High Q^2 Cross sections: Helicity Structure



Summary and Outlook

- H1 and ZEUS are good working experiments since 1992 and exploit and extend their detector(s) with better and better understanding
- The HERA program is rich: QCD, proton and photon structure, diffraction, electroweak physics...
- HERA physics reveals unique knowledge of the photon and proton structure
- HERA is a good machine to look for the "unexpected"
- HERA's goal is to deliver 1 fb^{-1} with polarized electrons (positrons) starting 2001
- ZEUS and H1 will certainly present exciting physics until 2006