Contribution ID: **1153** Type: **Parallel Session Talk**

Studies of polarized ep collisions and combined EW and QCD fits at HERA

Thursday, 22 July 2010 09:15 (13 minutes)

Using the deep inelastic e+p and e-p neutral and charged current scattering cross sections, including data with polarised electron beams, a combined electroweak and QCD analysis is performed. The inclusive single differential cross section d(sigma)/d(Qˆ2) and the reduced double differential cross section sigma tilde(x,Qˆ2) are presented for the charged current process, e+/- p -> nu X, in interactions with longitudinally polarised lepton beams using the complete HERA-II data set. The inclusive single differential cross section d(sigma)/d(Qˆ2) and the reduced double differential cross section sigma tilde(x,Qˆ2) are presented for the neutral current process, e+/- p -> e+/- X, in interactions with longitudinally polarised lepton beams using the complete HERA-II data set.

Primary author: HERA, HERA (DESY)

Presenter: CHEKELIAN, Vladimir (MPI fuer Physik)

Session Classification: 02 - The Standard Model and Electroweak Symmetry Breaking

Track Classification: 02 - The Standard Model and Electroweak Symmetry Breaking