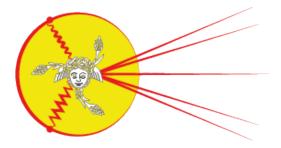
Diffraction 2016



Contribution ID: 152 Type: not specified

QCD and electroweak fits from H1 and from ZEUS

Saturday, 3 September 2016 16:40 (20 minutes)

The H1 and ZEUS collaborations used inclusive deep inelastic scattering cros s sections measured at HERA to probe electroweak parameters of the Standard Model. The cross sections were determined using longitudinally polarised lepton bea ms. A simultaneous fit of parton distribution functions and electroweak para meters to HERA data on DIS is presented. Results on the vector and axial-vec tor couplings of the Z boson to u- and d-type quarks, on the value of the electroweak mixing angle and the masses of the W and Z bosons are presented. The values obtained for the electroweak parameters are in agreement with Standard Model predictions.

Primary author: WICHMANN, Katarzyna (DESY)

Presenter: WICHMANN, Katarzyna (DESY)

Session Classification: Diffraction in ep collisions (II)

Track Classification: Diffraction in e-p collisions (experiment/phenomenology/theory)