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QCD and electroweak fits from H1 and from ZEUS

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The H1 and ZEUS collaborations used inclusive deep inelastic scattering cross sections measured at HERA to probe electroweak parameters of the Standard Model. The cross sections were determined using longitudinally polarised lepton beams. A simultaneous fit of parton distribution functions and electroweak parameters to HERA data on DIS is presented. Results on the vector and axial-vector 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.

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