

XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



Contribution ID: 32

Type: **not specified**

Fit of electroweak parameters in polarized deep-inelastic scattering using data from the H1 experiment

Wednesday, April 13, 2016 3:00 PM (15 minutes)

Using inclusive DIS cross sections measured with the H1 experiment at HERA, electroweak parameters of the Standard Model are probed. The cross sections were determined using longitudinally polarized lepton beams, which enhances the sensitivity to the vector couplings of the light quarks. The quark couplings and the electroweak mixing angle are probed through the γ/Z interference. This gives access to electroweak parameters in t-channel exchange at virtualities up to 10000 GeV².

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Session Classification: WG1/WG3 joint session (EW+PDF)

Track Classification: Electroweak Physics and Beyond the Standard Model