



Contribution ID: 145

Type: **Oral presentation**

## Electroweak and top physics at energy frontier DIS

*Tuesday, 29 April 2014 14:20 (20 minutes)*

The Large Hadron Electron Collider (LHeC) is a proposed facility which will exploit the LHC and FCC proton beams for electron-proton scattering, using either a new 60 GeV electron accelerator or one of the FCC 'ee' beams. This contribution presents the outstanding possibilities for electroweak precision measurements of the light quark weak neutral current couplings and of the electroweak mixing angle, below the Z mass and extending to a few TeV scale with the FCC ep collider, which cannot be probed elsewhere with such a precision. The perspectives for top measurements in DIS will also be presented.

**Primary author:** ARMESTO PEREZ, Nestor (Universidade de Santiago de Compostela (ES))

**Presenter:** SCHWANENBERGER, Christian (University of Manchester (GB))

**Session Classification:** WG7: Future experiments

**Track Classification:** WG7: Future experiments