



Contribution ID: 245

Type: **Parallel Session Talk**

## A detector for the LHeC and the FCC-eh

*Tuesday 9 April 2019 16:15 (20 minutes)*

The Large Hadron-electron Collider (LHeC) is a proposed upgrade of the LHC at CERN. An ERL will provide electrons to collide with the HL-LHC, HE-LHC and the FCC-hh proton and ion beams to achieve per nucleon centre-of-mass energies 1.3-3.5 (0.8-2.2) TeV and luminosities  $\sim 10^{34(33)} \text{ cm}^{-2} \text{ s}^{-1}$ . Such a machine offers the opportunity to build a state-of-the-art HEP detector to be operative in the 2030s. The present design of the detectors for the three configurations will be discussed.

**Presenter:** NEWMAN, Paul Richard (University of Birmingham (GB))

**Session Classification:** WG7: Future of DIS

**Track Classification:** WG7: Future of DIS