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## BSM physics at the LHeC and the FCC-eh

*Thursday 11 April 2019 09:20 (25 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 beams to achieve centre-of-mass energies 1.3-3.5 TeV and luminosities  $\sim 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$ . These large luminosities provide most interesting possibilities for BSM studies. In this talk we present the latest results on the determination of anomalous couplings involving top, Higgs and W,Z bosons in high-energy DIS at the LHeC and the FCC-eh, on studies on sterile neutrinos and other new physics models. We also show the complementarity with the corresponding studies at the HL-LHC.

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**Session Classification:** Joint WG3+WG7: Higgs and BSM + Future of DIS

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