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Top, EW and BSM physics at the LHeC and FCC-he (15' + 5')

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Energy-frontier deep inelastic scattering at 1000 times higher luminosity than HERA is considered with the LHeC and further the FCC-he. These collider configurations provide unique possibilities for SM and BSM top physics, for novel electroweak precision measurements and for further BSM investigations such as for lepto-partons at the FCC-he. The high precision PDF and α_s information from the LHeC will have a direct impact on the BSM search potential and interpretation of new physics at the LHC.

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