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BSM physics at energy-frontier lepton-hadron colliders

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The Large Hadron-electron Collider LHeC and the Future Circular Collider in electron-hadron mode FCC-eh will provide electron-proton collisions with center-of-mass energies in the range 1.3-3.5 TeV and instantaneous luminosities larger than $10^{34} \text{ cm}^{-2} \text{ s}^{-1}$. An overview is given and new results are presented on a variety of possible discovery channels such as exotic Higgs, RPV SUSY, sterile and right-handed neutrinos, and others. We also comment on the impact of the reduced uncertainties in proton parton densities and α_s that can be achieved through ep for searches for new physics at the HL-LHC (pp).

Experimental Collaboration

LHeC Study Group

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