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New Physics with the LHeC

The Large Hadron Electron Collider (LHeC) is a proposed facility which will exploit the new world of energy and intensity offered by the LHC through collisions with a new 60 GeV electron beam. The LHeC has an important potential for the search for new physics, as for RPV SUSY or substructure, and to accompany possible findings of new particles or phenomena at the LHC, such as SUSY or the onset of extra dimensions. Studies and an overview are presented, including analyses of the importance of precision measurements of parton dynamics for the understanding of multi-TeV physics phenomena.

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