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The LHeC project and detector

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The Large Hadron Electron Collider is the proposal of an upgrade of the LHC to study ep/eA collisions with a centre-of-mass energy in the TeV regime using an about 60 GeV electron beam. In the future, the lepton beams could be combined with the HE-LHC or FCC hadron beams, to study DIS at even higher energies. In this talk we will present an update of the status of the project, with emphasis on the accelerator development, the design of a demonstrator for the high-current multi-pass energy recovery concept and an overview on further developments towards an update of the 2012 LHeC Conceptual Design Report in the coming years.

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