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Large Hadron electron Collider Accelerator Design Concepts

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An overview is presented on the design concepts for a high luminosity electron-nucleon collider (LHeC) of 1.3 TeV centre of mass energy, which can be realized with the addition of a 60 GeV electron ring or linear accelerator to the existing proton and ion LHC beam facility. The LHeC design comprises machine magnets, optics, interaction region, cryogenics, RF, civil engineering and further components of the LHeC. The contribution is a summary of the LHeC design concept report currently being discussed with an international review panel and due for release in 2011.

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