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Future QCD Measurements at High Energy with the LHeC

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The Large Hadron electron Collider (LHeC) is a proposed facility which will exploit the new world of energy and intensity oered by the LHC through collisions with a new 60 GeV electron beam. Designed for synchronous operation with the other LHC experiments, the LHeC will be a high luminosity ep and eA collider with a wide ranging physics program on high precision deep inelastic scattering and new physics. Electron proton scattering is also considered as an option for of the Future Circular Collider (FCC-he). Highlights from the ep and eA physics program will be illustrated along with details on the status of the activities from accelerator, and detector design and a possible roadmap.

Summary

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