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The Large Hadron-Electron Collider (LHeC) Development

The LHeC is the prime candidate for future electron-hadron (proton and ion) collisions at the energy frontier. This talk presents recent developments on its design as both a most precise QCD machine and a high-luminosity Higgs and BSM physics facility, including new results on beam-beam and interaction region studies, on the detector design and a brief overview of its physics program. The LHeC is based on an energy recovery linac (ERL) which is planned to be developed through a high current, multi-turn ERL test facility (PERLE) at LAL Orsay, and which also serves as the default baseline for the Future Circular Collider in electron-hadron mode, the FCC-eh, which will be described too.

Experimental Collaboration

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