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Energy recovery linacs: from PERLE to the LHeC

The development of Energy Recovery Linacs is one of the objectives of the ECFA Accelerator R&D Roadmap established in the 2021 European Strategy for Particle Physics. In this talk we present the development of ERLs with a focus on their application to high-energy accelerators. We discuss the present status and technical challenges of ERL, from PERLE at IJCLab, Orsay, to the proposal of the LHeC as a project to bridge the HL-LHC to the next flagship at CERN, for which the successful demonstration of high-current multi-turn ERL at PERLE is an essential milestone.

Secondary track

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