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PERLE: The development of a multi-turn, high current ERL

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The realisation of the LHeC and the FCC-he at CERN require the development of the energy recovering technique in multipass mode and for large current $\mathcal{O}(10)$ mA in the SRF cavities. For this purpose, a technology development facility, PERLE, is under design to be built at IJCLab Orsay, which has the key LHeC ERL parameters in terms of configuration, source, current, frequency and technical solutions, cryomodule, stacked magnets. In this talk we review the design and comment on the status of PERLE.

In-person participation

Yes

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