

PERLE: an ERL Facility at Orsay

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The realisation of the top energy electron-hadron colliders at CERN requires the development of the energy recovering technique in multipass mode and for large currents $\mathcal{O}(10)$ mA in the SRF cavities. For this purpose, a technology development facility, PERLE, is under design to be built at ICLab Orsay, for which a Technical Design Report will be presented this year. Besides having the key LHeC/FCC-eh ERL parameters in terms of configuration, source, current, frequency and technical solutions, cryomodule and stacked magnets, this facility may be used for magnet and detector testing, and comprises an interesting low energy physics program. In this talk we review the design and comment on the status of PERLE.

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Primary author: HOUNSELL, Ben

Presenter: HOUNSELL, Ben

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