

Séminaire LAL

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vendredi 16 juin 2017 à 15h00

ATTENTION : heure inhabituelle !

Challenges and Opportunities of Energy Recovering Linacs

The use of energy recovery provides a powerful paradigm for generation of electron beams used in synchrotron radiation sources, high-energy electron cooling devices, electron-ion colliders, and other applications in photon science and nuclear and high-energy physics. Energy Recovering Linacs, or ERLs, share many characteristics with ordinary linacs, as their six-dimensional beam phase space is largely determined by electron source properties. However, in common with classic storage rings, ERLs possess a high average-current-carrying capability enabled by the energy recovery process, and thus promise similar efficiencies. We discuss the concept of energy recovery and its technical challenges along with an outlook for future ERL applications, such as: the LHeC and recently proposed PERLE test facility at Orsay. We present an overview of envisioned ERL applications and a path to achieving their ultimate performance.

Auditorium Pierre Lehmann - Bât. 200, Orsay

Thé et café seront servis 15 mn avant le séminaire
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