

The Beams and Applications Seminar Series

Energy Recovery Linac Project at CORNELL

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Friday, Dec. 19, 1:30 PM
Bldg. 401, Room B2100

Host: Stephen Milton

Energy Recovery Linacs (ERL) pose great potential to deliver 'linac quality' beams but with a high average current comparable to that of storage rings. Cornell University is carefully looking into a possibility of building an ERL based X-ray source that will provide a smaller emittance & shorter pulses than those available from the rings, with a potential of being a better CW X-ray source. There are many technological challenges that must be adequately addressed before such a facility can be realized, in particular, those pertaining to high-average current, high-brightness injectors and superconducting RF technology. I will identify these challenges and summarize R&D activities at Cornell to address them.

For more information visit

<http://www.aps.anl.gov/asd/physics/seminar.html>

Visitors from off-site please contact Yuelin Li
(ylli@aps.anl.gov, 630-252-7863) to arrange for a gate pass.

This ANL seminar series is a CARA activity and focuses on the physics, technology and applications of particle and photon beams. It is sponsored jointly by the ASD Division, the AWA group of the HEP Division, and the ATLAS group of the PHY Division.