

The Beams and Applications Seminar Series

Coherent T-ray generation in electron storage rings

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LBNL

Wednesday, Oct 29, 11:00 AM
Bldg. 401, Room B2100

Host: Katherine Harkay

Coherent synchrotron radiation (CSR) has the potential of generating huge increase in emitted power over present performance from electron beams. I will describe a scheme to generate CSR at terahertz frequencies (T-rays) in an electron storage ring. This scheme involves an understanding of the interaction of the beam with its own radiation. I will compare this model with recent experimental observations and describe how an optimized source of such radiation could be built.

For more information visit

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

Visitors from off-site please contact John Power
(jp@anl.gov, 630-252-3191) 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.