

Colloquium

Sponsored by the Accelerator Division

“Emittance Oscillations and Thermalization
in High-Brightness Induction Linacs”

Dr. Bruce Carlsten

Los Alamos National Laboratory

Although high-brightness electron induction linacs and high brightness electron rf linacs appear to be in very different regimes, the emittance evolution for both types of machines is based on the same beam physics. Emittance oscillations form because of coherent transverse plasma oscillations, which allow phase space tailoring. Final, entropic emittance, is dominated by electrons which have mixed due to wave breaking. These effects will be described in detail for high-brightness induction linacs.

Monday, January 7, 2002

2:00 p.m.

CEBAF Center Auditorium

Coffee & Cookies before the seminar
starting at **1:30 p.m.**



For further information contact: Lia Merminga, 6281