

ACCELERATOR SEMINAR

“Real Beam Optics from a ‘Synthetic’ Beam”

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Standard closed-orbit techniques for Twiss parameter measurement are not applicable to the open-ended Continuous Electron Beam Accelerator Facility (CEBAF) at Jefferson Lab. The evolution of selected sets of real orbits in the accelerator models the behavior of a "synthetic" beam. This process will be validated against beam profile-based Twiss parameter measurements and should provide the distributed optical information needed to optimize beamline tuning for an open-ended system. This talk will discuss the current and future states of this technique, as well as an example of its use in the CEBAF machine.

Tuesday, May 10, 2011

2:00 p.m.

CEBAF Center, Room F113

Coffee before seminar at 1:45 p.m.