

ACCELERATOR SEMINAR

“Multi-bunch Tracking in Recirculating Machines”

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RPL (Recirculating Placet) is a tracking code designed to handle multi-bunch effects in recirculating lattices. It allows to describe the topology of a machine, which presents beamline splits and joins, and to track many bunches preserving their time sequence at each element according to their paths. Under these conditions, the computation of multi-bunch effects, such as long range wakefields, becomes possible and their impact on the beam stability can be estimated. After an introduction to the main concepts in RPL, this seminar will focus on the physics of long range wakefields in the presence of recirculation, illustrated by simulations and observations at LHeC and CCTF3.

Friday, February 6, 2015

11:00 a.m.

ARC, Room 231/233

Coffee before seminar beginning at 10:45 a.m.