

John Adams Institute for Accelerator Science Lecture Series

Thursday 21st March 2013 at 4:15pm
Fisher Room, Denys Wilkinson Building

Crab-waist collisions. From lepton to hadron colliders.

The lecture will be delivered by

**Jose Abelleira Fernandez,
EPFL (Lausanne) / CERN**

Abstract: Crab waist is a collision scheme to increase the luminosity which had been developed for lepton storage-ring colliders, in particular SuperB, and which has been successfully applied at DAFNE. An implementation in hadron colliders like the LHC, with naturally round beams and equal charge per beam, is more challenging. In this talk I will present a new interaction-region for the HL-LHC which combines a local chromatic correction, large Piwinski angle, flat beams and crab waists.

