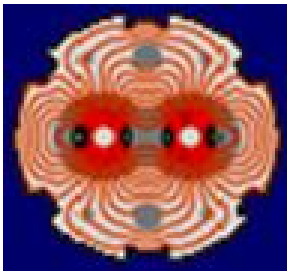

Contribution ID: **40** Type: **not specified**

LHC aperture and commissioning of the collimation system

Thursday 20 January 2005 16:15 (20 minutes)

The LHC aperture for the perfect machine and its dependence on various optics imperfections are discussed. The optics tolerances required to meet the desired performance of the LHC collimation system are given. These studies are based on the results of tracking simulations of the beam halo and on a detailed aperture model of the full LHC ring, with spatial resolution of 10 cm over the total length of 27 km.
Experimental results from the collimator tests with beam at the SPS are reviewed and specific issues related to the commissioning of the LHC collimation system are discussed.

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Session Classification: Session 8 - Machine Protection Issues affecting Beam Commissioning

Track Classification: Machine Protection Issues affecting Beam Commissioning