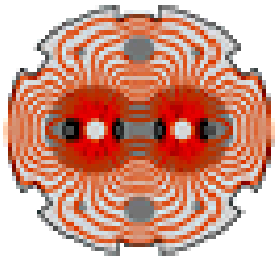

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Beam losses versus BLM locations at the LHC

Tuesday 12 April 2005 14:00 (20 minutes)

Beam losses along the 27 km long LHC ring can now be predicted with longitudinal accuracy of 10 centimetres. Simulations are based on a multi-turn tracking of secondary and tertiary halo particles, as produced in the collimation insertions, and on a detailed model of the LHC aperture. The expected losses at the LHC in various operational conditions are compared with the proposed locations for the beam loss monitors (BLM's), which shall detect abnormal losses to damp the beam before sensitive equipment is damaged. The goal of this study is to assess the validity of the proposed BLM locations and to identify other sensitive locations for optimizing the performance of the BLM system.

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Session Classification: Equipment and beam monitoring - connected to the beam interlocks

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