

## Strategy for luminosity optimisation

*Thursday 9 December 2010 09:40 (20 minutes)*

Integrated luminosity is a key parameter for the performance of a particle collider and depends both on beam parameters and operational efficiency. The experimental detectors are turned on and start acquiring useful data only when the machine is declared as stable, it is therefore important to minimize the duration of the activities from the collapsing of the separation bumps until STABLE BEAM is declared. After a review of the current procedure and tools used to bring beams into collision and optimize luminosity, observations and lessons learnt during the 2010 proton run will be presented. The reproducibility and implication of the current procedure regarding machine protection and operation efficiency will be discussed based on this first experience.

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