

Breaching the Phase I optics limitations for the HL-LHC

Thursday 27 January 2011 17:30 (25 minutes)

Performance goal of the HL-LHC (5E34 for the “running” luminosity and 10E34 “potentially available” to reach it).

New optics concepts for the HL-LHC (short reminder of the Phase I optics limitations, description of the new scheme, potential in terms of beta *and* beta aspect ratio and weak points).

Following this specific path, what is still missing and the most likely additional ingredients needed to reach the goal and build margins? What can be tested now in the machine?

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