

## Collimation and MP Roadmap

*Wednesday, September 24, 2014 6:00 PM (20 minutes)*

The upgrade of the LHC collimation system represent is part of the HL-LHC baseline and represent an important element for the LHC upgrade. Depending of the performance limitations, we are preparing for a possible staged implementation starting already in the LHC long shutdown 2. In this paper, the main upgrade studies included in the HL baseline are presented. Additional studies for advanced collimation concepts are also introduced. The time line for collimation upgrade, synchronized with the LHC long shutdown planning, is discussed. Relevant machine protection aspects, including injection protection device upgrades in the LHC ring, are also discussed.

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