

## **Collimation System post-LS1**

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The LHC collimation system has undergone an important upgrade during LS1. A total of 33 collimator installations are taking place to consolidate and improve the Run 1 system. This includes 18 new collimators with embedded beam positions monitors (BPMs), additional physics debris collimators, additional passive absorbers and the re-installation or displacement of existing collimators. This talk summarizes the post-LS1 collimation layout, enlightening the expected gains of each modification, and the readiness of the new collimation hardware for commissioning without and with beam. Special emphasis is devoted to the new software for the control and configuration of the BPM collimators. A proposal for the necessary beam conditions during collimation alignment and validation with loss maps at 7 TeV is also discussed, including a strategy for the machine protection aspects. A list of early machine development studies is proposed that will allow to test the new software and to exploit the new functionality of the collimators with BPMs.