

Title: Performance of the Collimation System during 2015

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During the long shutdown, 33 collimators were replaced or installed to improve the Run 1 system, including 18 new collimators with embedded beam position monitors, additional physics debris collimators, additional passive absorbers and the re-installation or displacement of existing collimators. The commissioning experience as well as the performance of the collimation system in 2015 is reviewed following these upgrades. In particular, the operational experience with the embedded BPM collimators is discussed, emphasizing the improvements on alignment efficiency and the strategy for better orbit monitoring. Improvements of collimation setting validation through an optimized loss map strategy are also presented. The relevant collimation MDs in 2015 are also reviewed. Further improvements planned for 2016 are discussed. The collimation MD studies which were performed to address the current operation and future upgrades are summarized.