

A collimation perspective on the commissioning

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Abstract

A comprehensive review of experience gained during the 2021 test beam is presented. Thanks to the excellent machine availability, various critical aspects could be addressed, including machine aperture, new hardware checks and first commissioning of the upgraded alignment tools after a 3-year long shutdown. The relevant feedback is analysed as an input to the 2022 collimation commissioning plans. The strategy for to final beam-based alignment and for the validation of the collimation performance, together with 2022 settings, is presented. Results of global and local aperture measurements are discussed. Operational scenarios, including luminosity leveling, are discussed taking into account the optics commissioning plans for Run 3. The impact of a possible 1-year extension to Run 3 is addressed.