

Coherent instabilities (20' + 10')

Wednesday 24 November 2021 15:00 (30 minutes)

The LHC beam stability is evaluated throughout the different beam processes for Run 3, considering the beneficial effect of the collimator upgrade as well as the increased brightness with respect to Run 2. The related recommendations in terms of Landau octupole strength, chromaticity, damper gain and optics corrections are thus provided. Finally, a plan is proposed for measurements during Run 3 in order to further improve the LHC impedance model and consolidate the knowledge of the stability limits. The benefit from the possible deployment of new diagnostic tools and measurements techniques will be discussed.

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Session Classification: Session 3