

Expected impact of hardware changes on impedance and beam induced heating during run 2

Monday, September 22, 2014 11:00 AM (20 minutes)

During LS1, many hardware changes affected the beam surrounding (consolidations, upgrades and new equipment). The expected consequences of these changes on the LHC beam coupling impedance will be reviewed in this talk, as well as their consequences on the related intensity limitations: beam instabilities and beam induced RF heating. These collective effects have affected the performance of the LHC before LS1, and this talk will provide a status of the expected issues that may come up as well as suggest mitigation strategies in case of problems.

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Session Classification: Session 1 - LS1, HW Commissioning, Powering Tests - Coming out of LS1