



MD13583: Improved tune-shift measurements

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Comments and answers

- **Clarify bunch intensities:**
 - For the part at injection: 0.5e11, 0.75e11, 1e11, 1.25e11, 1.5e11
 - For flat-top: 0.5e11 and 1.6e11 (or the operational intensity)
- **Clarify the collimator retracting and cycling:**
 - For the fully asymmetric settings we retract completely one jaw of each primary and secondary collimator as it was done in MD7203 (<https://asm.cern.ch/md-planning/lhc-requests/7203/procedure>)
 - For the single collimator measurement:
 - Initially we were thinking of doing the measurement on TCP.C6L7.B1 (horizontal primary) and TCP.B6L7.B1 (skew primary) but we realized that with the primaries we don't have a lot of flexibility in retracting (because we might expose the secondaries)
 - We decided to use to the secondaries to be on the safe side
 - We would like to cycle TCSPM.B4L7.B1 (horizontal secondary) and TCSG.D4L7.B1 (skew secondary) from parking position to 0.5 sigma less than the corresponding primary
 - The plan has been discussed with the collimation team



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