

## Beam stability with colliding beams at 6.5 TeV

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### **Abstract**

In this talk we will try to propose some possible scenarios for operation of beams during the betatron squeeze, adjust and stable beam mode at 6.5 TeV energy for after the LS1. The available parameter space in term of intensity, chromaticity, octupole current, damper gain, bunch spacing and length will be explored and conclusions on possible settings for the operation will be based when possible on experimental experience from the LHC physics runs. Considerations and evaluations of luminosity leveling scenarios will be considered in the choices of possible scenarios in order to provide the highest integrated luminosity. Techniques to mitigate instabilities when beam-beam effects are involved will also be discussed.