

Abstract Evian 2014

Two-Beam Effects – Tatiana Pieloni

In this talk we propose possible scenarios for operation of beams during the betatron squeeze, adjust and stable beam mode at 6.5 TeV energy for the 2015 LHC physics run. The available parameter space in term of intensity, emittances, chromaticity, octupole current, damper gain will be explored for the 25 ns bunch spacing. Conclusions on possible settings for the operation will be based when possible on experimental experience from the LHC 2012 physics run. Limitations and possible countermeasures will be considered in the choices of possible scenarios in order to provide the highest integrated luminosity.