#### **Optics during the ramp and IR non-linearities**



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# Parts of the MD and beam type

- Ramp (20min): Optics measurement with AC dipole
- Flattop (20min): B1V Amplitude detuning with AC dipole (requested by S. Fartoukh)
- Squeeze (5h): Measurement and correction of IR non-linearities with AC dipole and orbit bumps.
- ★ Correction of chrom. coupling if time permits.

Single bunch  $\approx 2 \times 10^{10}$  protons  $\rightarrow$  MPP class A Mirko already checked all IT correctors (excluding RCOSX3.L1 and 60A limit in RCSSX3.L1).



# Motivation for chrom. coupling correction



## Ideal outcome

- Understanding of emittance blow-up during the ramp
- ★ More info for the instabilities
- Commissioning of the IR sextupolar corrections (potential use in 2012-13!) and understanding higher orders
- ★ Zero chromatic coupling