

# End-of-fill on TCT closure test

- Motivations
  - Want to know whether we can tighten the TCT in operation or if this causes too much background
  - Help ATLAS and CMS in understanding the background from halo
- Procedure
  - Take over a standard physics fill with 2200 bunches about 1.5h before dump and go in adjust
  - Move in vertical TCTs in IR1/5 by 0.6 sigma (from 9 to 8.4), preferably using a sequence
  - Go back in stable beams
  - Wait about ~1h for data taking before dumping

# Caveats

- Going to 8.4 sigma only: don't need to change TCT thresholds (400 um dump limit). Will violate warning limit
- Both ATLAS and CMS prefer to do the data taking in stable beams
  - Can keep inner detectors on to study fake jets and not only BCM background
- To declare stable beams, normally require full validation
  - Have loss maps done with vertical TCTs at 8.3 sigma (not 8.4). Driven with beam process but not sequence. No asynch dump test done
  - For discussion: is this sufficient?