Chromas ~ 15 in H and ~ 10 in V along entire cycle
Octupoles ~ 550 A at FT
Damper damping time at HE ~ 100 turns
First fill attempt with trains of 48b and Q’ ~+5: trailing bunches of trains of 48b are blowing up rapidly $\rightarrow$ Q’ to ~+15 (H) / +10 (V).
Chroma to +15 / +10 → OK

- The chromaticity is now set to +15 in H and +10 in V along the entire cycle.
- Since this was done by trimming up the functions globally, it may be useful to insert a Q’ measurement with probes in ramp & squeeze at some convenient time.
Trains of 48b – 6.5 TeV

- There may be some blow up for B1H on the 48b trains according to the BSRT – no easy to confirm (need bbb L).
- Emittances at injection 2.5-3.5 µm, in collision ~3.5 µm.

Start of SB, fill 4220
Tune spectrum - fill 4210

- Correlated to the B1H blow-up: the B1H BBQ spectrum has a higher noise and signal level that the 3 other planes.
- Larger oscillation amplitudes were also observed with the ADT raw data (G. Kotzian) on the witness bunch of B1H.
Indiv in bucket 1 blown up.
Some new insights on 50 Hz, with tests performed in the pressure to solve the B1H blow-up problem... during stable beams.

**Q spectrum on gated bunch (B1H)**

- The 50 Hz forest seems to be a BBQ instrumental effect!

- Gate set on a small number of bunches to avoid issue!