Summary of damper studies:

Setting up of beam 1 Hor. Damper continued Damper kicks time aligned with the beam. Then we closed the damper loop first for 100 turns, then for 500 turns with increasing gain. Took data.

Conclusion: feedback stable, data needs to be analyzed. Also the injection error was increased (transfer line) to gives us more error (and signal).

Beam 2 vertical front-end setting-up also started.

- 16:00-17:00 access for QPS crate for RQTF/D.A81 and BLM in point 1
- Limitation of the ramp rate for RQTF/RQTD to 1.5 A/s to avoid spurious trips in case of large trims required by the tune feedback S. Page)

17:00 Operational pre-cycling. Multiple trips of RQTL11.L5B1/B2 - RQT12.L5B1

- 20:00: Ready for injection of 2 beams
- 20:00 21:30 : B1 and B2 measurements at 450 GeV : orbits, tunes, chromaticity, coupling

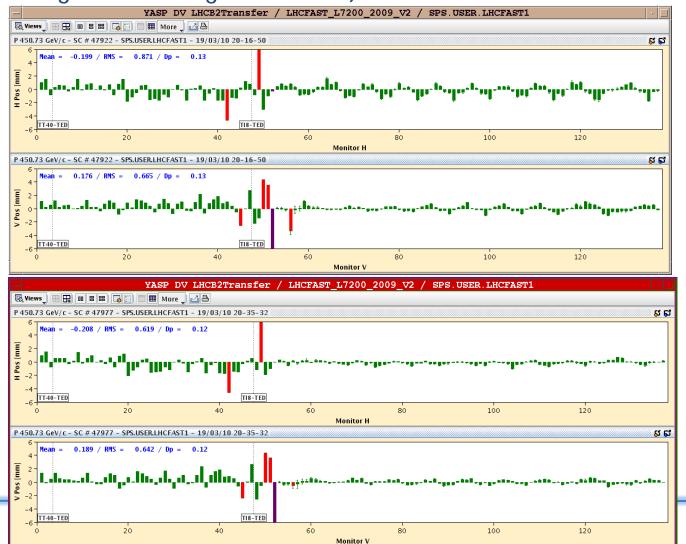
Tunes after pre-cycle to 2 kA (main circuits): Tunes checked and corrected -

B1 was H = .287; V = 0.323 and corrected to nominal B2 was H = .297; V = .322 and corrected to nominal

- Chromaticity measured and corrected: B1 was Q'h = -4.4 ; Q'v = +8.2 → trimmed by +14 in H B2 was Q'h : -2.5 Q'v = +12.5 → trimmed by +12 in H
- Chromaticity re measured:

B1 was Q'h = 8.9 ; Q'v = 9.9 B2 was Q'h = 11.2 ; Q'v = 17.5 \rightarrow trimmed by -8 in V

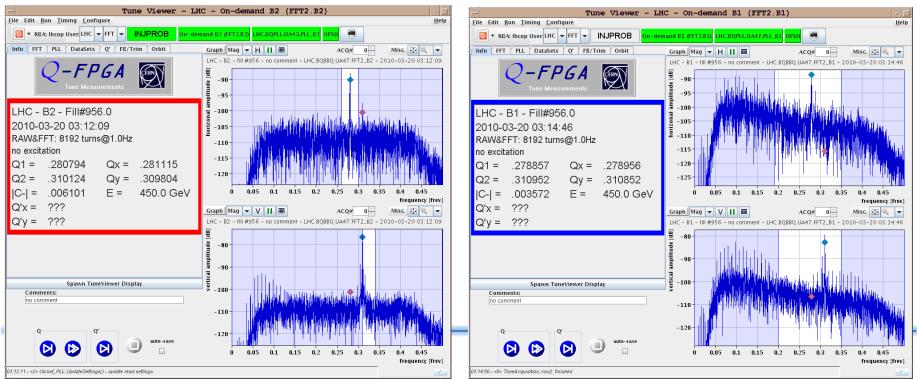
Injection oscillations: B2 corrected by MCIAH.87408 = -10.51 urad (reducing the existing correction)



Injection oscillations: B1 corrected by MCIAH.2880 = 9.28 urad (reducing the existing correction)



- 21:30 22:30 : RF cogging \rightarrow completed. Parasitic measurements will be done.
- 22:00 01:00 : Problem with RSF1: a power module with a earth fault. Access in UA87.
- 03:00 : Beam back at 450 GeV Checks of parameters.
- Chromaticity measured and indeed back to 10 both beams both planes (where they were put at before the beam dump).



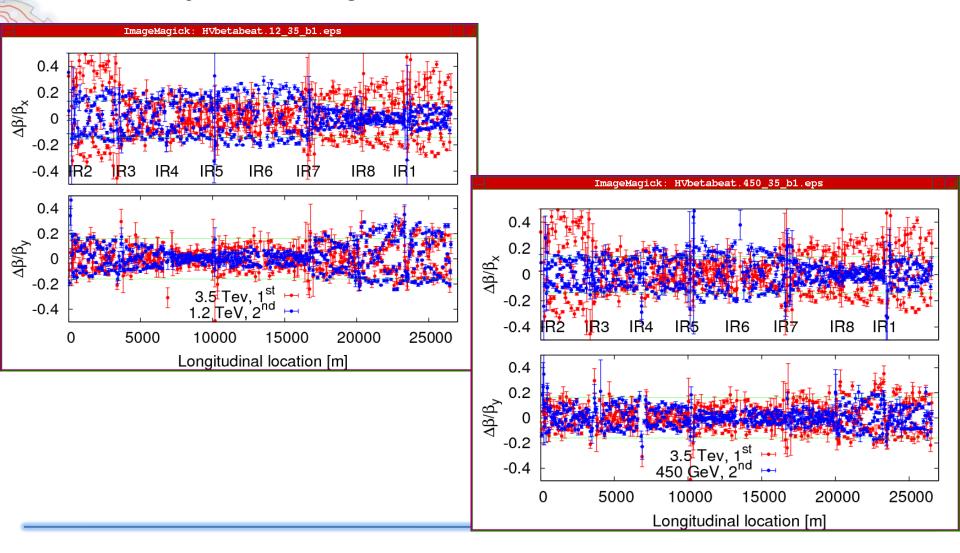
Saturday 20/3/2010

04:00: Incorporate the parameters KNOB for tune and Chromaticity, parameters K for Orbit H and V, cavity Q and total voltage

- 04:07 05:21 : Both beams ramped at 3.5 TeV: coupling for B2 still to be corrected
- 3.5 TeV measurements:
 - Orbit left as found at 3.5 TeV
 - Chromaticity measurement of B1 (hand made): Q'H=7.9; Q'V=10.6
 - Wire scan: B2 H : 3.2 ; B2 V : 2.8 ; B1 H : 1.5 ; B1 V : 1.6
- 06:20 : start B1 beta beat measurements
- 06:36 : beam dump: RCBYHS4.R2B2 tripped

Saturday 20/3/2010

Preliminary Beta beating measurements on beam 1:



- 07:00 11:00 : back to 450 GeV and optics measurements
- 11:00 15:00 : Loss maps at 450 GeV
- 15:00 21:00 : Injection and Beam dump commissioning (continued at 450 GeV: 14/15 MKD dump and TI2 collimator + LSS6 BPMS)
- 21:00 23:00 : 3.5 TeV ramp
- 23:00 07:00 : 3.5 TeV optics measurements

23:00 - 07:00 : 3.5 TeV optics measurements

07:00 - 15:00 : Protection device and collimator setting-up at 3.5 TeV (beam based alignment after verification of orbit and optics)

- 15:00 23:00 : Beam dumping system- extracted pilot, b1, b2: ramp to 3.5 TeV (trigger dump at 2 TeV)
- 23:00 07:00 : Damper setting up at 450 GeV