

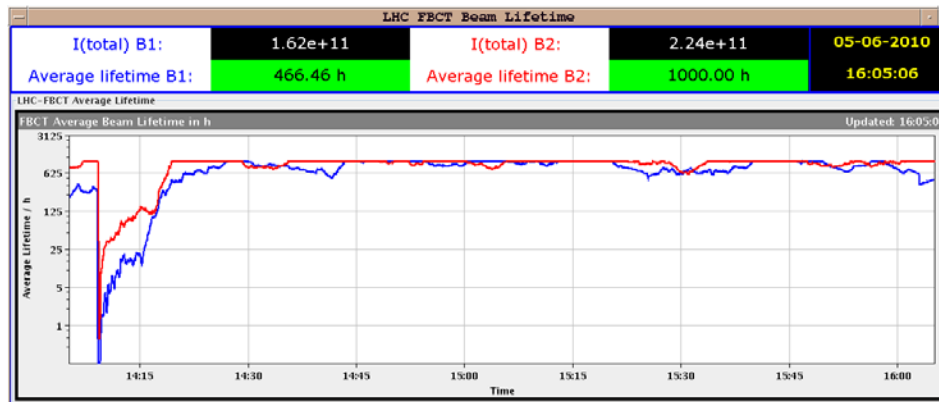


Saturday 5 June

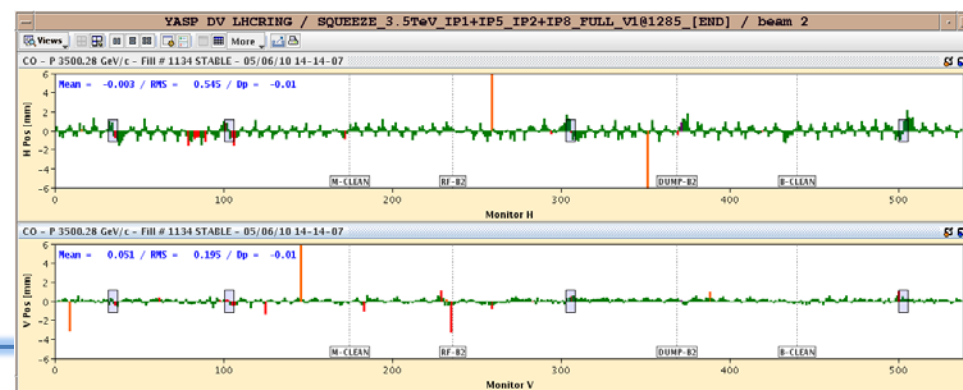
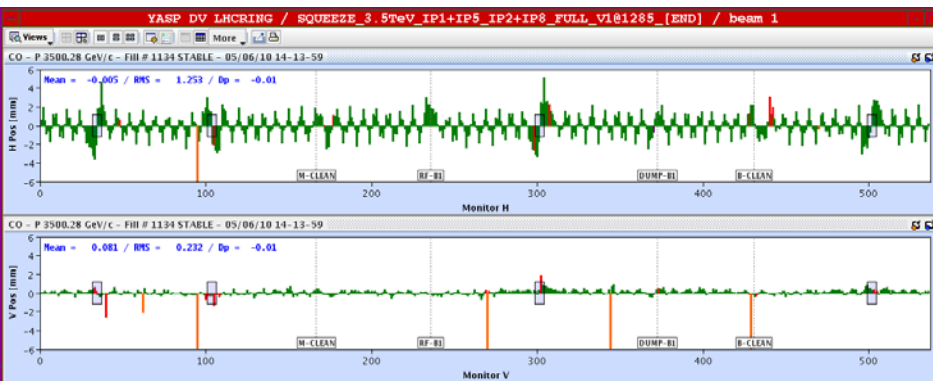
- Re-injecting pilots, performed checks, corrected injection oscillations for both beams
 - Injecting 13 b/beam
 - B1 : $E_h = 2.2 \text{ um}$ - $E_v = 3.3 \text{ um}$
 - B2 : $E_h = 2.5 \text{ um}$ - $E_v = 3.5 \text{ um}$
 - Bunch length: 1.68 ns - Long. emittance: 0.64 eVs
 - Squeeze: rocky up to 5 m
 - 13:40: Stable beams
 - No acquisition from BRAN in IP1 and 5 (crates off after the power cut) → Fixed in the afternoon
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Saturday 5 June

- Lost ~25% of B1 intensity while doing the mini-scan in IP8.

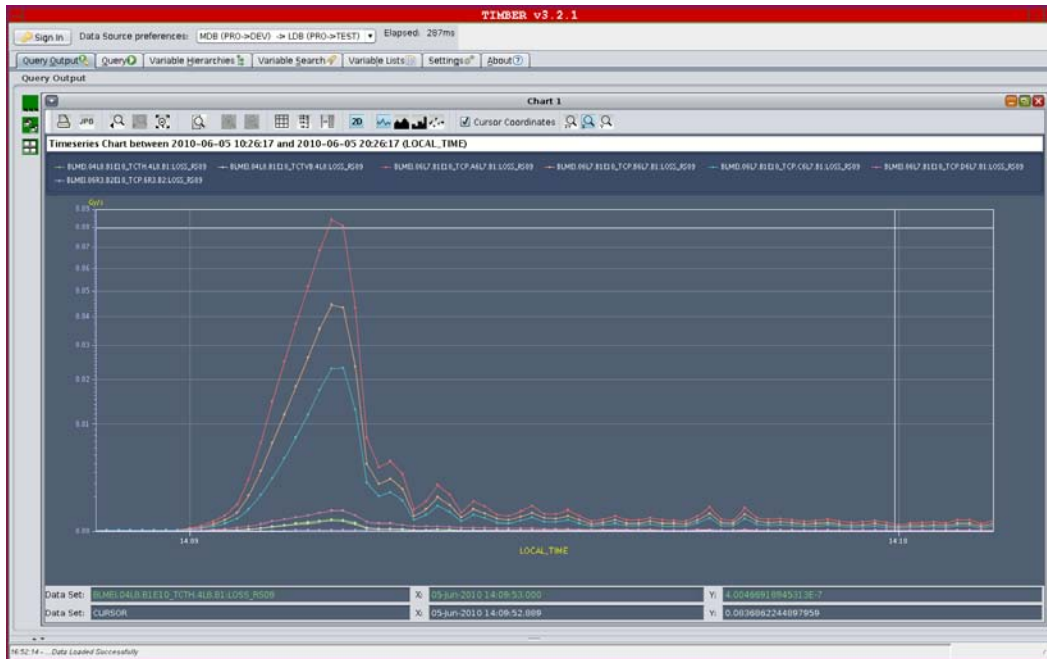


- Orbit showed a large hor. oscillation both for beams



Saturday 5 June

- Beam was primarily lost at the primary collimators and not at the TCTs in P8.



- Luminosity scan application was subscribing to old LSA version and the knob were setting the correctors strength to zero → Fixed by G. Kruk

Trim Editor

RBA: lhcop LHC OP BP

Beam Processes

- _NON_MULTIPLEXED_LHC
- CollimatorBP-450GeV_V1@60_[END]
- DISCRETE_LHCRING_INJ_KICKER_V1
- SQUEEZE_3.5TeV_IP1+IP5_IP2+IP8_FULL_V1@1285_[END]
- CollimatorBP-450GeV_V1
- CollimatorBP-450GeV_V1@0_[START]
- CollimatorBP-450GeV_V1@1
- CollimatorBP-450GeV_V1@11
- CollimatorBP-450GeV_V1@1_Fill(1073)_2010-05-06_01:53:45

Show hidden

Parameter selection - LHCRING

System	Type Groups	Parameters
IP_SEPARATION	KNOB	
IP_SPECTROMETER	K	
LANDAU DAMPING	I	
LHC SIS-REF		
LHCINJKICKERS		
LUMI-SCAN		
MATCHING QUAD		
MKI IQC REF		

Filter:

RPLB.UA83.RCBYVS4.L8B1/IREF
RPLB.UA83.RCBYVS4.L8B2/IREF
RPLB.UA87.RCBYHS4.R8B1/IREF
RPLB.UA87.RCBYHS4.R8B2/IREF
RPLB.UA87.RCBYHS5.R8B1/IREF
RPLB.UA87.RCBYHS5.R8B2/IREF

Select All Select ... Hierarchy Show Fiel...

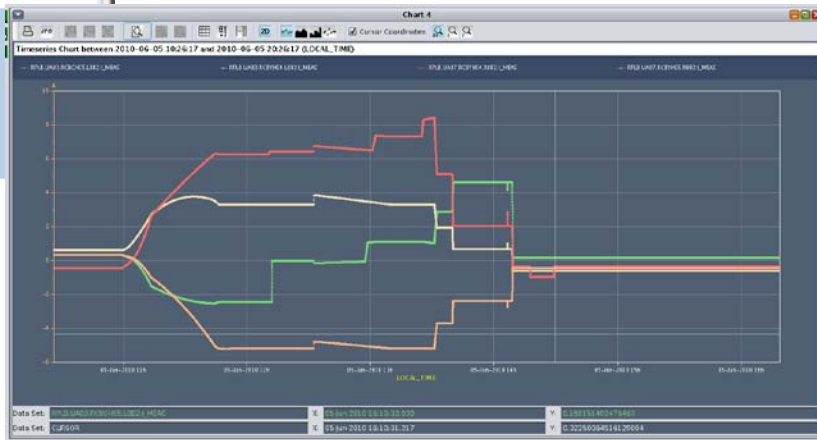
Setting part: Value Target Correction Trim History Time base: SuperCycle Cycle/Beamprocess Injection

Parameter	SQUEEZE_3.5TeV...	SQUEEZE_3.5TeV...	SQUEEZE_3.5TeV...	SQUEEZE_3.5TeV...	SQUEEZE_3.5TeV...	SQUEEZE_3.5TeV...	Trim period
RPLB.UA87.RCBY...	0.0	3.1933	2.382	0.0	0.0	0.0	

Trim History

Trims for RPLB.UA87.RCBYHS4.R8B2/IREF ...

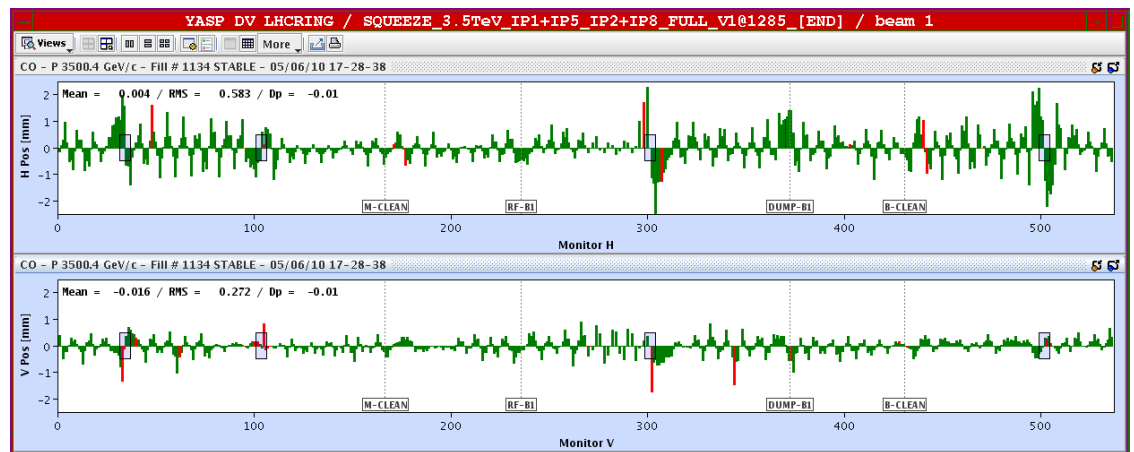
- 05-06-2010 11:22:45 : Trim entry for creation of actual settings based on beamprocess SQUE
- 05-06-2010 13:39:51 :
- 05-06-2010 14:06:27 :
- 05-06-2010 14:06:48 : Cancelled last trim
- 05-06-2010 14:08:56 : Trim beam 1 to 0.07208 mm and beam 2 to -0.07208 mm
- 05-06-2010 14:09:50 : Trim beam 1 to 0.0945 mm and beam 2 to -0.0945 mm
- 05-06-2010 14:10:28 : Trim beam 1 to 0.11692 mm and beam 2 to -0.11692 mm
- 05-06-2010 14:11:06 : Trim beam 1 to 0.0945 mm and beam 2 to -0.0945 mm
- 05-06-2010 14:17:39 : MICADO / 2 iter / H - f = 1.00
- 05-06-2010 14:29:10 : Trim beam 1 to 0.09226 mm and beam 2 to -0.09226 mm
- 05-06-2010 14:29:52 : Trim beam 1 to 0.0945 mm and beam 2 to -0.0945 mm
- 05-06-2010 14:30:30 : Trim beam 1 to 0.09674 mm and beam 2 to -0.09674 mm
- 05-06-2010 14:31:08 : Trim beam 1 to 0.0945 mm and beam 2 to -0.0945 mm



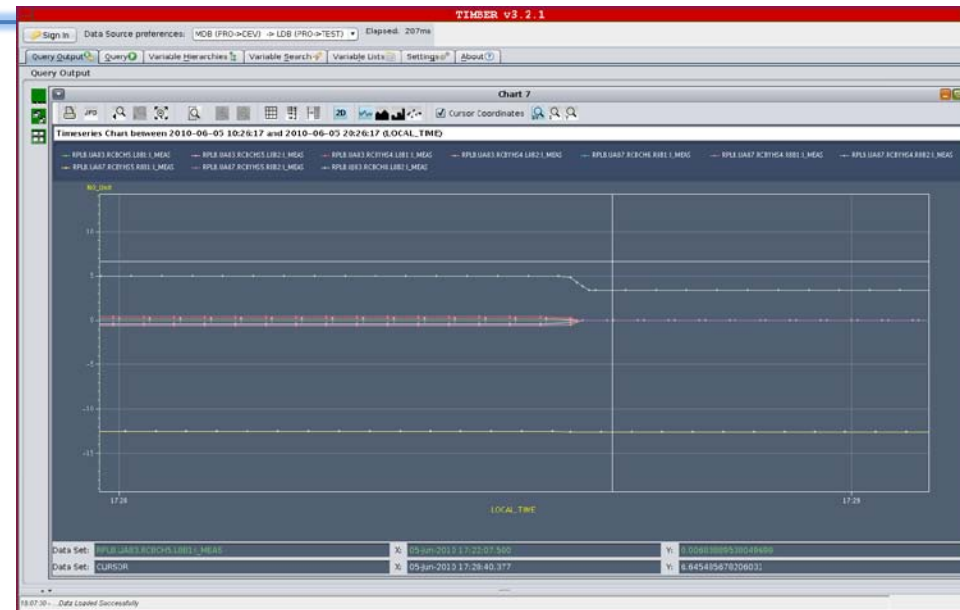
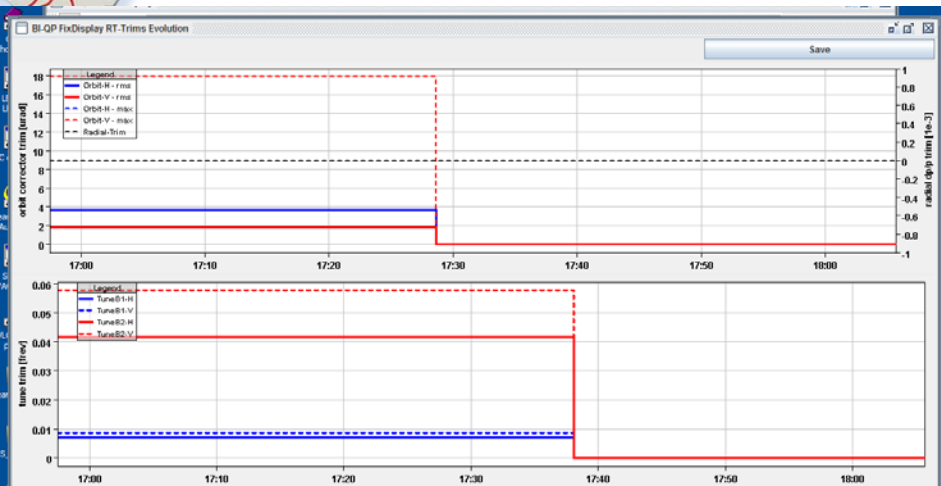
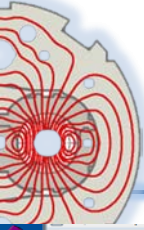
Saturday 5 June

17:30 : Beams were dumped:

Losses on TCSG.A6R7.B2 due to orbit drift (within 1 s)



Saturday 5 June



Orbit feedback reference going to zero although the feedback was OFF → confirmed by EPC

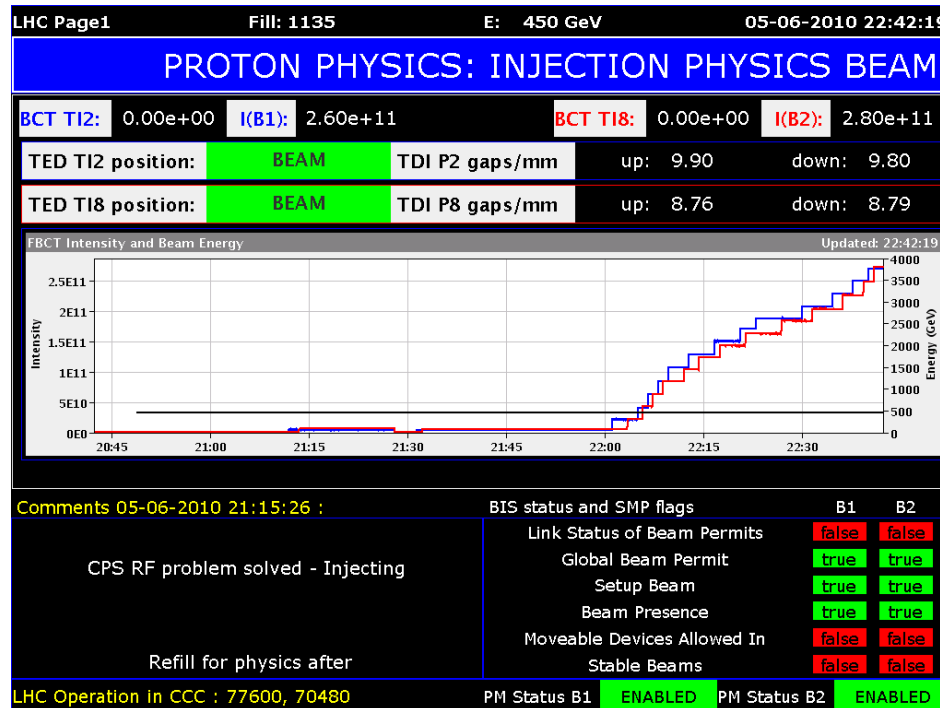
Decided to continue by disabling the real time output of the orbit feedback before starting the squeeze → need simple command

19:00 - 21:00 No beam from PS: RF problem

Saturday 5 June

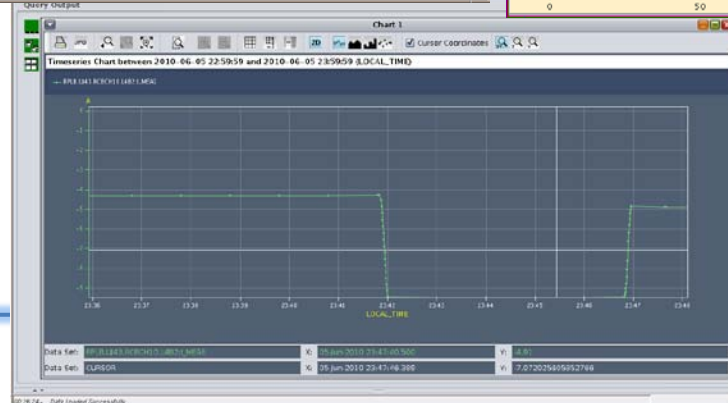
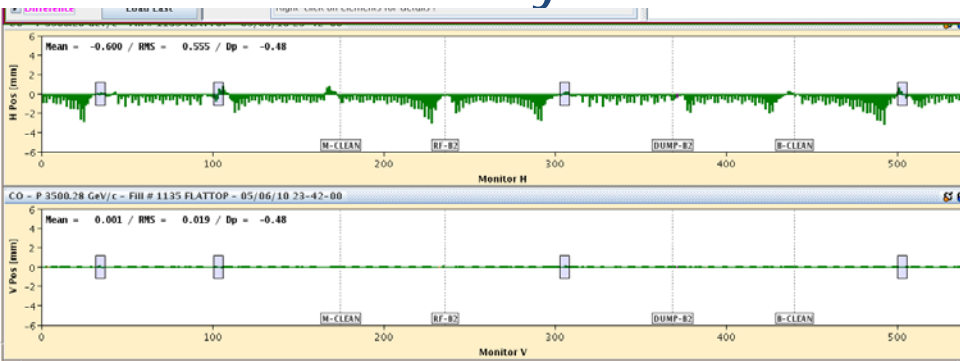
Injection process slowed down by the analysis of Inj. Quality Check returning errors on MKI delay threshold and BLM losses.

Etienne Carrier updated all the new values of the IQC MKI thresholds : all O.K. Better on the next injection process.



Saturday 5 June

- Ramping: O.K.
- 23:42 - While preparing the squeeze, switch off orbit feedback and performed chromaticity measurements → Beams dumped
- Traced back to massive numbers of correctors sending corrections by the orbit feedback (being off).





Saturday 5 - Sunday 6 June

- Sector 81 tripped during ramp-down → likely noisy nQPS board → being investigated by MP3
- Re-injecting - ramping - squeeze
- Disabled RT feedbacks output at the end of the ramp
- → lost beams on the 1/3 resonance in between the beta* = 7 and 5

Preparing next fill:

→ we will stop at 9 and 7 m to correct the tunes on the next squeeze.



Sunday 6 June

- Physics fills - 13b x 13b of 2.3×10^{10} /bunches
 - Transverse feedback commissioning on Sunday : cancelled.
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