29/04/2010

- To note:
  - CMS ready to switch on tomorrow
  - ATLAS ready to switch on as of Saturday (proposal: Saturday morning, 8 to 10)

28	WE	A	8	Technical stop finishes at 20:00
28	WE	20:00	12	Cycling the magnets - LHC ready at 450 GeV - Perform dry ramp for energy tracking - LBDS MPS checks without beams
29	TH	8:00	8	Restore beam parameters at injection - pilot - b1 + b2 - Dump pilot at 450 GeV - Ramp 3.5 TeV and Dump
29	TH	18:00	8	Injection and protection device setting up for high intensity - BPM qualification for high intensity
29	FRI	2:00	6	Abort cleaning at 450 GeV
30	FR	M	8	n1 measurements
30	FR	A	8	Part 1 - Collimator setting up 450 GeV, 2e11/beam in preparation of the ramp with coll.
30	FR	N	8	IR6 aperture measurements
1	SA	M	8	450 GeV high intensity "test runs" - 2x2 - I_bunch = 4e10 - 8e10 - 1e11
1	SA	A	8	Part 2 - Collimator setting up 450 GeV, 2e11/beam in preparation of the ramp with coll.
1	SA	N	8	450 GeV high intensity physics - 2x2 - I_bunch >7e10 - STABLE BEAMS
2	SU	M	8	Beta beat measurements in the ramp
2	SU	A	8	Aperture measurements - 450 GeV - pilot
2	SU	N	8	450 GeV high intensity physics - 2x2 - I_bunch > 7e10 - STABLE BEAMS

Thursday morning 29/04/2010

- 9:00 - 10:45 : access given to the UAs in P4 for EPC+QPS investigation on the RQTD circuit. Prb with the power convertor which was accidentally limited to 120 A.
  RB's of sectors 23, 34, 45, 56 to stand by and leave the other circuits to injection level (below phase II limit)

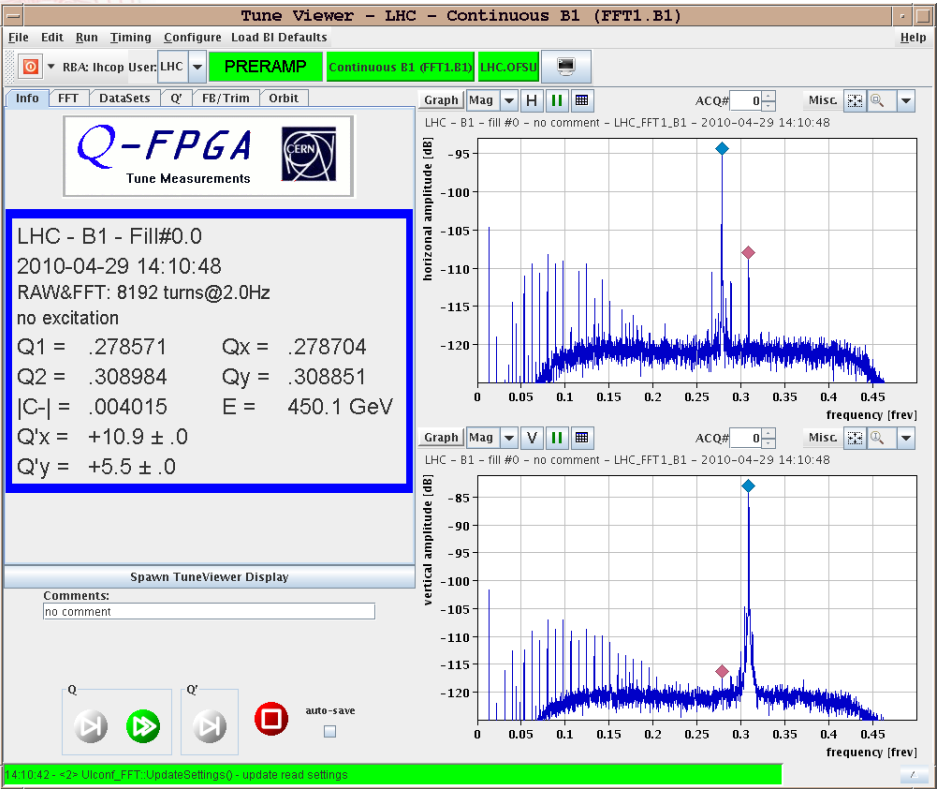
  In parallel:
- Barbara E. Holzer : Changed the status of some BLMs (needed to allow over injections).
  - changed status flag for 2 TDI monitors to_BIS=0 to =1, i.e. now connected BLMEI.04L2.B1E10_TDI.4L2.B1 and BLMEI.04R8.B2E10_TDI.4R8.B2 to BIS
  - Generated new setting and sent them to the electronics
  - MCS check successful
- Pierre Charrue: Since 8h30 this morning both BCT and BRA Proxies on CS-CCR-CMW4 are crashing. Proxy issue found and solved: The BCT and BRA proxies are now running from a NEXT binary to confirm the solution has been found. It will be deployed operationally this afternoon
- IQC thresholds (MCS) adjusted after HW fixes to MKI during the TS.

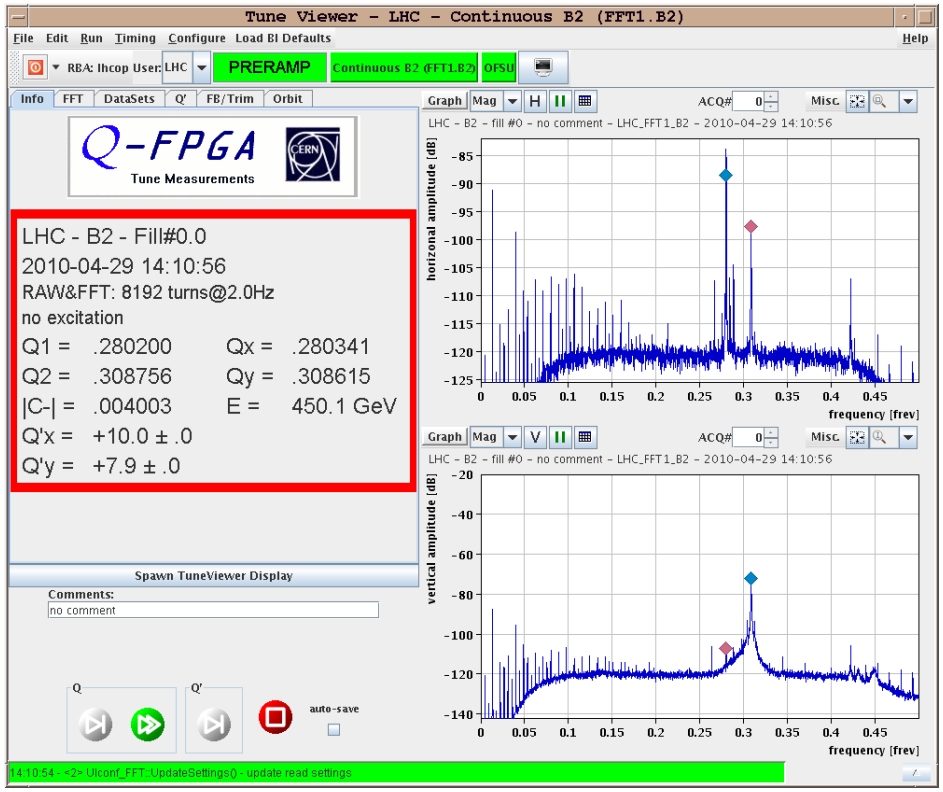
Thursday morning 29/04/2010

- Ralph Steinhagen: Updated and restarted orbit-feedback-controller (OFC) - main changes –
  - removed interpolation in between Q/Q' acquisitions (necessity for the recent RQT[D/F] QPS updates)
  - added rate-limits on tune (0.005), chromaticity (2) and coupling (0.001) per iteration (presenty 0.5 s)
  - added some diagnostics for the trim based Q' demodulation
  - Uptime of last version (last restart was also an update)
    -> about nine days OK
  - restarted cs-ccr-ofc and cs-ccr-ofsu
  - update of OFSU FESA server pending (Lars et al.)
  - Deployed, tested : all O.K.
- Gianluigi and Ralph: the hump is still here (CMS and ATLAS off)

Thursday morning 29/04/2010

hump reference at injection Q2V is on the hump



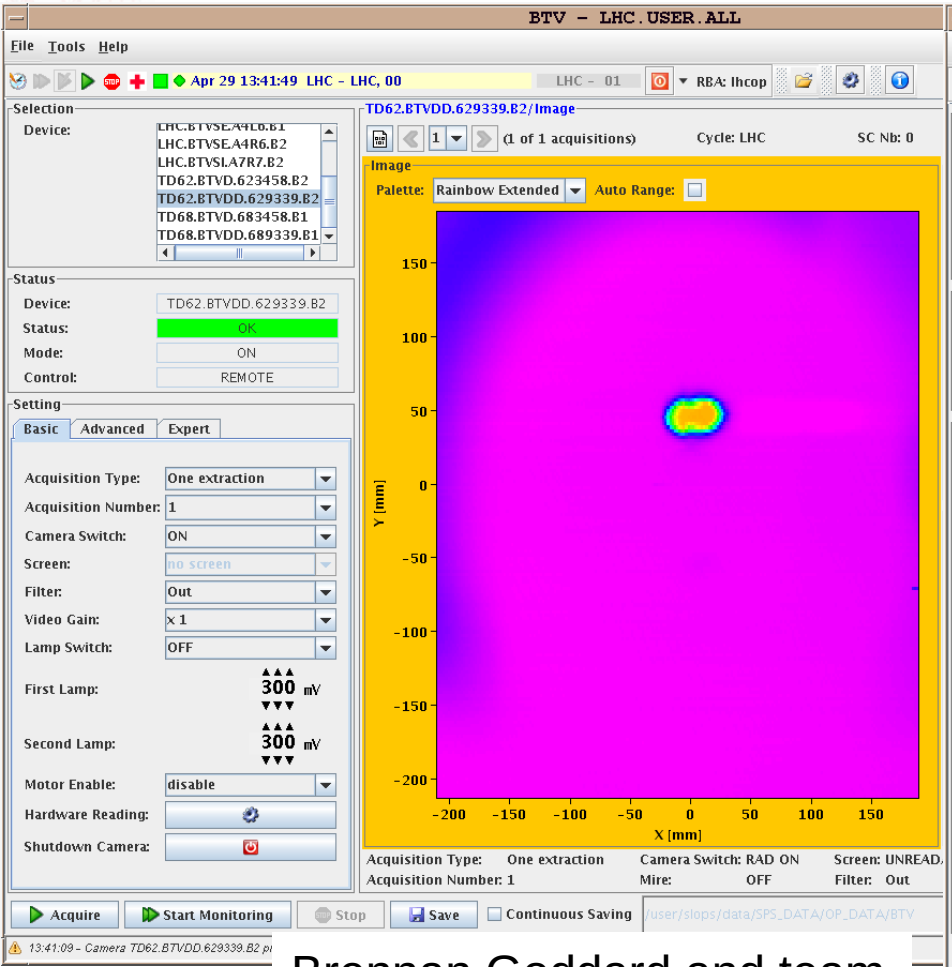


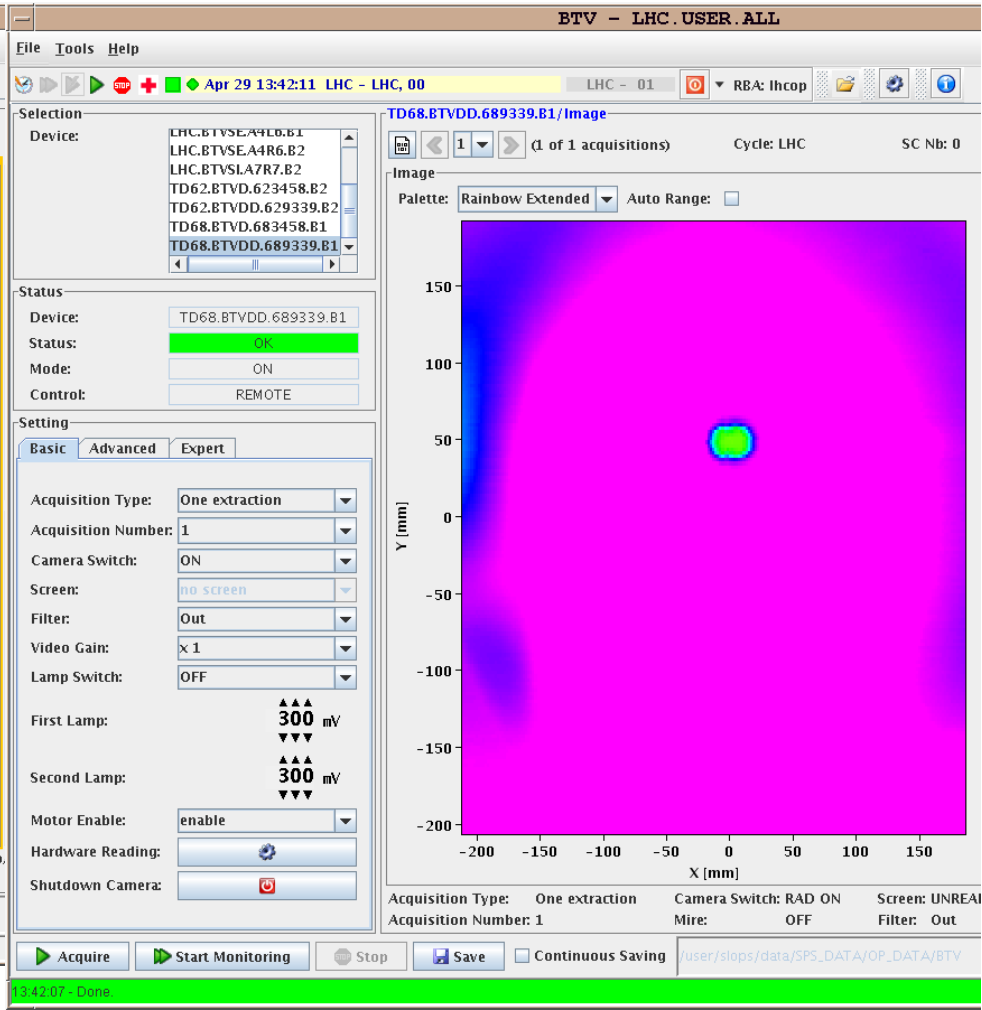
Thursday afternoon 29/04/2010

- 12:25 : Ready to inject beams again in the LHC without pre-cycling the RBs in 23, 34, 45, 56 that were set to stand-by for access.
- Corrected trajectory in TI 2 and TI 8 in order to re-establish smaller injection oscillation → more detailed studies later today
- Beam1 and beam 2 checked, 5e9, orbit, tune , chromaticity
- Dump beams 450 GeV for data analysis (Jan Uythoven → done and O.K)
- 14:00 : Injecting beam 1 and beam 2
- 14:15 : Ramp started : New feature: bring the separation down from 2 mm to 1 mm in the ramp
- 14:58 : At 3.5 TeV: New release : actual trim application tried but got errors while trying collapsing separation bumps with new actual trim interface – Mario to check this.
- Dump beam 2 while moving the collimators at 3.5 TeV before the squeeze. Stefano Redaelli : on TCSG.B5L7.B2 there is a difference setting and measured position of about 0.5 mm. Alessandro Masi is checking
- Dump beam 1, 3.5TeV all data analysis done : O.K. (Jan Uythoven)

Thursday 29/04/2010

Qualification of new MSD transfer function : dumped both beams at 450 GeV – (below) and 3.5 TeV - data analysed: all O.K. Jan Uythoven





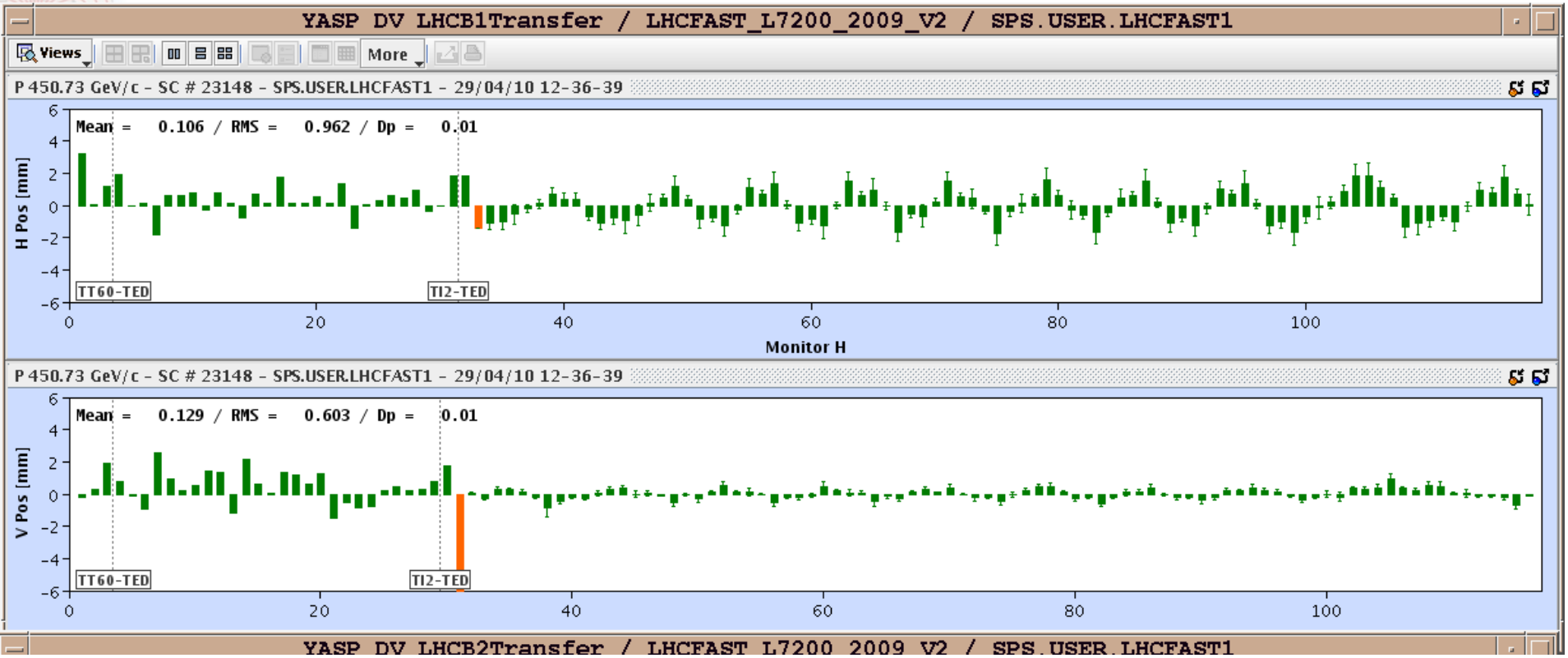
Brennan Goddard and team

Thursday afternoon 29/04/2010

- 16:33 - Ramping down
- .

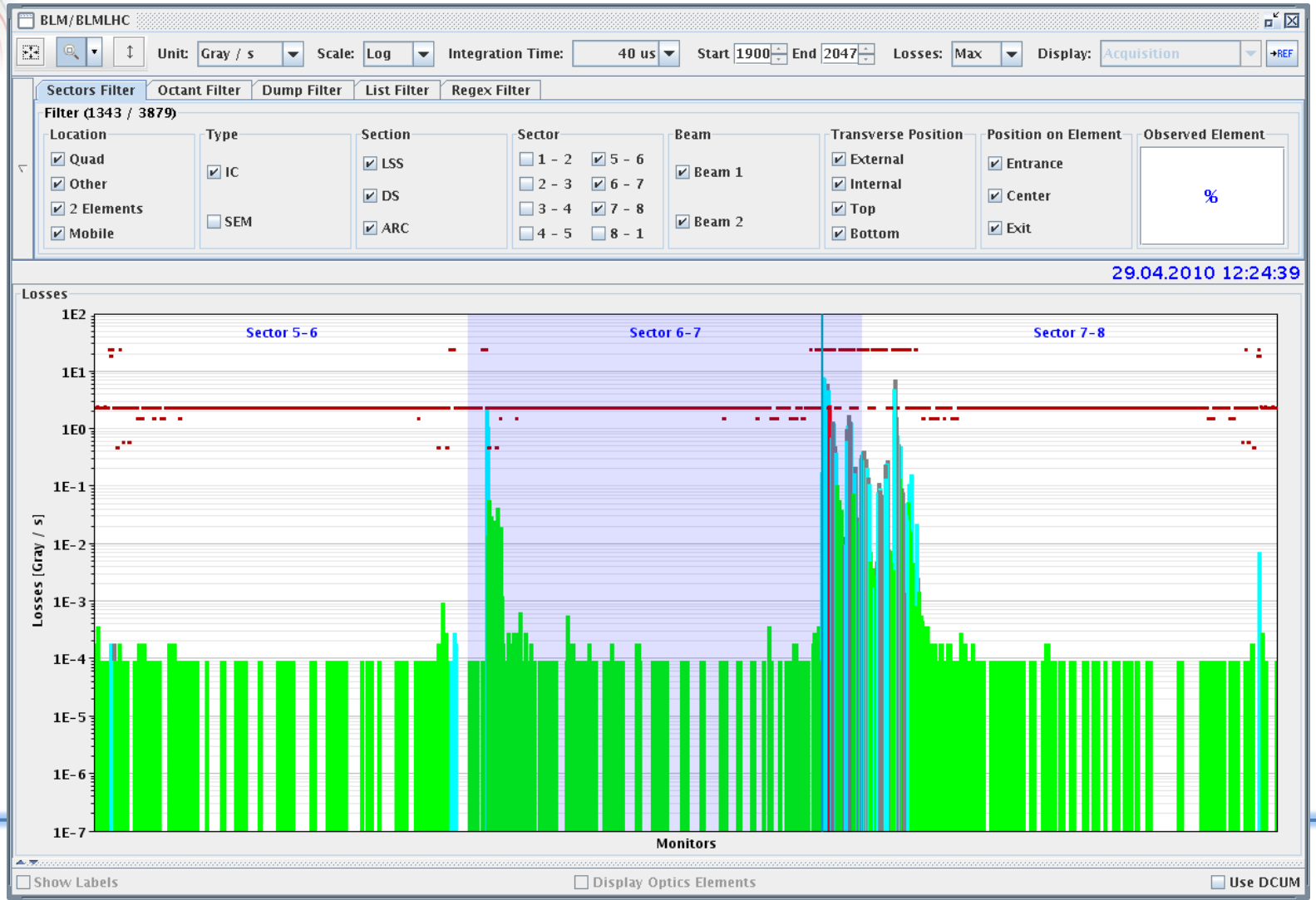
Thursday 29/04/2010

Injection oscillation – Beam 1



Thursday 29/04/2010

B1 injection with large oscillation : beam dump caused by the BLM unmaskable in IP7 - PM generated - BLM TCSM.A6L7.B1



Thursday 29/04/2010