Monday 29/3/2010

- **Morning**:
  - Check the injection with colliding bunch pattern B1 (1, 17851), B2 (1, 8911)
  - Corrected the tunes, chromaticity, H orbit
  - Reverse to non-colliding bunch pattern B1 (1, 17821), B2 (191, 9911)
  - Ramp to 3.5 TeV
  - Corrected H and V orbit
  - Checked the chromaticities H and V B1 and B2 with the automated and manual methods : problem with automated method: a factor 2 missing (should be 2 times what's given – Wrong beam process for picked-up).
    Automated method: 4.5 - 5.7
    Manual method: 8.5 – 10.5

Monday 29/3/2010

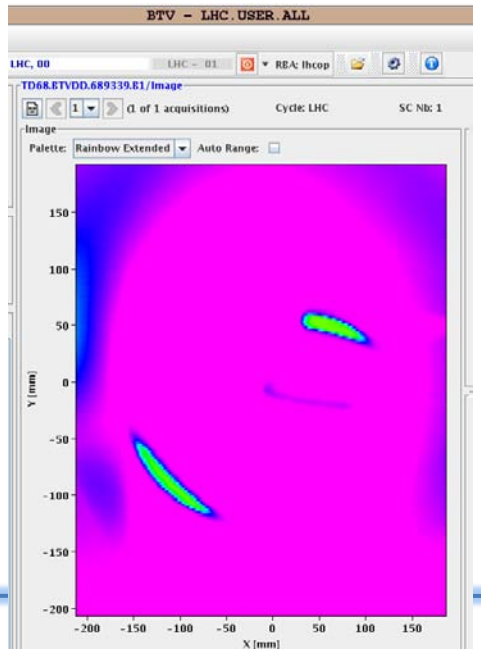
- **End of morning** – Ramp #1: **Continue tests at 3.5 TeV**
  - Simulation of asynchronous beam dump

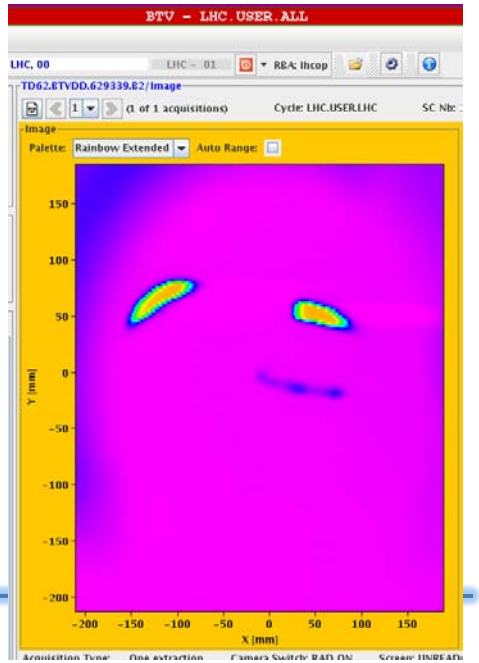
    Switch off the RF – De-bunched beam

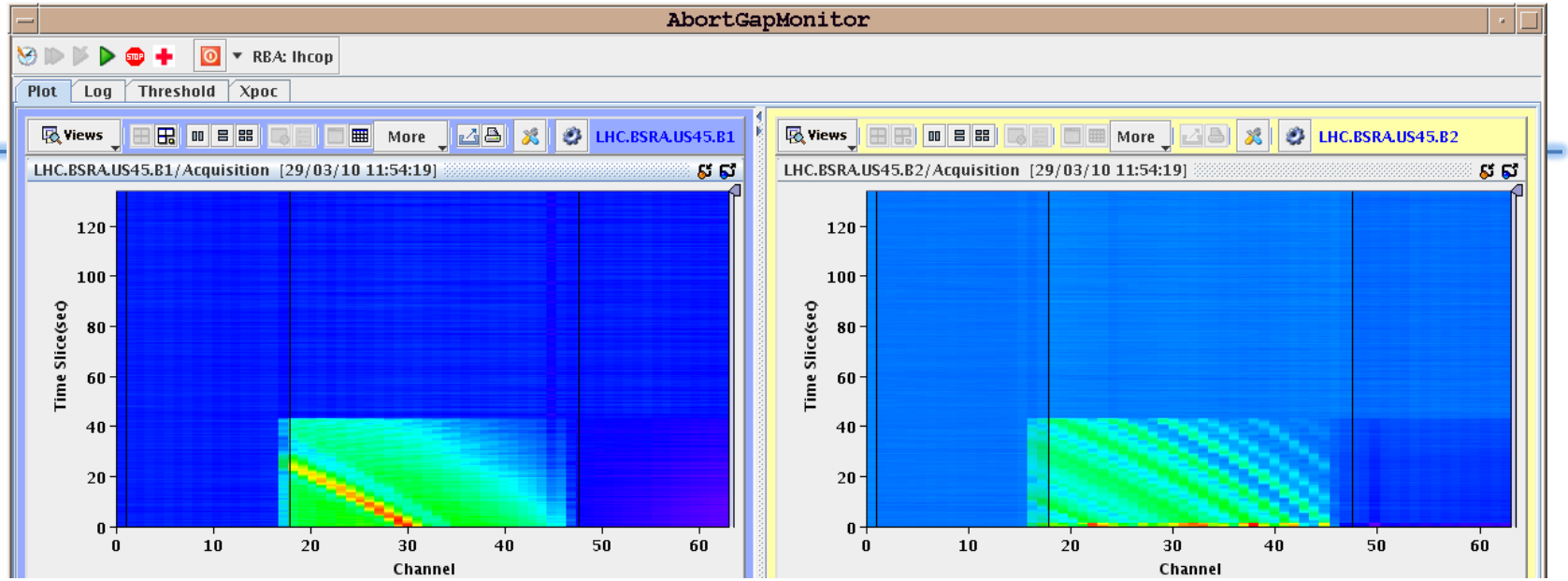
    Beam dumped after about 2 minutes (peak of abort gap population).

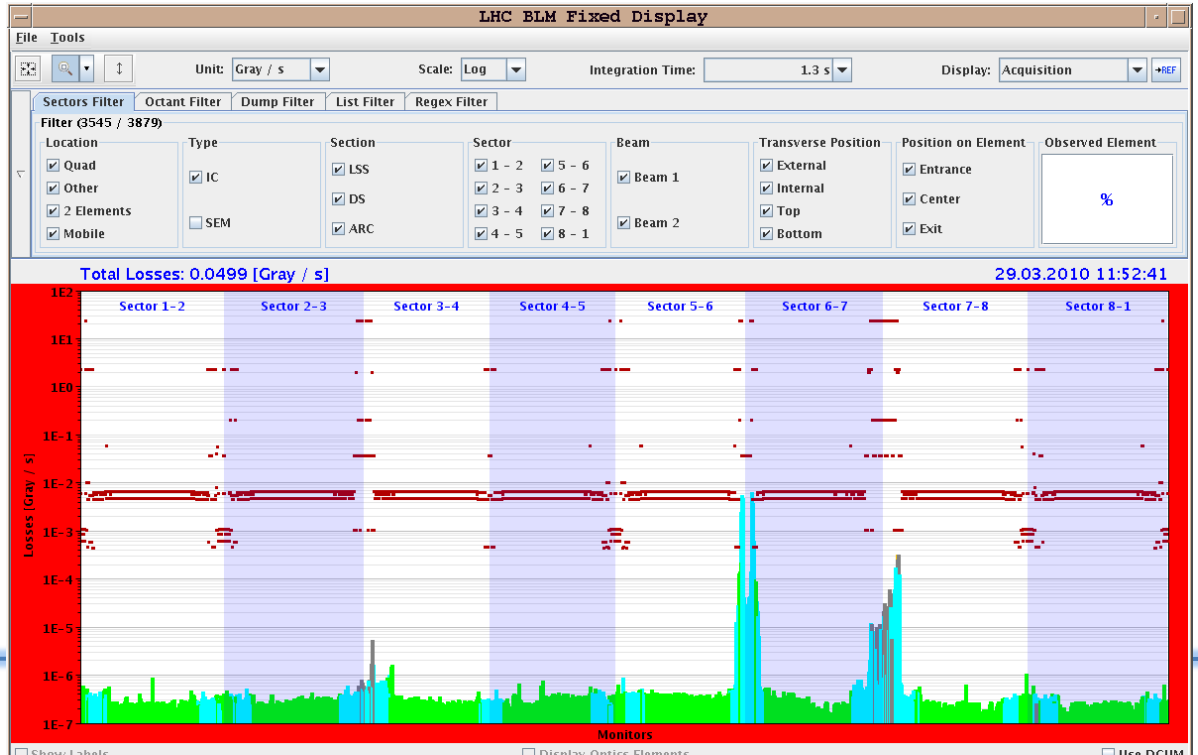
    Losses only on protection devices in P6, and collimators in P7 and P3.

    Looks good - more detailed analysis of PM and experiment data to come
  - Losses on tertiary coll. are at the very small
  - No losses seen by the experiments during the asynchronous dump test (RF off)



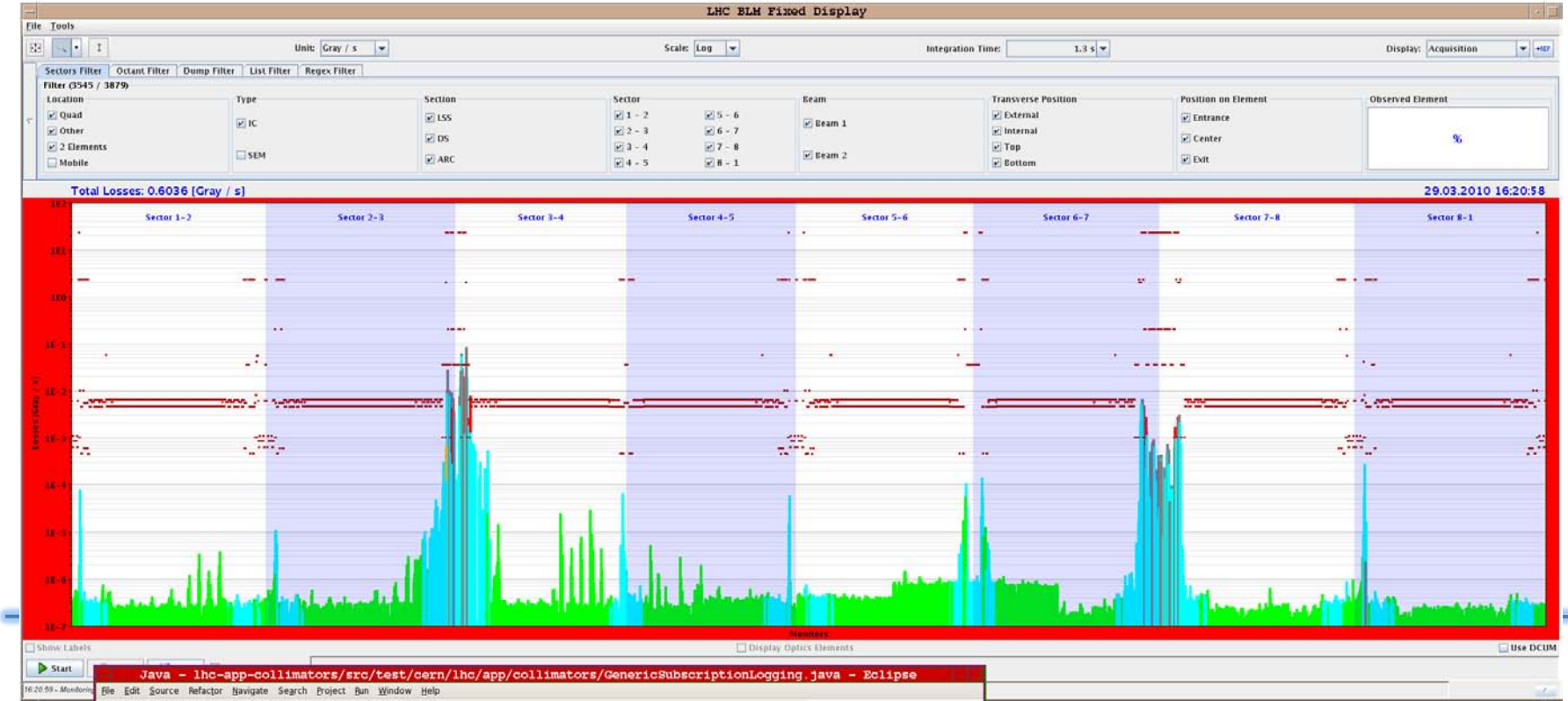



AbortGapMonitor
RBA: Ihcop
Plot
Log
Threshold
Xpoc
Views
More
LHC.BSRA.US45.B1
LHC.BSRA.US45.B1/Acquisition [29/03/10 11:54:19]
Time Slice(sec)
Channel
LHC.BSRA.US45.B2
LHC.BSRA.US45.B2/Acquisition [29/03/10 11:54:19]


LHC BLM Fixed Display
File
Tools
Unit:
Gray / s
Scale:
Log
Integration Time:
1.3 s
Display:
Acquisition
Sectors Filter
Octant Filter
Dump Filter
List Filter
Regex Filter
Filter (3545 / 3879)
Location
Quad
Other
2 Elements
Mobile
Type
IC
SEM
Section
LSS
DS
ARC
Sector
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 1
Beam
Beam 1
Beam 2
Transverse Position
External
Internal
Top
Bottom
Position on Element
Entrance
Center
Exit
Observed Element
%
Total Losses: 0.0499 [Gray / s]
29.03.2010 11:52:41
Sector 1-2
Sector 2-3
Sector 3-4
Sector 4-5
Sector 5-6
Sector 6-7
Sector 7-8
Sector 8-1
Losses [Gray / s]
Monitors

Monday 29/3/2010

- **Afternoon** (Ramp #2): **Continue tests at 3.5 TeV**
  - Tests stable beam flag on/off – Done (16:00 – 16:15)
  - Energy off set to verify containment of off-momentum losses in IR3 (16:20 - change RF by +600 Hz)

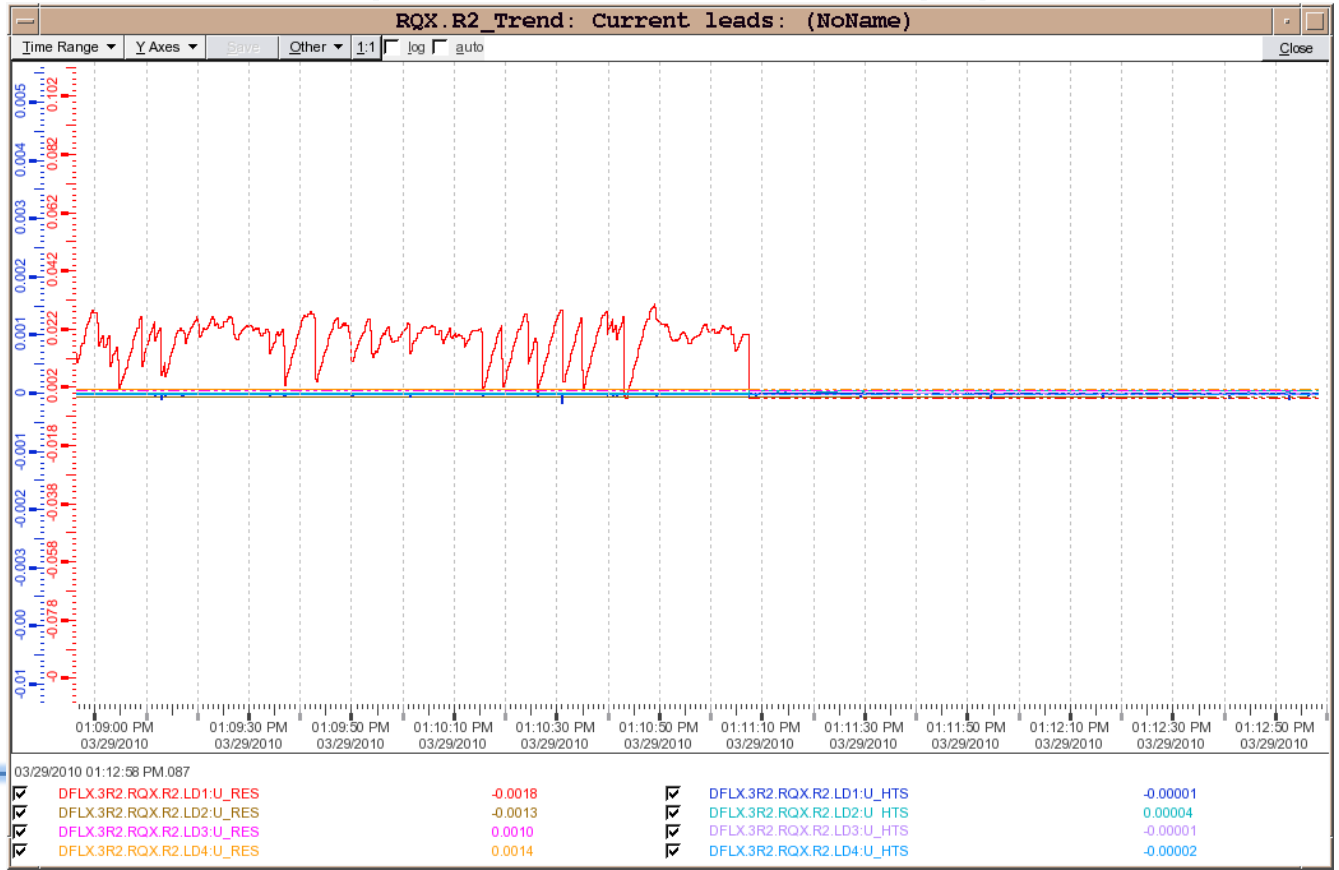


Monday 29/3/2010

- 16:30 Preparing for access

The resistive signal of current lead on RQX.R2 from channel B is very noisy. That could explain the trips of last night.

Decision: Replace the card (2 channels A and B) (limit is 0.1V)



- 16:30 Ramp down in COMBO –

Tripped of the trim quad: the change of beam mode to ramp down is resetting the trim of the tune feedback automatically
DO NOT CHANGE THE MODE BEFORE RESETTING THE TUNE FEEDBACK

RB S12-23-34 put in stand by for the access.

29–30/3/2010

- 18:00 - Access in UA27
- 19:00 – 21:00 : Recovering from access – Beam at 450 GeV
- 21: 00 – 22:00 : Ramping at 3.5 TeV (Ramp #3)- Non colliding buckets **B1 (1, 17821), B2 (191, 9911)**
- 22:00 – 01:00 : Beam left at 3.5 TeV – IR steering
- 01:00 : Beam dumped
- 01:00 – 02:00 – Ramping down
- 02:00 - 03:00: Back at 450 GeV – Colliding bunch pattern
  Single_2b_1_1_1 with B1 (1, 17851), B2 (1, 8911) - Checking beams
- 03:00 – 04:00 : Ramping to 3.5 TeV
- 04:00 …. Preparation for stable beams