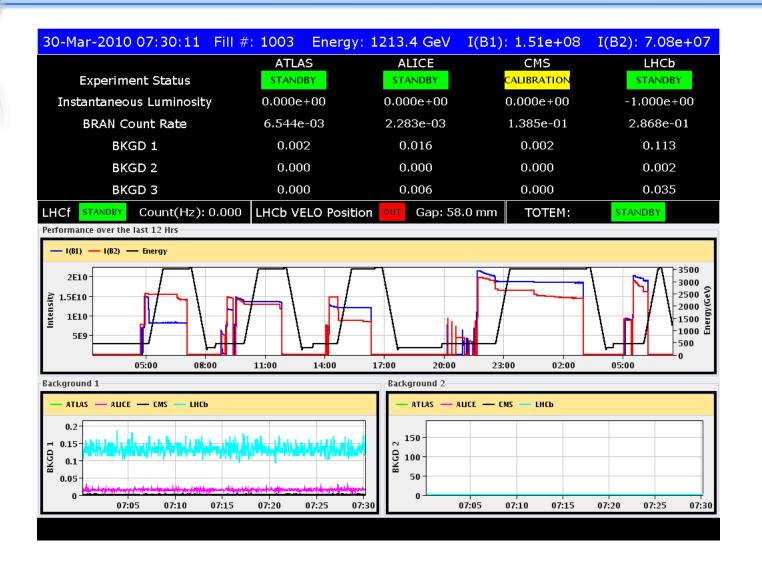


29-30/3/2010



- Ramp to 3.5 TeV
- Simulation of asynchronous beam dump

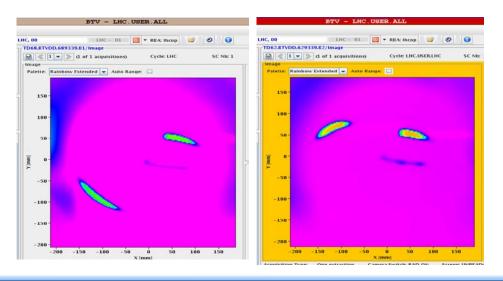
Switch off the RF - De-bunched beam

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

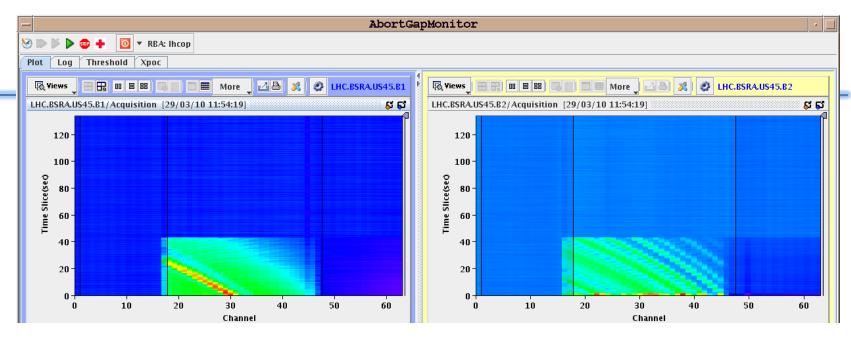
Losses only on protection devices in P6, and collimators in P7 and P3.

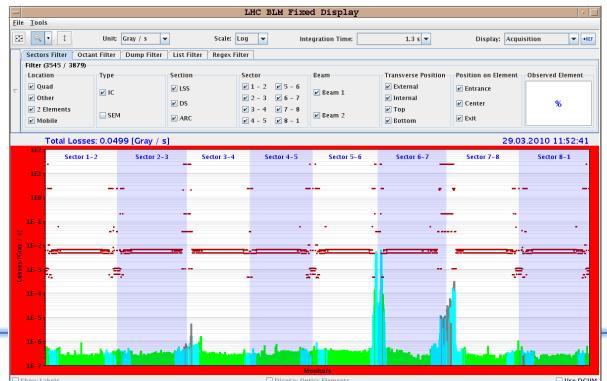
Looks good - more detailed analysis of PM and experiment data to come

No losses seen by the experiments



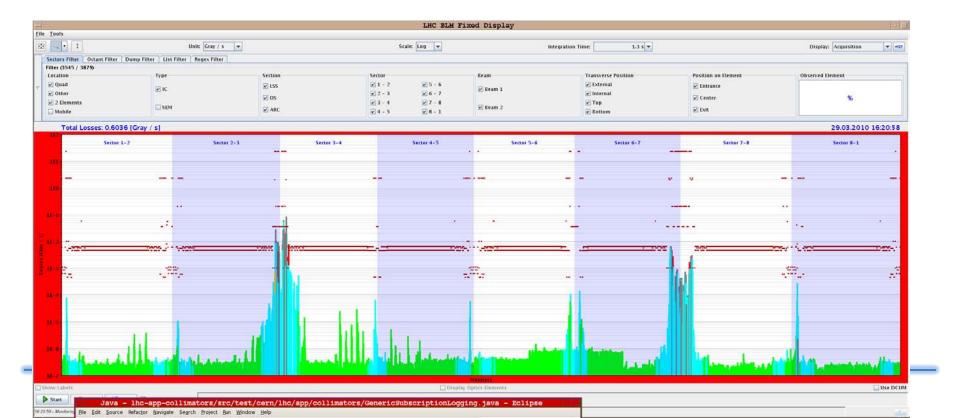






Monday 29/3/2010

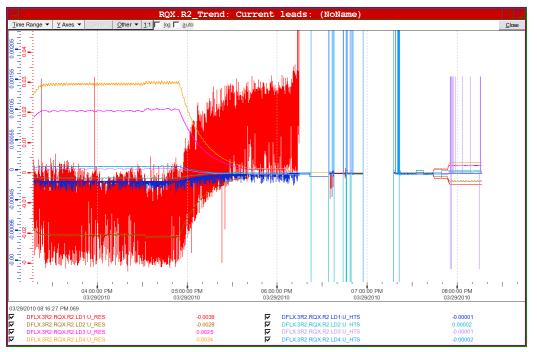
- Afternoon (Ramp #2): Continue tests at 3.5 TeV
 - Tests stable beam flag on/off Done (16:00 16:15)
 - Energy off set to verify containment of off-momentum losses in IR3 (16:20 - change RF by +600 Hz)



Monday 29/3/2010

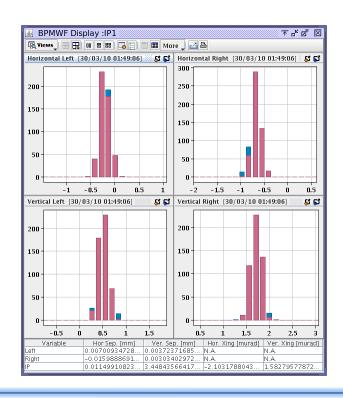
- Some leakage seen in the experiments
- Momentum collimation is safe for the machine. Safely below damage limit of tertiary collimators.
- ALICE: no losses seen
- ATLAS:
 - The biggest losses are in the ZDC (TAN), i.e. closest to the TCT
 - BCM would have fired an abort (at nominal settings); but the losses are much smaller than what was observed last Friday.
- CMS:
 - There were losses: these were >100 times normal background rates. There was no unambigious signal on the Beam Conditions monitor, so we can set an upper limit of the losses being <1% of the ABORT level.
- LHCb: no losses seen

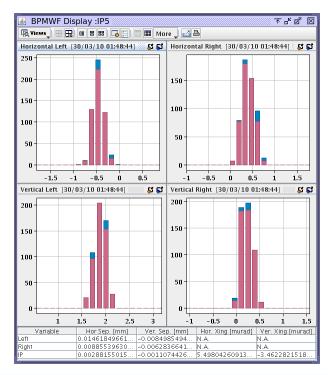
18:00 - 20:00 : Access in UA27 to fix problem with voltage measurement on current lead for RQX.R2 - Bad connector found and repaired



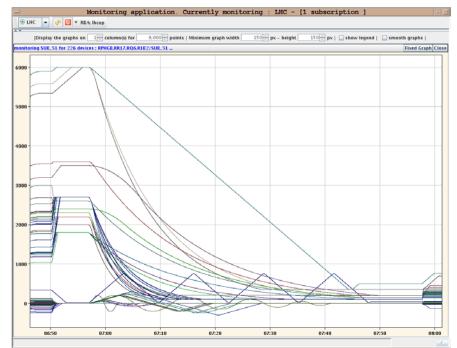
- 21:00 22:35 : Injection and beam adjustment
- 22:35 23:25 : Ramping at 3.5 TeV (Ramp #3)- Non colliding buckets B1 (1, 17851), B2 (1001, 9911) 9e9 per bunch Everything unmasked

- 01:10 STABLE BEAMS: non-colliding pattern
- 01:10 03:00 : Beam left at 3.5 TeV
- get feedbacks from experiments from beam gas:
 - LHCb IP8: B1 is lower than B2 by 280 μ m: trimmed V +140 μ m B1 and -140 μ m B2
 - CMS: V is ~100um offset (B2 is lower than B1) but difference is at the 1 sigma level

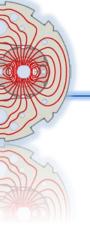




- ²05:00: start filling B1 (1, 17851), B2 (1, 8911)
- 06:02 started ramp
- 06:17 RQT12.R4B1 tripped (power converter) beams lost
- Pre-cycled



- Injection started at 08:00
- Ramp starting



...Ready for Collision