



# L1Calo Operations Summary

Murrough Landon  
25 July 2011

- LHC
- ATLAS
- L1Calo



- Only just really recovered from the technical stop
- Slow ramped up back to 1380 bunches
  - New record instantaneous luminosity
  - But vacuum and “UFOs” still worse than before the TS
    - Many short fills aborted after minutes or a couple of hours
  - Various other cryo problems and trips
    - Including CMS beam monitors
  - No very long fills recently, but gradually getting better
    - But only four weeks to go until the next TS!
- “Mini Chamonix” workshop
  - Further lumi improvements look possible
    - Higher bunch intensity ( $1.6e11$ ), lower emittance ( $2\mu\text{mrad}$ )
    - And during/after next TS,  $\beta^*$  down to 1m
    - Lumi could be  $3.5e33$  before TS and over  $5e33$  by the end of 2011



# ATLAS/Operations

- ATLAS working fairly smoothly
  - Apart from a melted RPC connector
  - And problems with some recently replaced ROSES
- News from the OPM meeting
  - Planning for the next TS
  - Nothing affecting L1Calo?



# L1Calo Activities

- Some hot towers in HEC
  - One LAr HEC cell killed
  - Another few noisy HEC cells quietened down by themselves
- Tile gains updated for recovered drawer LBA24
- Still need a few gain updates in LAr
  - See slides from Juraj (attached to the agenda & next page)
- Scope set up in USA15 to look at Physics pulses
  - Maybe no need for PHOS4 scan with beam?
    - Although online SW to support this is now implemented
- And probably some other things I missed...



## Calibration: summary from Juraj

- Tile gains have been updated for LBA24
- Several other Tile regions may need our attention
- LAr update due to HV changes ?
- Effect of missing back layer in bad FEB region looks small, no need to change calibration gains
- (what is the status with timing in this region?)