



# L1Calo Operations Summary

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- LHC
- ATLAS
- L1Calo



- Running well, several new records
  - Record fills (>24 hours in stable beams, 100 pb<sup>-1</sup> per fill)
  - Instantaneous lumi 2.1e33 (increasing adiabatically)
  - Integrated lumi for 2011 > 2 fb<sup>-1</sup> (400 pb<sup>-1</sup> last week)
  - Turn around between dump and stable beams 2h12
    - Very short or no calibration breaks
  - First programmed dump since June!
- Back to longer fills
  - Some still ended by variety of faults:
    - RF trips, UFOs, single event upsets, etc
    - One dump by ATLAS BLM ("UFino" in inner triplet magnets)



# ATLAS/Operations

- ATLAS still working fairly smoothly
  - Some event building problems due to faulty pixel ROS
    - One of a set of new ROS machines recently replaced
- News from the OPM meeting
  - Nothing affecting L1Calo?
  - Potential problem: magnet bus bar warming slowly...
    - Would need major 10 day intervention to fix the underlying problem
    - Hope to survive until winter shutdown



# L1Calo Activities

- Generally smooth L1Calo operation
- Receiver gains updated for 4 LAr towers (HV change)
  - 4 other EMEC-C towers need gain change
    - LAr HV updated just after last L1Calo calibration
- Example plots for OHP updated
  - For the first time since the 2008 combined cosmics!
- Online DQ spike
  - DQ shifter in control room marked L1Calo as RED for 16 LB
    - Short spike in rates turns L1Calo\_Rates DQ RED for ~10mins
    - Need to clarify instructions to DQ shifter...
- L1Calo errors seen in monitoring
  - A side effect of event building problems (faulty pixel ROS)
  - Also one L1Calo-CTP error: being investigated...