



# Calibration Summary

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(with help from Juraj)  
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- Recent developments
- Archiving Run 1 code
- Preparations for Run 2



# Run 1 Calibrations

- Not much recent work!
  - Run 1 calibration studies generally finished...
    - ...except for Ruth still looking at Tile calibration issues
- Archiving code
  - We hoped to archive all calibration analysis code
    - Save work done by various students in a common area
      - Hopefully with a little documentation (we can always dream!)
    - Easier to get a new generation restarted on Run 2 analyses
  - Set up area in ATLAS groups SVN repository
    - <https://svnweb.cern.ch/trac/atlasgroups/browser/Trigger/L1Calo/Calibration>
    - (Also <https://svnweb.cern.ch/trac/atlasgroups/browser/Trigger/L1Calo/Simulation> for simulation studies)
  - Done by Mark Levy (e isolation) and Andrew Daniells (pileup)
    - Also by Craig Wiglesworth (gain predictor elsewhere in SVN)
  - Reminder to others to follow their excellent example!



# Preparing for Run 2 (1)

- Systematic hardware checks within L1Calo
  - DAC and Pedestal scans with new MCMs
  - Ditto "PHOS4" scans
    - Do we need a new name for these?!
  - Digital timing scans
    - Latency of PPM outputs with new MCMs
    - Operation of CPM/JEM backplane scans after SW changes
    - New timing scans for high speed CMX
    - CMX inputs to L1Topo



# Preparing for Run 2 (2)

## • Test with Calorimeters

- Basic connectivity checking

- Can we find Damiens tools? [Saw Damien yesterday: LAr GainDB/python]

- Recommissioning calorimeter signals with LAr/Tile experts

- Confirming fixed problems, looking for (and fixing) any new problems

- Standard and special calibrations (layer scans etc)

- All to be done before LAr/Tile lose access

## • Stability and SW versions...?

- LAr/Tile want to stick with tdaq-04-00-01 until mid 2014

- Keep software stable while testing changes in the shutdown

- However L1Calo will need new SW for the new MCMs

- We will have to keep compatible with tdaq-04-00-01 for joint tests

- However installation of new MCMs will overlap LAr/Tile shutdown work

- So the trigger branch will not be completely stable

- Is there a preferred order for installing nMCMs? First/last PP crate?



# Summary

- It was a short talk!