



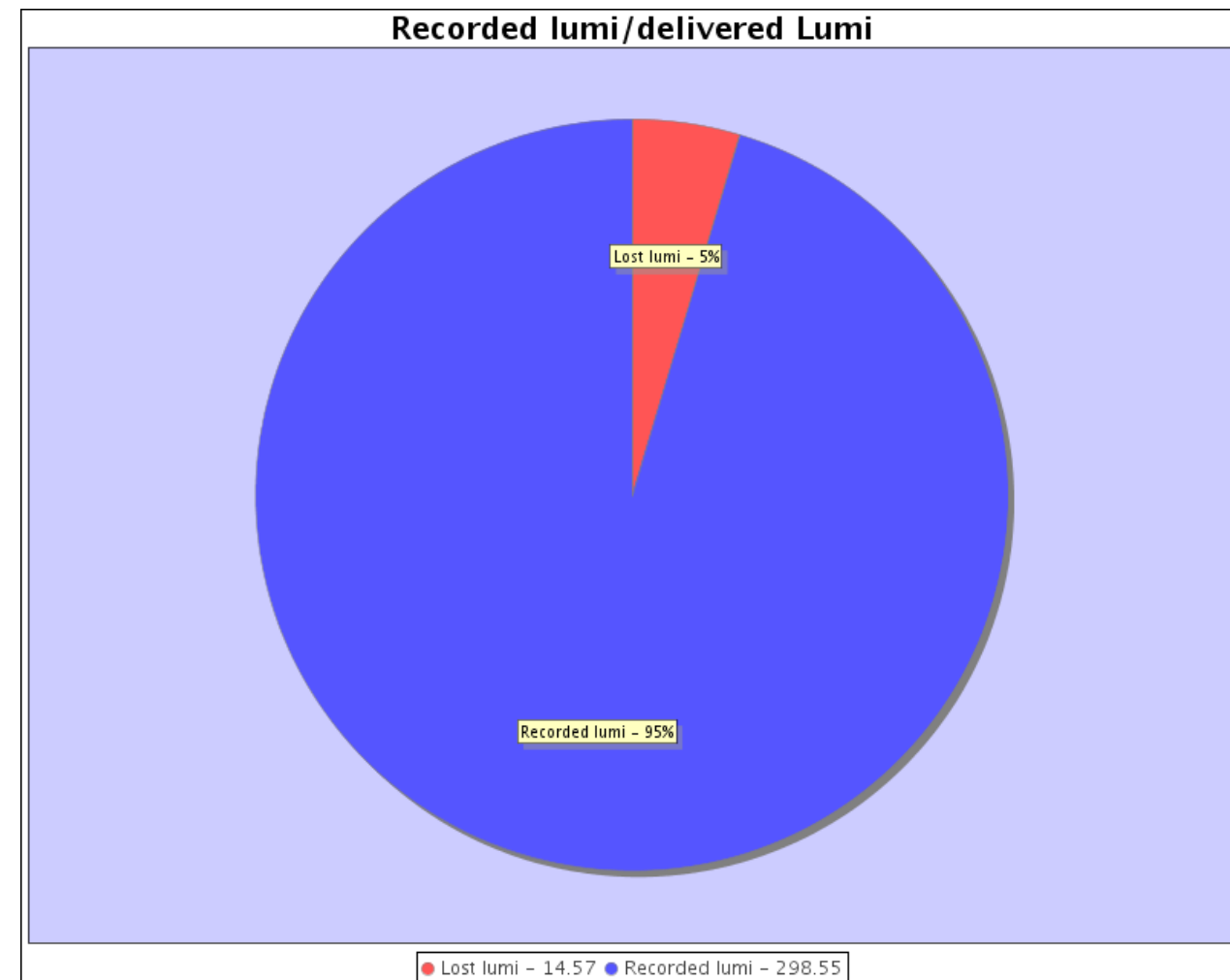
# DoC/DGL Report

November 13-19 2017  
PFG Meeting

Tanvi Wamorkar , Andrea Beschi

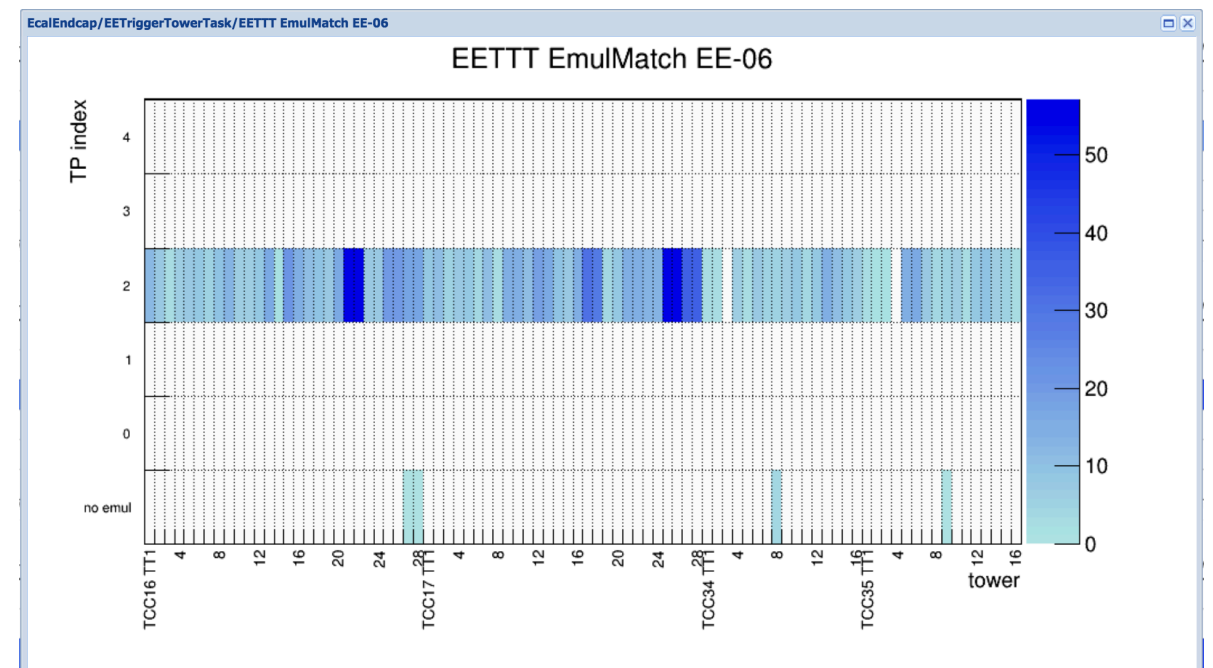
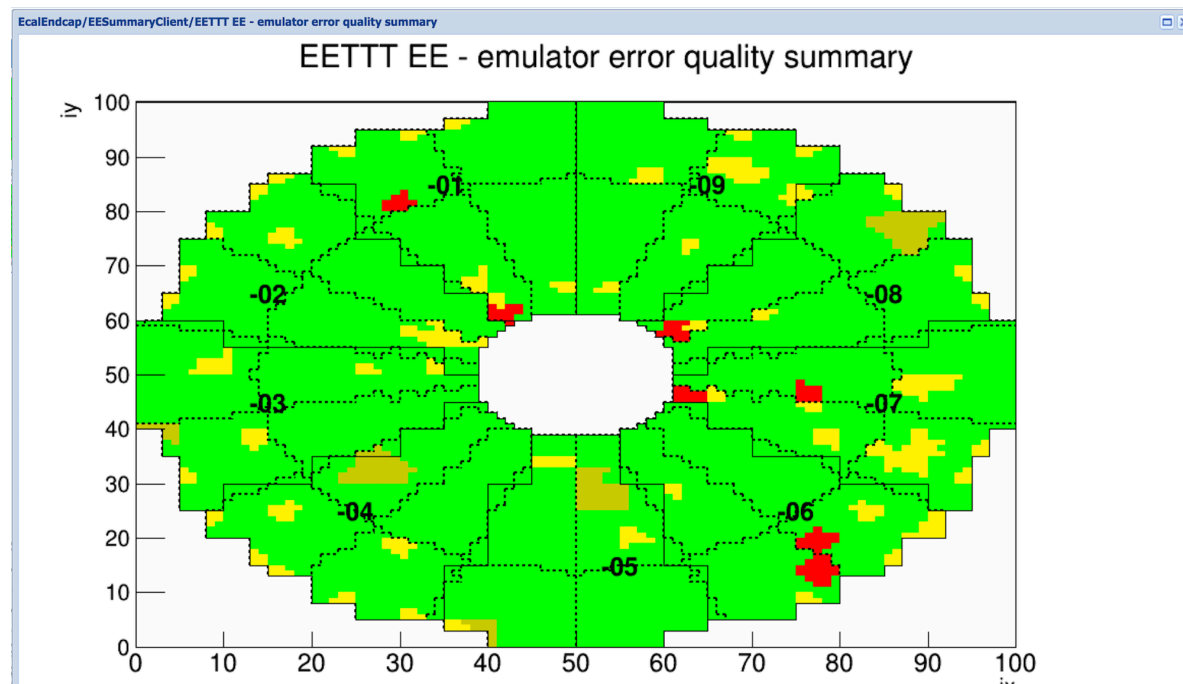
# Overview of the Week

- p-p reference runs at 5 TeV with long fills >24h
  - Fill 6384 - 6398
  - ~300/pb recorded luminosity
- Smooth week for ECAL and ES
- Good performance! only ~0.17/pb **lost lumi** due to ECAL



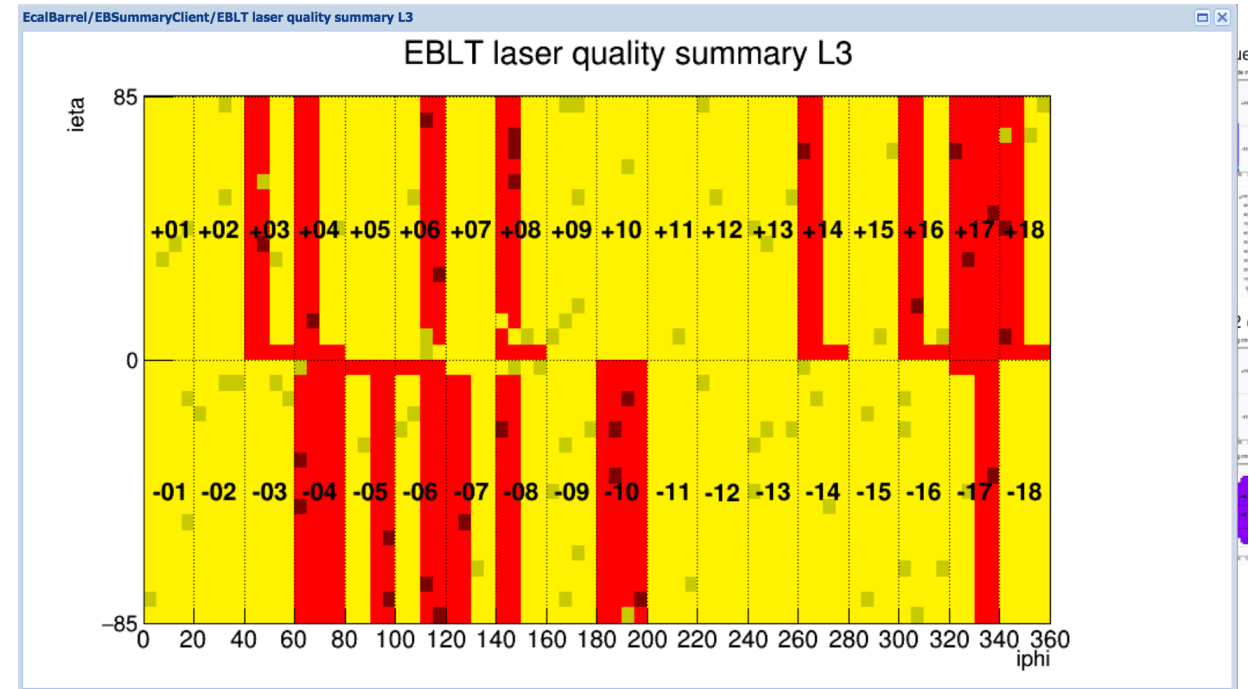
# Day by day : Monday

- Before the 1800b fill
  - ES conditions switched to HG
  - ES online pedestals switched to HG
  - cDAQ shifter informed to manually switch the ES run key to HighGain-TCDS
- Run 306580 ELOG
  - cDQM shifter called to inform about red clusters in EE-06 Emulator quality summary plot
  - From the Emulation plot it was found that there were some towers with no emulation
  - No action needed
  - Instructions for this already exist in long term DQM instructions



# Day by day : Monday (2)

- Run 306584 ELOG



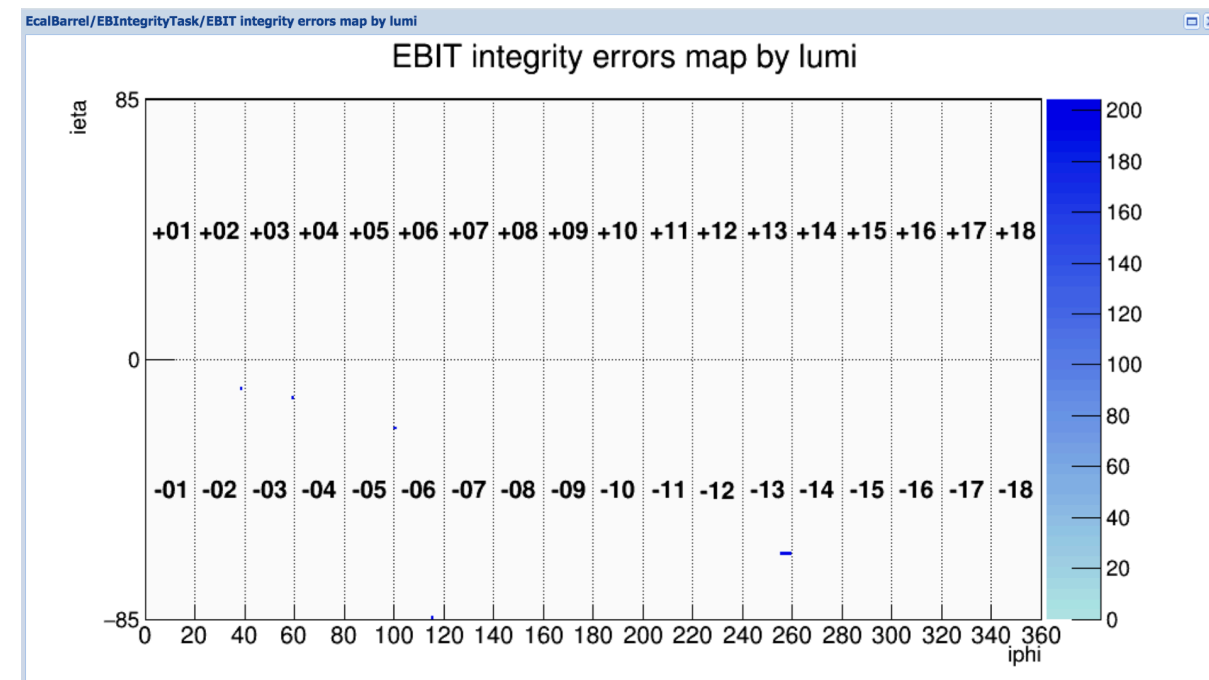
- Red clusters seen in Laser 3 (Blue) quality summary plot
- Laser expert was contacted
  - Around 18:00h the blue laser DP2-1 stopped automatically , error on laser was “Error Low Flow” , but nothing was found bad. (Fake error message ?)
  - Spare blue laser DP2-2 was put into use
  - ECAL DAQ expert made a change in the calibration sequence to load the spare blue laser and this was followed by RR of ECAL
  - The problem still persisted and it was found that change in calibration sequence was not needed and the original sequence was restored
  - Data still good for physics

## Day by day : Tuesday

- 1800b was dumped around 10:30 h
- ES conditions were switched back from HG to LG
- ECAL in local to take **pedestals** and to **update laser transparency corrections**
  - ECAL pedestals run : 306606
  - ECAL test pulses run : 306612
  - Runs were reprocessed with full statistics and are available on ECAL private DQM and on ECAL Cond DB
- Pedestals measurements also done for ES
- ECAL/ES was back in global starting Run 306621
- Smooth running for the rest of the day

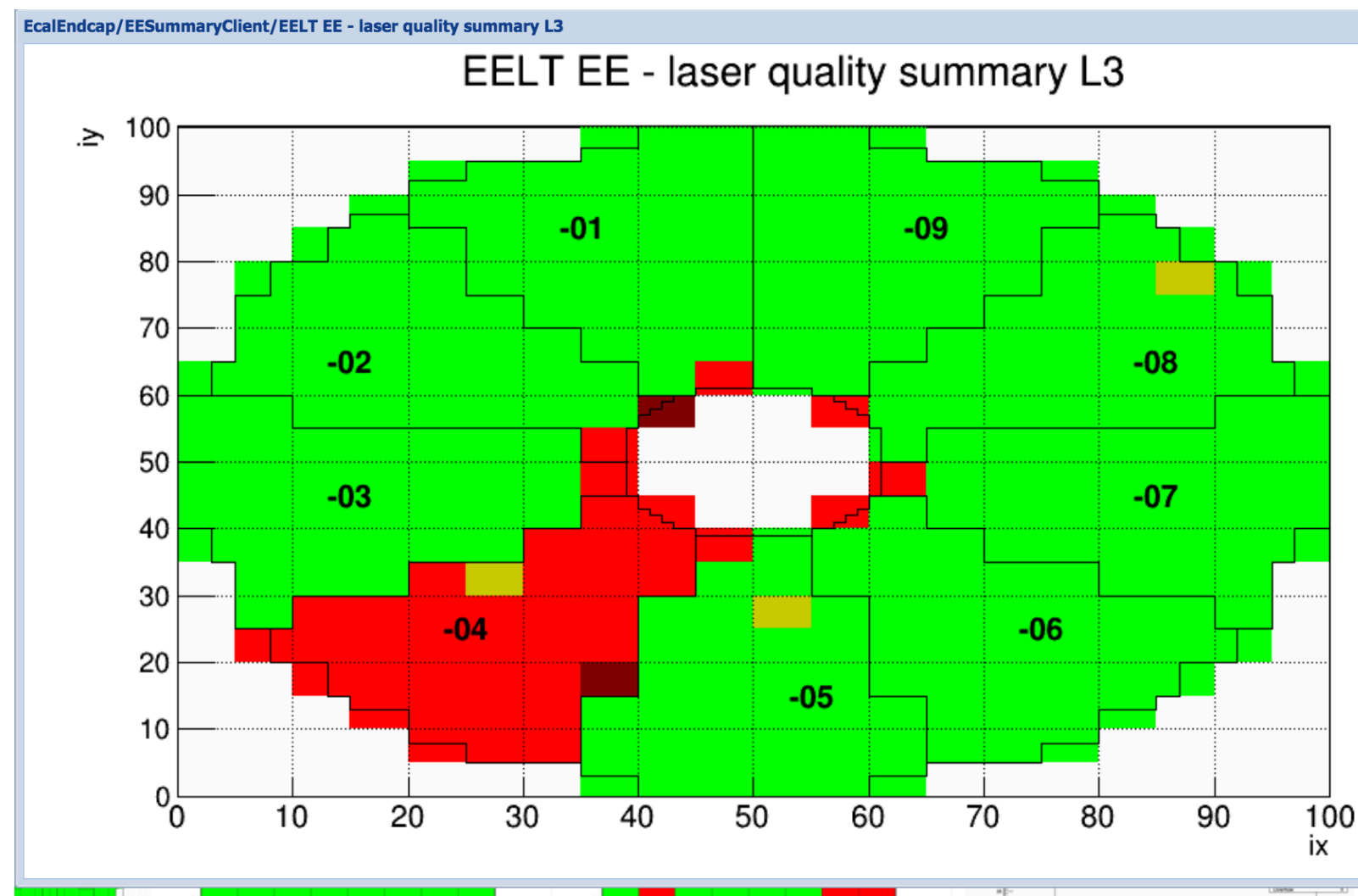
# Day by day : Wednesday

- Run 306670
  - ECAL + ES were put in Local for GEM's high rate tests
  - During time in local : code modification done for two TCC boards : TCC18 and TCC88. The code update was first tested in miniDAQ and then deployed in Global when ECAL was put back in global during Run 306696
- Run 306702 (circulating; beams in adjust)
  - ECAL failed a number of times while trying to configure - ECAL was not able to communicate with a crate
  - Reconfigure was successful on the 3rd try
- Immediately after this integrity errors were seen in EB+08
  - Errors not seen in the “by Lumisection” plot
  - No action needed
- Run 306705 ELOG
  - cDQM shifter called to report about Integrity errors in EB-06
  - Integrity errors only appeared for some isolated towers and faded away after a while
  - No action was needed



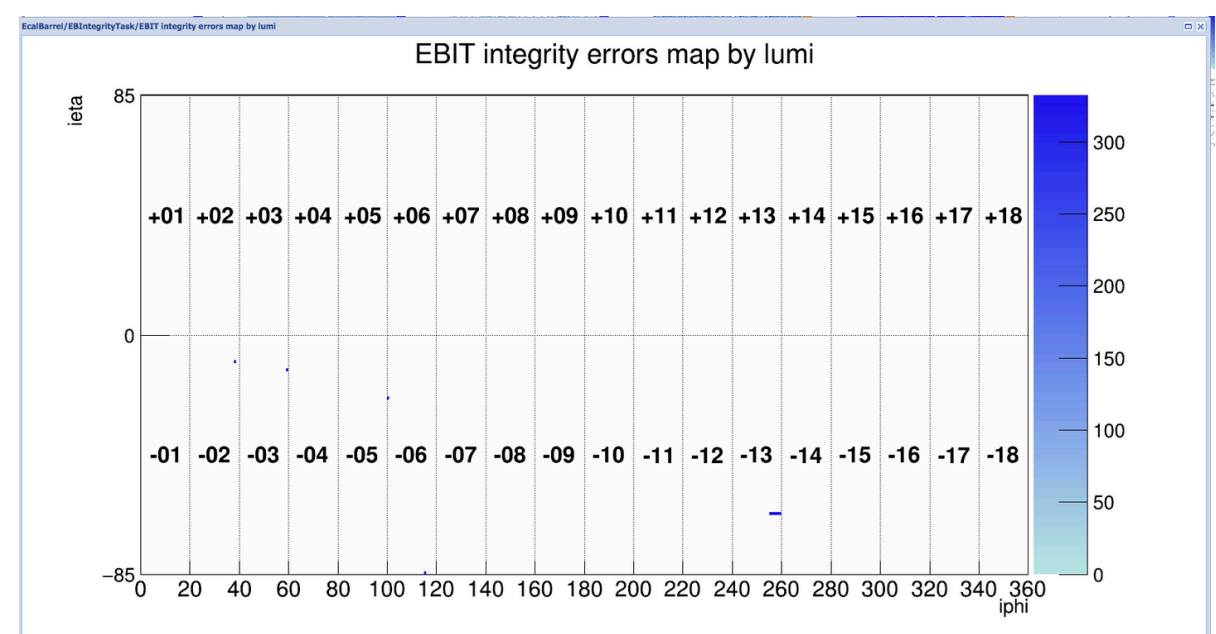
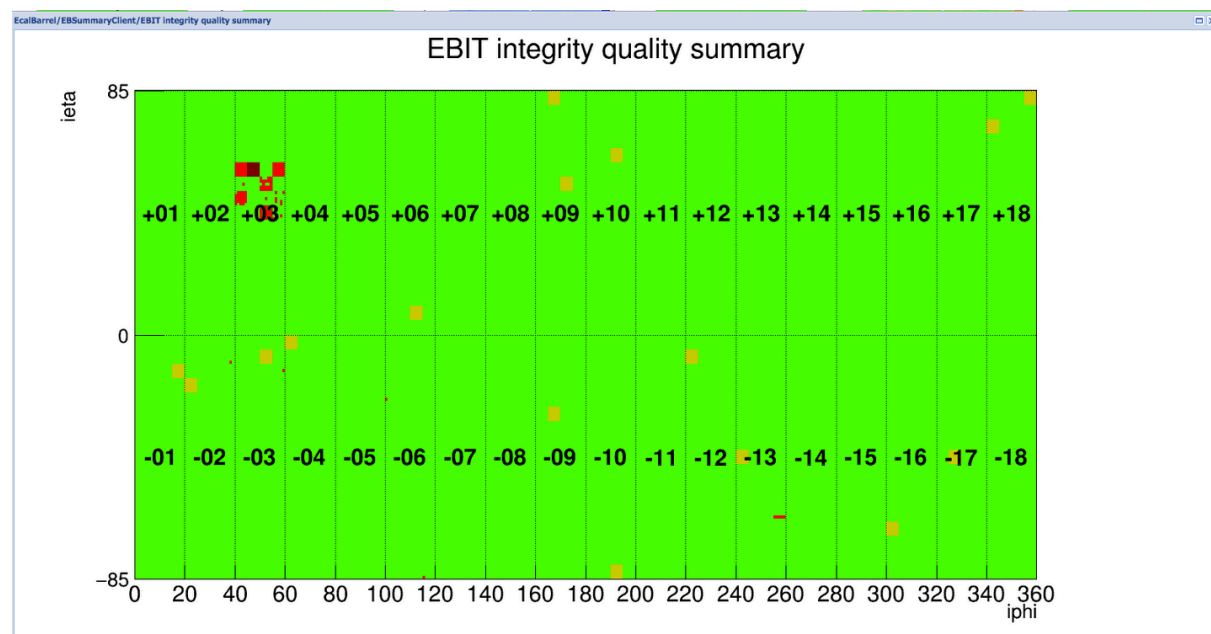
# Day by day : Wednesday (2)

- Run 306706 (Cosmics): ELOG
  - cDQM shifter called to inform about red clusters in EE-04 L3 laser quality summary plot
  - Laser expert contacted
  - No problem was found with the laser and no action was needed



# Day by day : Thursday

- Run 306709 (Collisions): ELOG
  - cDQM shifter called to inform about red clusters in EB +03 integrity quality summary plot
  - No errors seen in the “by lumi” plot
  - No action needed



- Beam was dumped ~14:10h
  - Run 306711 first run (cosmic) after beam dump
  - Since the interfill was only ~1 hour, this was not enough time to do SPR measurement
  - Laser transparency corrections were updated in DB



## Day by day : Friday

- Quiet day

## Day by day : Saturday

- Beam dump occurred at 12:02h
  - Laser transparency correction updated by Jean
  - Run 306791 : ECAL was put in global following a RR

## Day by day : Sunday

- Quiet day for ECAL