

PFG Shifter Report

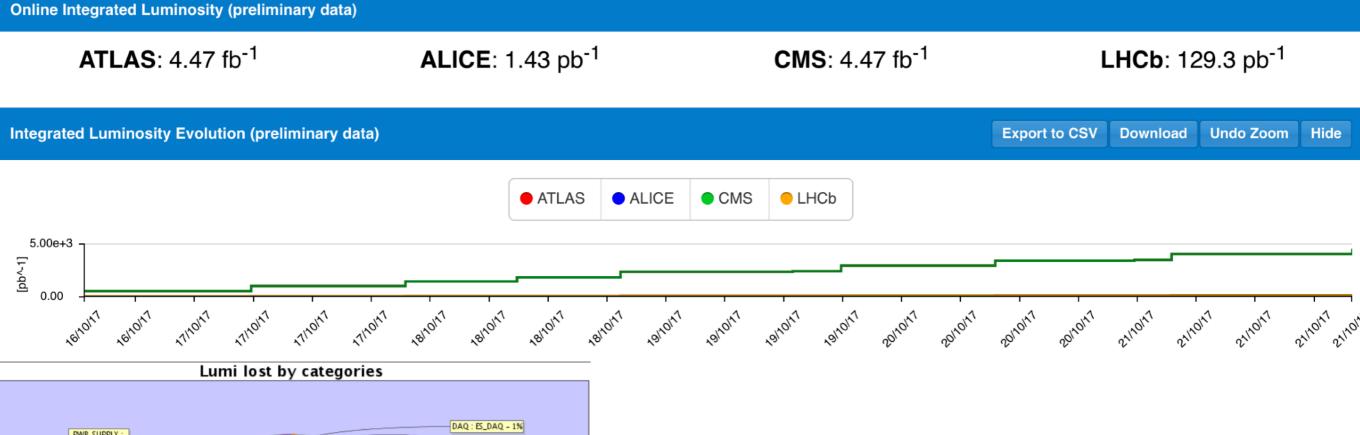
ECAL PFG Meeting 23/10/2017

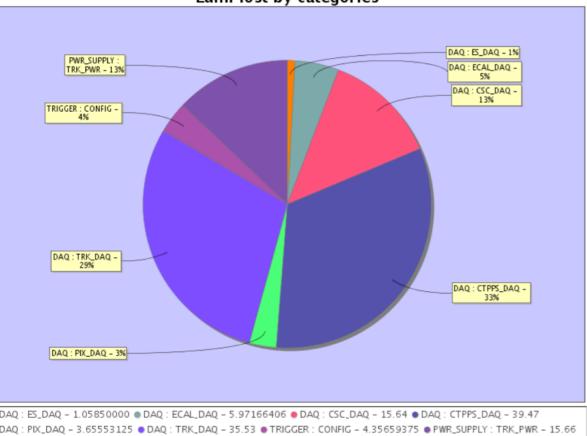
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LHC and CMS Status

Total recorded Lumi ~4.2 /fb last week - 16/10/2017-21/10/2017





Details on next slide

LHC and CMS Status

ECAL Deadtime

Fill 6304

Run 305178 - part of ECAL in error

Stop and restart of run

• Lumi lost : 2.19 pb -1

16/10/2017

Lumi Lost

ECAL - 8.86 pb -1

ES - 1.05 pb -1

Run 305183 - ECAL SEU causing high L1 trigger rate

Lumi lost: 3.77 pb -1

Fill 6305

Run 305199 (Circulating)

• EB+ stuck, TTC hard reset

• Lumi lost: 0

Fill 6317

Run 305405

High L1 trigger rates

ECAL was red recycled to fix the problem

• Lumi lost: 2.89 pb-1

17/10/2017

ES Deadtime

Fill 6307

Run 305237

TTS state error

Auto recovery

• Lumi Lost: 0

Fill 6312

Run 305341

• Downtime only for 32 s

Lumi Lost: 0

22/10/2017

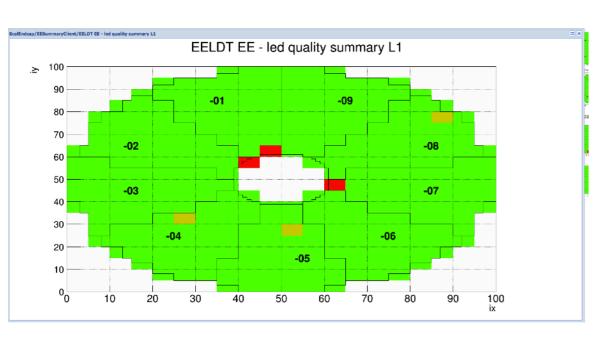
18/10/2017

20/10/2017

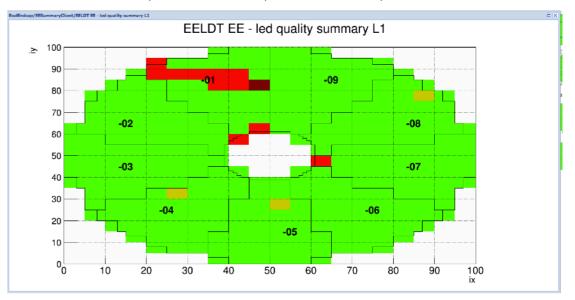


Red channels in Online DQM LED Quality L1 summary plots

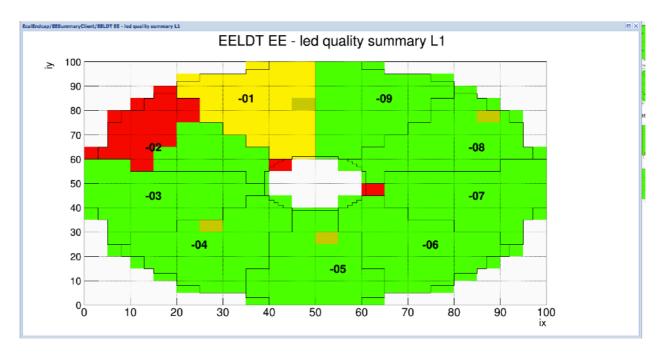
Run 305282



Runs 305310,305311,305312,305313,30 5314,305336,305341,305351



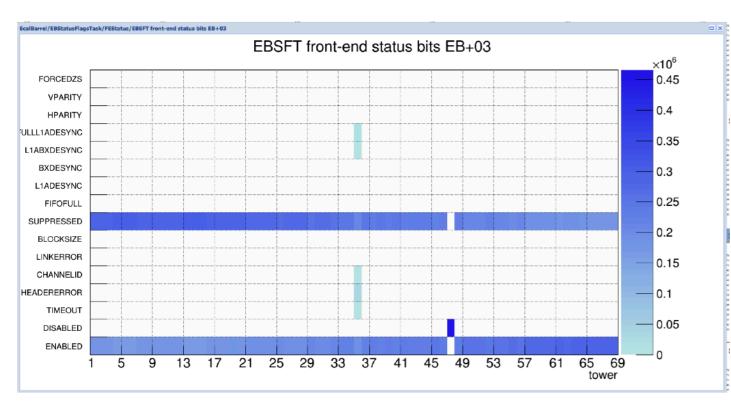
Run 305358

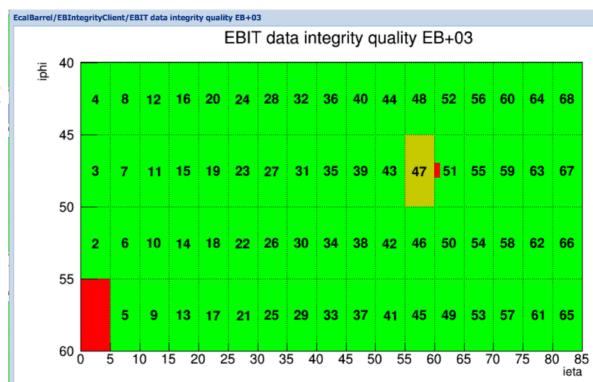


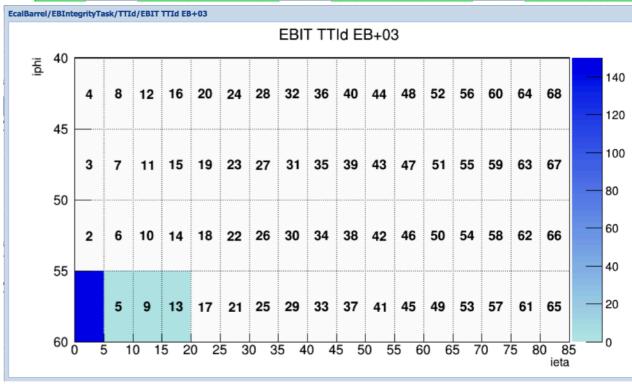


Red channel in EB +03 Data integrity quality plot

- Recurrent problem in several runs <u>304562</u>, <u>304654</u>, <u>304661</u>, <u>306662</u>, <u>304663</u>, <u>305045</u>
- Similar red channels in data integrity quality also seen last week for EB+03





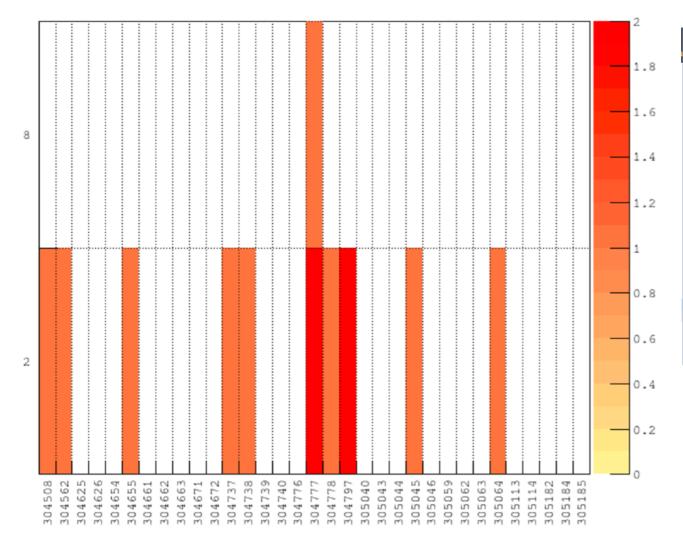


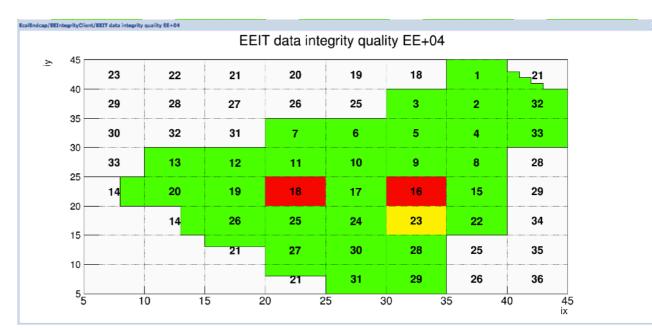


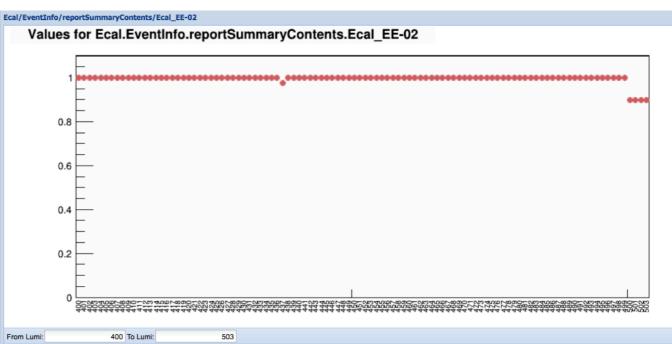
Run 304777

 Integrity quality problems in EE+04 TT 16,18

FE Error cluster size







LS 500-503 invalidated

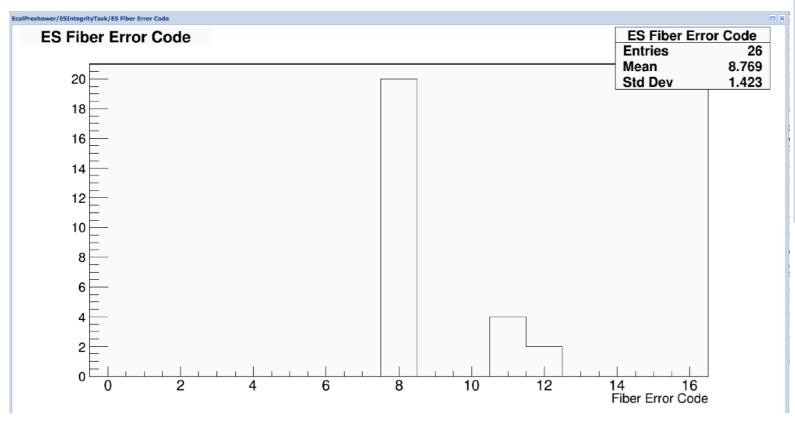


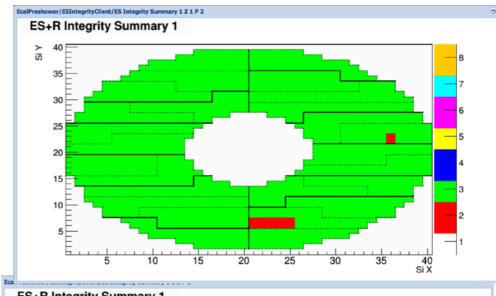
(ES+R) Runs 304508,304663,304562,304625,304654,304655,304663,304671,304738

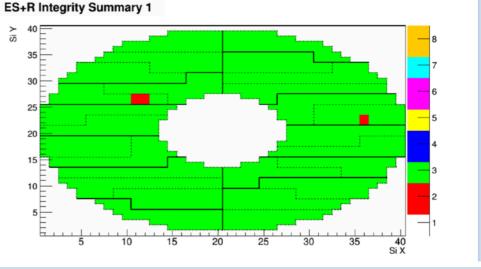
(ES+F) Runs <u>305114,305113,305064</u>

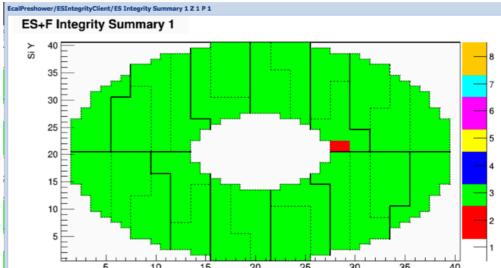
- Number of entries with errors are less than 1%
- Runs certified as GOOD

Run 304508





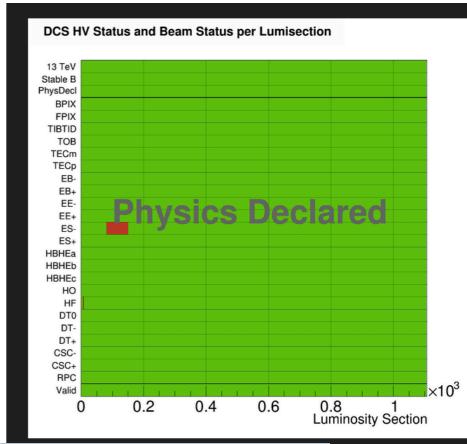


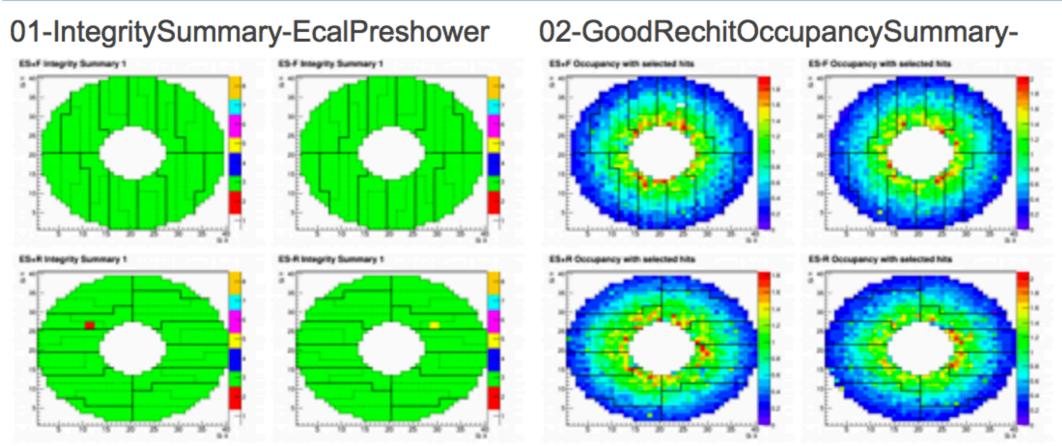




Run 305377

- Problem with ES HV channel
- Run consisted of 1537 LS
- HV fail happened naturally during LS 81-151
- Since data quality on DQM looked OK it was decided to not mask the LS's as BAD







Offline Run Certification

41 Runs were certified last week (Express Stream Runs):

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305178, 305179, 305180, 305182, 305183, 305184, 305185, 305186, 305187, 305188, 305202, 305203, 305204, 305207, 305208, 305234, 305236, 305237, 305247, 305248, 305249,305250, 305252, 305282,305310,305311,305312,305313, 305314,305336,305338,305341,305349,305350,305351,305358, 305364, 305365, 305376, 305377
```

All GOOD

Data Certification for this Week

• Runs to be certified by Oct 23'17 23:59:

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304508, 304562, 304625, 304626, 304654, 304655, 304661, 304662, 304663, 304671, 304672, 304737, 304738, 304739, 304740, 304776, 304777, 304778, 304797, 305040, 305043, 305044, 305045, 305046, 305059, 305062, 305063, 305064, 305113, 305114, 305182, 305184, 305185, 304899, 304906, 304907
```

- Xe-Xe runs Runs
- Run 304777 LS invalidated 500-503 (8 FE cluster size errors)

Good: Single Photon and Single Electron dataset based Offline DQM plots look as expected, still need final certification in RR