

# Pixel updates for MC & Prompt/ReRECO

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# DIGI-RECO MC Production

Two conditions updated:

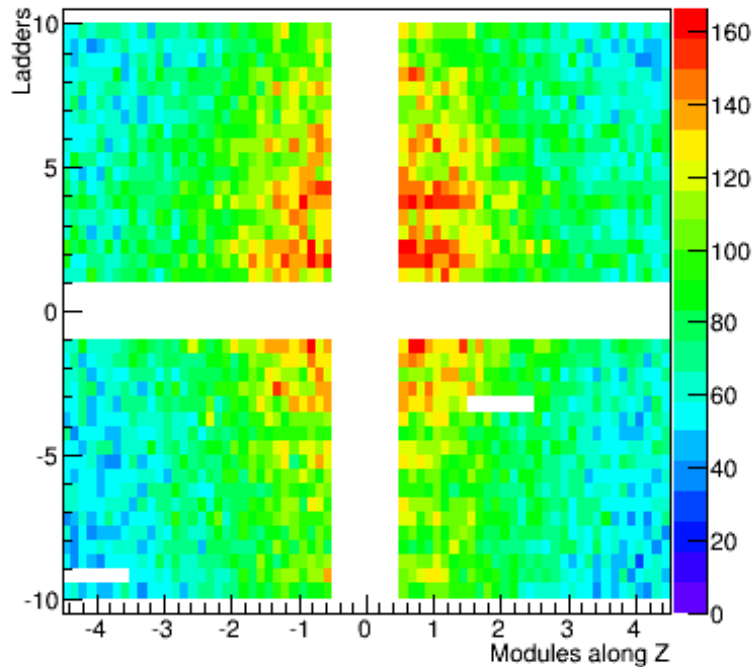
- *Bad module list*
- *Dynamic inefficiency simulation*

Both of them have effect in the DIGI step

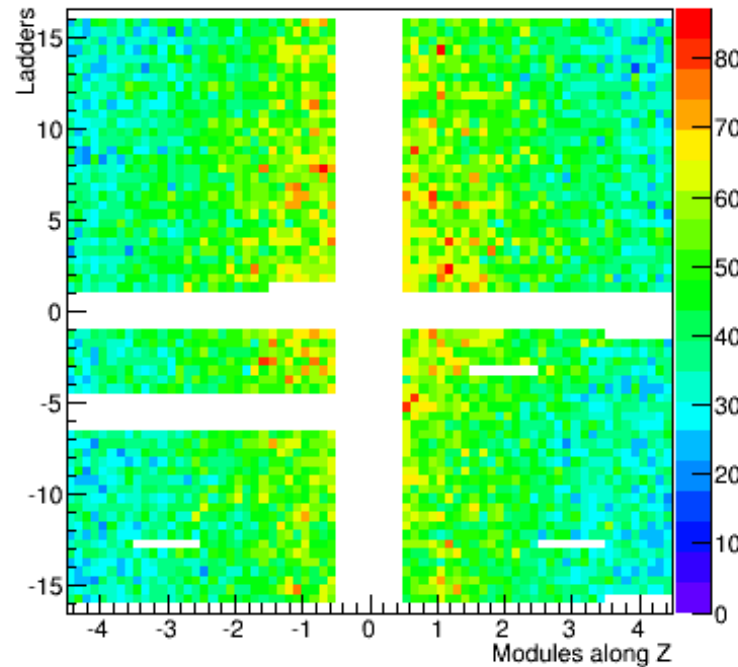
SiPixelQuality

# SiPixelQuality\_v36\_mc

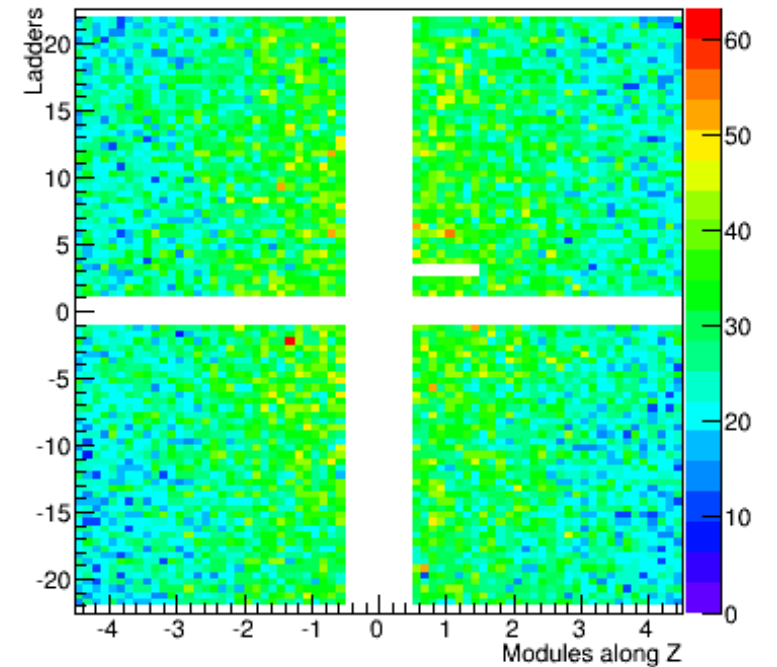
Layer 1



Layer 2



Layer 3



Detector status from 2016-07-07 until so far

# Difference between v28 and v36

v28		v36
2015-09-04		2016-07-07
14 bad whole module	-2	12 bad whole module
2 bad half module	+3	5 bad half module
0 bad ROC	+1	1 bad ROC

# SiPixelQuality\_v36\_mc

Uploaded to Prod on 2016-08-06

Queued to RunII queues on 2016-08-06

# Dynamic Inefficiency

# SiPixelDynamicInefficiency\_13TeV\_v3\_mc

Presentation by Janos on the Tracker DPG Meeting ([link](#))

Presentation by me on the last AlCaDB Meeting ([link](#))

New double column efficiency parametrization

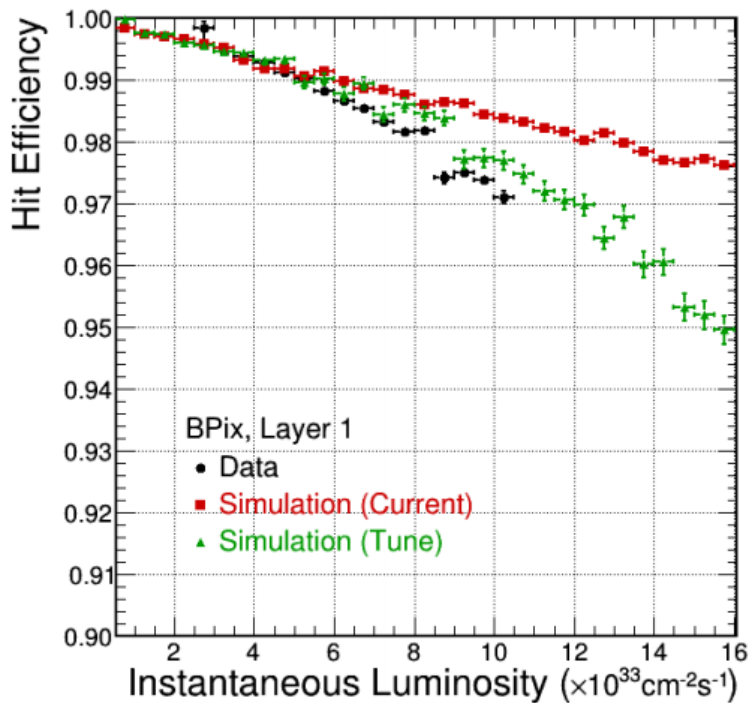
Convert hit efficiency to simulated double column loss,

Then fit with 2nd (layer 1 only) and 1st order polynomial

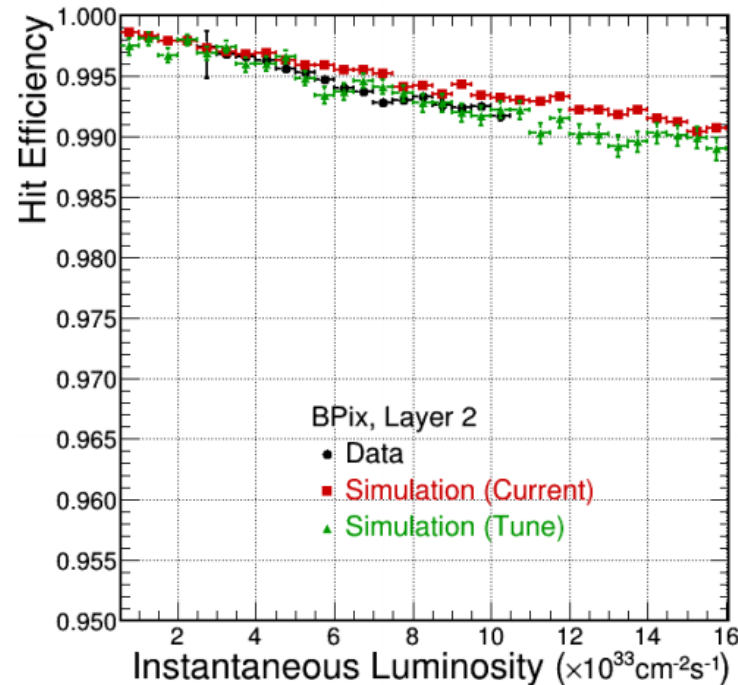


# SiPixelDynamicInefficiency\_13TeV\_v3\_mc

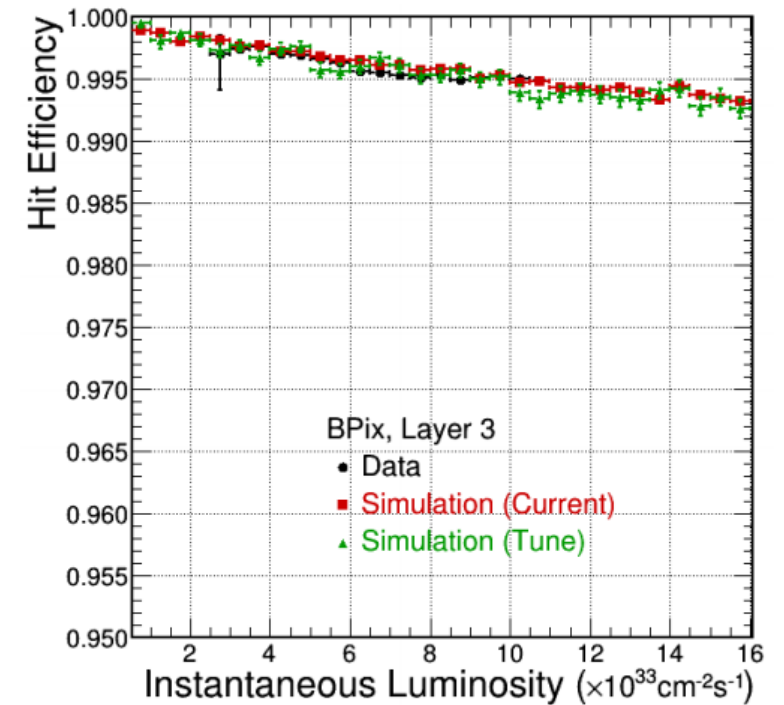
Layer 1



Layer 2



Layer 3



# SiPixelDynamicInefficiency\_13TeV\_v3\_mc

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Prompt/ReRECO

# Data reco news

Gain calibration carried out last week  
Fast validation was asked yesterday  
TSG was contacted today

We foresee to have new Lorentz Angle/GenError/Template payloads

# Timeline

1 calibration at each Technical Stop

1 pending gain update and LA/GenErr/Template update in max 2 week

2 foreseen updates during TS2 and TS3

CDC ALCARECO  
production

# CDC ALCARECO production

Anirban asked me to inquire about the CDC ALCARECO production

Request to ask PdmV to reprocess the /NoBPTX/Run2016\*v2/RAW  
[\*=C,D,E] datasets and produce the ALCARECO output.

Gaelle agreed to be the tracker contact to follow up with the production