

Status Report on Pixel DB Conditions

Tamas Almos VAMI
for the Pixel Group

Wigner RCP,
Hungarian Academy of Sciences, Budapest

AlCaDB Meeting, Monday, July 27, 2015



SiPixelQuality

- ▶ Bad modules of the detector
- ▶ 3.8 T Magnetic field →
BmO_Sec3 problem appears again
- ▶ Update on the Quality was needed

SiPixelQuality - tags

- ▶ Record: SiPixelQualityFromDbRcd
- ▶ For ReReco
 - ▶ Tag: *SiPixelQuality_v04_offline*
 - ▶ No validation needed
- ▶ For HLT
 - ▶ Tag: *SiPixelQuality_v03_dup_hlt*
 - ▶ FastTrack validation needed
 - ▶ Tag: *SiPixelQuality_v2_hltvalidation*

SiPixelQuality - tags

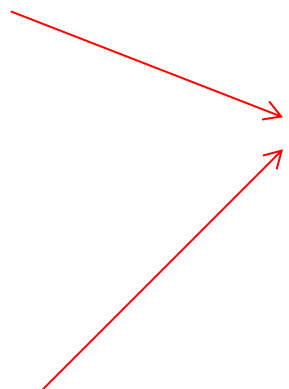
- ▶ Record: SiPixelQualityFromDbRcd

- ▶ For ReReco

- ▶ Tag: *SiPixelQuality_v04_offline*
- ▶ No validation needed

- ▶ For HLT

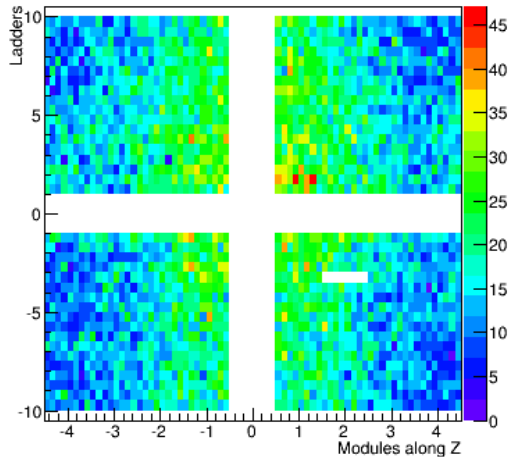
- ▶ Tag: *SiPixelQuality_v03_dup_hlt*
- ▶ FastTrack validation needed
 - ▶ Tag: *SiPixelQuality_v2_hltvalidation*



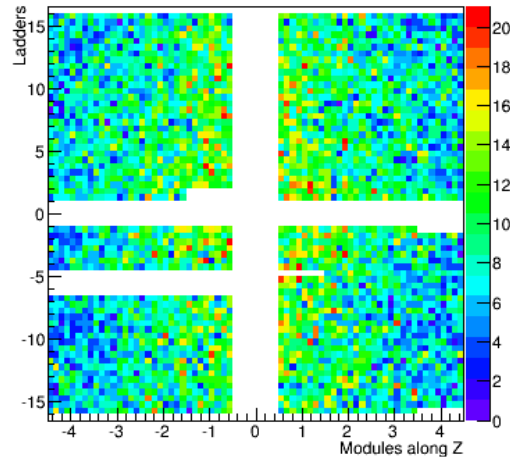
Contains
SiPixelQuality_v27
IOV from 251722

SiPixelQuality – data map

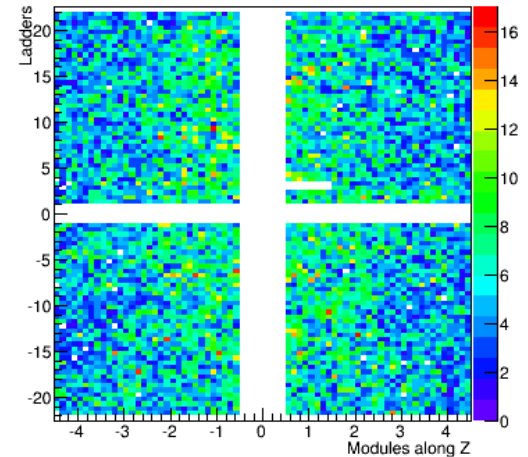
Layer 1



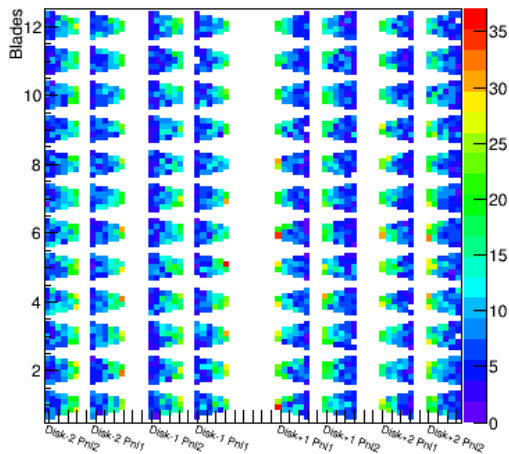
Layer 2



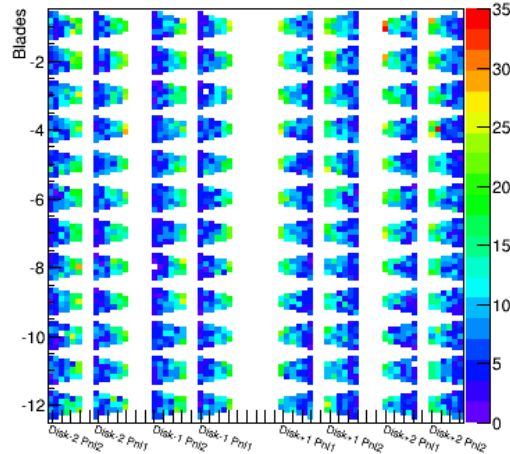
Layer 3



FPix Inner Shells (+x)

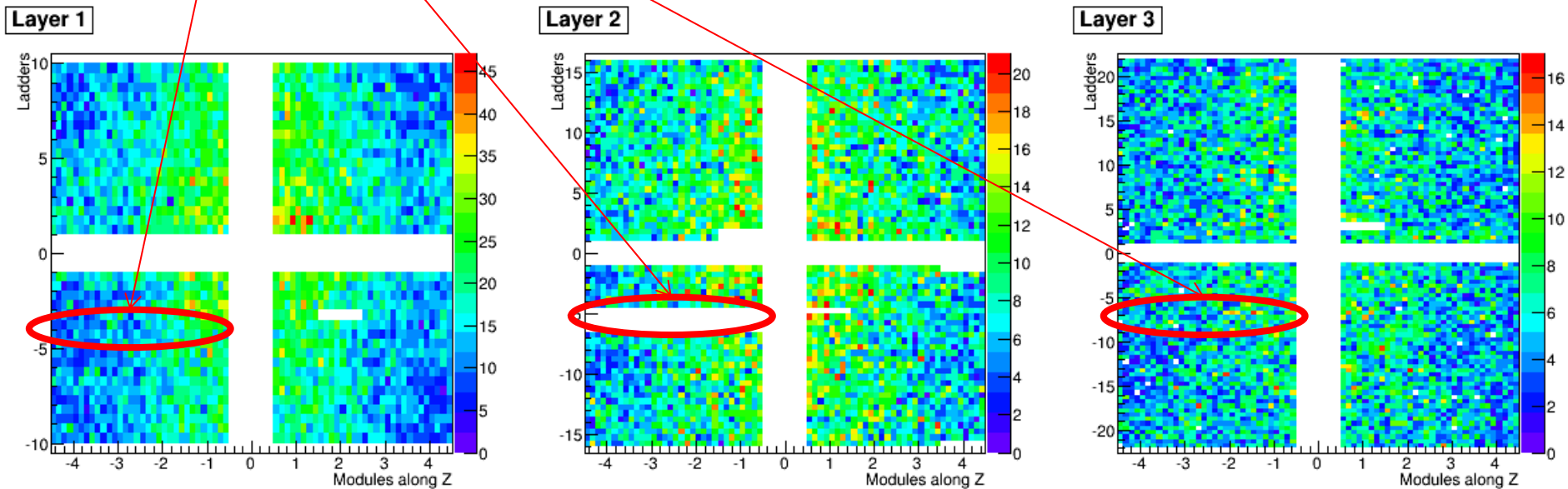


FPix Outer Shells (-X)



SiPixelQuality – data map

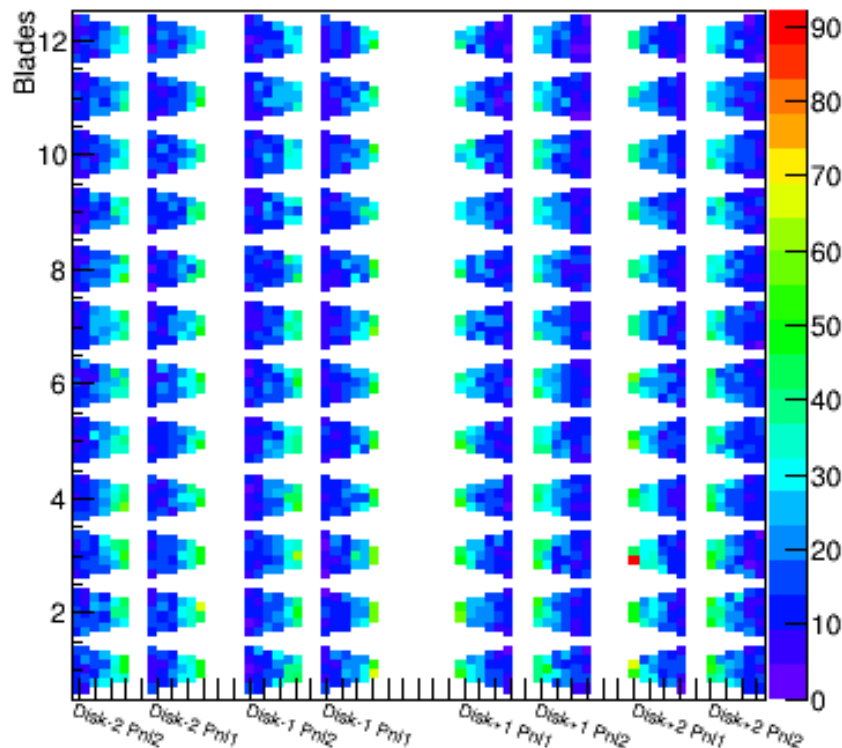
► BmO_Sec3



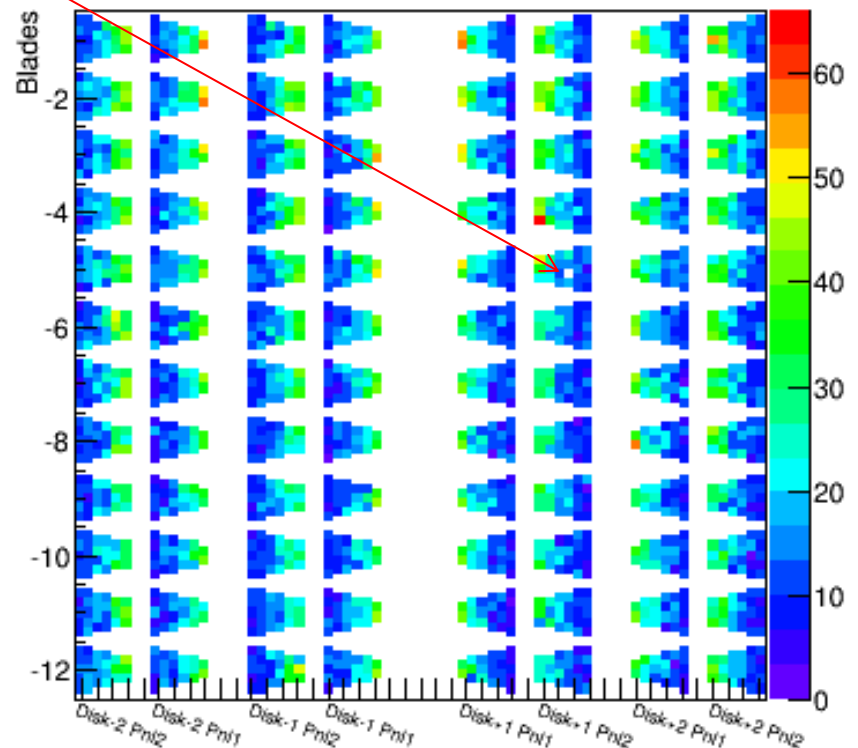
SiPixelQuality – data map

- FPix is OK, only 1 ROC is bad

FPix Inner Shells (+x)



FPix Outer Shells (-X)



SiPixelGenError - tags

- ▶ *SiPixelGenErrorDBObject_38T_v2_hlt*
- ▶ *SiPixelGenErrorDBObject_38T_v2_express*
- ▶ *SiPixelGenErrorDBObject_38T_v1_offline[cms_orcon_prod/CMS_COND_PIXEL_000]*
- ▶ *SiPixelGenErrorDBObject_38T_v2_offline // queuing*
- ▶ IOV starting from run 252193
- ▶ On 2015-07-21
- ▶ Payload fdf863d77c7089e6f0eeba25323136df3a7ad685

SiPixelLorentzAngle - tags

- ▶ *SiPixelLorentzAngle_2009_v1_hlt*
- ▶ *SiPixelLorentzAngle_2009_v1_express*
- ▶ IOV starting from run 252543
- ▶ On 2015-07-27
- ▶ *SiPixelLorentzAngle_2015_v2*
- ▶ *SiPixelLorentzAngle_v4_offline*
- ▶ IOV starting from run 238341
- ▶ On 2015-05-11
- ▶ Payload a47ca9bce9a346732d40e432f928e1d740b9e294

Contains

SiPixelLorentzAngle_2015_v2

SiPixelTemplateDBObject - tags

- ▶ *SiPixelTemplateDBObject38Tv2_hlt*
- ▶ *SiPixelTemplateDBObject38Tv2_express*

- ▶ IOV starting from run 252543
- ▶ On 2015-07-27

Contains

SiPixelTemplateDBObject_38T_2015_v1

- ▶ *SiPixelTemplateDBObject_38T_v6_offline*
- ▶ IOV starting from run
- ▶ On 2015-05-11
- ▶ Payload 981fd70155e7e769132318f420d0e9e61dd3148f