

# Status Report on Pixel DB Conditions

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AlCaDB meeting, Monday, September 21, 2015



# 2015 pp data re-reco

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- ▶ **Bad Module list**

- ▶ Twiki:  
<https://twiki.cern.ch/twiki/bin/viewauth/CMS/SiPixelQualityHistory>

- ▶ **Lorentz Angle**

- ▶ Twiki:  
<https://twiki.cern.ch/twiki/bin/view/CMS/SiPixelLorentzAngleHistory>

- ▶ **Templates, GenErrors**

- ▶ Twiki:  
<https://twiki.cern.ch/twiki/bin/view/CMS/SiPixelTemplateHistory>
- ▶ Twiki:  
<https://twiki.cern.ch/twiki/bin/viewauth/CMS/SiPixelGenErrorHistory>

- ▶ **Gain calibration**

- ▶ Twiki:  
<https://twiki.cern.ch/twiki/bin/view/CMS/SiPixelGainHistory>

# Generally about offline tags

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- ▶ We have the 2015C information now
- ▶ 2015D conditions were already uploaded
- ▶ As a conclusion, before ReReco I will rebuild some offline tags

# SiPixelQuality – offline tags

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- ▶ Record: **SiPixelQualityFromDbRcd**
- ▶ Tag: **SiPixelQuality\_v04\_offline**

| IOV  | Run Range         | Content            | Date of upload |
|------|-------------------|--------------------|----------------|
| 1-23 | 0 - 2383410       | ...                | ...            |
| 24   | 238341 - 246907   | SiPixelQuality_v23 | 2015-05-11     |
| 25   | 246908 - 250988   | SiPixelQuality_v25 | 2015-06-23     |
| 26   | 250989 - 251721   | SiPixelQuality_v26 | 2015-07-09     |
| 27   | 251722 - 255730   | SiPixelQuality_v27 | 2015-07-14     |
| 28   | 255731 - infinity | SiPixelQuality_v28 | 2015-09-18     |

**This is OK like this**

# SiPixelLorentzAngle – offline tags

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- ▶ Record: **SiPixelLorentzAngleRcd**
- ▶ Tag: **SiPixelLorentzAngle\_v4\_offline**

| IOV | Run Range         | Content                     | Date of upload |
|-----|-------------------|-----------------------------|----------------|
| 1-9 | 1-238340          | ...                         | ...            |
| 10  | 238341 - 255730   | SiPixelLorentzAngle_2015_v2 | 2015-05-11     |
| 11  | 255731 - infinity | SiPixelLorentzAngle_2015_v3 | 2015-09-04     |

**Bad! New tag is about to build:**  
**SiPixelLorentzAngle\_v6\_offline**

# SiPixelGenError – offline tags

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- ▶ Record: **SiPixelGenErrorDBObjectRcd**
- ▶ Tag: **SiPixelGenErrorDBObject\_38T\_v2\_offline**

| IOV | Run Range         | Content                             | Date of upload |
|-----|-------------------|-------------------------------------|----------------|
| 1   | 1-238340          | SiPixelGenErrorDBObject_38T_2015_v1 | 2015-07-27     |
| 2   | 238341 - 255730   | SiPixelGenErrorDBObject_38T_2015_v1 | 2015-07-27     |
| 3   | 255731 - infinity | SiPixelGenErrorDBObject_38T_2015_v3 | 2015-09-04     |

**Bad! New tag is about to build:**  
**SiPixelGenErrorDBObject\_38T\_v3\_offline**

# SiPixelTemplate – offline tags

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- ▶ Record: **SiPixelTemplateDBObjectRcd**
- ▶ Tag: **SiPixelTemplateDBObject\_38T\_v6\_offline**

| IOV | Run Range         | Content                             | Date of upload |
|-----|-------------------|-------------------------------------|----------------|
| 1-8 | 1 - 238340        | ...                                 | ...            |
| 9   | 238341 – 255730   | SiPixelTemplateDBObject_38T_2015_v2 | 2015-07-27     |
| 10  | 255731 - infinity | SiPixelTemplateDBObject_38T_2015_v3 | 2015-09-04     |

**Bad! New tag is about to build:**  
**SiPixelTemplateDBObject\_38T\_v8\_offline**

# Proposed new offline tags

| Run Range         | SiPixelLorentzAngle_v6_offline | SiPixelGenErrorDBObject_38T_v3_offline | SiPixelTemplateDBObject_38T_v8_offline |
|-------------------|--------------------------------|----------------------------------------|----------------------------------------|
| 1 - 238340        | ...                            | ...                                    | ...                                    |
| 238341 - 253913   | SiPixelLorentzAngle_2015_v2    | SiPixelGenErrorDBObject_38T_2015_v1    | SiPixelTemplateDBObject_38T_2015_v1    |
| 253914 - 255654   | SiPixelLorentzAngle_2015_v4    | SiPixelGenErrorDBObject_38T_2015_v4    | SiPixelTemplateDBObject_38T_2015_v4    |
| 255655 - infinity | SiPixelLorentzAngle_2015_v3    | SiPixelGenErrorDBObject_38T_2015_v3    | SiPixelTemplateDBObject_38T_2015_v3    |

# SiPixelGainCalibration – offline tags

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- ▶ Record: **SiPixelGainCalibrationOfflineRcd**
- ▶ Description:
  - ▶ ...HLT... - gains/pedestals are per column,
  - ▶ ...Offline... - gains are per column, pedestals are per pixel
- ▶ Tag: **SiPixelGainCalibrationHLT\_2009runs\_offline**
- ▶ Tag: **SiPixelGainCalibration\_2009runs\_offline**

# SiPixelGainCalibration – offline tags

| IOV | Run Range       | Content                                                                                        | Date of upload |
|-----|-----------------|------------------------------------------------------------------------------------------------|----------------|
| 1-7 | 1- 233748       |                                                                                                | ...            |
| 8   | 233749-255730   | SiPixelGainCalibration_GainRun1085_31X_v1 /<br>SiPixelGainCalibration_GainRun1085_31X_HLT_v1   | 2015-05-11     |
| 9   | 255731-infinity | SiPixelGainCalibration_2015_v3_hltvalidation /<br>SiPixelGainCalibration_2015_v3_hltvalidation | 2015-09-18     |

**There was no gain measurement in 2015C era**

**This is OK like this**