Update of Pixel local reco conditions for 91X MC and data

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AlCaDB meeting

Intro

New set of LA|Templates|GenErr was developed for MC and for data

In 91X the code was modified to usage of the Phase 1 templates

PR https://github.com/cms-sw/cmssw/pull/18038 is needed

Internal validation was done by Janos:
https://indico.cern.ch/event/607517/#36-validation-of-the-db-conten

Lorentz Angle (MC)

Record Name: SiPixelLorentzAngleRcd
Tag name: SiPixelLorentzAngle_phase1_mc_v2

Record Name: SiPixelLorentzAngleRcd
Tag name: SiPixelLorentzAngle_forWidth_phase1_mc_v2
Label name: forWidth

The label name fromAlignment was not updated since the _v1 contains zeros, as would this tag

Queued on 6th of April to the 91X Upgrade 2017 and Upgrade 2018

Lorentz Angle [SIM] (MC)

Record Name: SiPixelLorentzAngleSimRcd
Tag name: SiPixelLorentzAngleSim_phase1_mc_v2

This tag is used in the SIM process only

Queued on 6th of April to the 91X Upgrade 2017 and Upgrade 2018

Templates (MC)

Record Name: SiPixelTemplateDBObjectRcd
Tag name: SiPixelTemplateDBObject_phase1_38T_mc_v2

Record Name: SiPixelTemplateDBObjectRcd
Tag name: SiPixelTemplateDBObject_phase1_0T_mc_v2
Label name: 0T

The other record names (*0T*, *38T*,*4T*) are not used. There is no other label name used either.

Queued on 6th of April to the 91X Upgrade 2017 and Upgrade 2018

Generic error (MC)

Record Name: SiPixelGenErrorDBObjectRcd
Tag name: SiPixelGenErrorDBObject_phase1_38T_mc_v2

Queued on 6th of April to the 91X Upgrade 2017 and Upgrade 2018

The 0T GenError is also available in ProdDB but it was not queued since there is no label option (yet) for GenErr

Lorentz Angle (Data)

We would like to update tags:
SiPixelLorentzAngle_2009_v1_hlt
SiPixelLorentzAngle_2009_v1_express

After validation allows us // asap

Validation tag:
SiPixelLorentzAngle_phase1_2017_v1_hltvalidation

Uploaded to Prod on 2017-04-06

Templates (Data)

We would like to update tags:
SiPixelTemplateDBObject38Tv2_hlt
SiPixelTemplateDBObject38Tv2_express

Any time. Uploading it together with the LA makes no harm since in 90X the templates are not used. Although, it would be useful to upload now, so that when Production switches to 91X the correct templates will be picked

Validation tag:
SiPixelTemplateDBObject_phase1_38T_2017_v1_hltvalidation

Uploaded to Prod on 2017-04-06

Generic error (Data)

We would *NOT* like to update tags yet

Only after production switched to CMSSW 91X

Validation tag was although uploaded:
SiPixelGenErrorDBObject_phase1_38T_2017_v1_hltvalidation

Uploaded to Prod on 2017-04-06