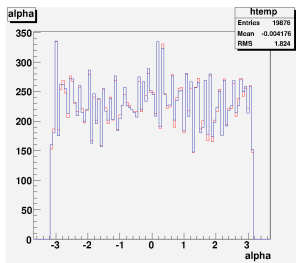


Hierarchy constraint patch

Andrii Gizhko, Matthias Schroder (DESY)

Reproducing previous 2011 alignment results

Nastja's 2nd iteration of 2011 alignment (mp1332) have been rerun (mp1358) with reduced numbers of isolated muons events [18M, with respect to 46M]

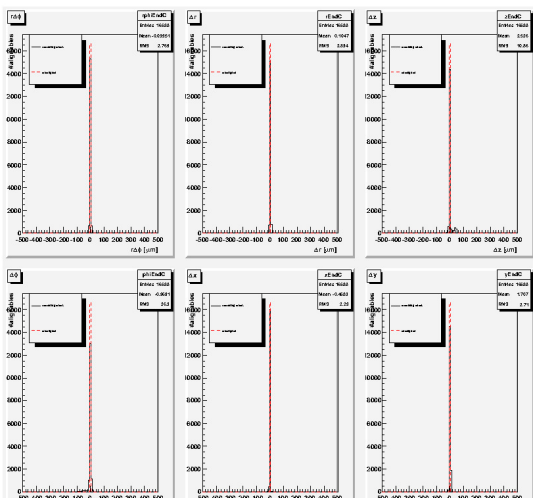


Alignment geometry comparison

/afs/cern.ch/cms/CAF/CMSALCA/ALCA_TRACKERALIGN/data/
commonValidation/agizhko/alignmentValidation_mp1332_mp1358

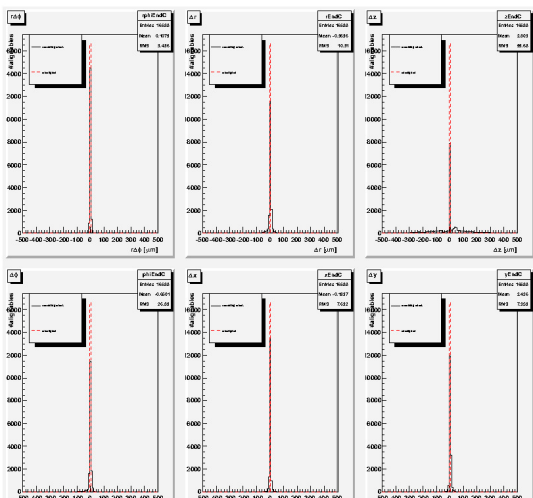
Reproducing previous results

Alignment/MillePedeAlignmentAlgorithm/macros/allMillePede.C
DrawPosRes :for default mp1332 :



Reproducing previous results

Alignment/MillePedeAlignmentAlgorithm/macros/allMillePede.C for mp1358 :



Hierarchy constraint patch

TWiki page :

<https://twiki.cern.ch/twiki/bin/viewauth/CMS/TkAlignmentLegacyThoughts>

Claus's presentations : Tracking Alignment meeting 14 Feb 2013, 25 Jul 2013

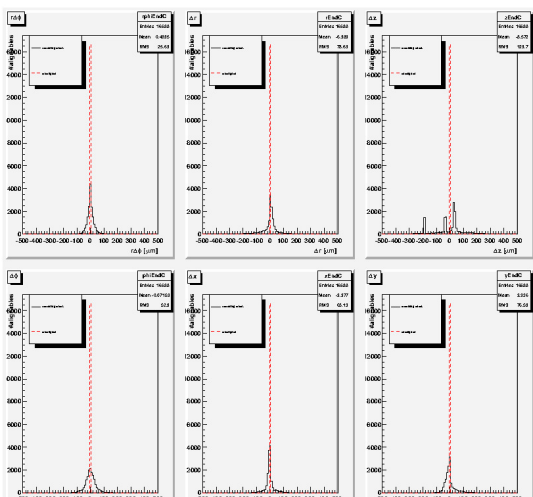
Alignment areas

.../MP/MPproduction/CMSSW_4_4_5_agizhko/CMSSW_4_4_5/
(4_4_5 version +hierarchy fix patch)

first test run with patched CMSSW .../MP/MPproduction/mp1361/
(2011 data 0 iteration alignment with hierarchy patch)
[the same as 1324, but with 18M isolated muons events instead of 3M and
some mille jobs failed]

First look

Alignment/MillePedeAlignmentAlgorithm/macros/allMillePede.C for mp1361 (2011 data alignment 0 iteration):



Summary and discussion

- Work on testing hierarchy patch on 2011 alignment ongoing
- What we should look at first and how proceed?