

# Hierarchy constraint patch

Andrii Gizhko (DESY)

22.10.2013 Tracking Alignment meeting

# Hierarchy constraint patch

TWiki page :

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

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

# Alignment areas

.../MP/MPproduction/CMSSW.\_4.\_4.\_5.\_agizhko/new/CMSSW.\_4.\_4.\_  
as in MPproduction +hierarchy fix patch) test run with patched CMSSW  
.../MP/MPproduction/mp1369/ (2011 data 0 iteration alignment (the  
same as mp1321) with hierarchy patch)

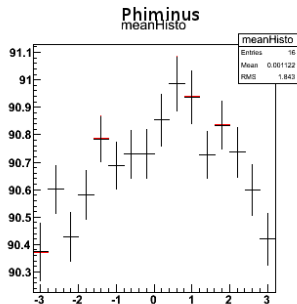
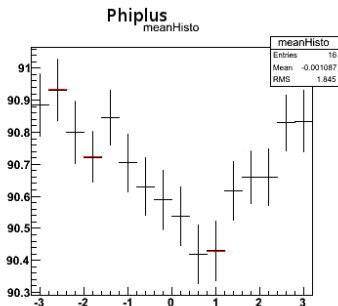
# Geometry comparison

Blue -default mp1321, red - mp1369 (with patch) [thanks to Claus for pointing to lack of isolated muons events in previous mp1365 due to bug, have been fixed in 1369]

# $Z \rightarrow \mu\mu$ validation

Zmumu validation (using Dataset\_Run2012B\_TkAlZMuMu\_v1), 20000 events :

Black - mp1321 (default), red - mp1369 (with patch)



# Summary

- Hierarchy constraint patch for 0th iteration shows no significant difference
- 1th iteration with patch to be done