



Status of alignment

Recently corrected:

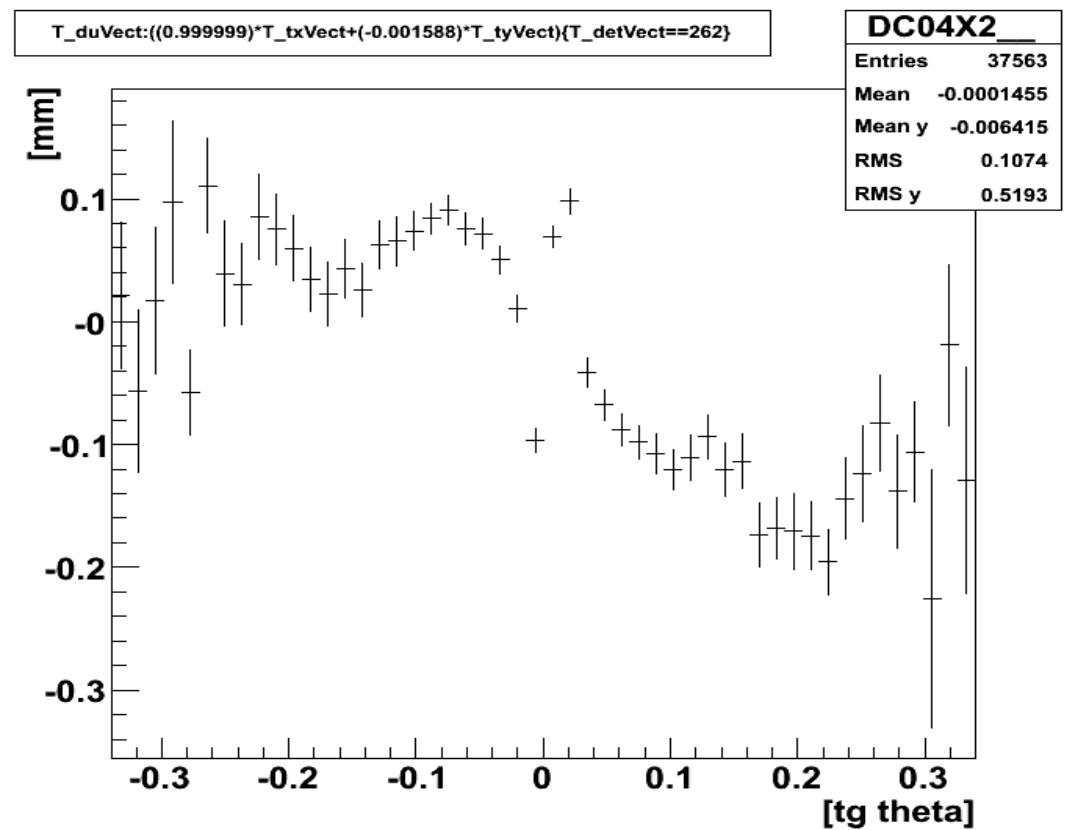
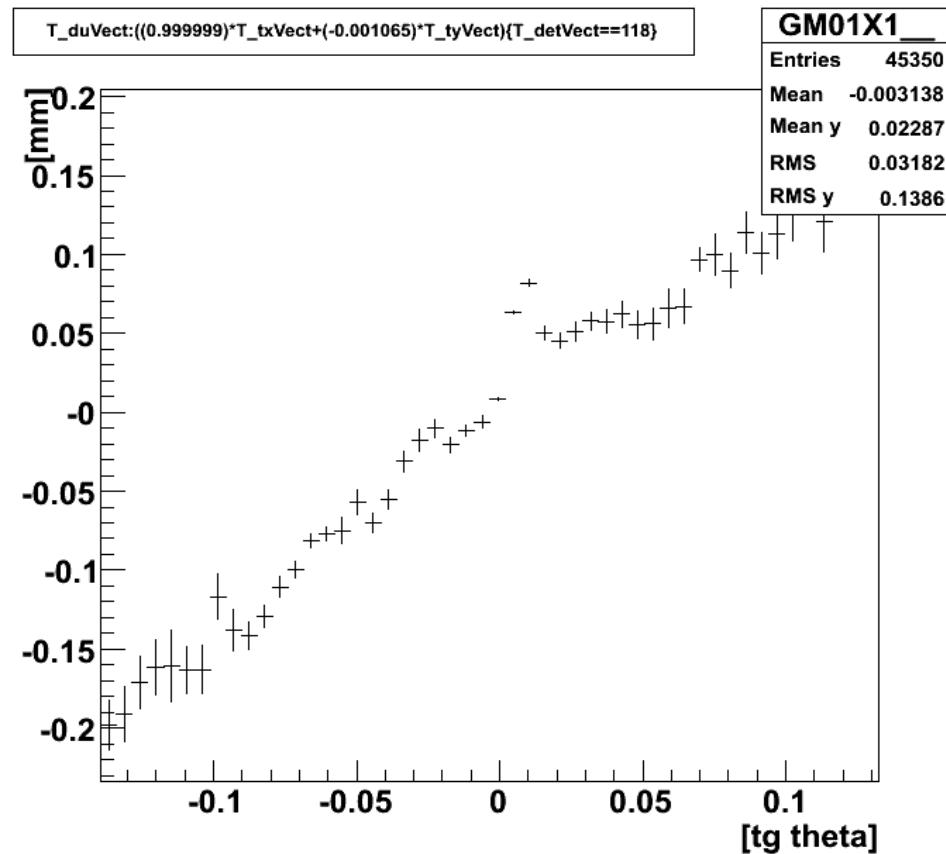
1. Z alignment
2. DC/DW deadzones correction
3. DW mapping files

Remaining problems:

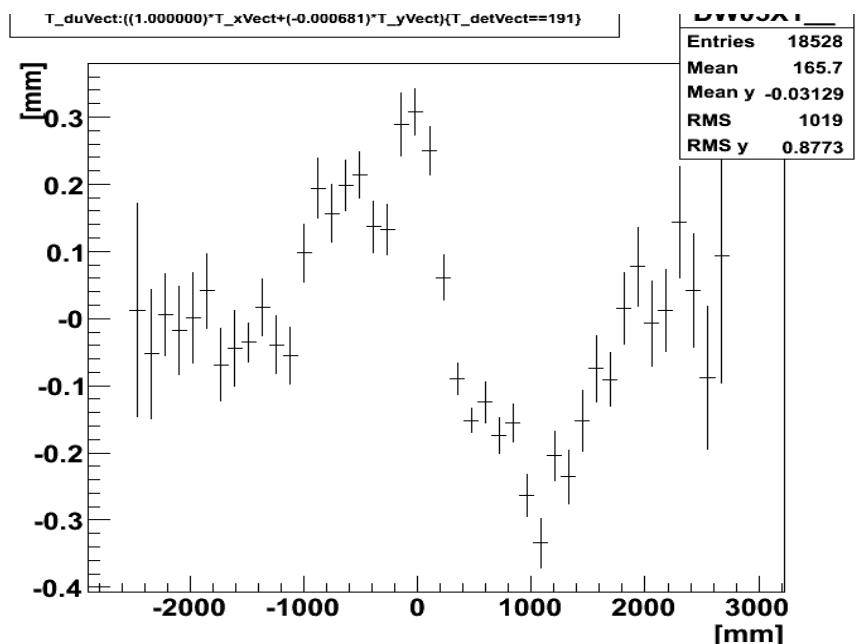
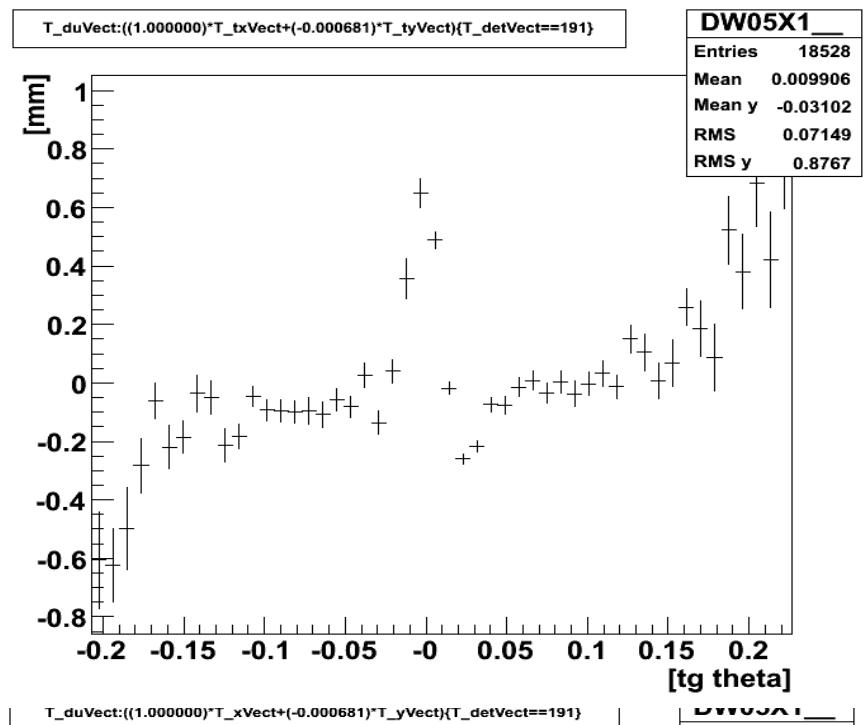
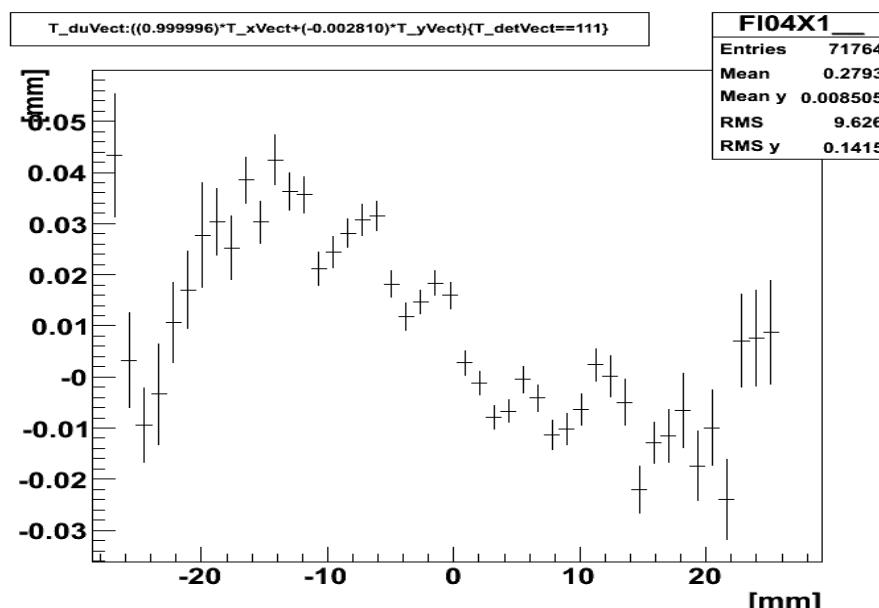
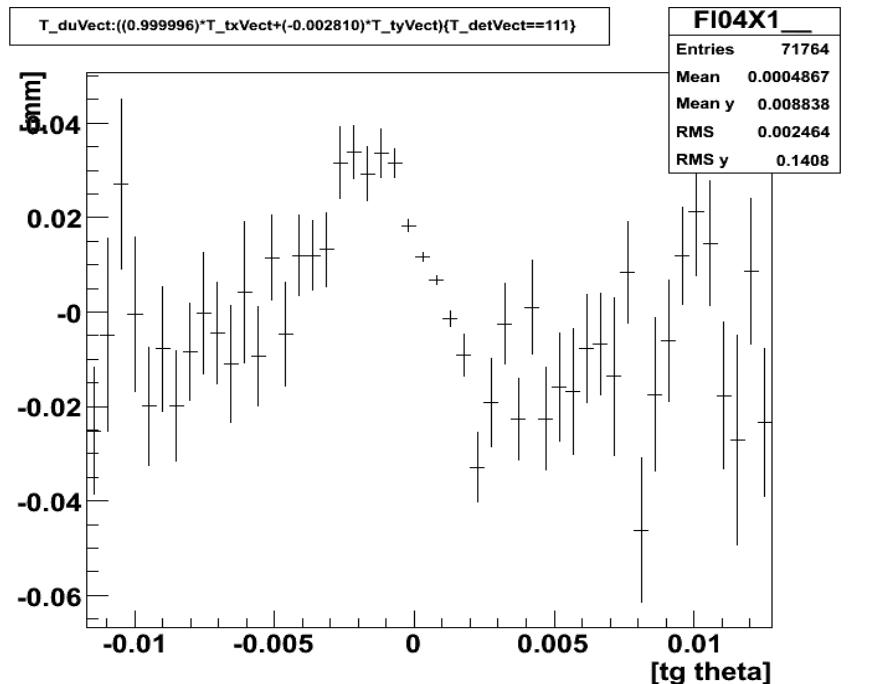
1. center-outer part of detectors inconsistency
2. GEM spacers
3. X-ray corrections

Inner-outer part of detector inconsistency

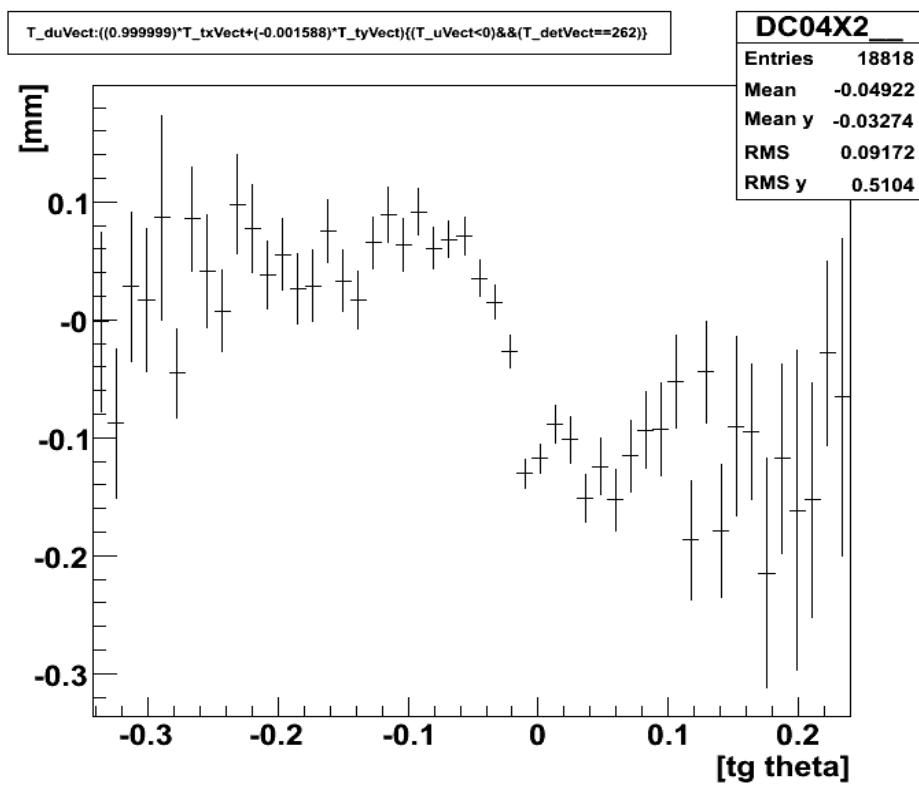
First observed in GEM01 and DC04



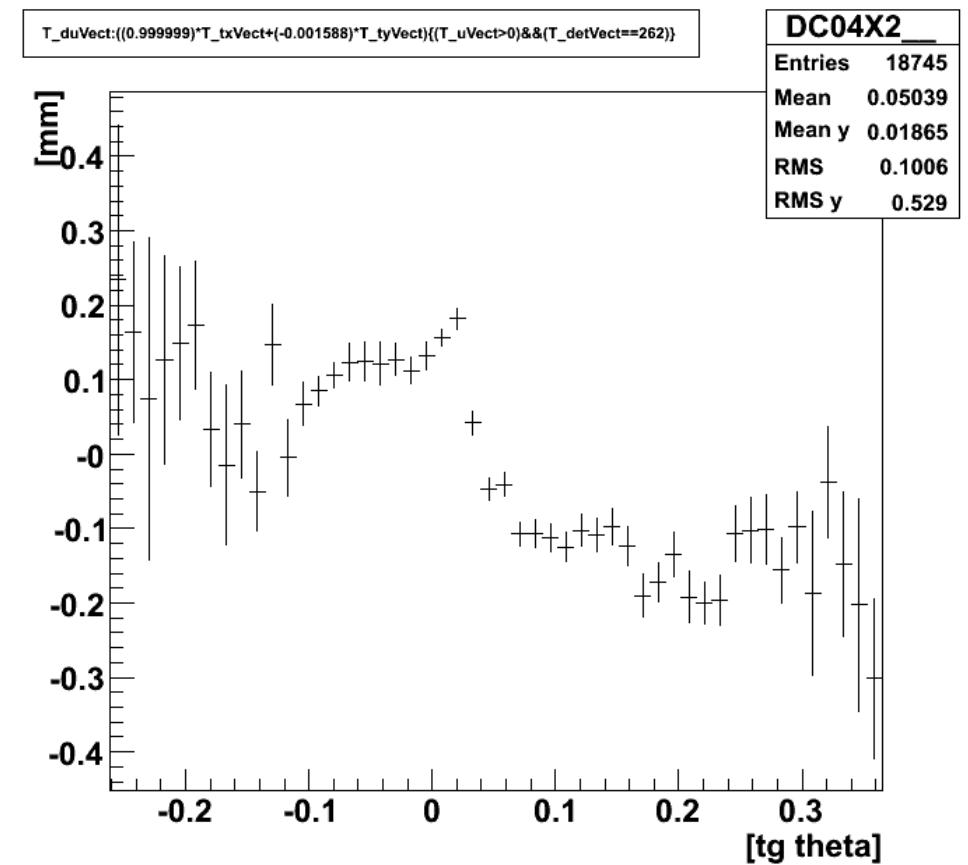
Inner-outer part of detector inconsistency



Inner-outer part of detector inconsistency



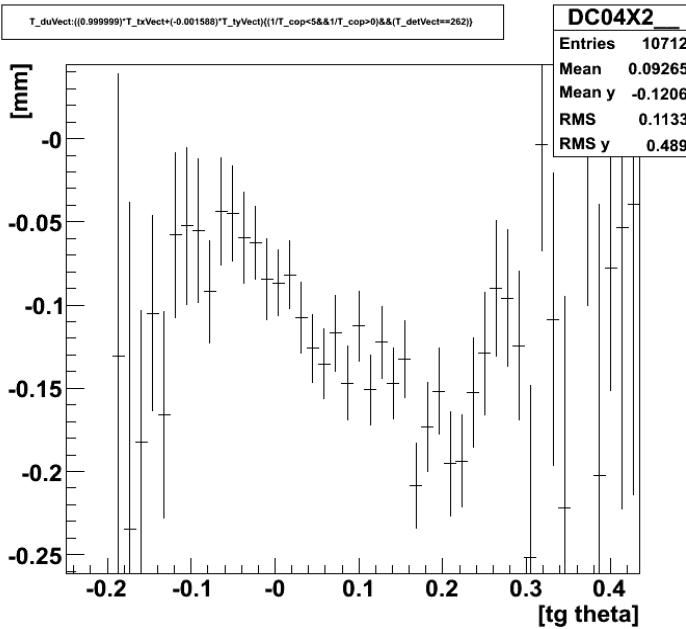
DC04X2 ($x < 0$)



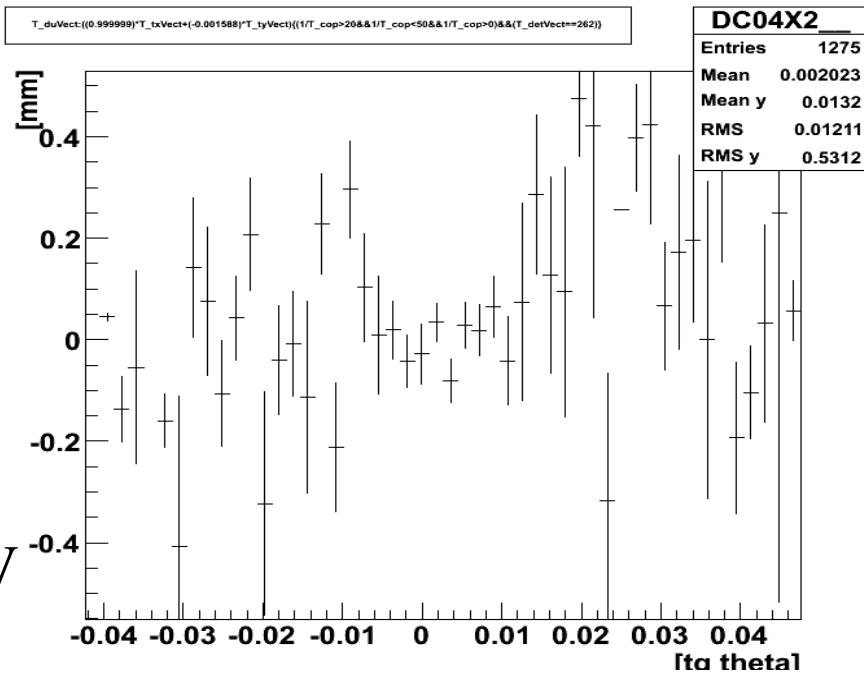
DC04X2 ($x > 0$)

Inner-outer part of detector inconsistency

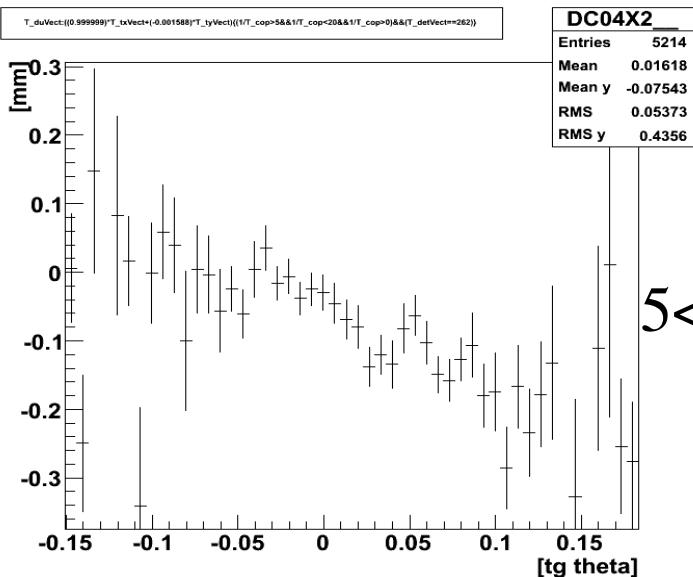
positive particles



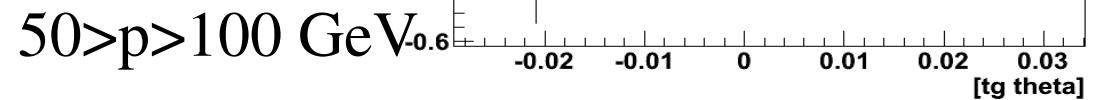
p<5 GeV



20-50 GeV



5<p<20 GeV



50>p>100 GeV

Problem with GEMs spacers

GEMs' spacers
affect alignment due to
clusterization algorithm

Theoretically solution
is present in coral:
[Traf dCut\[72,73,74\]](#)
[\\$CORAL/src/pkopt/gem.spacers.txt](#)

