

MILLEPEDE LA problem

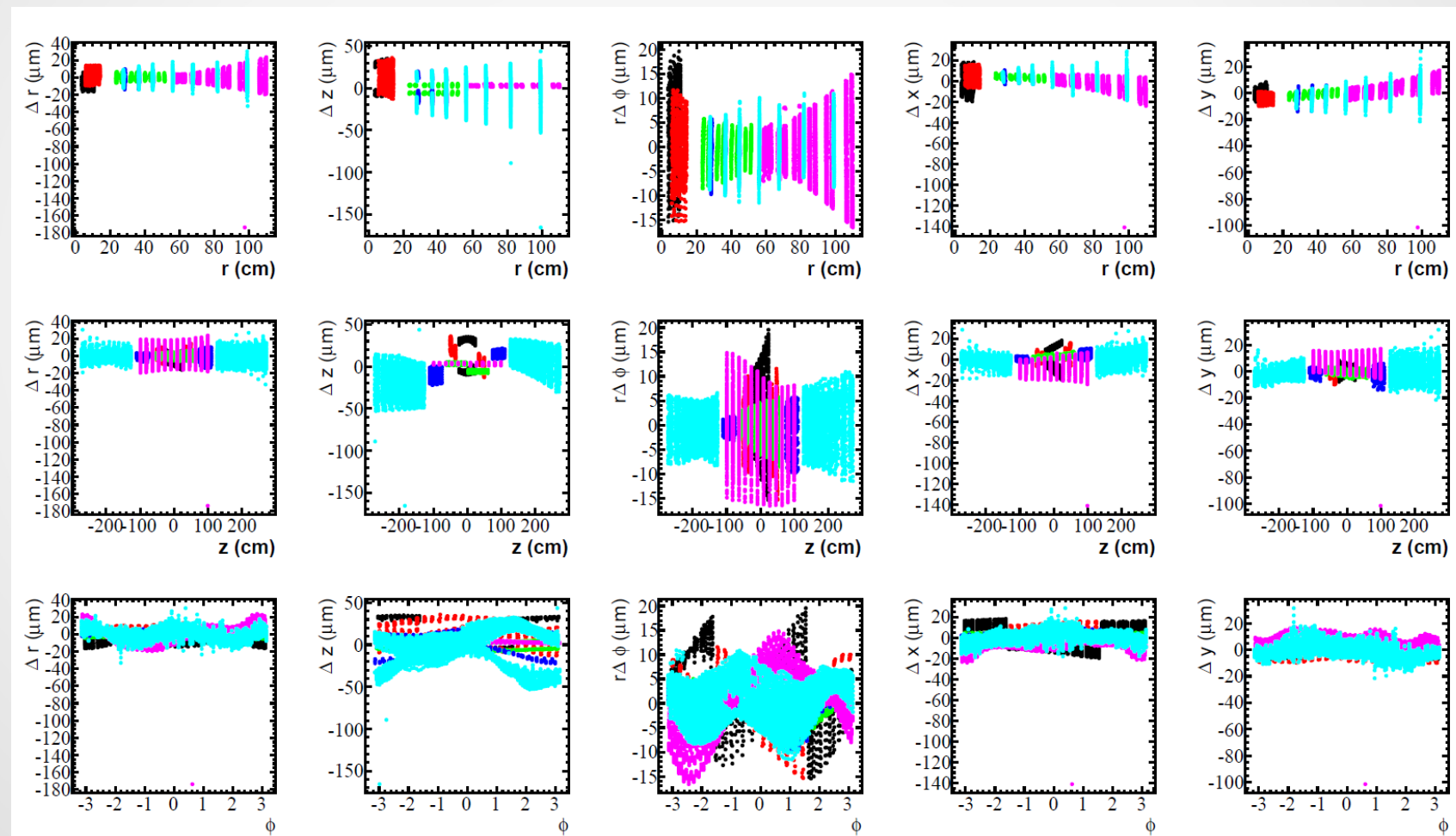
DESY Alignment meeting

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- First run CMSSW_5_3_18 on SL6
- Checking MILLE jobs

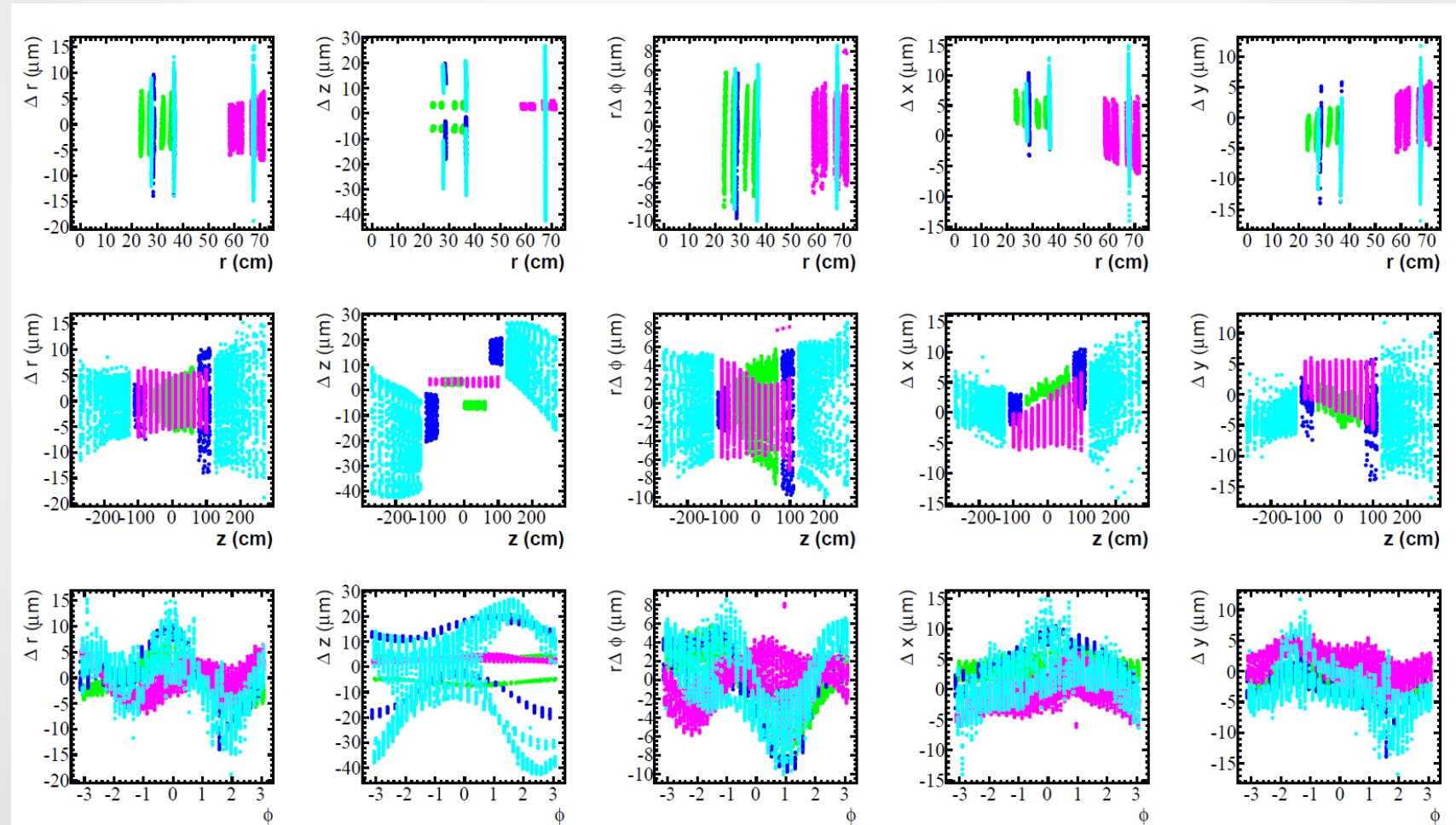
First run CMSSW_5_3_18 (plot3x5_Tracker)

Comparison with Andrii , same setup of config files
Difference: SL6, 5_3_18 release.



First run CMSSW_5_3_18 (plot3x5_Tracker2D)

Comparison with Andrii , same setup of config files
Difference: SL6, 5_3_18 release.



Checking MILLE jobs

➤ First problem found in the “alignment.log”:

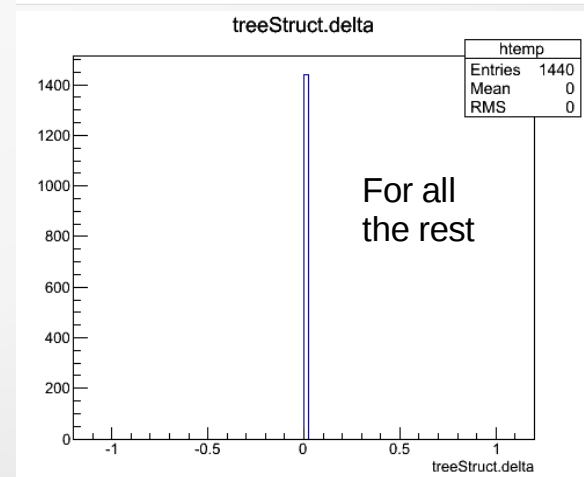
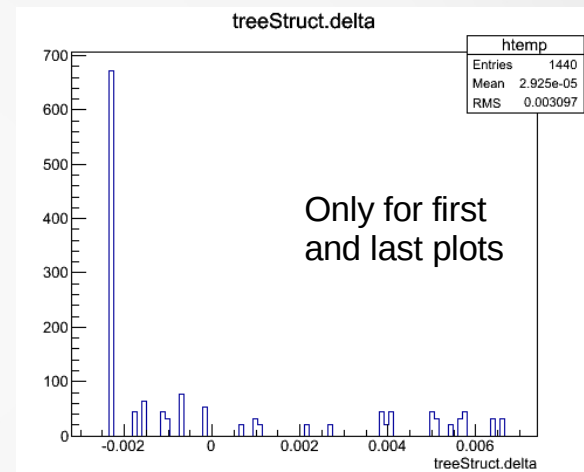
%MSG-i Alignment: AfterModEndJob SiPixelLorentzAngleCalibration::endOfJob() 15-Oct-2014 09:30:01 CEST PostEndRun

- Parameter results
- 0: 0.0010991 +- 0
- 1: 0 +- 0
- 2: 0 +- 0
- 3: 0 +- 0

➤ Checked “treeFile_merge.root” file:

(After MILLEPEDE jobs finished) Plots from:

SiPixelLorentzAngleCalibration_result_xxx/treeStruct/delta:



Checking MILLE jobs

- ▶ Checked input files for PEDE jobs:

`/store/caf/user/nastefan/MPproduction/mp1488/treeFile(1-429).root`

Plots are identical with Andrii files and not are ZERO;

- ▶ Problem observed from Claus:

- ▶ Mille step produces errors like: `Mille::mille: Invalid label 0 <= 0 or > 2147483647` (on minbias events from file 94 of mp1454)
- ▶ The global labels of the IOV dependent alignment parameters seem to be lost (zero)
- ▶ With `CMSSW_5_3_16_patch1_mschrode` (compiled on SL5) it was fine

→ We checked it for file 94 (local run MILLE job again) and do not see this “Label” error