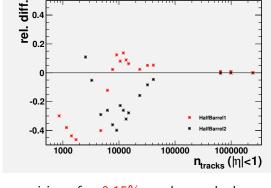
Pixel Half Barrel Alignment - Misalignment Scenario (Update)

- MC → Fall10 MinBias 7TeV-pythia8 ALCARECO
- misalignment scenario applied to ideal MC geometry
 - \rightarrow pixel half barrels shifted by $\pm 20 \ \mu m$ (fixed) along global z direction
- track cuts: p > 3 GeV, $p_T > 0.65 \text{ GeV}$, $n_{Hit} >= 8$, $-1 < \eta < 1$
- relative difference between extracted alignment constants and applied movements
- only alignment constants for the pixel half barrels were determined
- \rightarrow using \approx 40000 tracks the alignment precision is about 5%



• with \approx 2.4 million tracks a precision of < 0.15% can be reached