



Track Parameters of TRT-Only Tracks

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for Alignment monitoring group



Introduction

All plots shown here are produced with the
InDetAlignmentMonitoring package

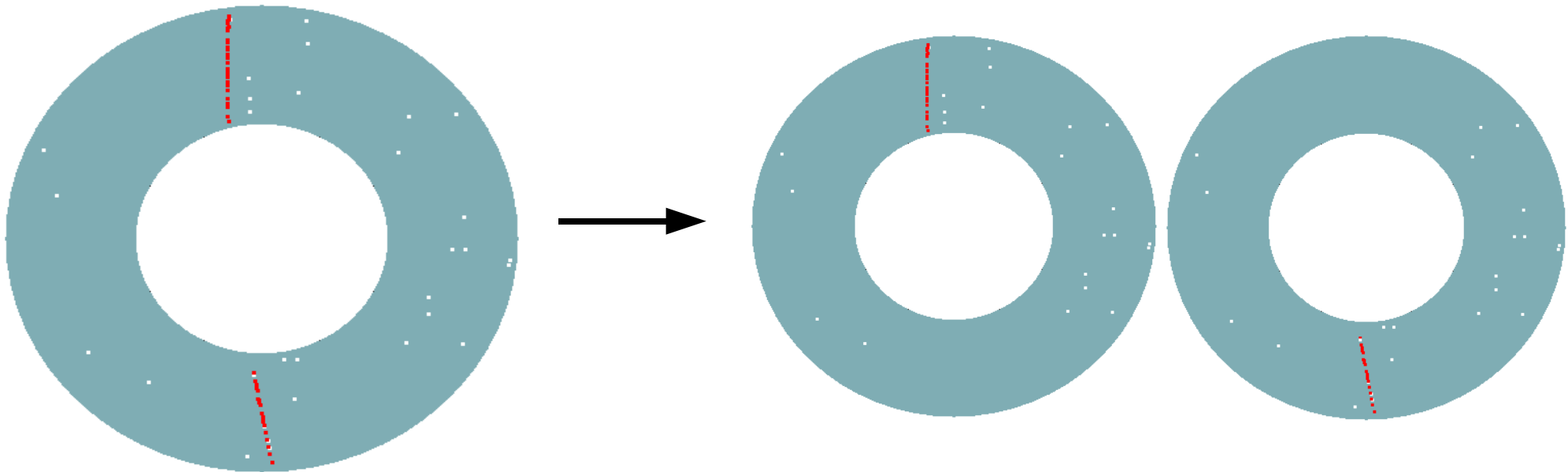
Track Selection:

Tracks = InDetKeys.TRTracks_CT B()
> 45 TRT Hits, $p_T > 2$ GeV, $5 < EP < 30$,
 $D_0 < 550$ mm (with TRT cavity)

Using TRT L2 Alignment:

TRT_Cosmics_2008_06

Split tracks

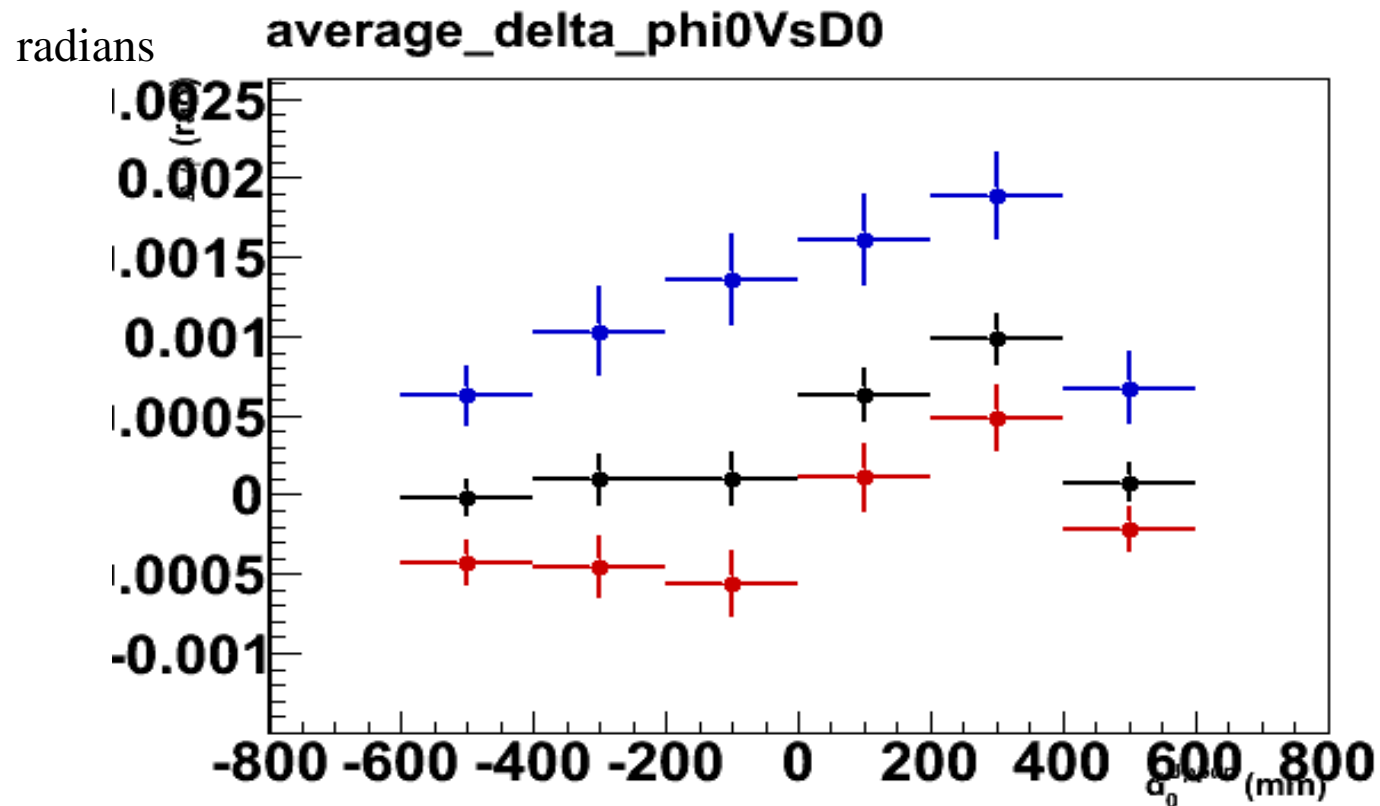


In the following slides the difference in track parameters (Upper – Lower) is binned as a function of a second track parameter (Upper) and mean is reported, the error bars are the uncertainty on the mean.



Delta Phi0 vs D0

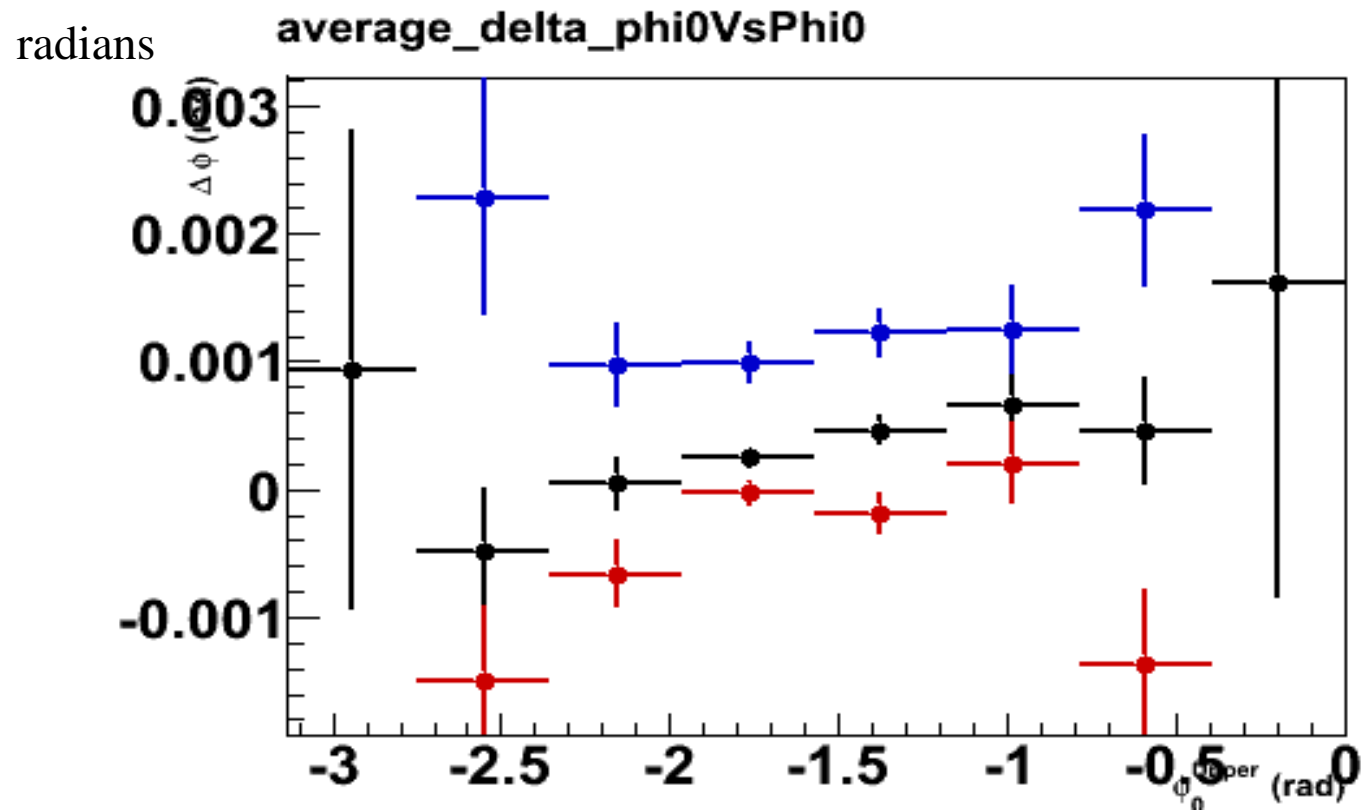
All Tracks / Positive Tracks / Negative Tracks





Delta Phi0 vs Phi0

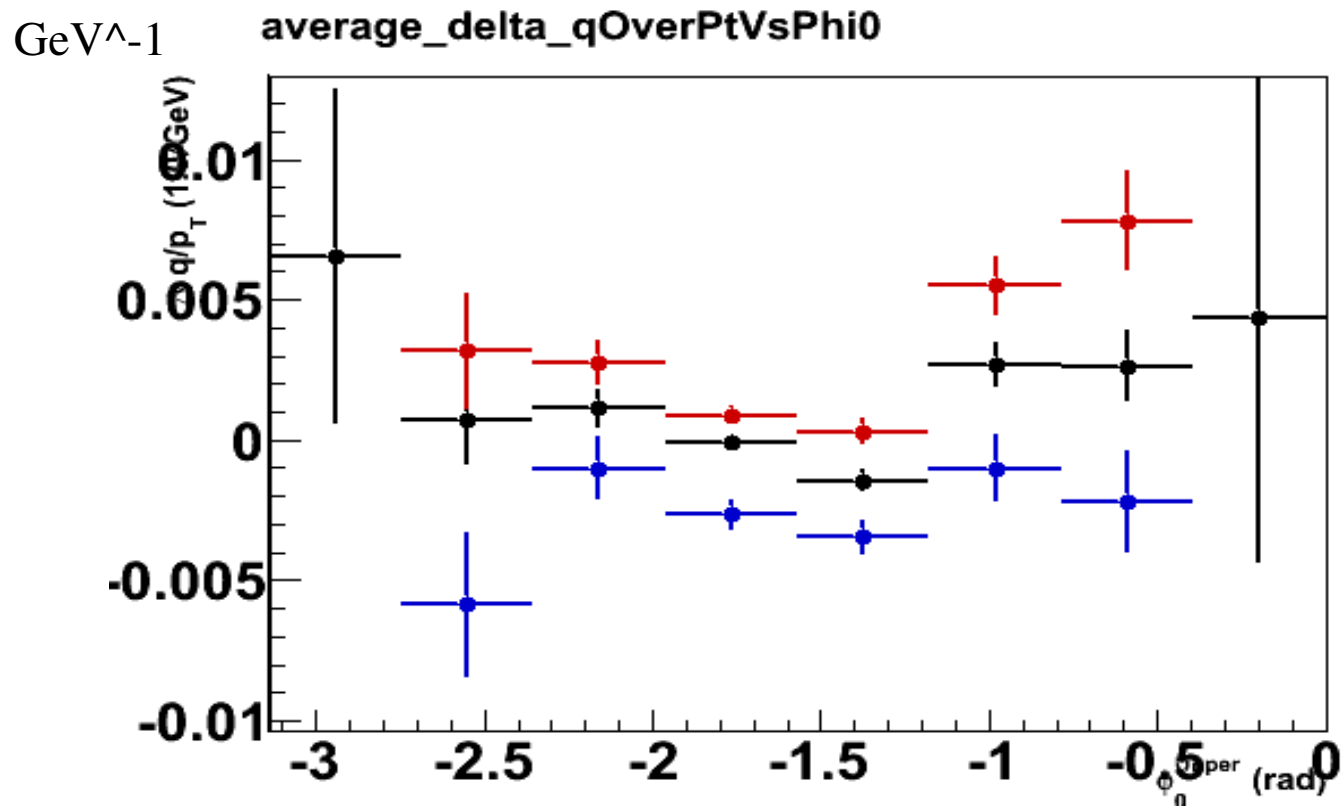
All Tracks / Positive Tracks / Negative Tracks





Delta q/Pt vs Phi0

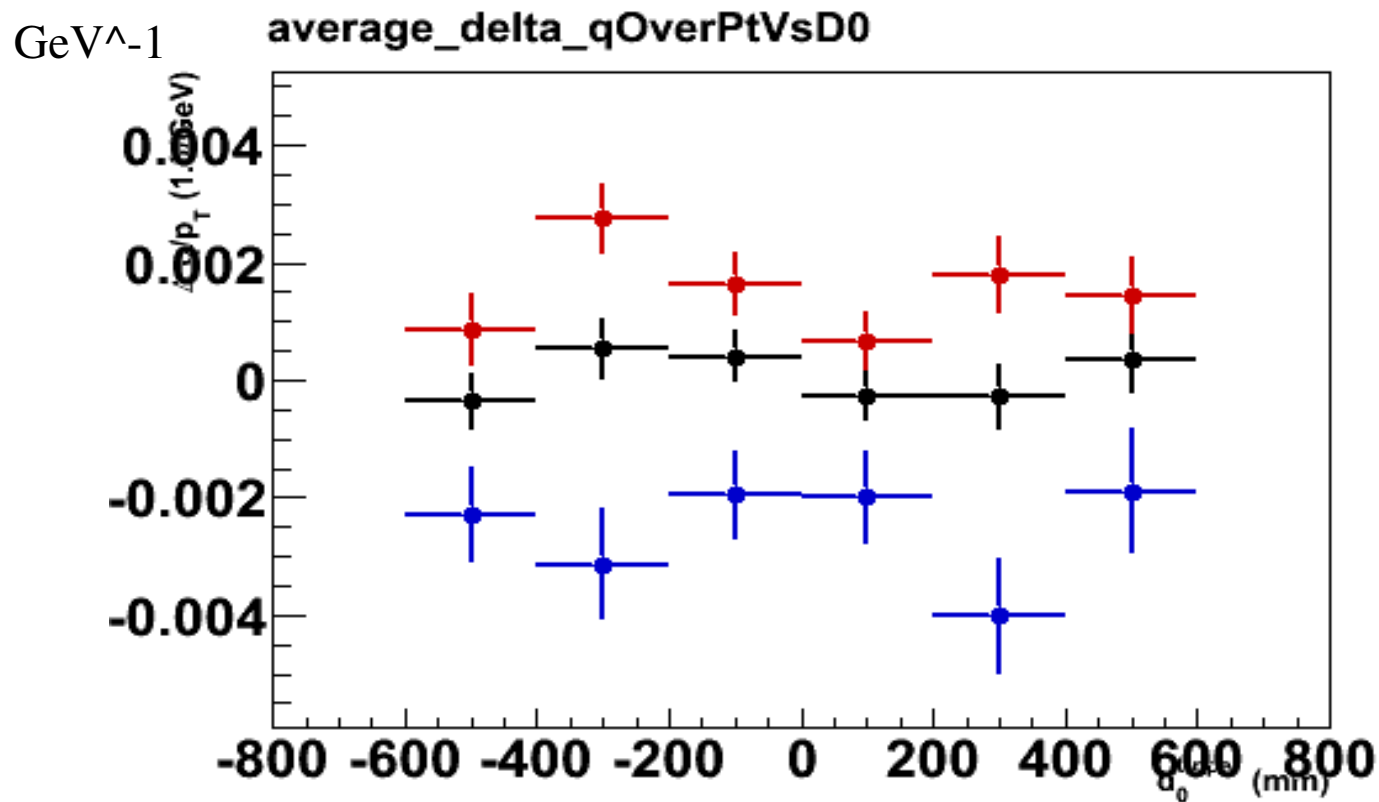
All Tracks / Positive Tracks / Negative Tracks





Delta q/Pt vs D0

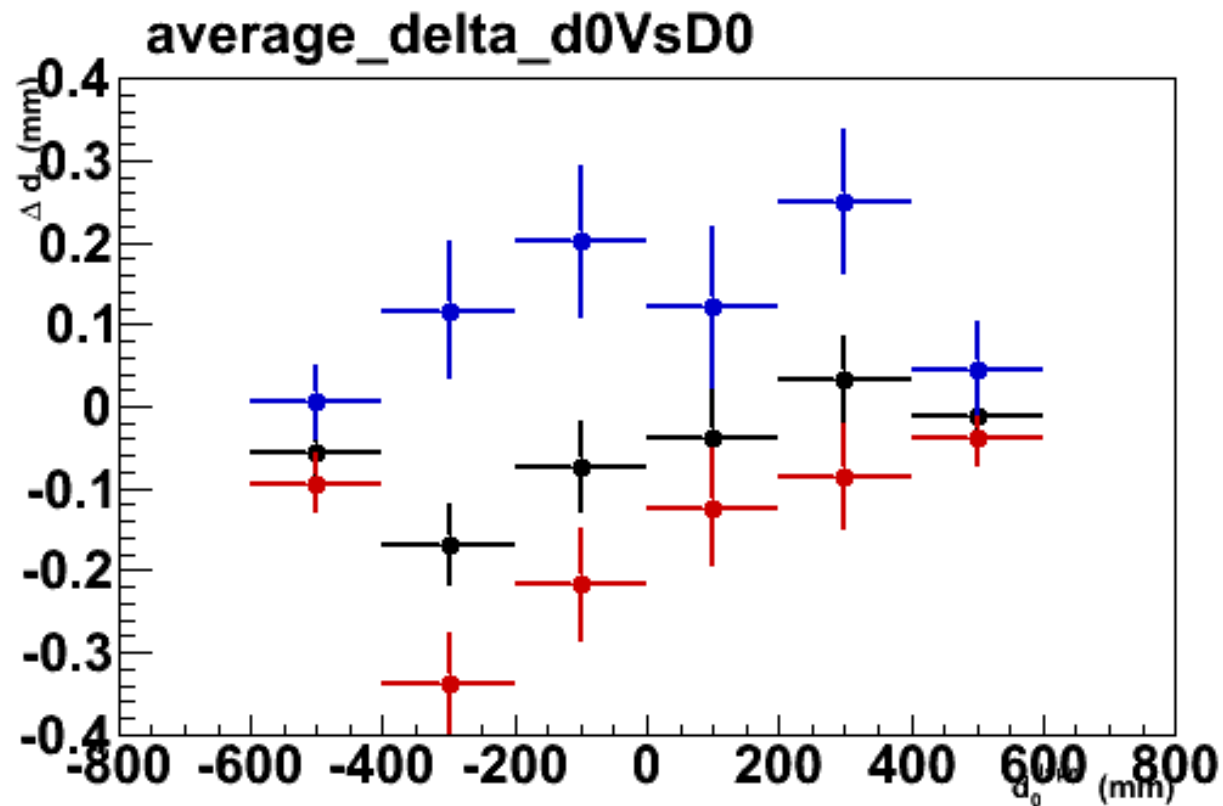
All Tracks / Positive Tracks / Negative Tracks





Delta D0 vs D0

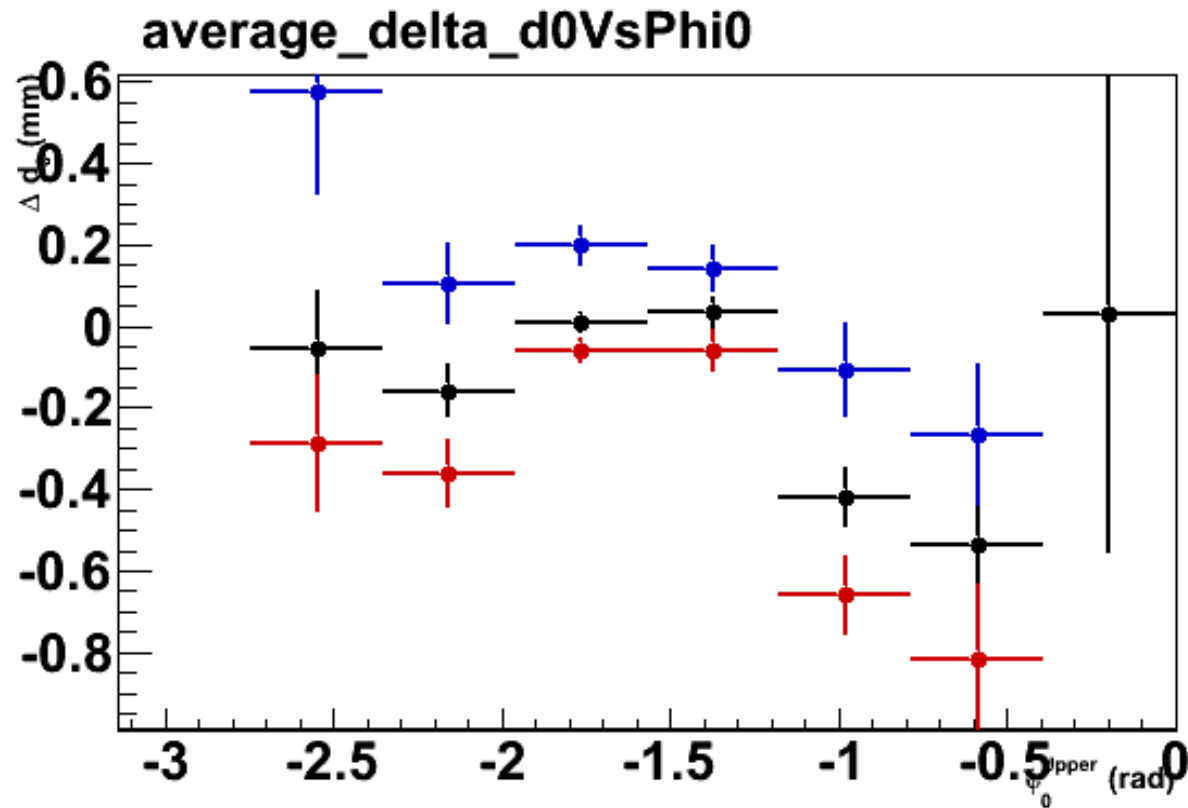
All Tracks / Positive Tracks / Negative Tracks





Delta D0 vs Phi0

All Tracks / Positive Tracks / Negative Tracks





Outlook

- Differences due to residual TRT misalignment ?
Detector deformation?
- Need Comparison for various different L2 TRT Alignments
TRT_Cosmics_2008_0 [7,8,9]
- Provide feedback to alignment / ID cosmic groups