

# 2016 Alignment: working in progress

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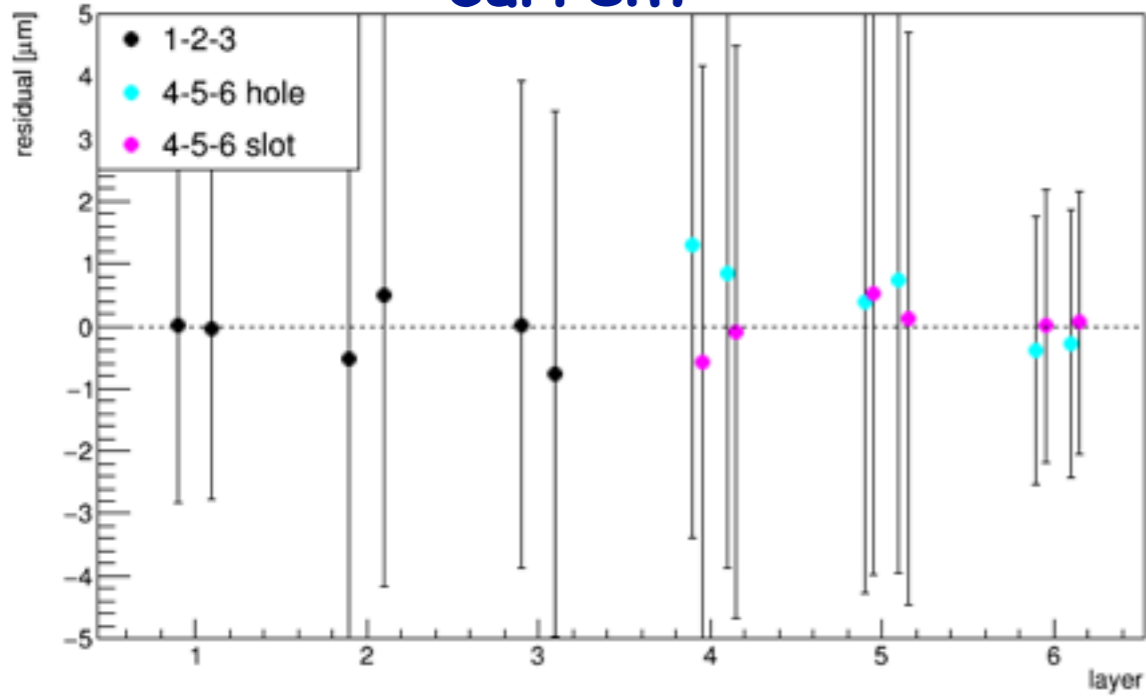
- ✓ **Start point: geometry v5-3 without global alignment**
- ✓ **Tests performed on:**
  - Fee tracks (selection by Norman), run 7479 (Events were selected to have one and only one track with 6 hits and one and only one calorimeter cluster in the event)
  - Straight tracks: run 8100
  - For minimization/MP purposes: 186K curves tracks and equivalent straight one
- ✓ **Purpose: provide a geometry which works for both curved and straight tracks**
  - Tuning of internal alignment for straight + curve tracks samples
  - Tuning of global alignment

# current geo vs new geo (u+w translation only)

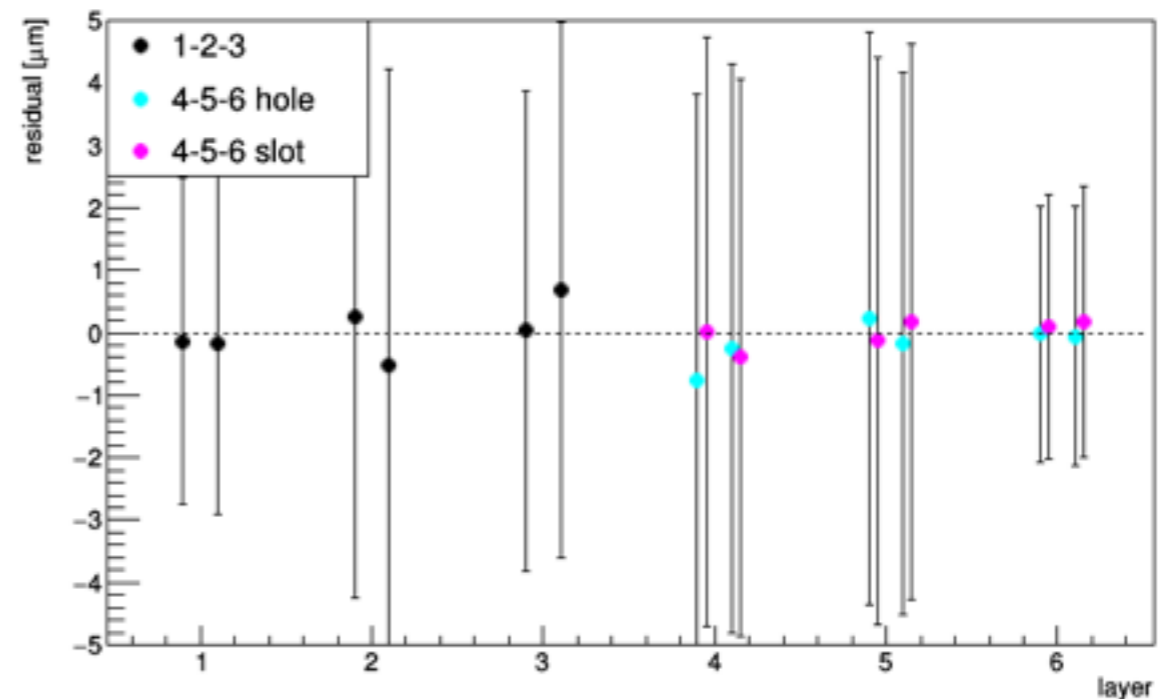
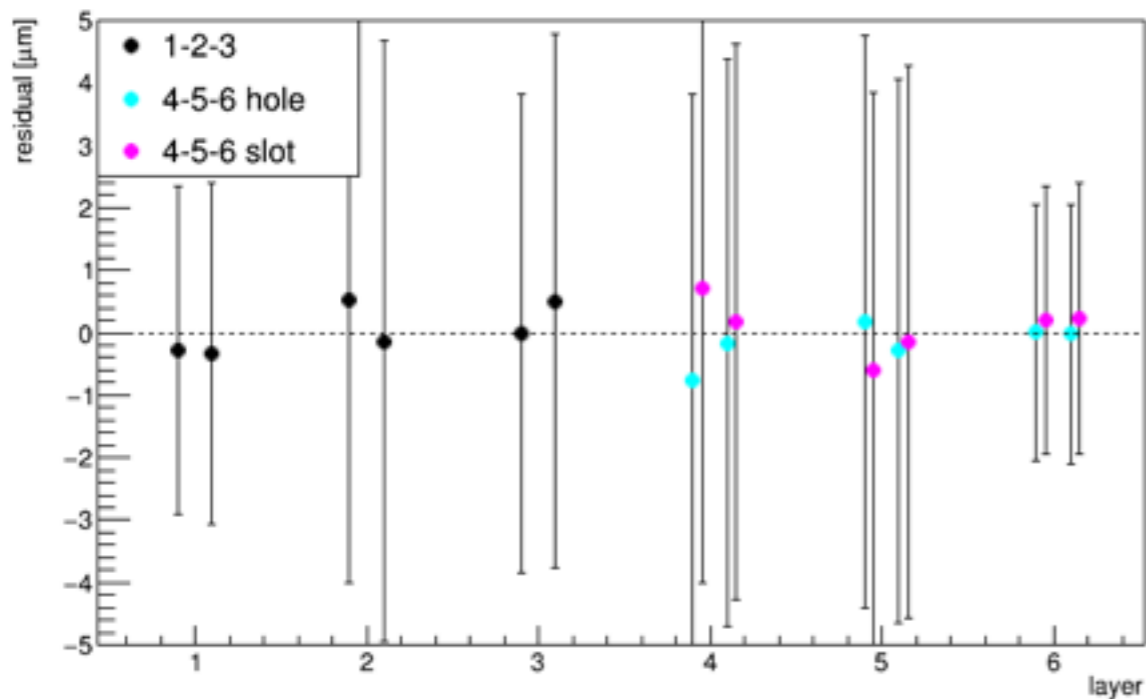
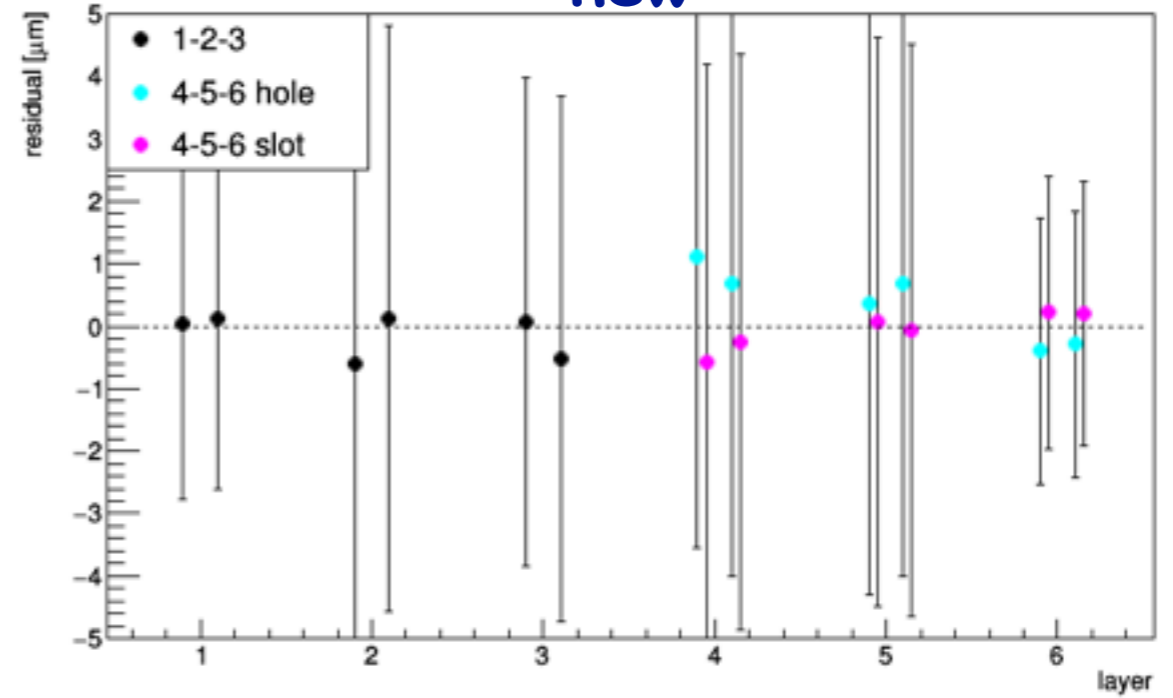
u residuals

curved tracks

current



new

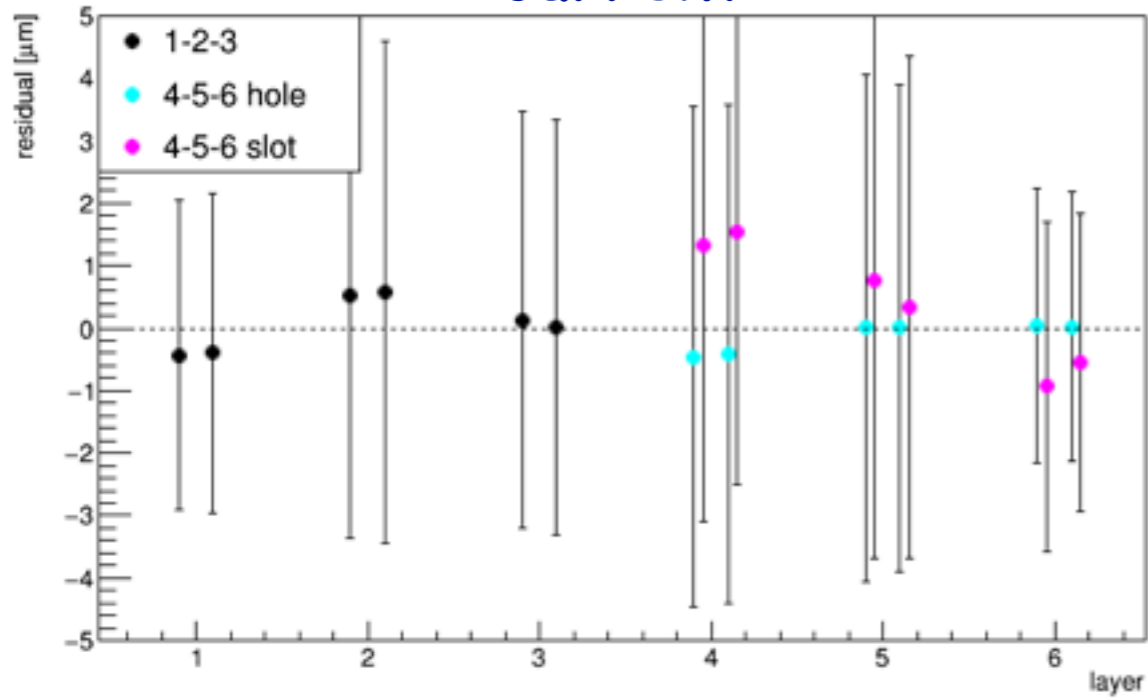


# current geo vs new geo (u+w translation only)

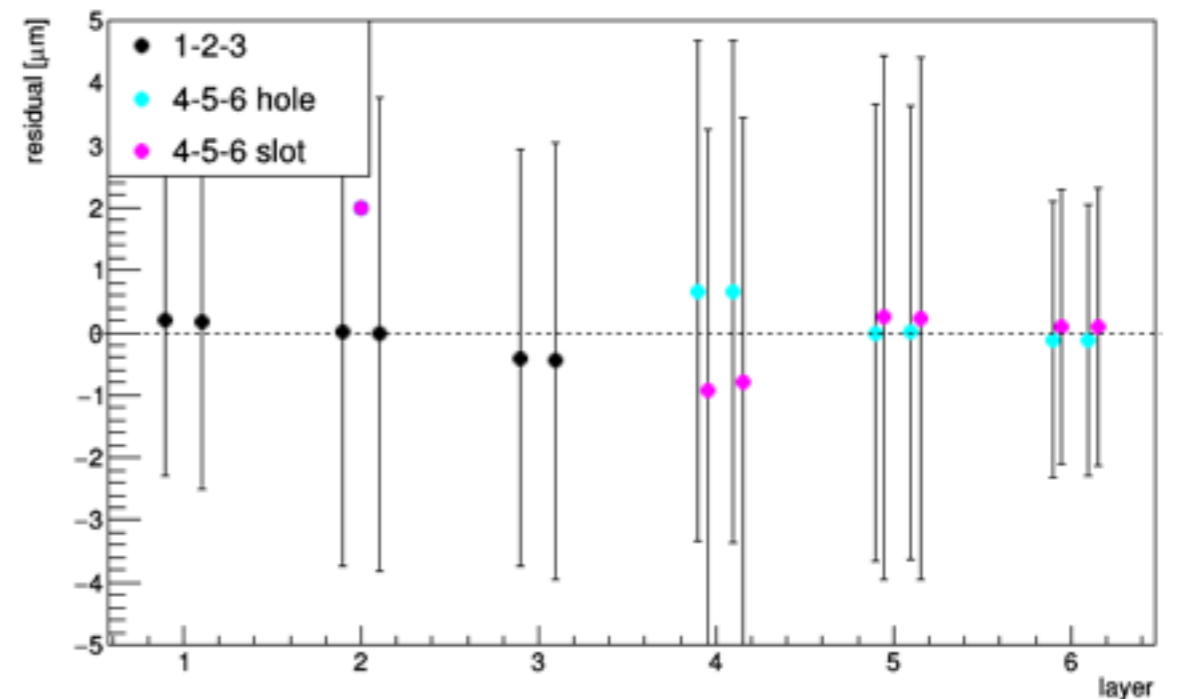
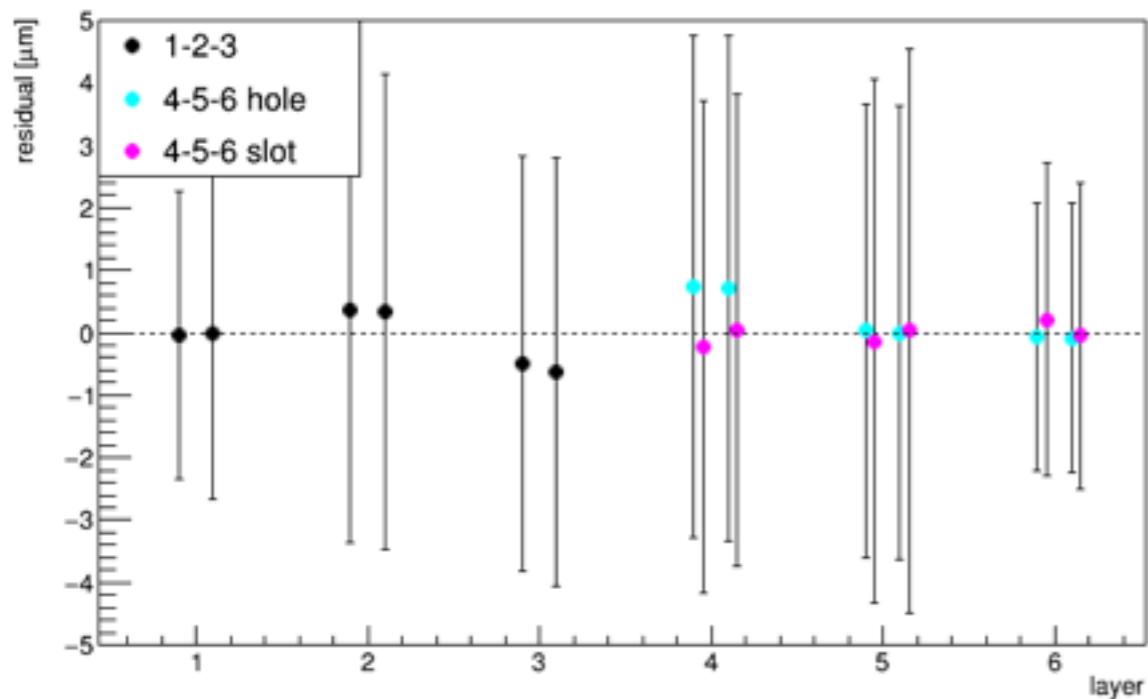
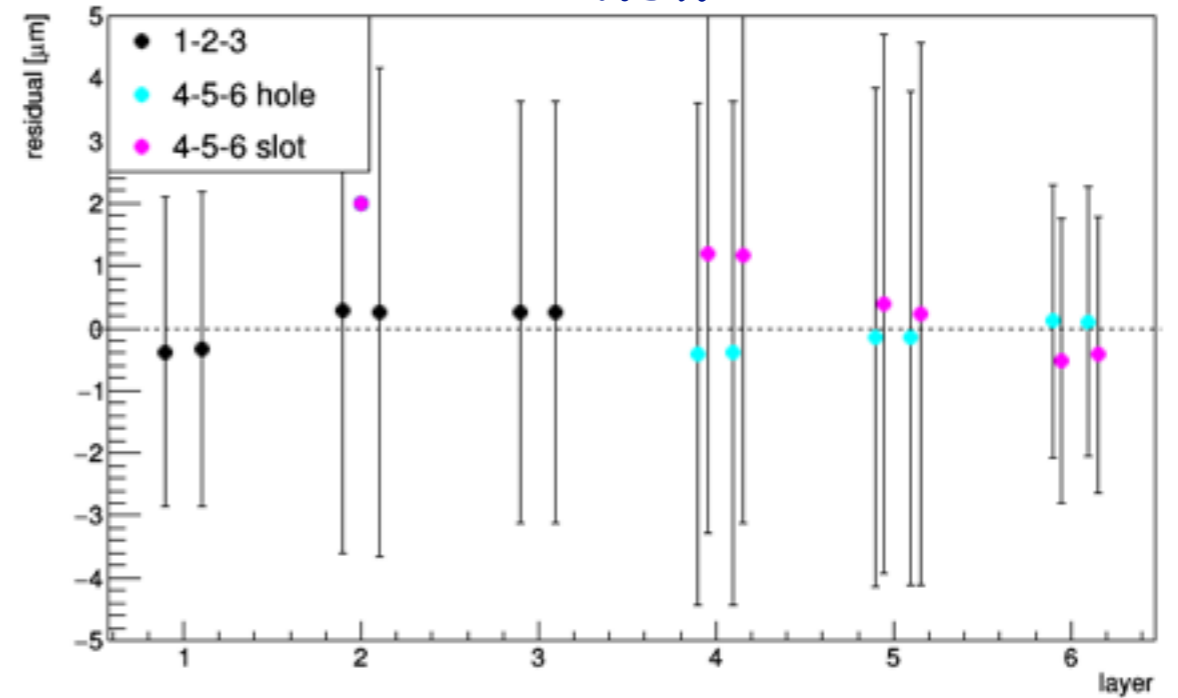
u residuals

straight tracks

current

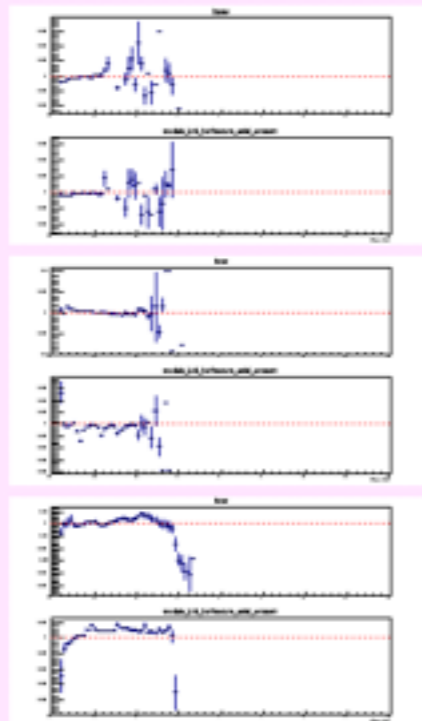


new



# new geo 2016 curved tracks: u residual vs u

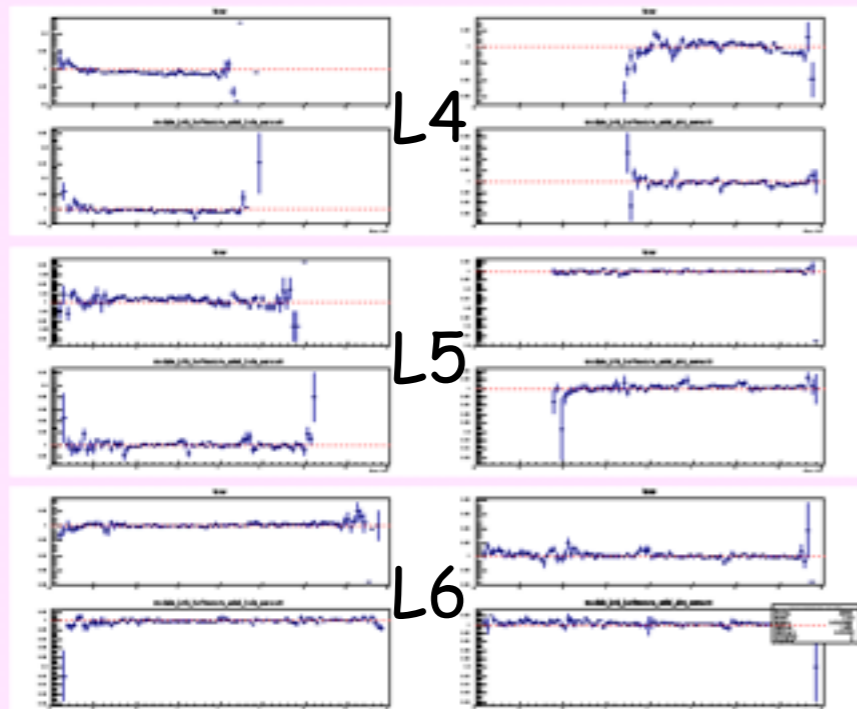
bottom



L1

L2

L3



L4

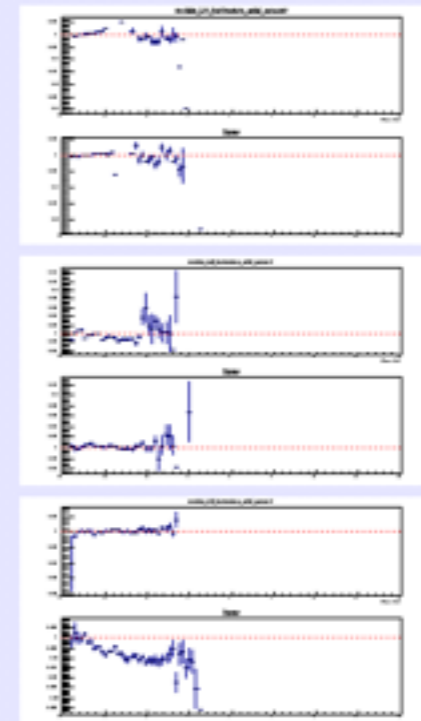
L5

L6

hole

slot

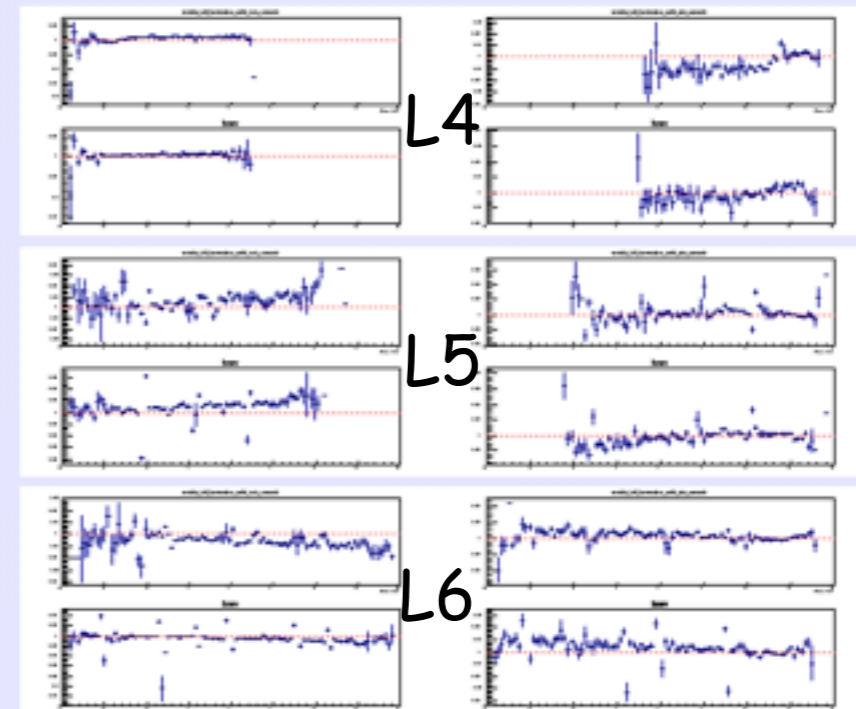
top



L1

L2

L3



L4

L5

L6

hole

slot

# new geo 2016 data global alignment

