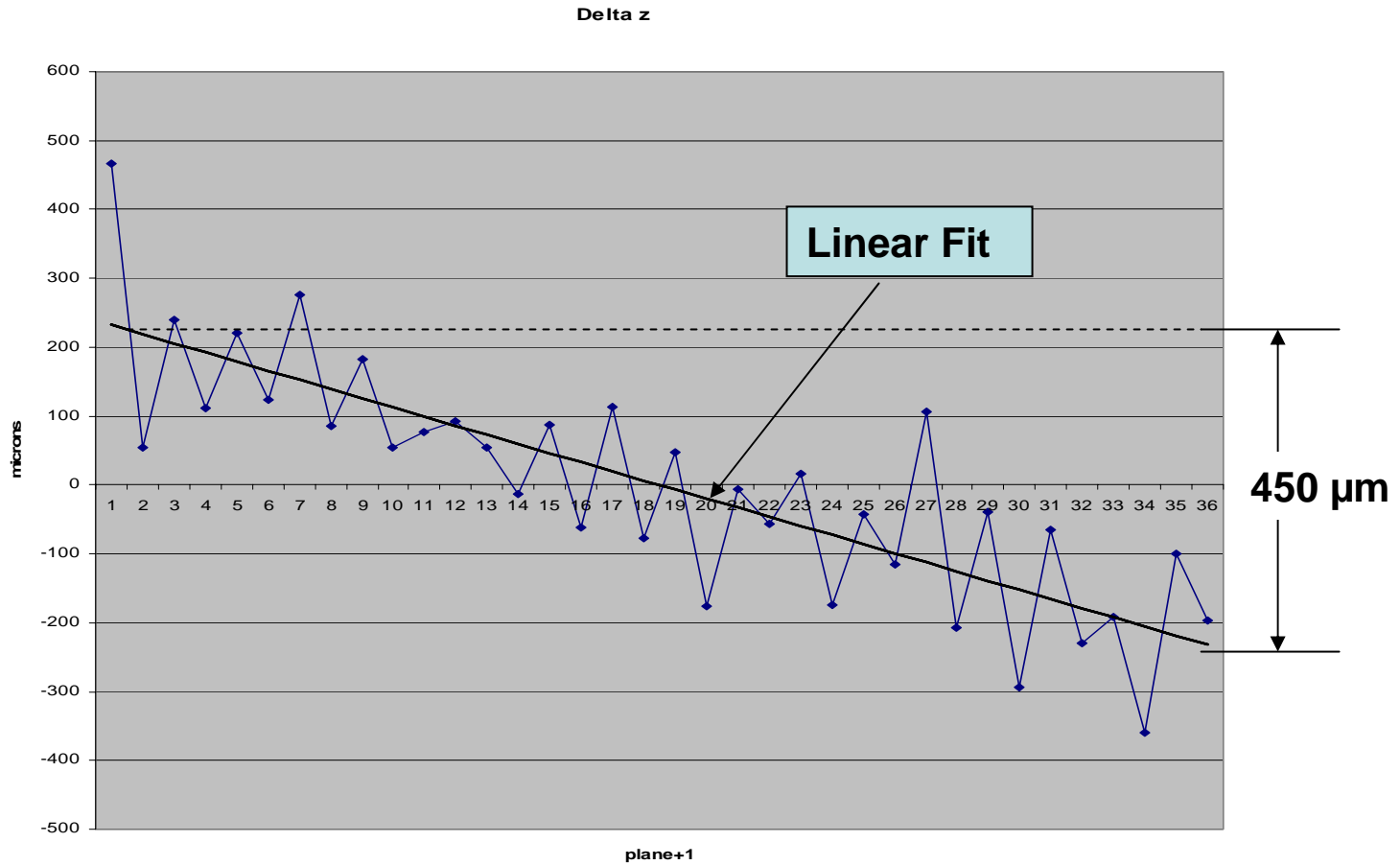


# Some Comments on the Intra-tower Alignment

Leon R.  
A&C Mtg, June 20, 2005

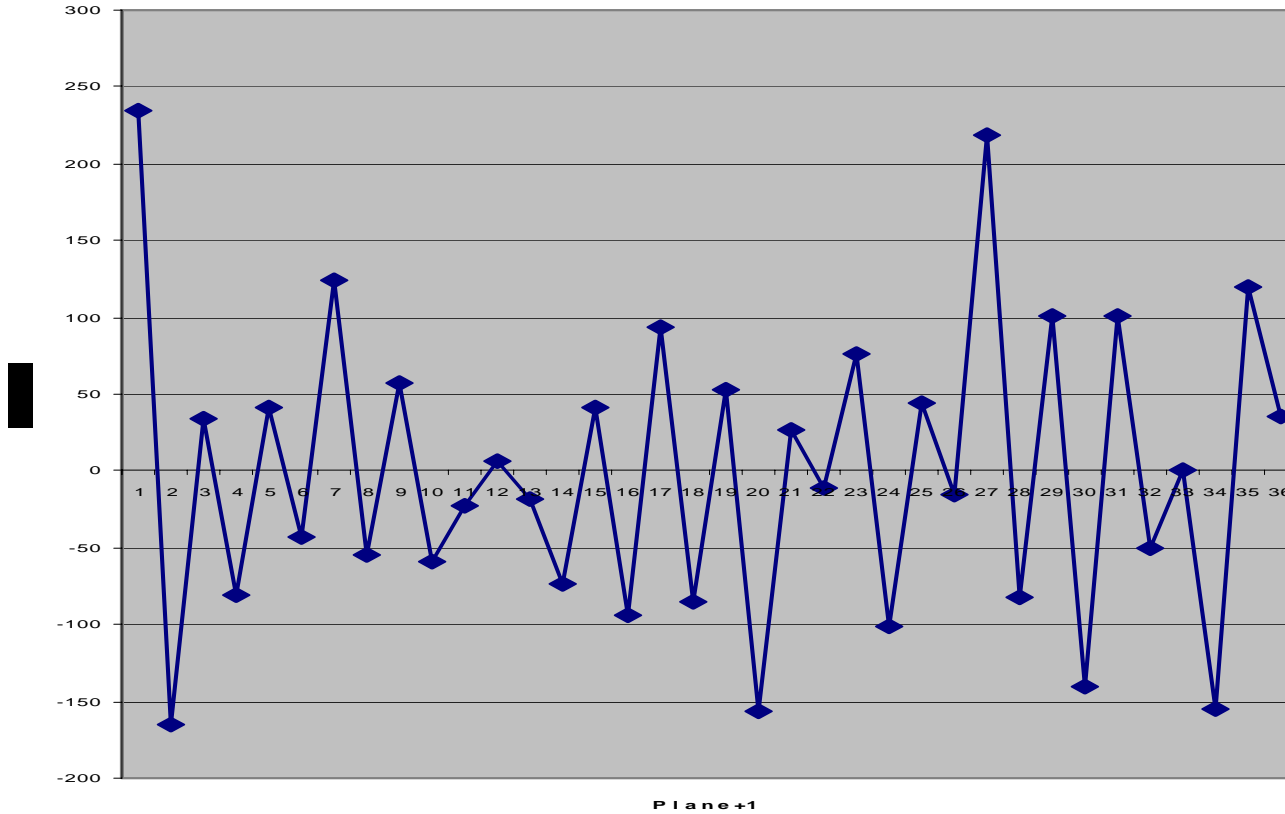
# Delta z vs plane number



***From Michael's intra-tower alignment***

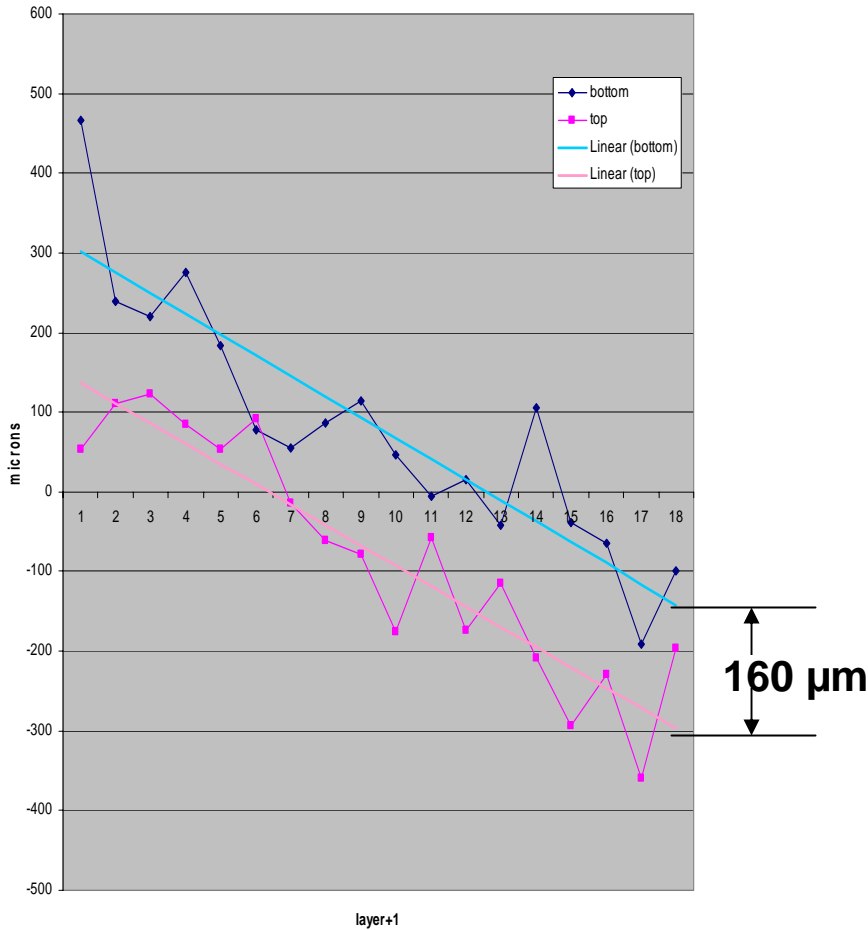
# Constrained Delta z

Constrained Delta-z's

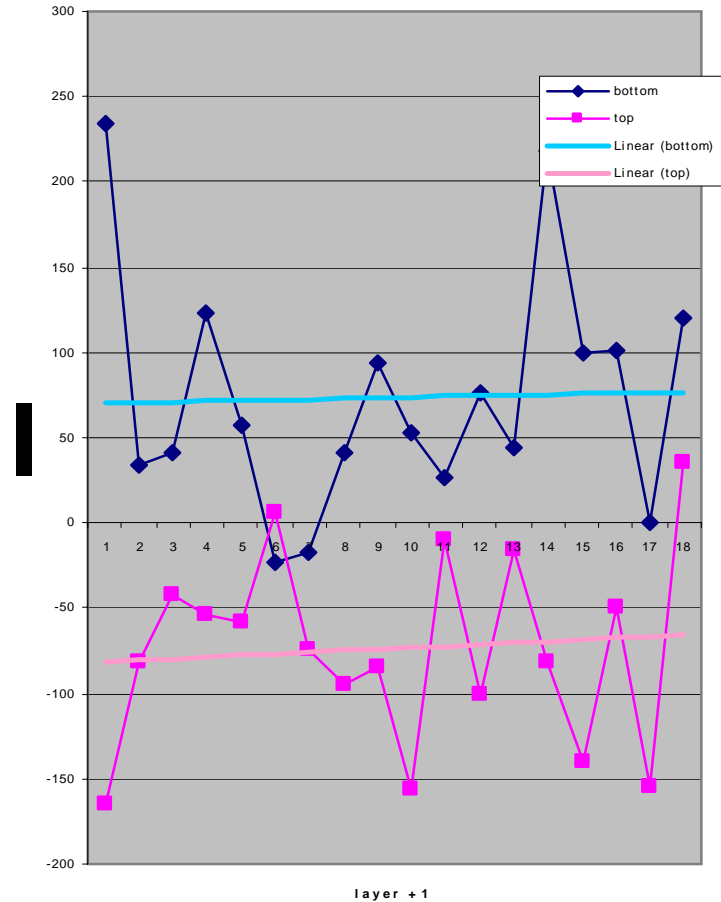


# Delta z vs layer, top and bottom of gaps separated

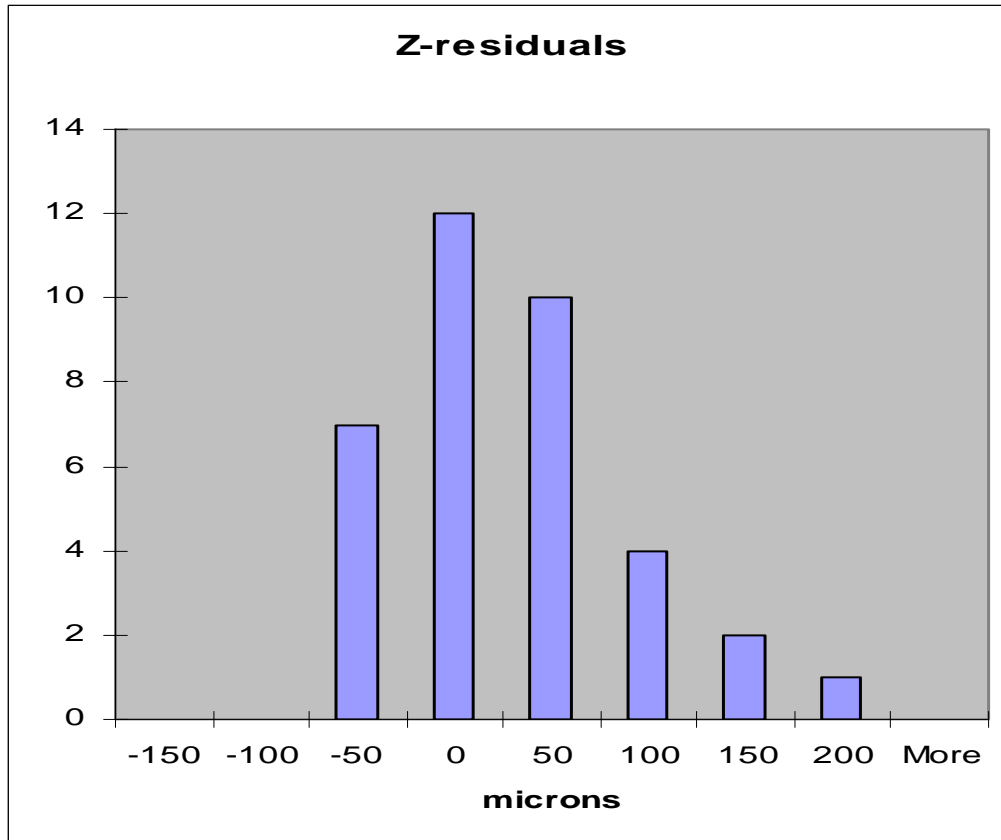
Deltas, top and bottom separated



deviations, top and bottom separated



# Local z Residuals



# Observations and Questions

Assuming a positive delta means the object is at higher z:

- ✓ Tracker is apparently shortened by  $\sim 450 \mu\text{m}$ .
  - Is there a fixed z-scale in the alignment process?
  - If not, should we normalize deltas to the nominal height?
- ✓ X-Y gaps are systematically smaller than nominal by  $\sim 160 \mu\text{m}$ .
  - real geometric effect?
  - centroid of charge collection not at the center of the silicon?