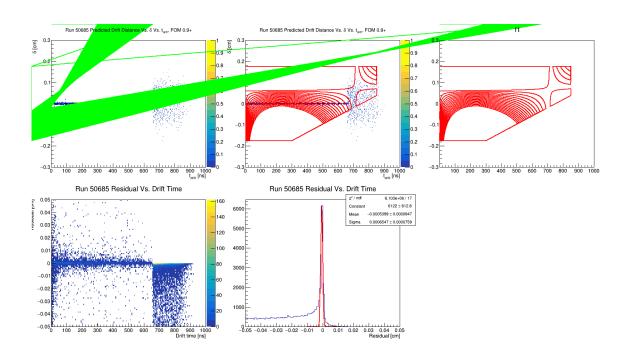
CDC → BCAL Workflow

• Sean: try setting all CDC drift parameters to 0?



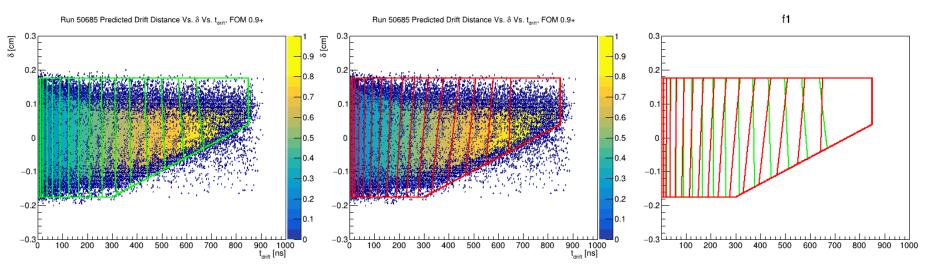


CDC → BCAL Workflow

/CDC/drift_parameters to try

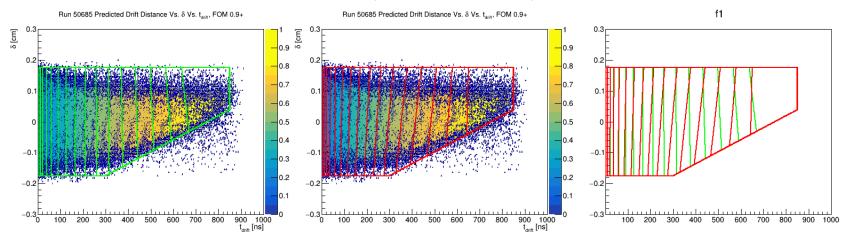
1	0.98164	0.0	0.0	0.0	0.0	0.	0.0	0.35	0.0	1.0	0.0
2	1.0129	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	1.0	0.0
3											

First iteration (CDC-TTOD calib)

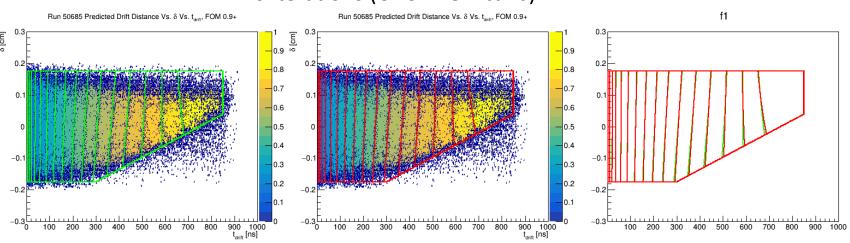




First iteration (CDC-TTOD calib)



10 iterations (CDC-TTOD calib)



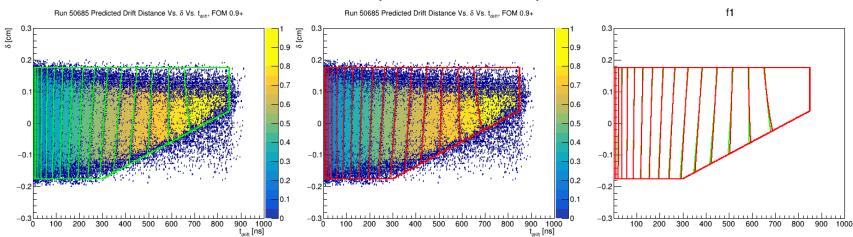


/CDC/drift_parameters initial

1	0.98164	0.0	0.0	0.0	0.0	0.	0.0	0.35	0.0	1.0	0.0
2	1.0129	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	1.0	0.0
3											

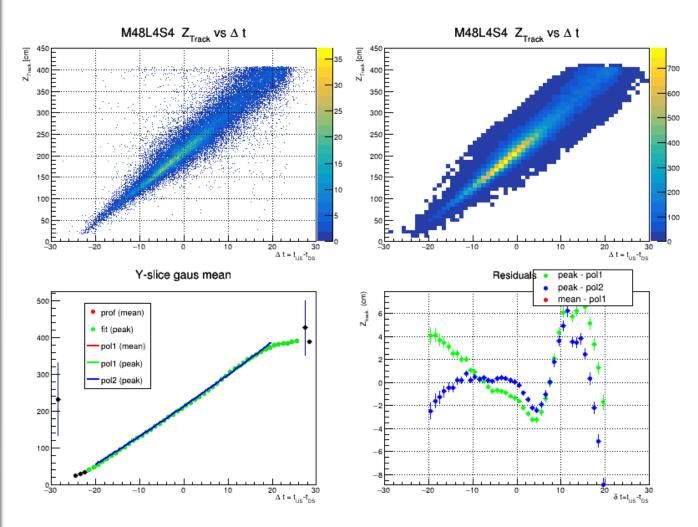
/CDC/drift_parameters final

10 iterations (CDC-TTOD calib)



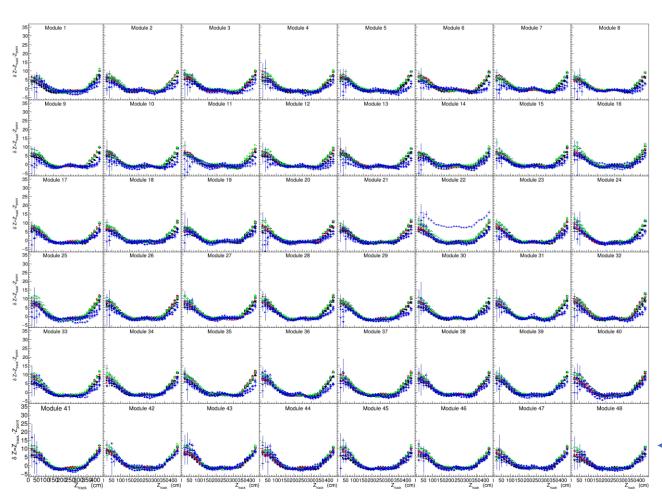


BCAL Residuals





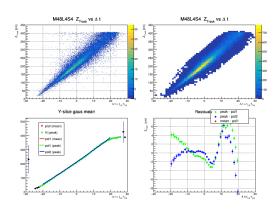
BCAL Residuals



Need to also update /BCAL/effective velocities before running more iterations

Brainstorming with Mark:

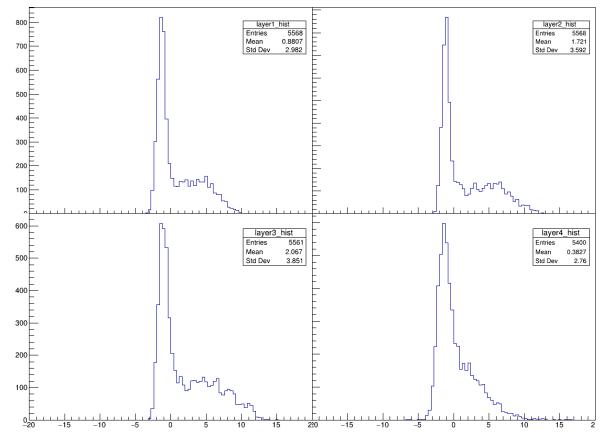
- Reduce fit range
- Unweighted fit instead of weighted by stats



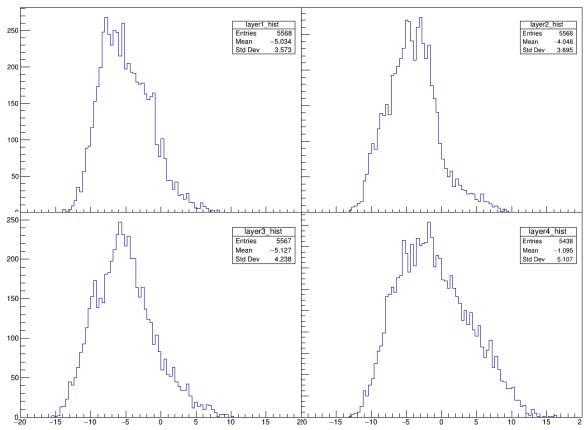


Quantifying Results

1D histogram of residuals from iter 1 (pre-2018 BCAL ccdb tables)

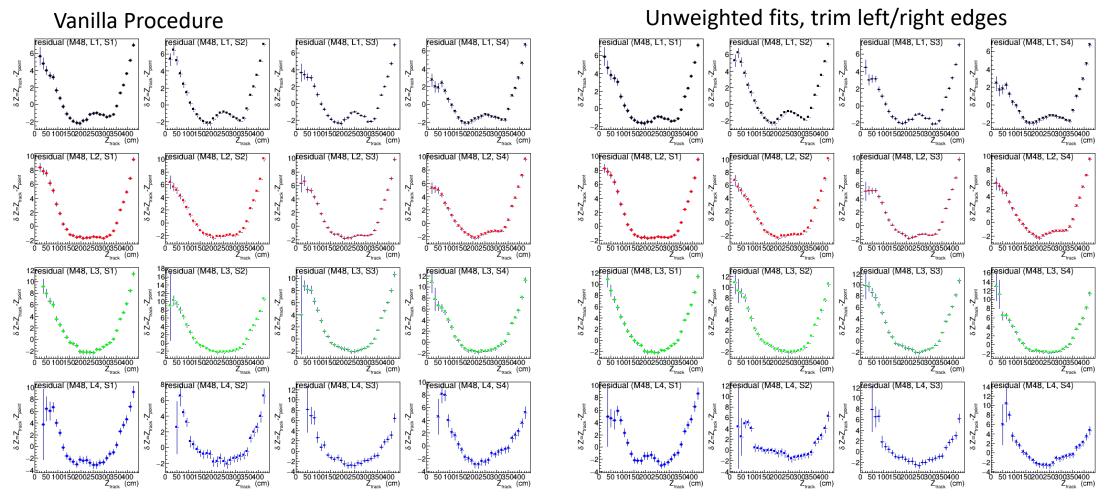


1D histogram of residuals, iter 2 (iter1 constants applied)





Tweaks to Calibration





Summary

- Need to add /BCAL/effective velocities
- Meet with Mark and Naomi sometime next week?

- Look into TOF → FDC t0 calibrations?
 - FOM: FDC residuals

- BCAL π^0 calibrations?
 - Just one subdetector, but ~ 15 iterations

