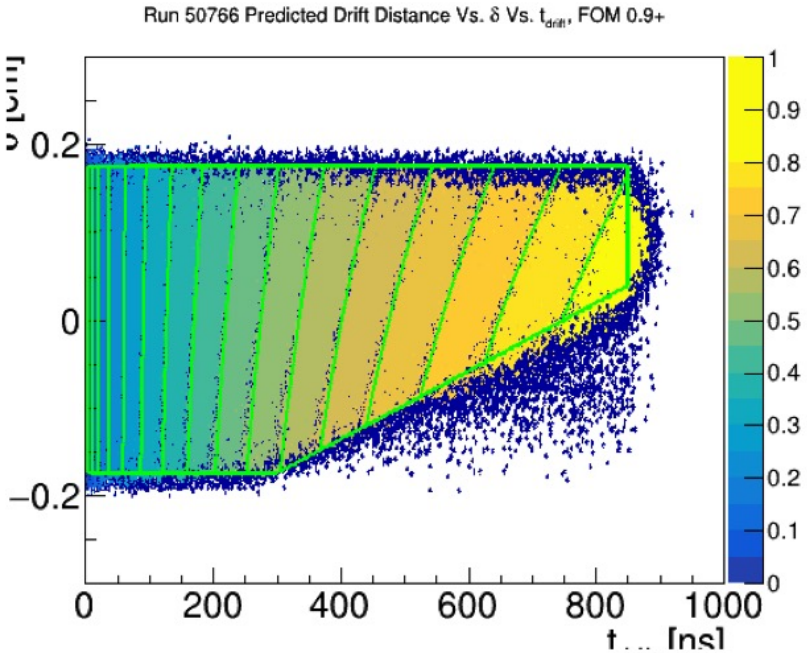
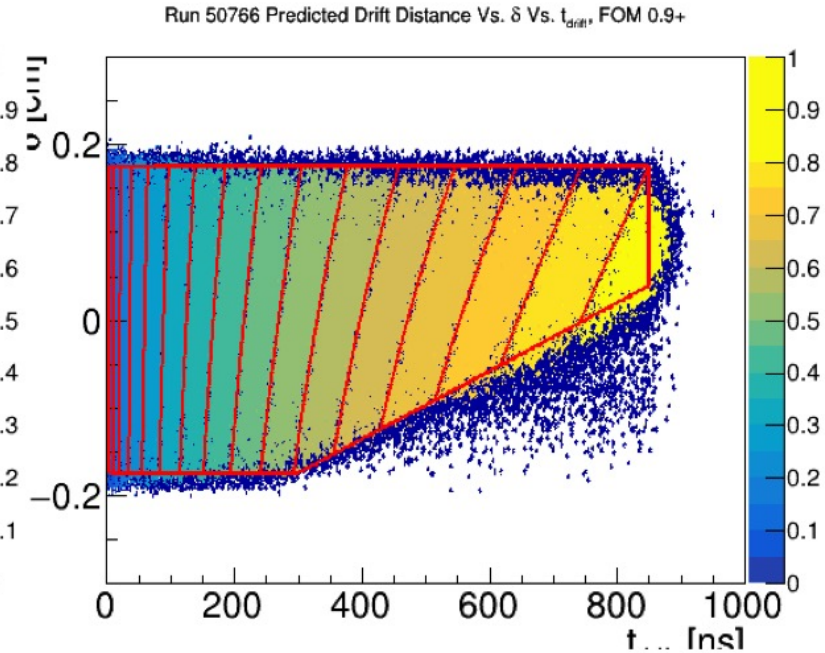
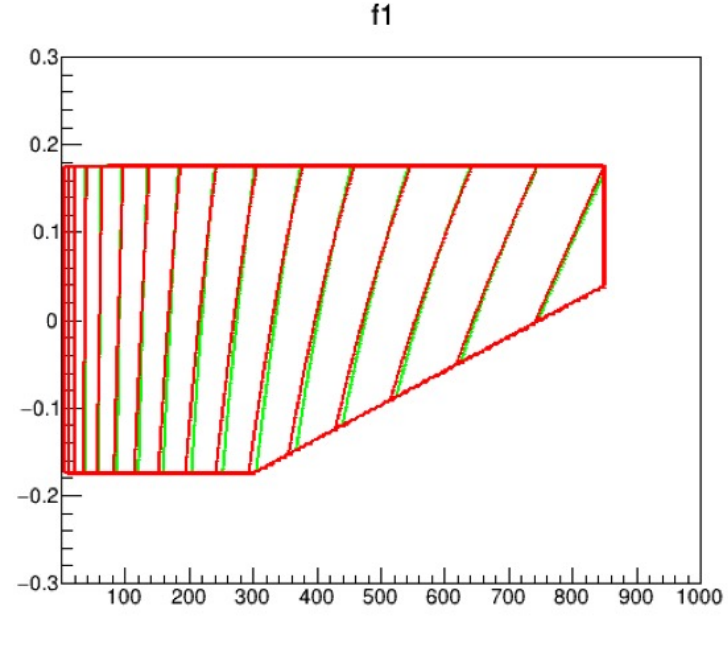
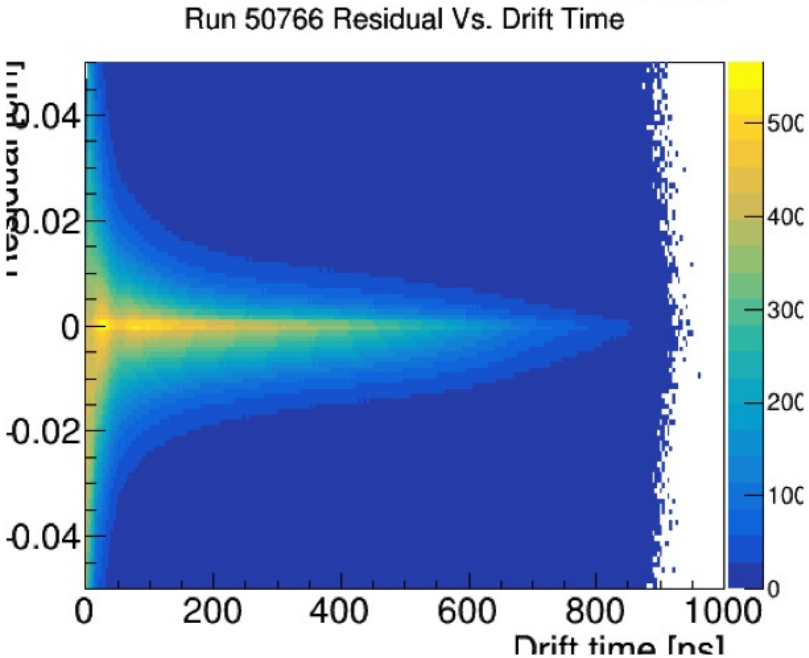
CDC Calibrations

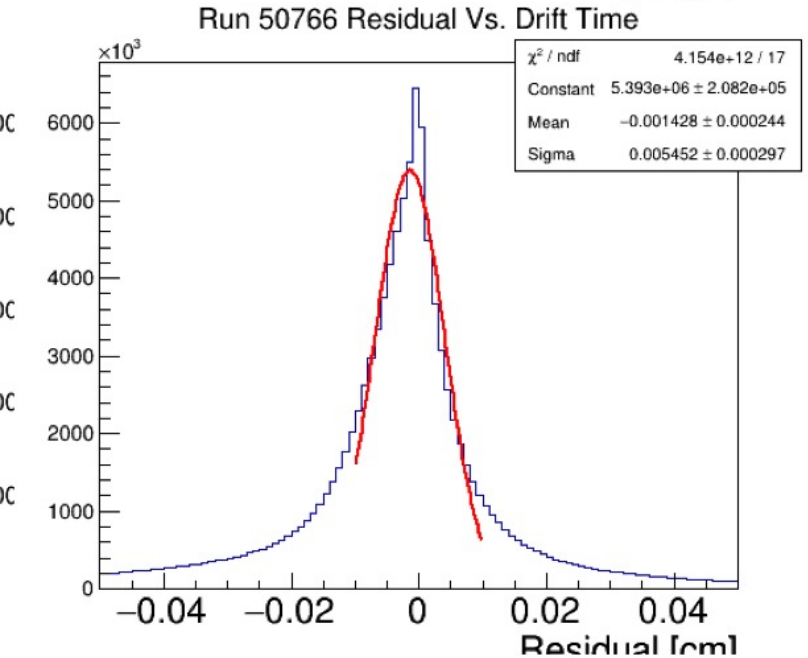
Time to Distance


Run 50766 Predicted Drift Distance Vs. δ Vs. t_drift, FOM 0.9+
0.2
0
−0.2
0
200
400
600
800
1000
t_... [ns]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0


Run 50766 Predicted Drift Distance Vs. δ Vs. t_drift, FOM 0.9+
0.2
0
−0.2
0
200
400
600
800
1000
t_... [ns]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

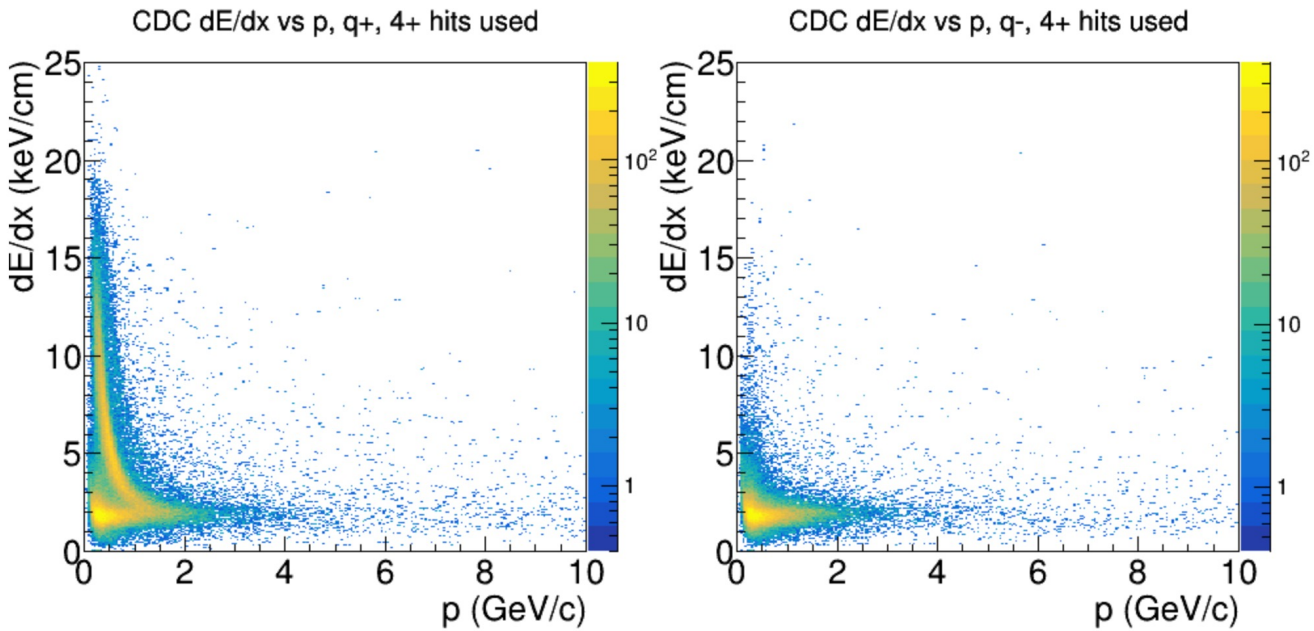

f1
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
100
200
300
400
500
600
700
800
900
1000

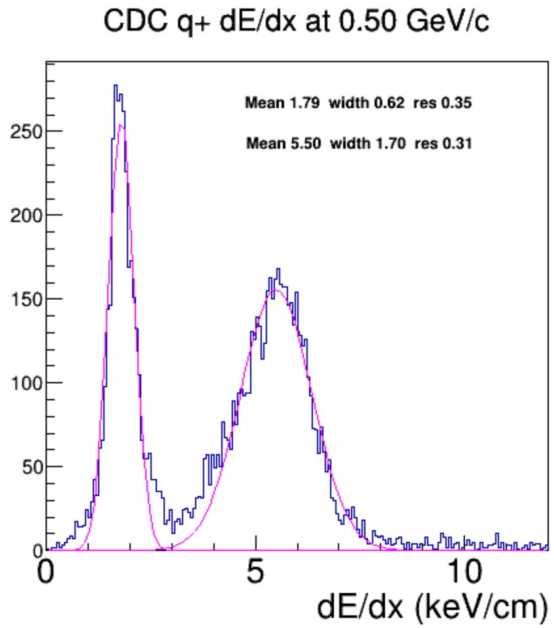

Run 50766 Residual Vs. Drift Time
0.04
0.02
0
-0.02
-0.04
0
200
400
600
800
1000
Drift time [ns]
500
400
300
200
100
0

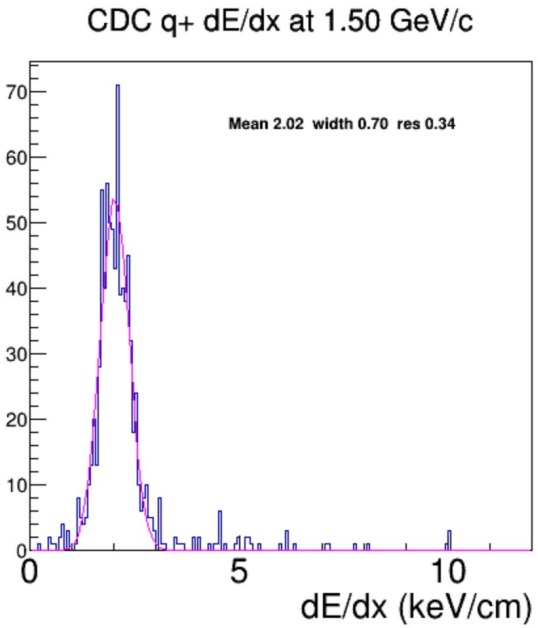

Run 50766 Residual Vs. Drift Time
×10^3
6000
5000
4000
3000
2000
1000
0
−0.04
−0.02
0
0.02
0.04
Residual [cm]
χ² / ndf 4.154e+12 / 17
Constant 5.393e+06 ± 2.082e+05
Mean −0.001428 ± 0.000244
Sigma 0.005452 ± 0.000297

De/dx

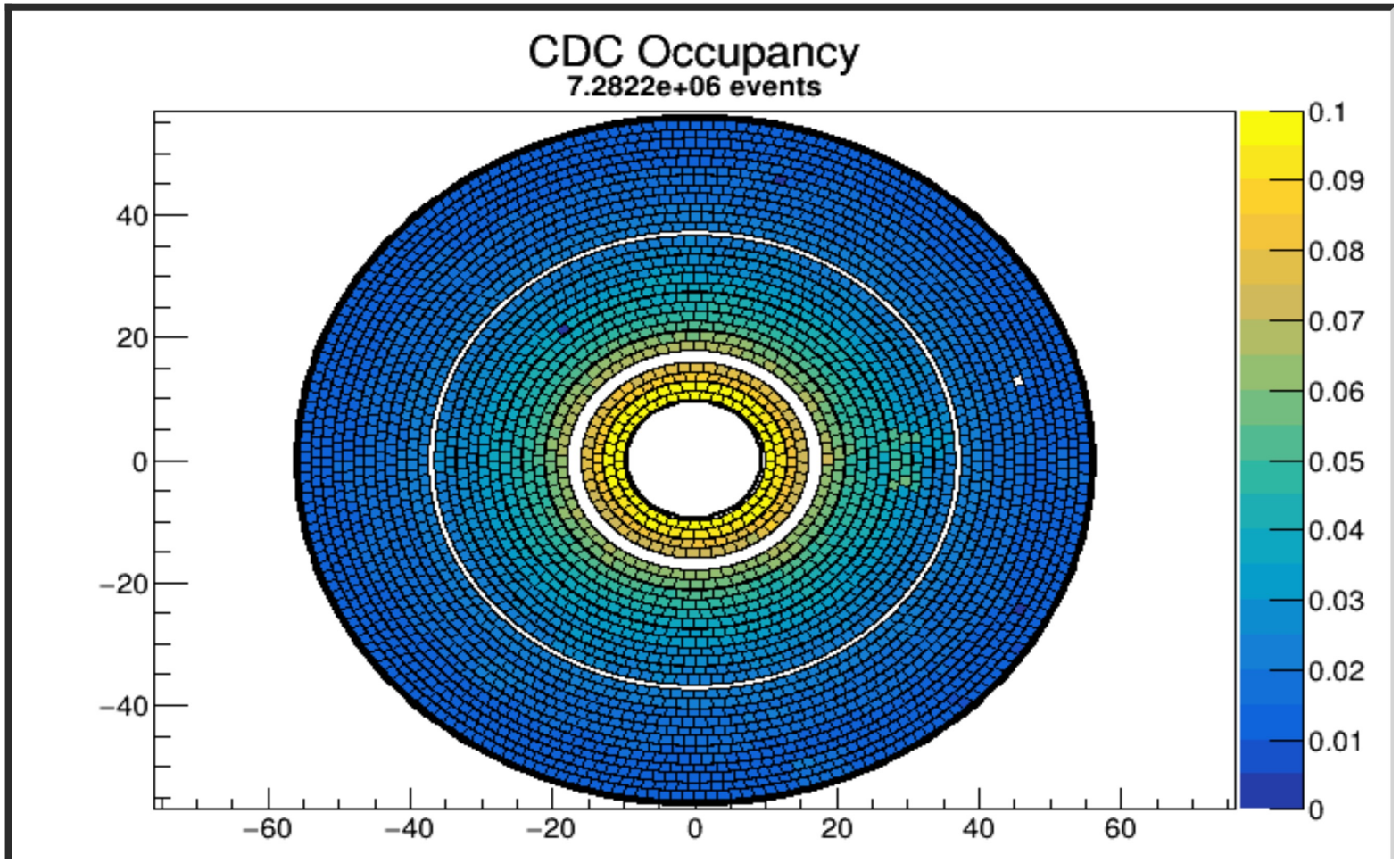
De/dx







Monitoring Plots



Jlab Support

- Torri and Simon

- Going through calibrations with Torri this week
- Running through my own calibration practices on 2020 data

- Naomi gave Sean start values for the CDC, but will be closely looked at during start of SRC/CT experiment