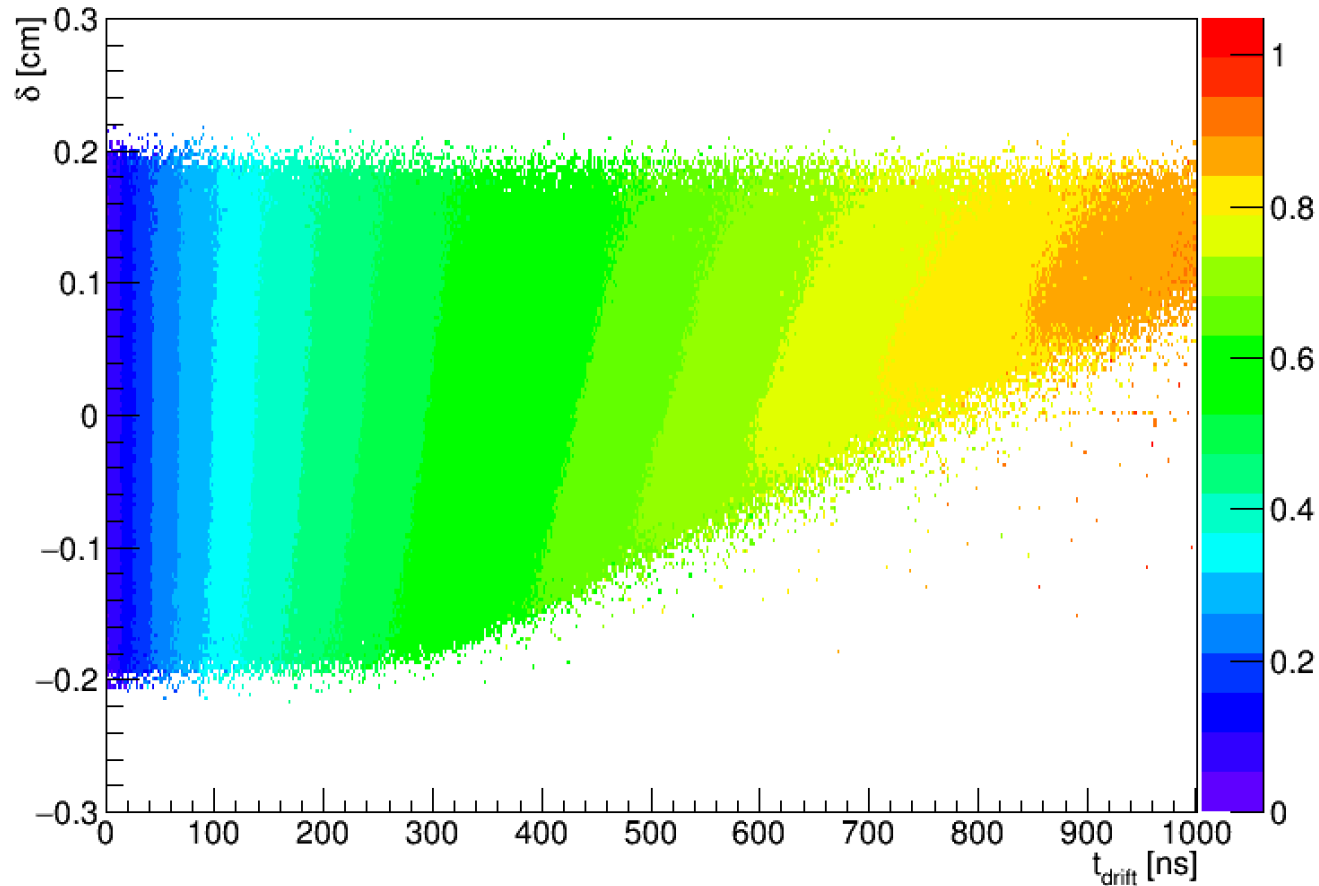


Fitting the time-to-distance relation

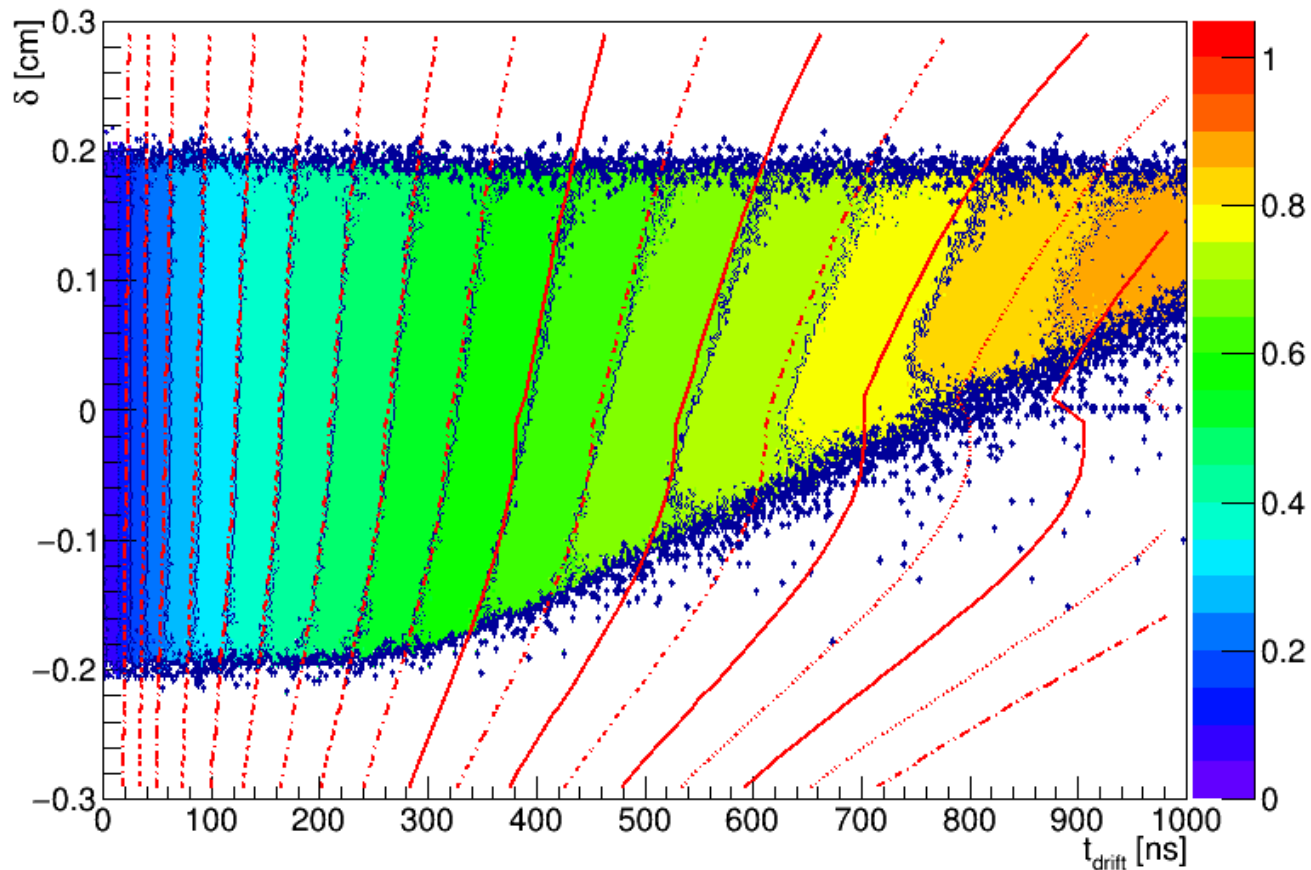
Predicted Drift Distance Vs. δ Vs. t_{drift}



The (3D) plot shows what the average distance expected from the track fit as a function of delta and drift time in the straw.

Fitting the time-to-distance relation

Predicted Drift Distance Vs. δ Vs. t_{drift}



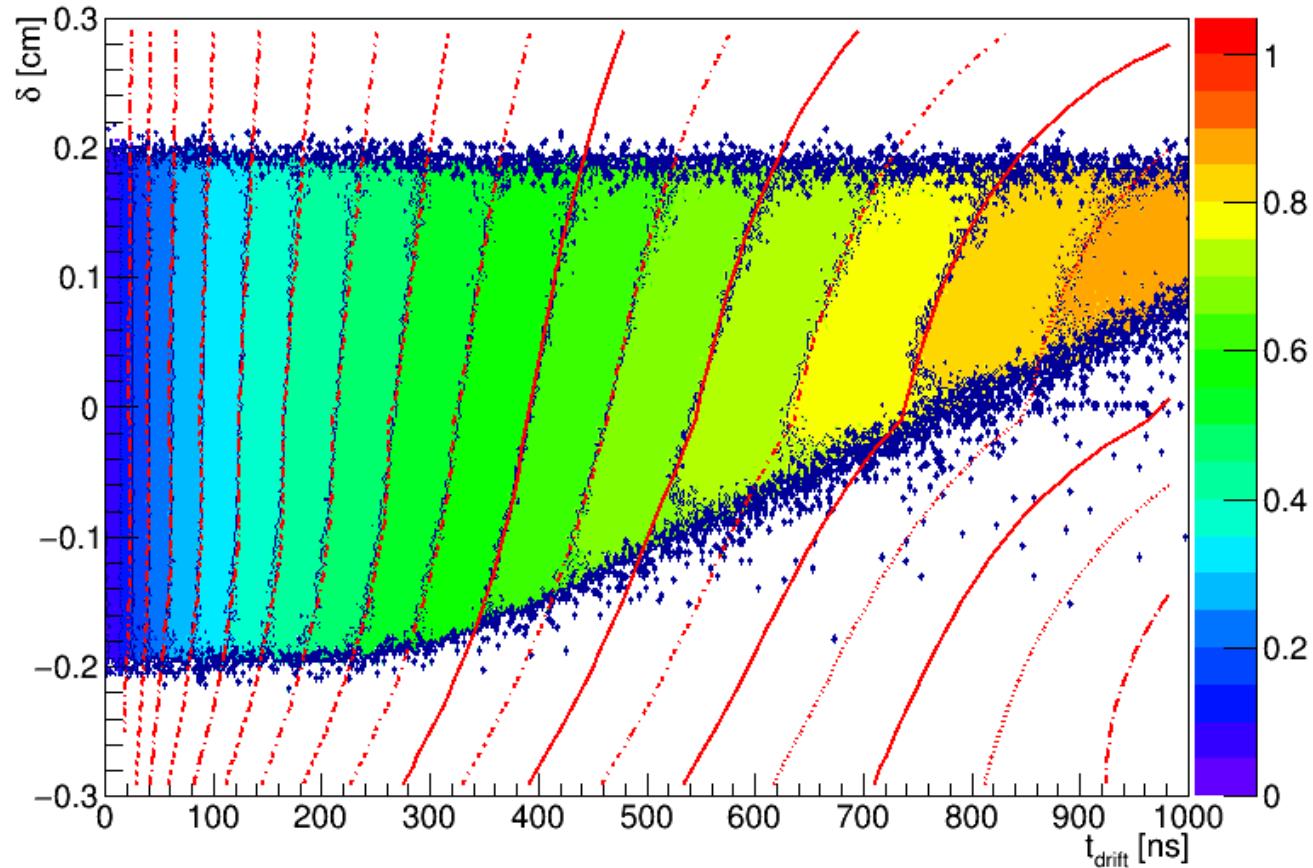
This is the same plot overlaid with the contours of the T-D lookup extracted from GARFIELD (red lines).

Ideally the contours of the data should line up with the lookup...

Run 3650

Fitting the time-to-distance relation

Predicted Drift Distance Vs. δ Vs. t_{drift}

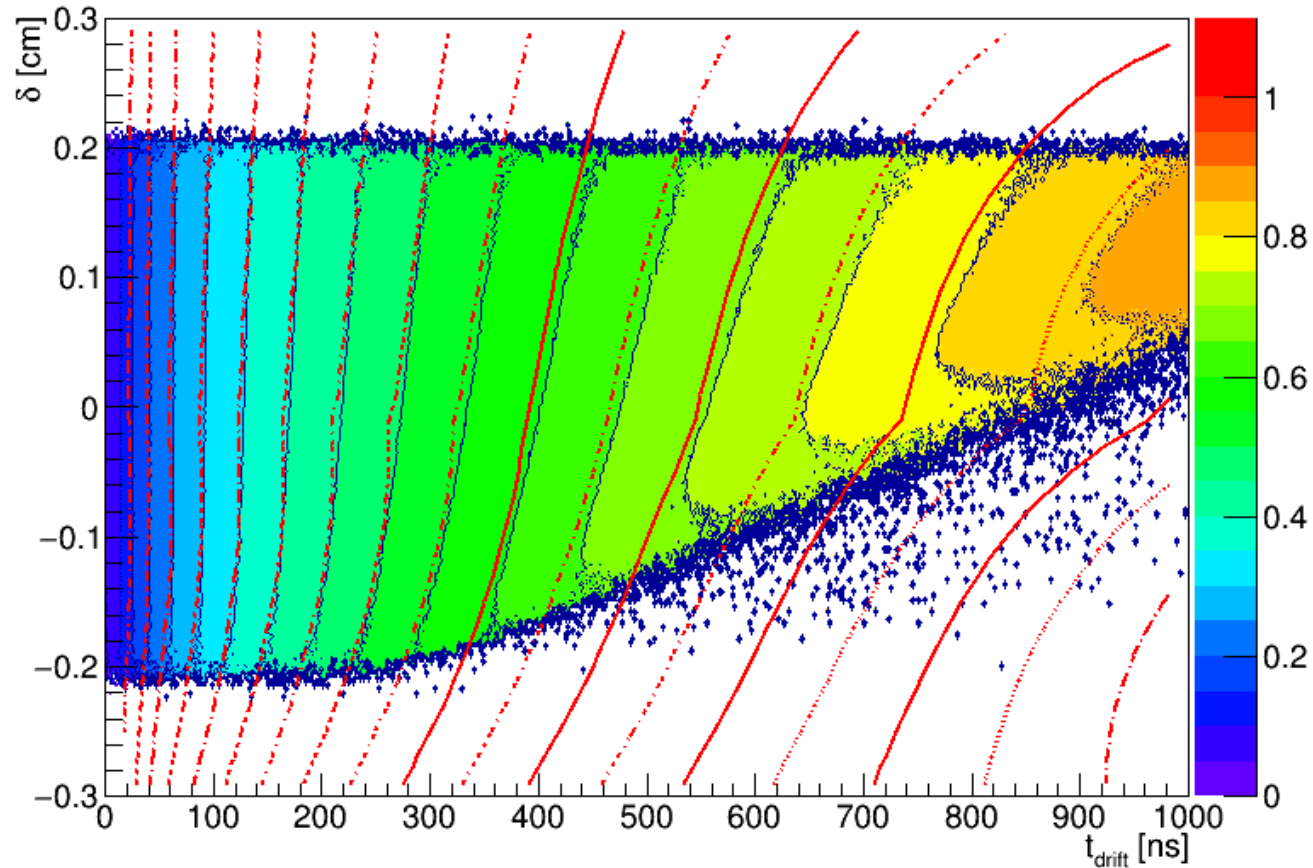


Instead we can fit the function to the data to get better agreement.

Run 3650

Fitting the time-to-distance relation

Predicted Drift Distance Vs. δ Vs. t_{drift}

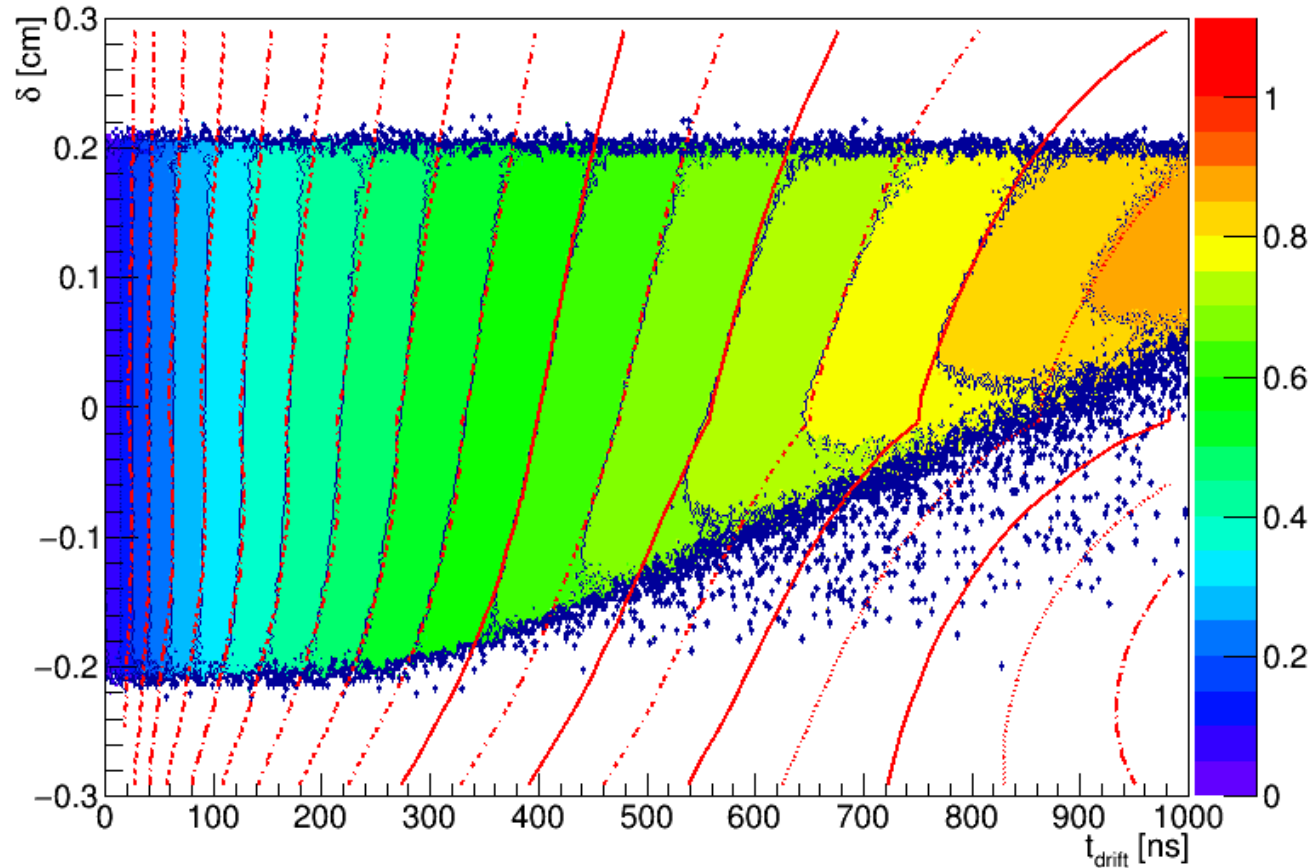


The results of the Run 3650 fit, don't match the 3673 data well.

Run 3673

Fitting the time-to-distance relation

Predicted Drift Distance Vs. δ Vs. t_{drift}

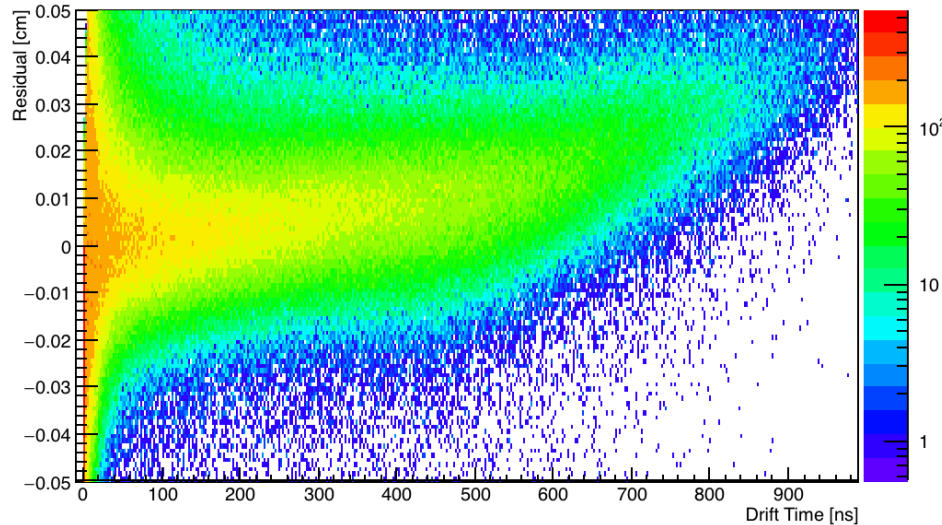


After the fit. Have to understand structure at high drift times better.

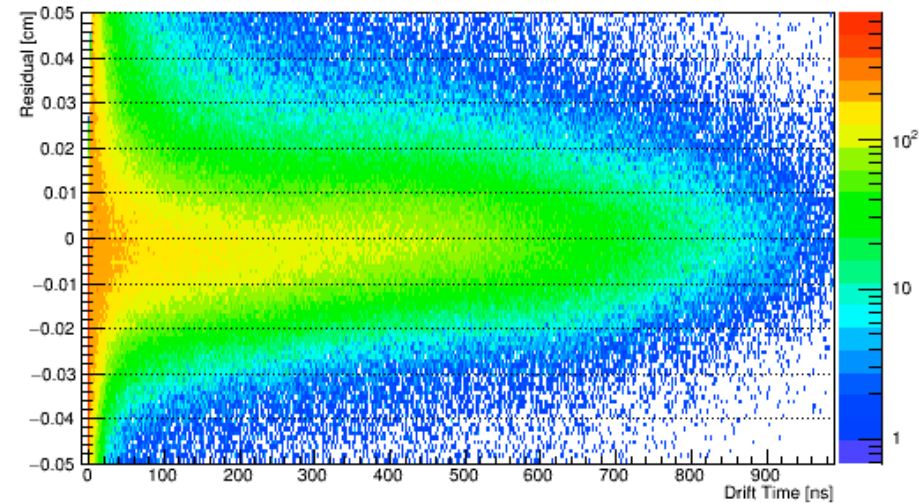
Run 3673

Fitting the time-to-distance relation

Residual Vs. Drift Time



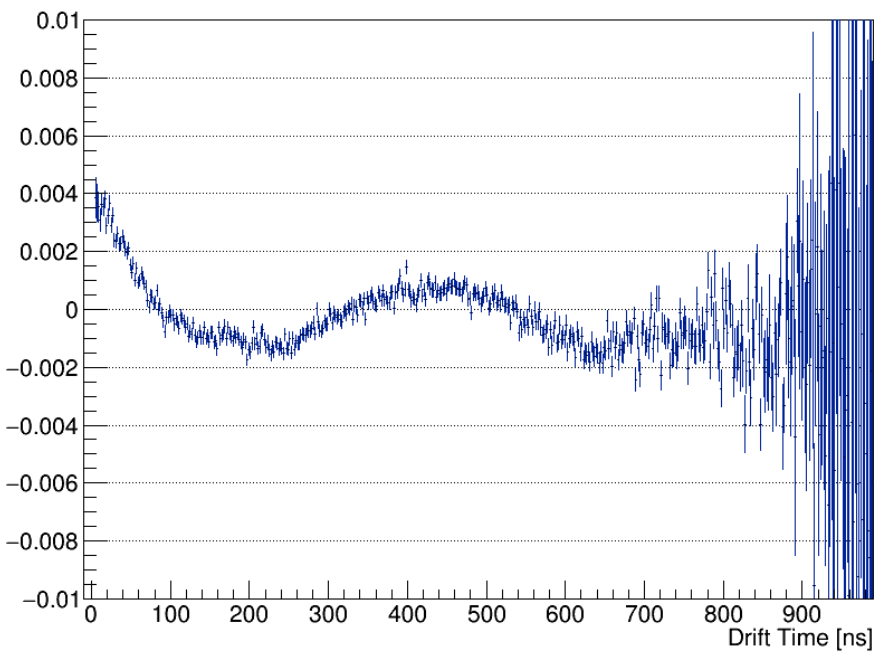
Residual Vs. Drift Time



Things look better, especially at long drift times.

Run 3650 + 3673

Fitted value of par[1]=Mean



Fitted value of par[2]=Sigma

