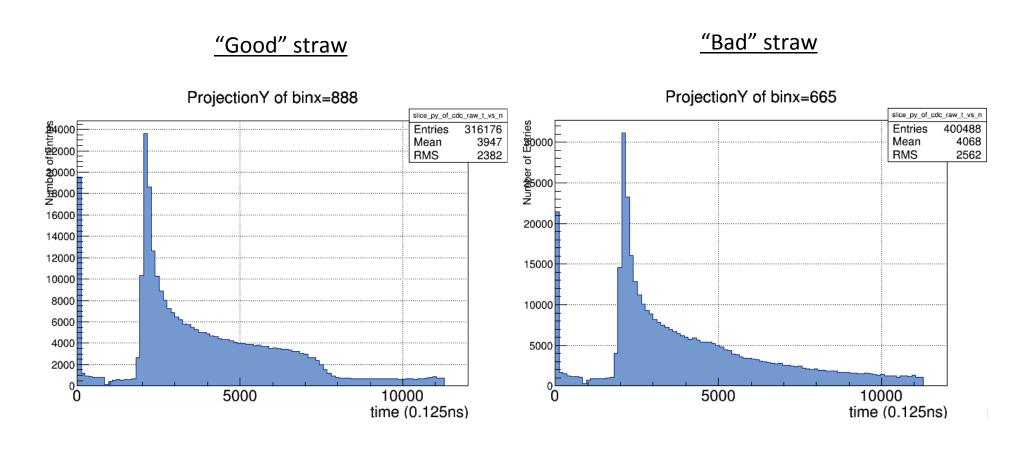
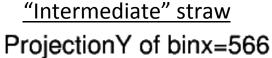
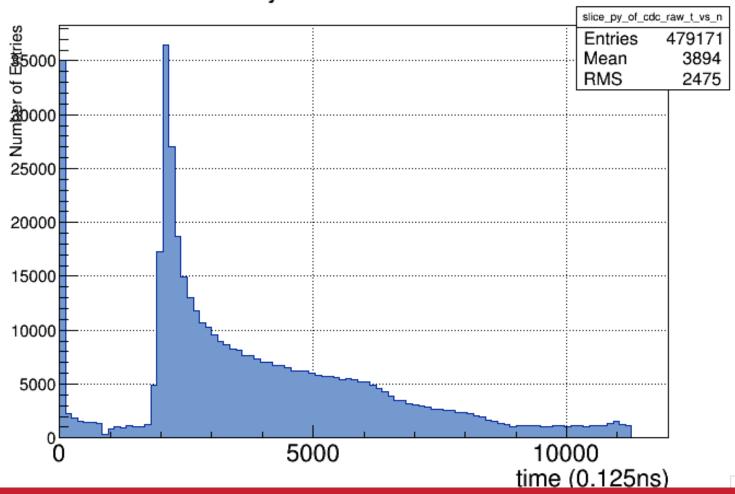
• It was noticed very early in the running of the CDC at Jlab that the timing spectrum for the CDC was not as expected.

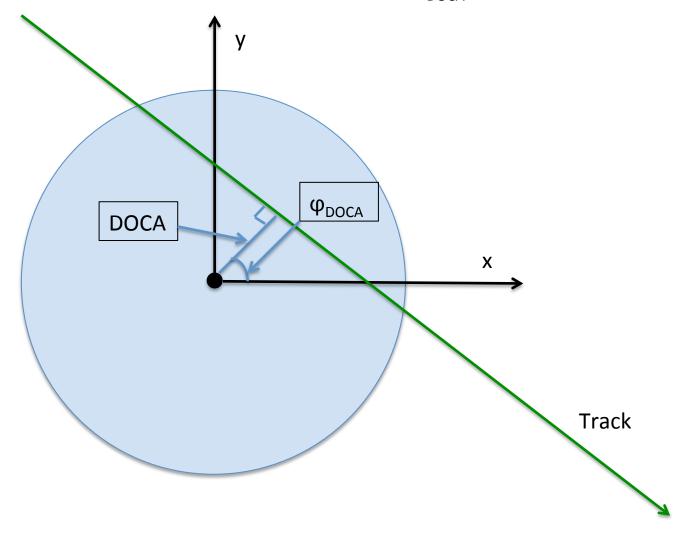


• It was noticed very early in the running of the CDC at Jlab that the timing spectrum for the CDC was not as expected.

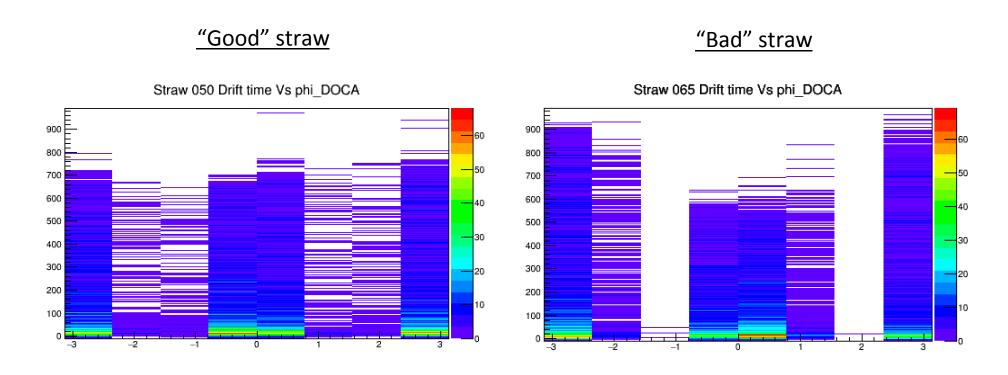




• Look at the timing distribution as a function of the " $\phi_{DOCA}$ "



- Look at the timing distribution as a function of the " $\phi_{DOCA}$ "
- x-axis is  $\phi_{DOCA}$  in radians, y-axis is measured drift time. Straw is not included in the fit.

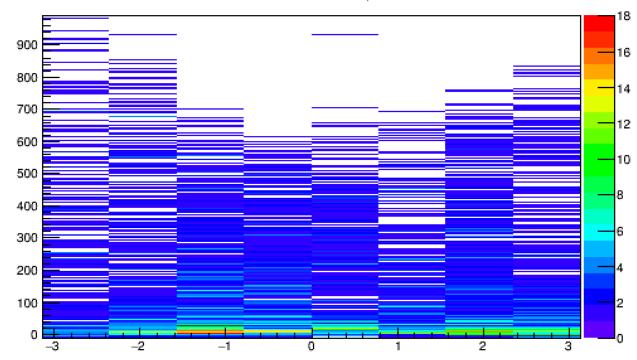


- Investigating if there is a pattern to where the "bad" straws are hints that there is.
- Include more data to fill in these distributions.
- Need **a lot** of data to determine corrections straw by straw in several bins of  $\phi_{DOCA}$  and z.

- Look at the timing distribution as a function of the "φ<sub>DOCA</sub>"
- x-axis is  $\phi_{DOCA}$  in radians, y-axis is measured drift time. Straw is not included in the fit.

#### Near the Side

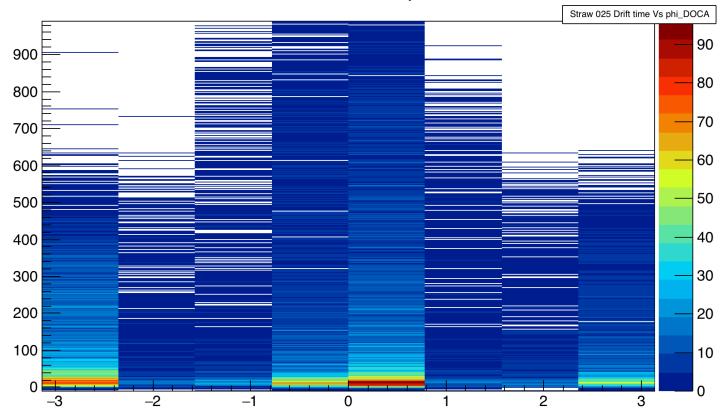
#### Straw 107 Drift time Vs phi\_DOCA



- Investigating if there is a pattern to where the "bad" straws are hints that there is.
- Include more data to fill in these distributions.
- Need **a lot** of data to determine corrections straw by straw in several bins of  $\phi_{DOCA}$  and z.

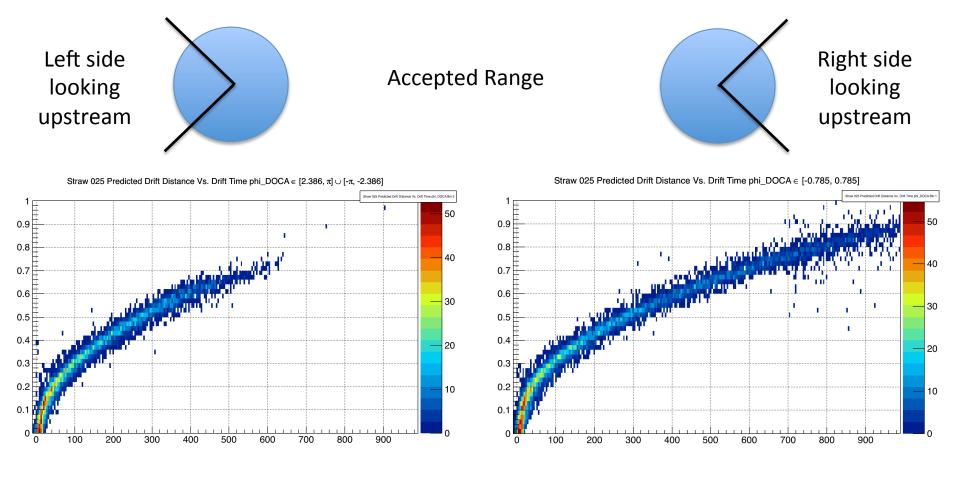
- Look at the timing distribution as a function of the " $\phi_{DOCA}$ "
- x-axis is  $\phi_{DOCA}$  in radians, y-axis is measured drift time in ns. Straw is not included in the fit.

#### Straw 025 Drift time Vs phi\_DOCA

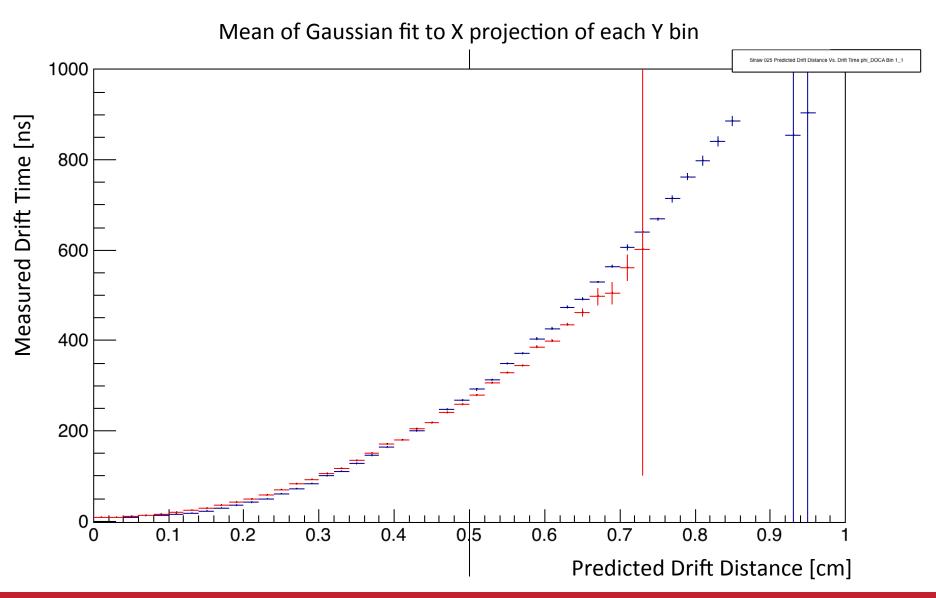


 Take a particularly bad straw and plot the predicted drift distance from the track vs. the time recorded on the straw.

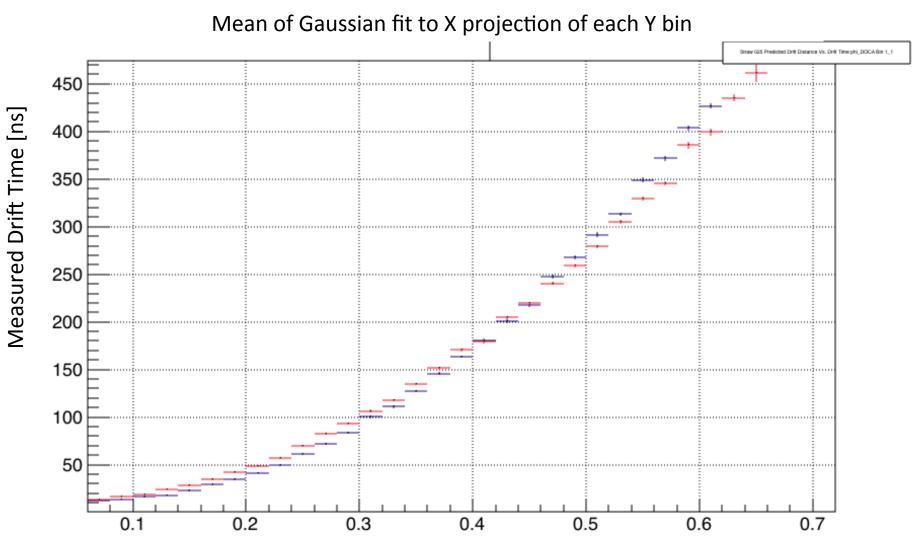
- Look at the timing distribution as a function of the " $\phi_{DOCA}$ "
- x-axis is measured drift time in ns, y-axis is predicted drift distance in cm.
- Straw is not included in the fit.



Now FitSlicesX()...



Slightly zoomed in...



Predicted Drift Distance [cm]