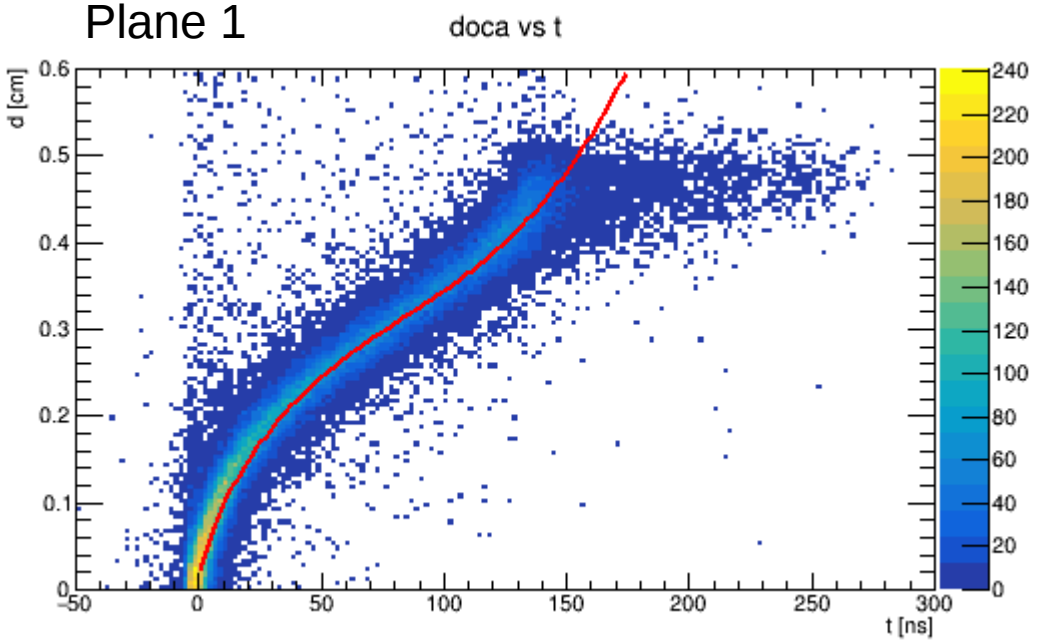
FDC position resolutions using straight tracks (Run 40847)

Simon Taylor / JLab

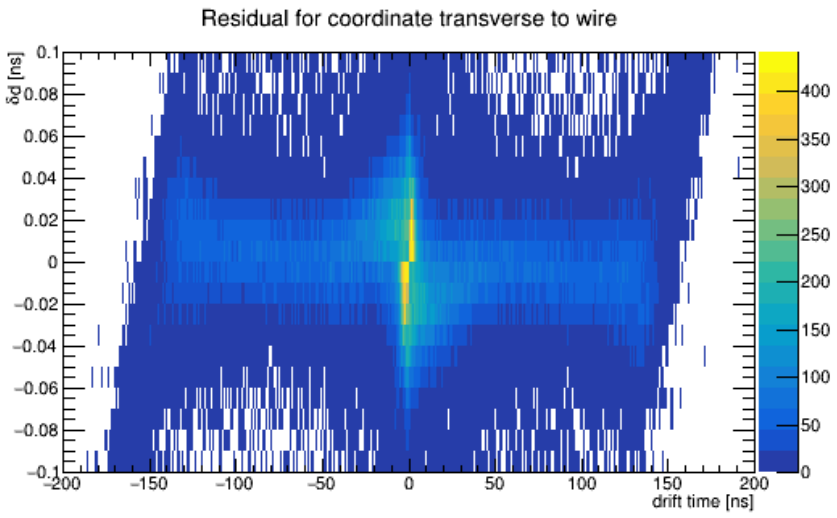
- Fit tracks excluding one plane, measure resolutions for this plane
- Find average resolution over all wires/strips in this plane

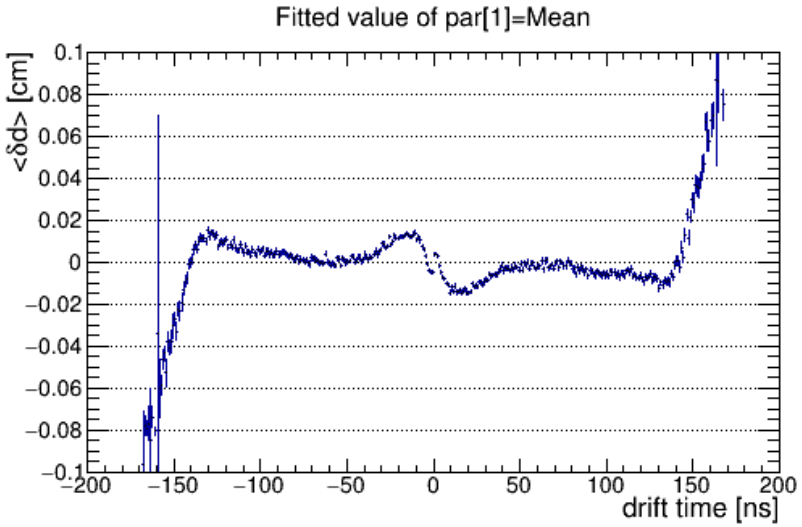
Plane 1

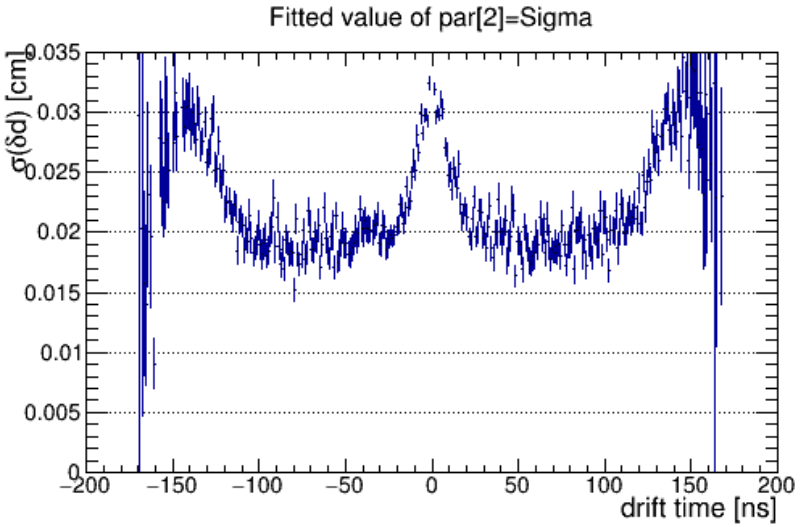


$$d(t)=0.022\sqrt{t} + 0.00306t - 3.255e\text{-}5t^2 + 1.44e\text{-}7t^3$$

Plane 1: transverse direction

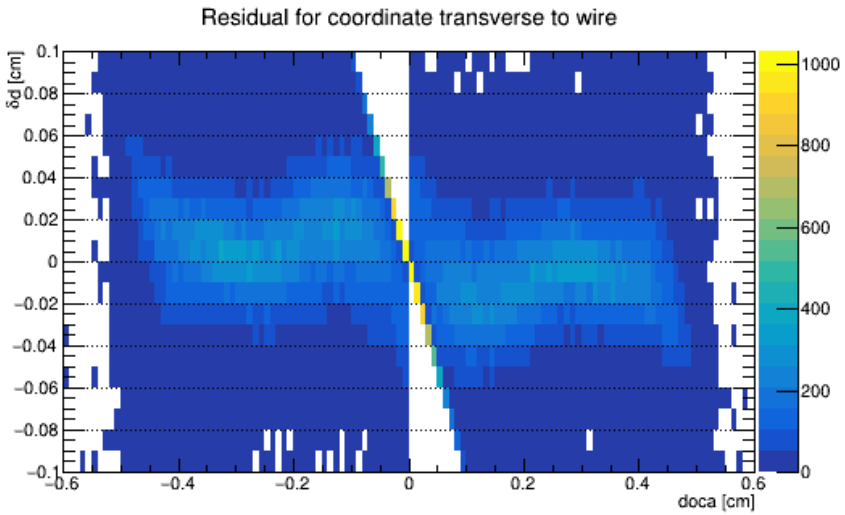


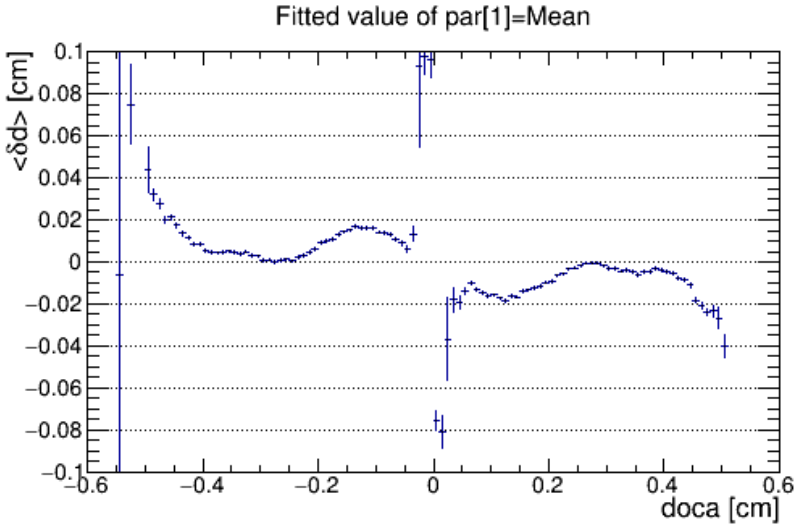


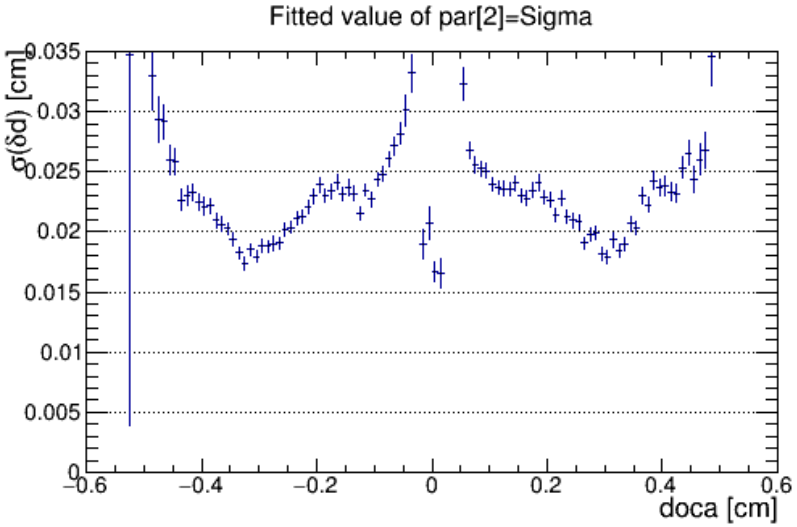


mean

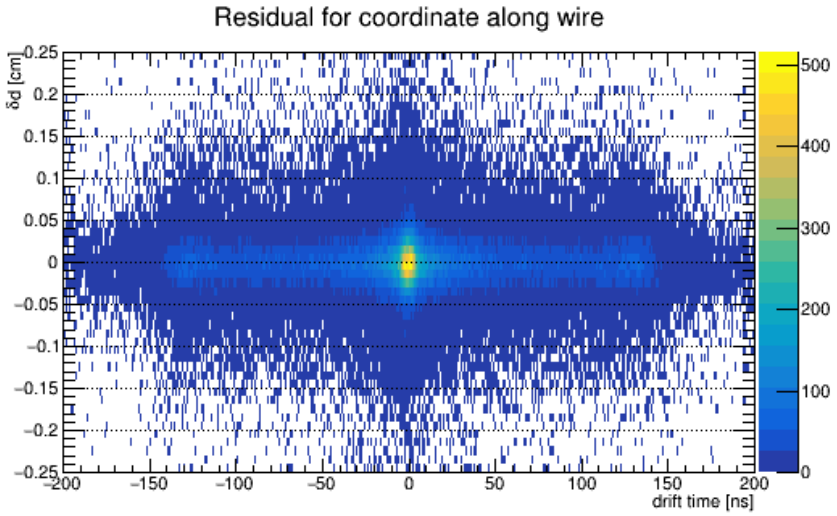
sigma

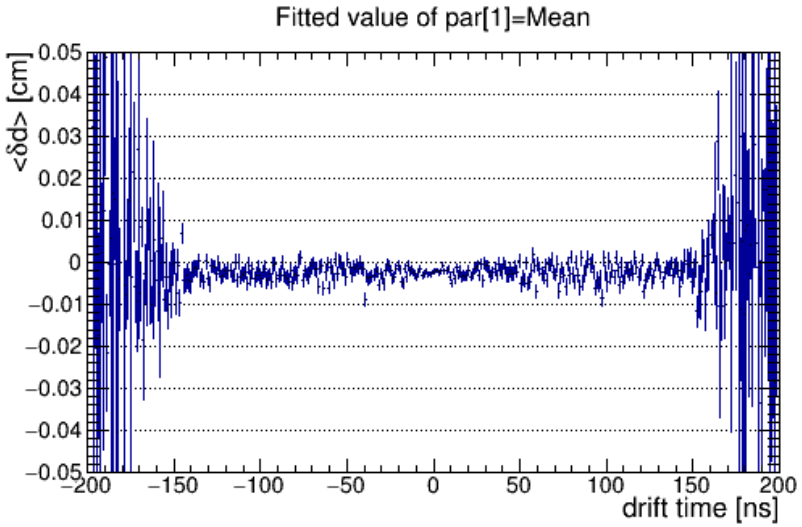


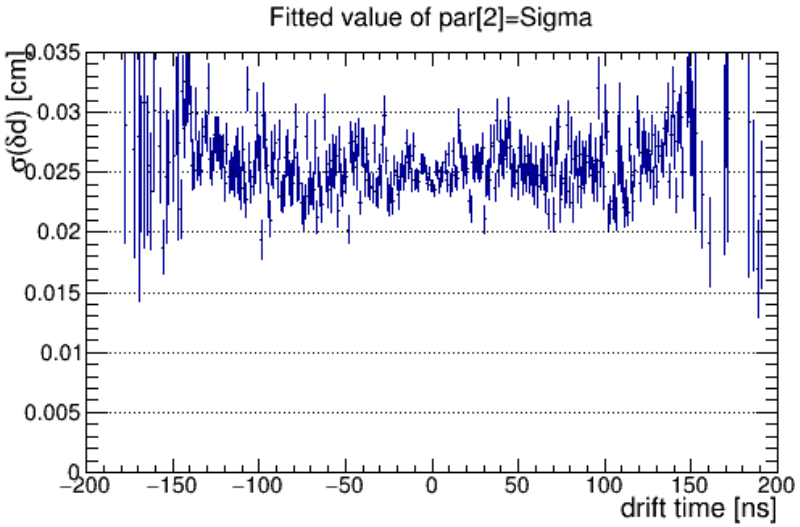




Plane 1: along wire direction

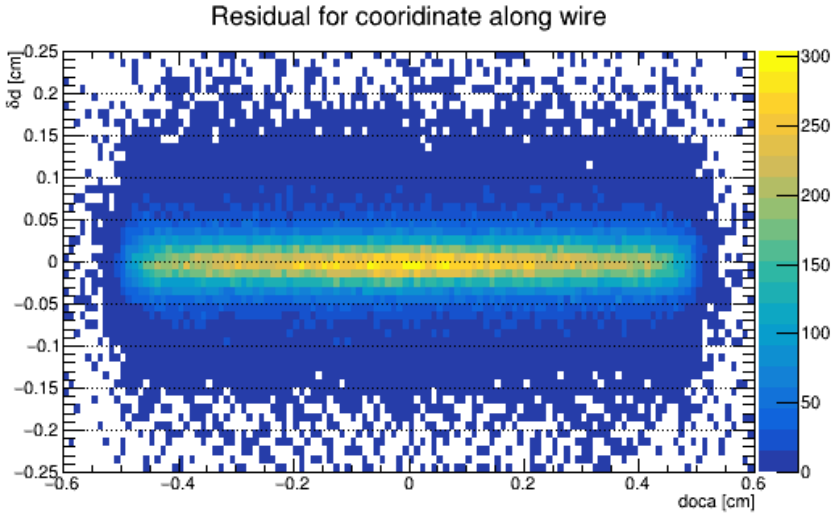


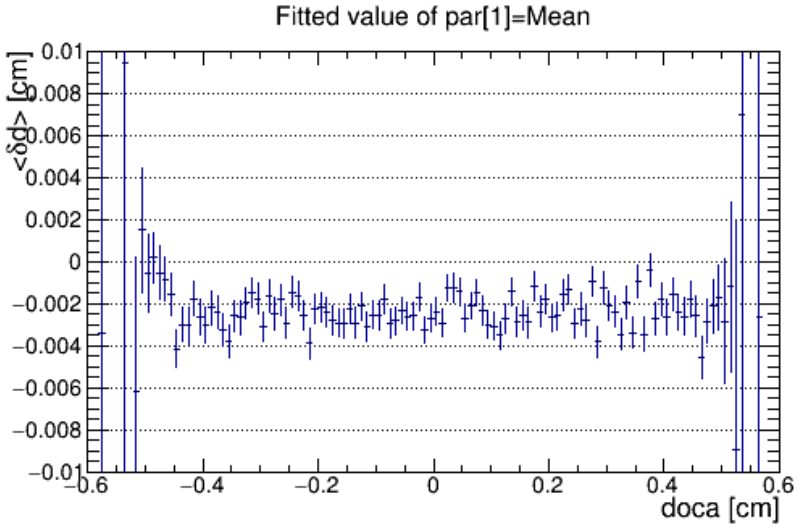


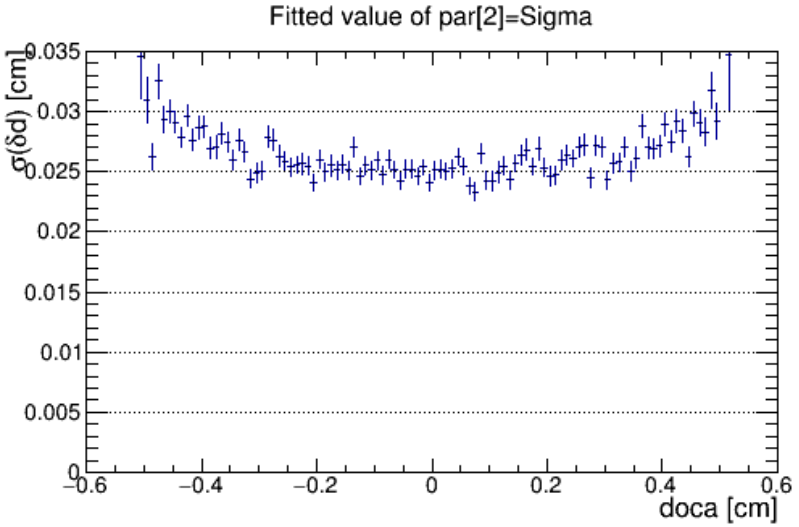


mean

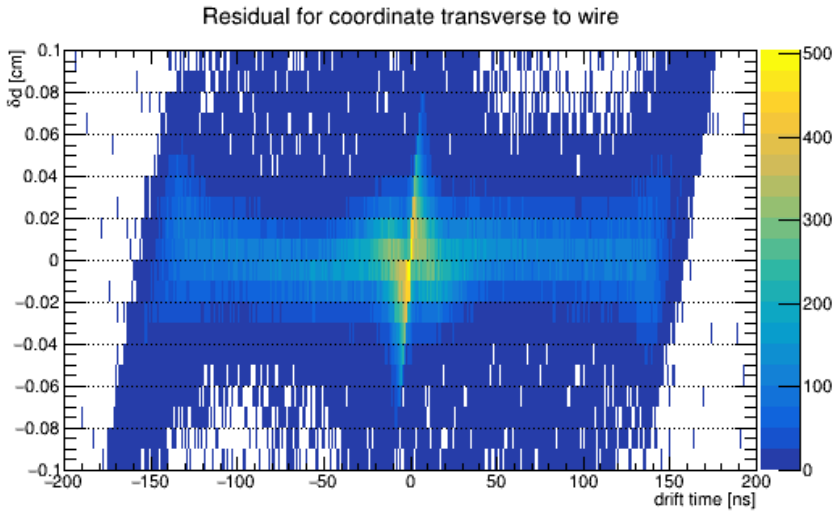
sigma

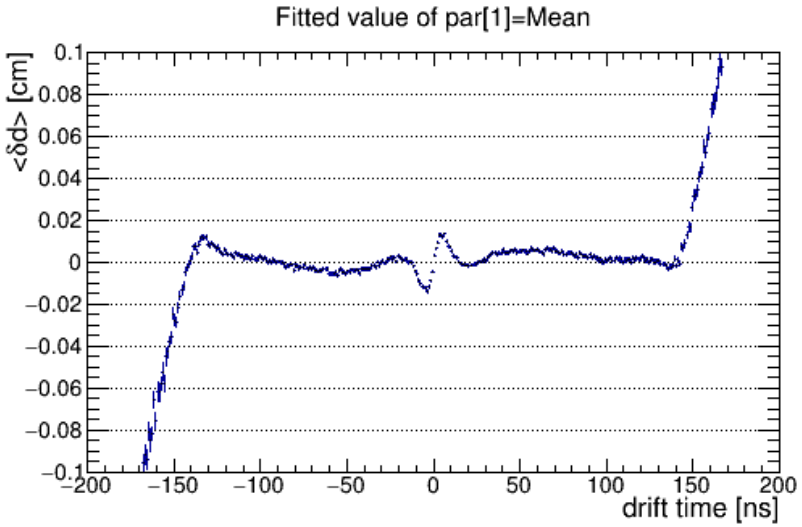


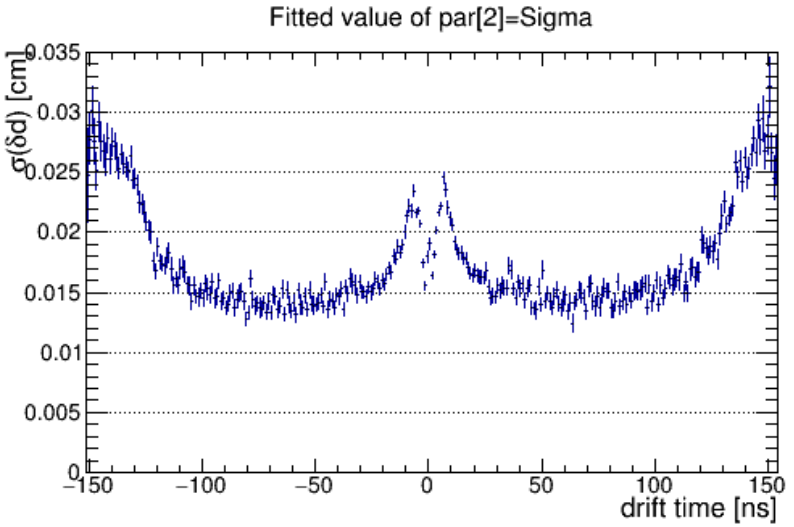




Plane 19: transverse direction

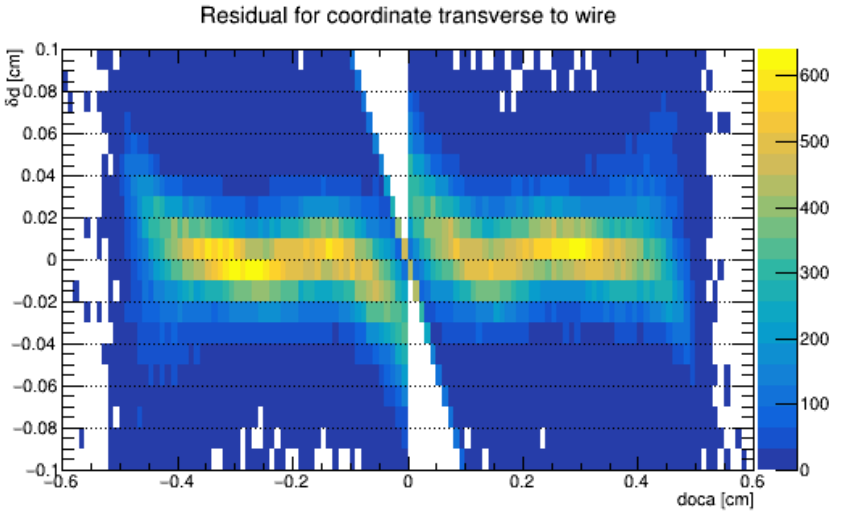


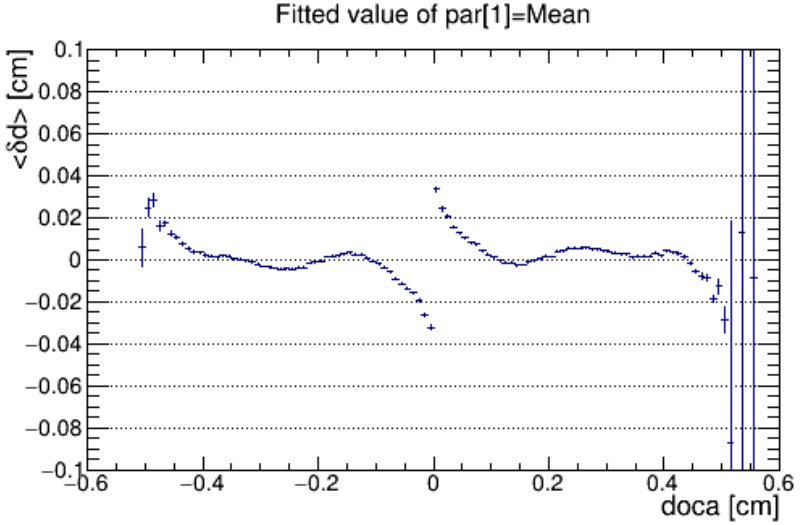


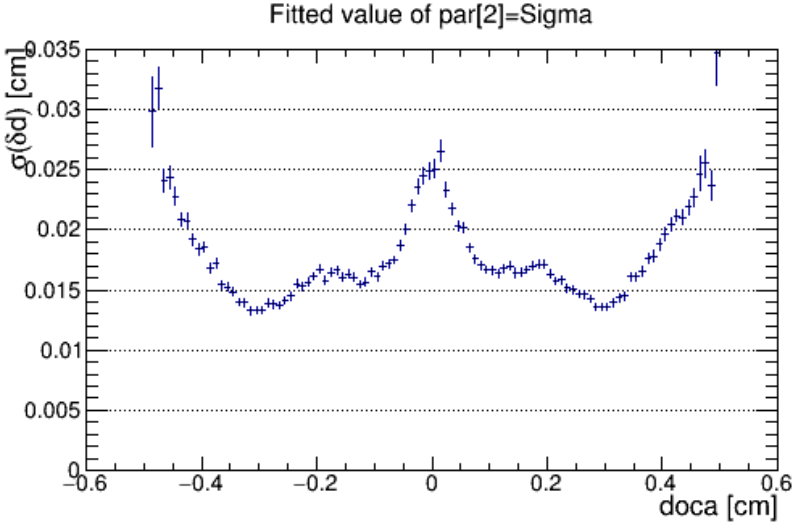


mean

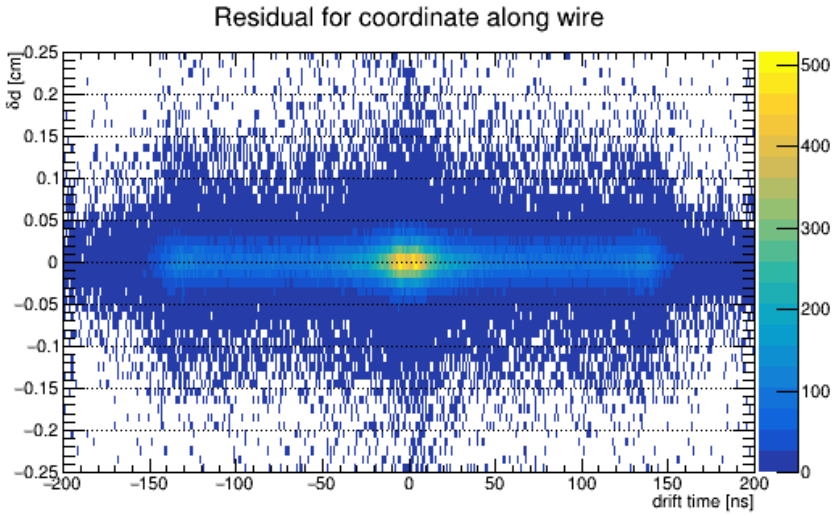
sigma

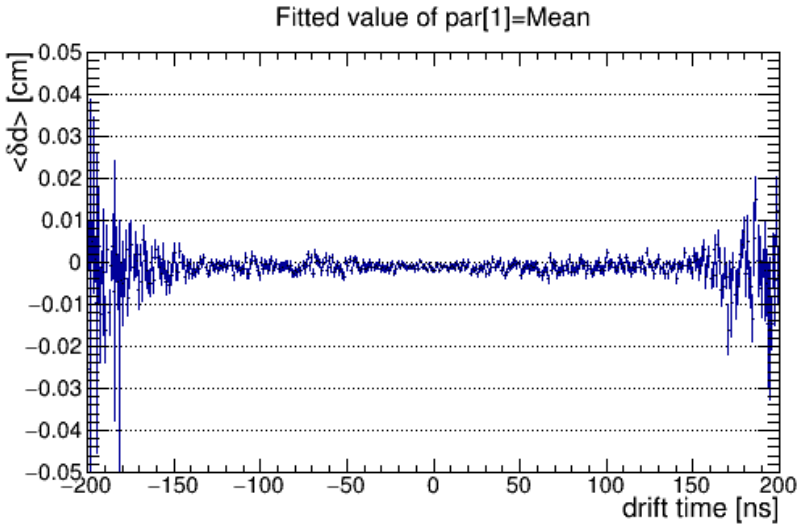


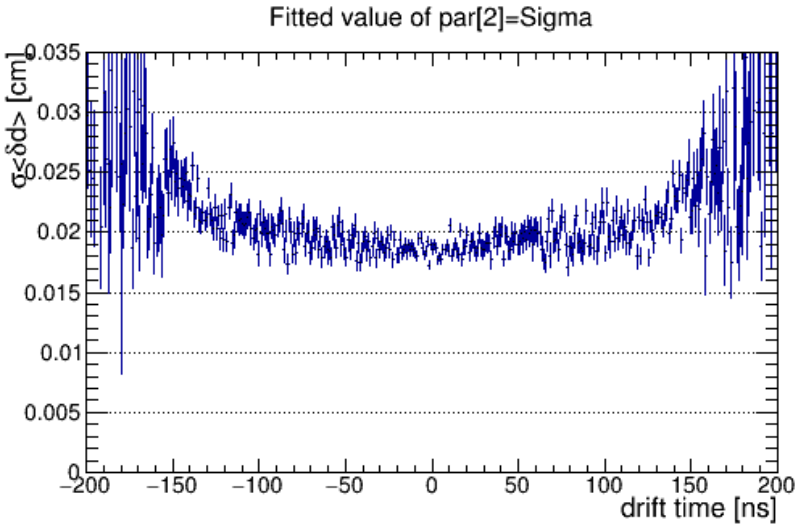


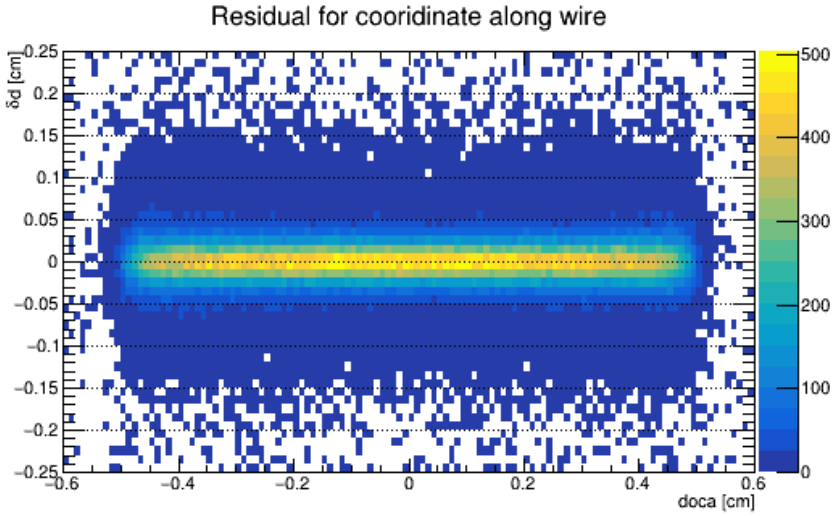
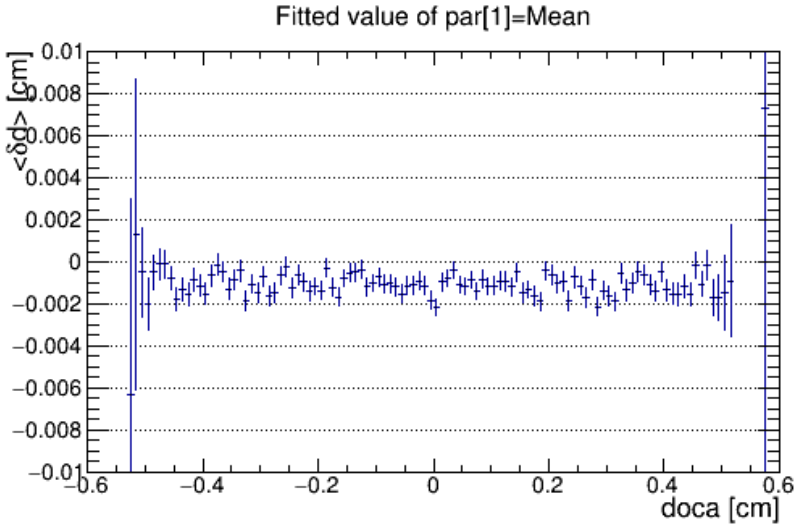
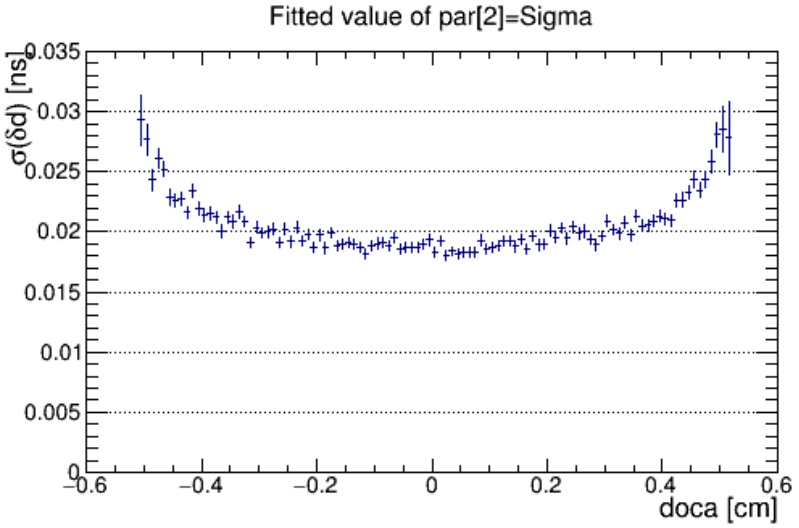


Plane 19: along wire direction







mean

sigma