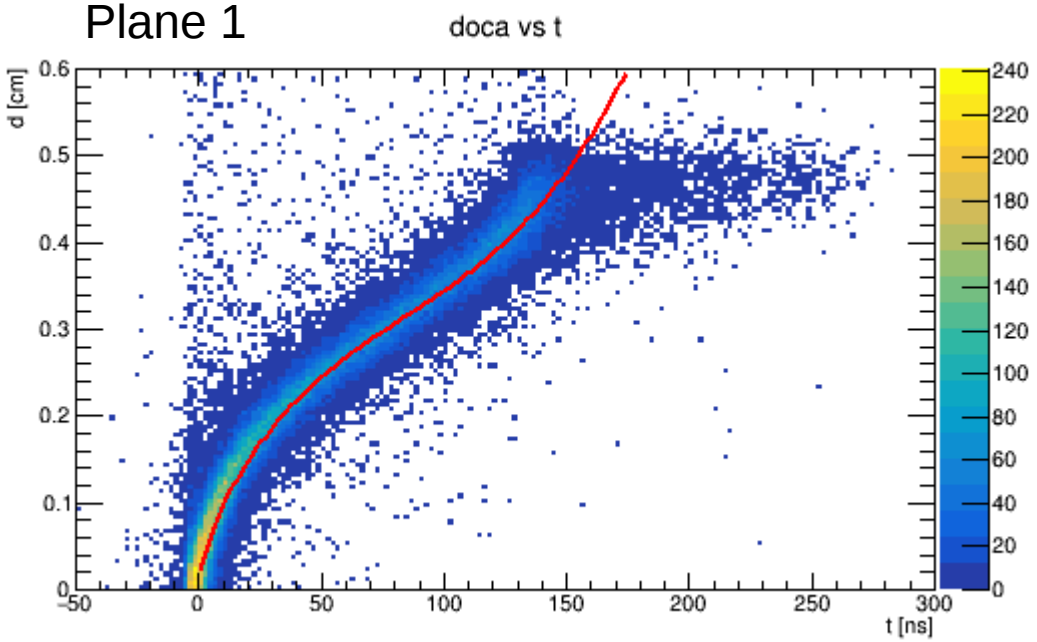
# FDC position resolutions using straight tracks (Run 40847)

Simon Taylor / JLab

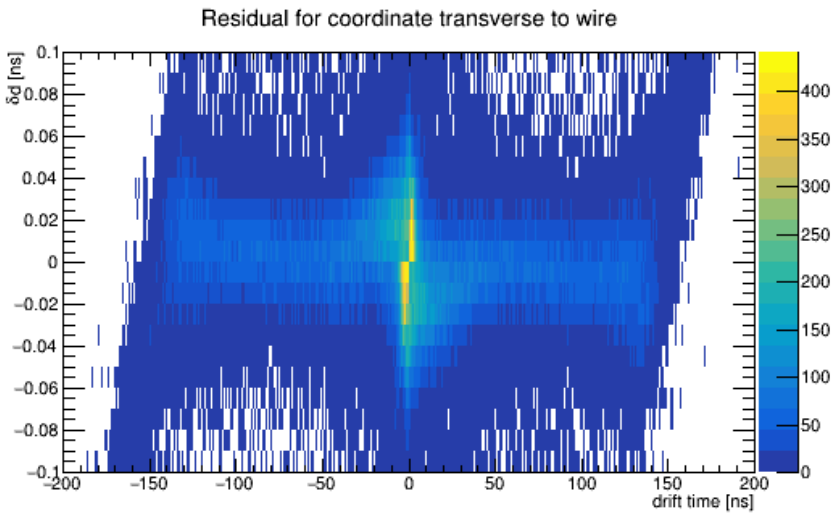
- Fit tracks excluding one plane, measure resolutions for this plane
- Find average resolution over all wires/strips in this plane

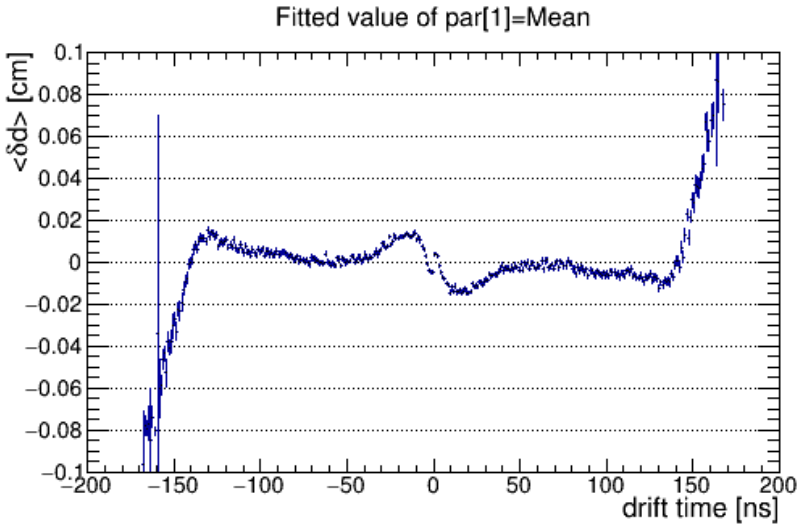
Plane 1

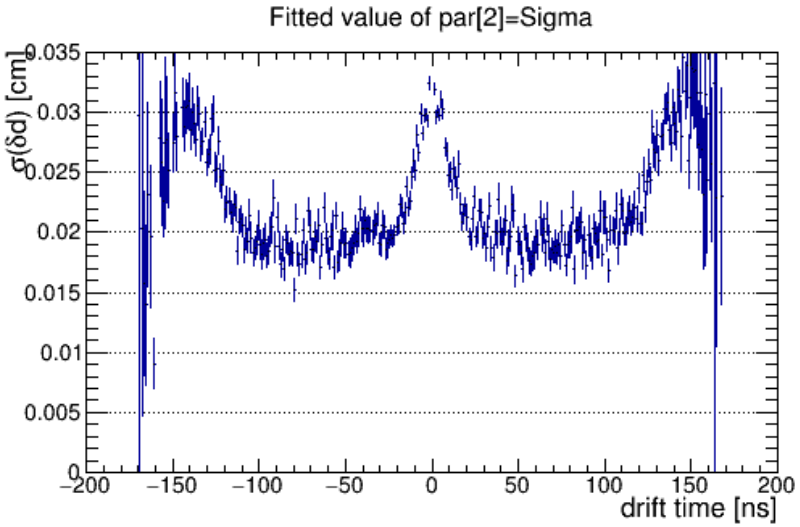



$$d(t)=0.022\sqrt{t} + 0.00306t - 3.25\times10^{-5}t^2 + 1.44\times10^{-7}t^3$$

# Plane 1:  transverse direction

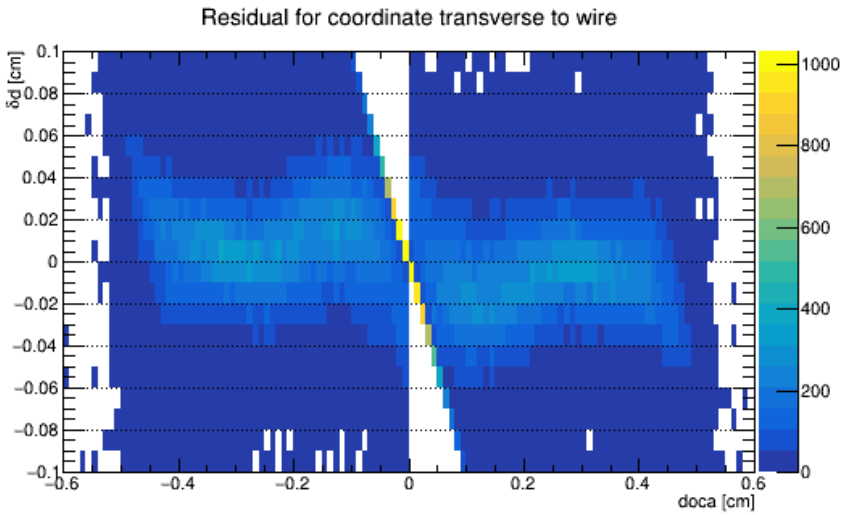


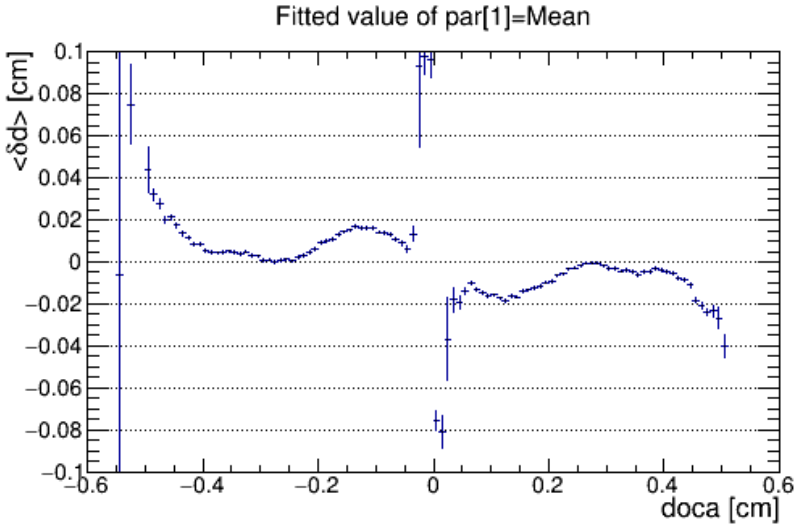



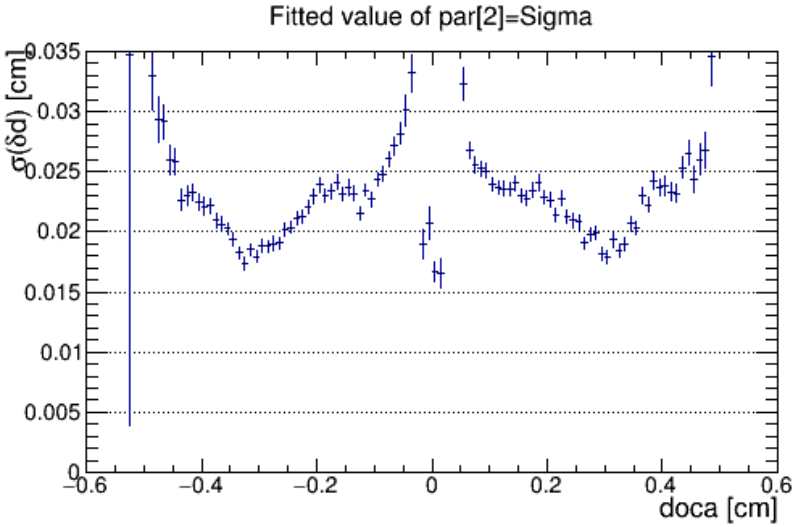




mean

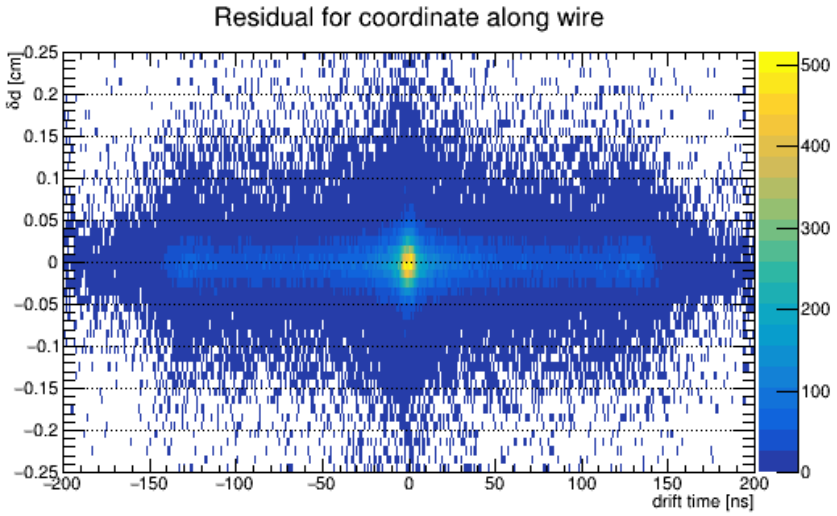
sigma

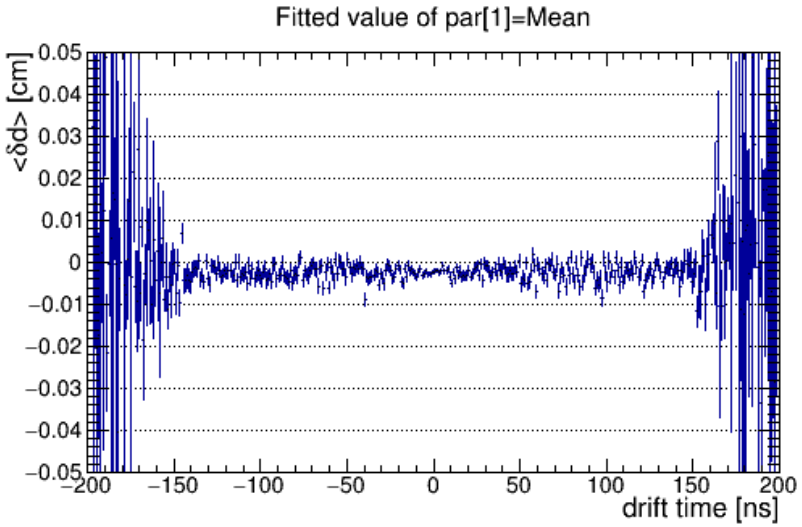


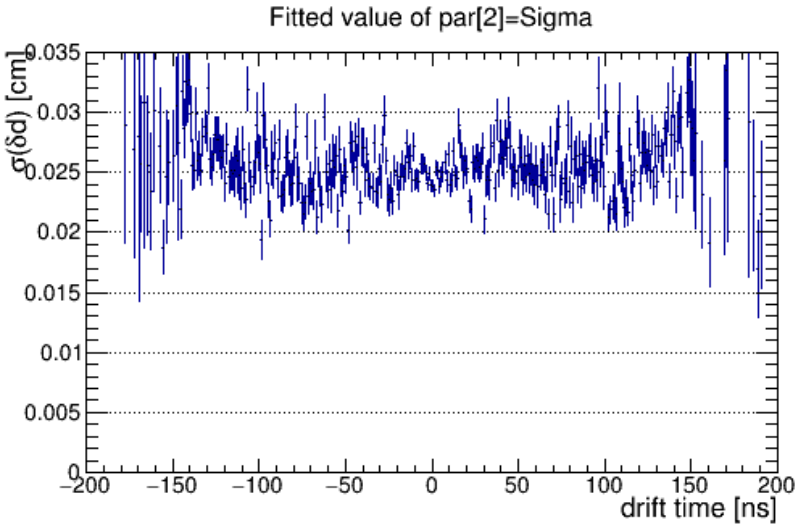



# Plane 1: along wire direction

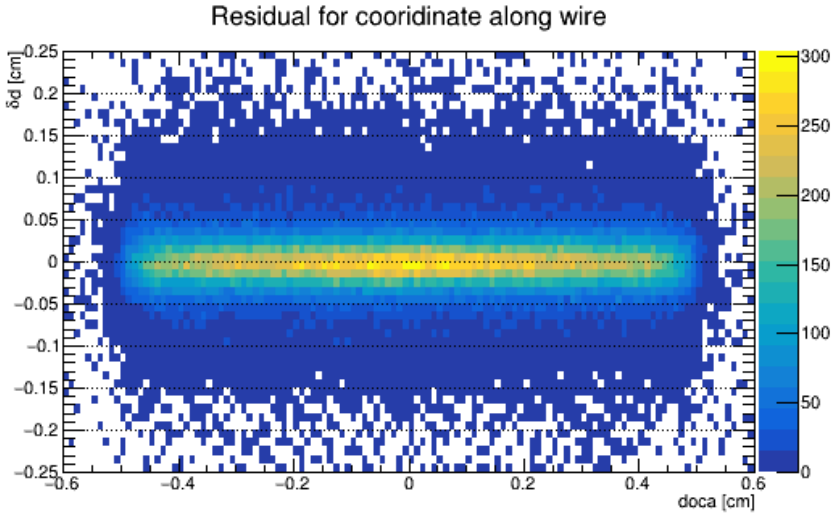


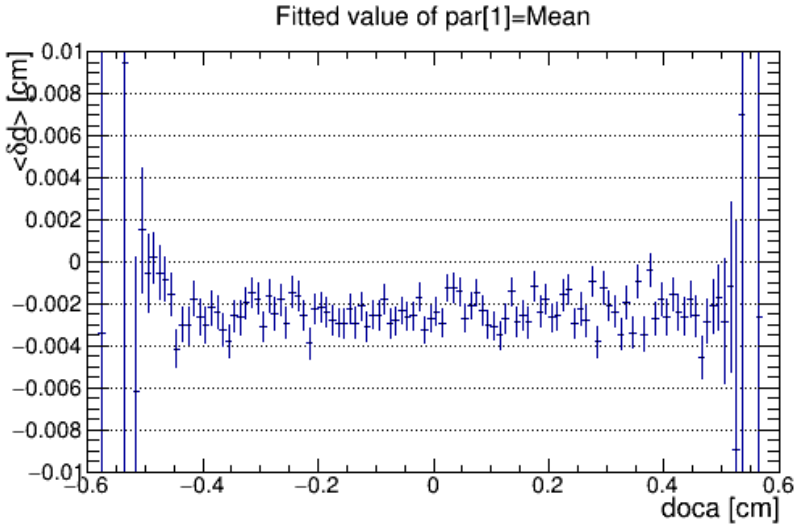



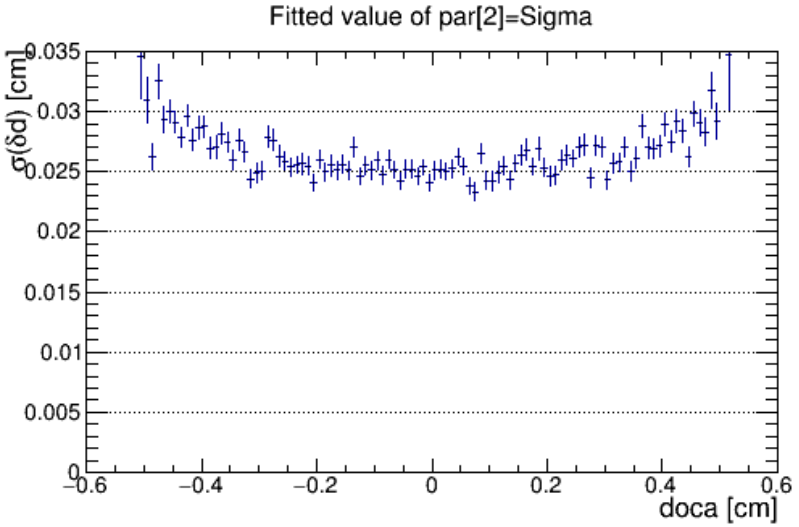




mean

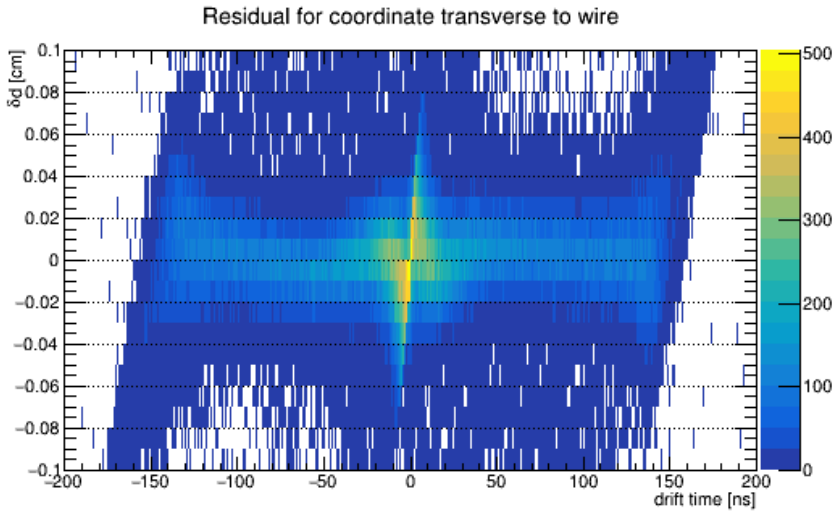
sigma

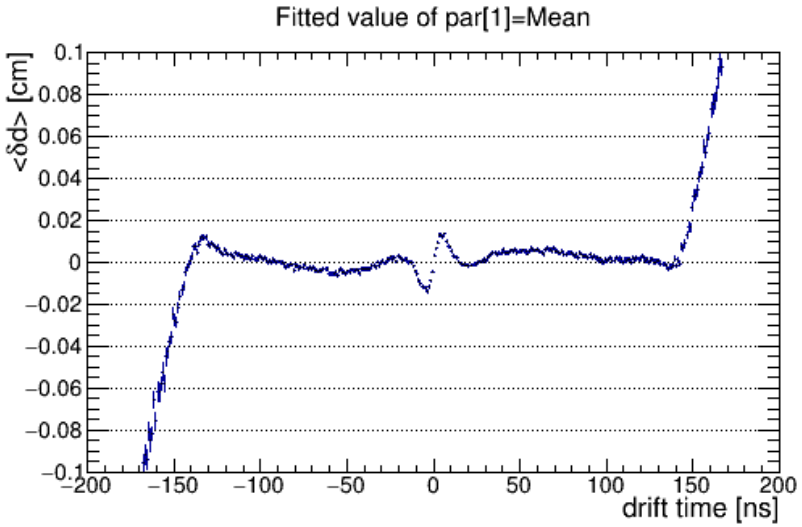


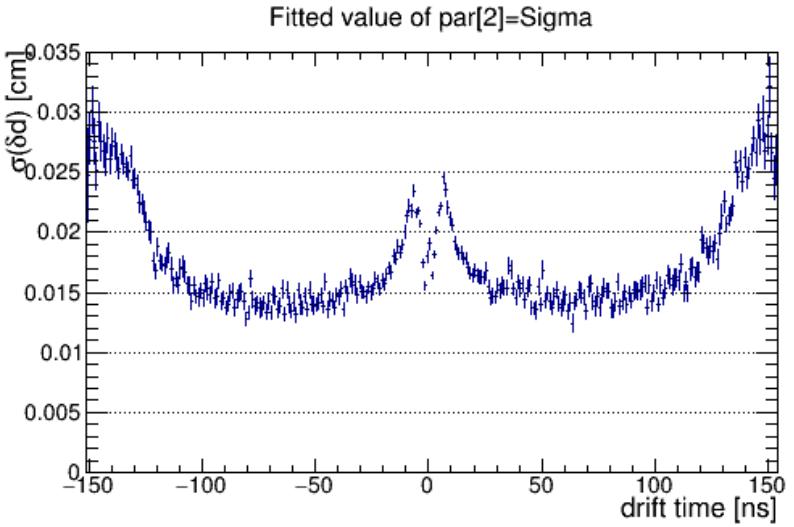



# Plane 19: transverse direction

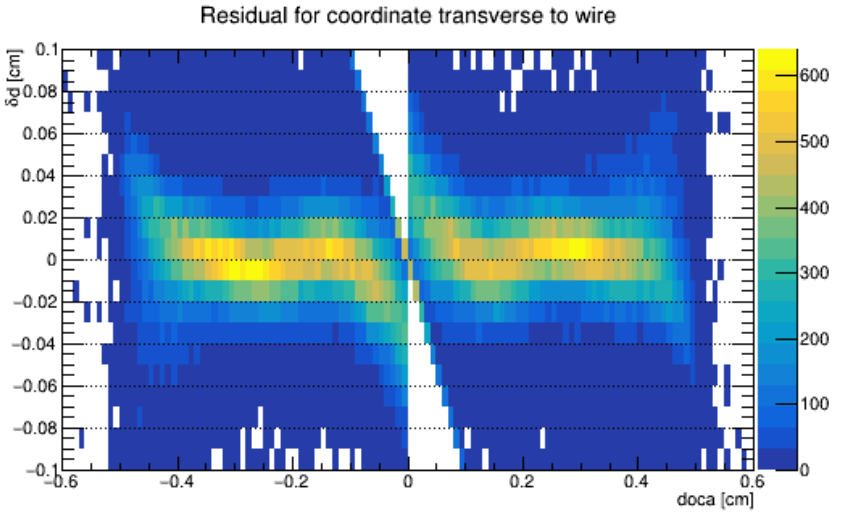


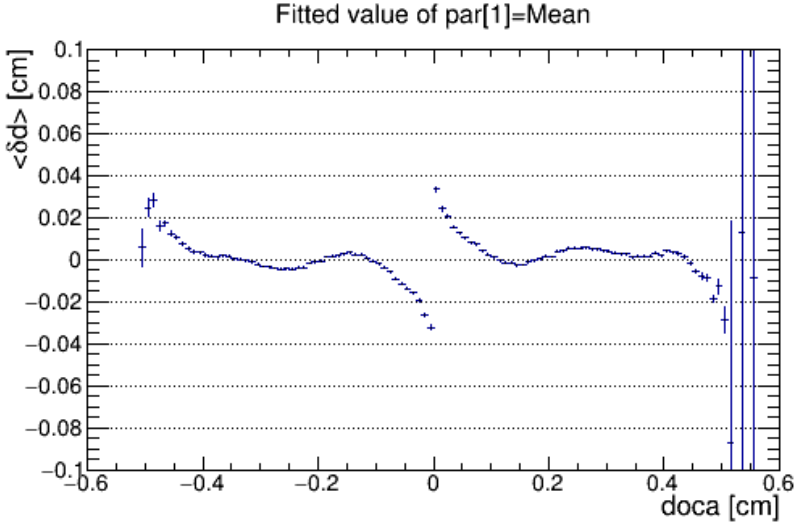



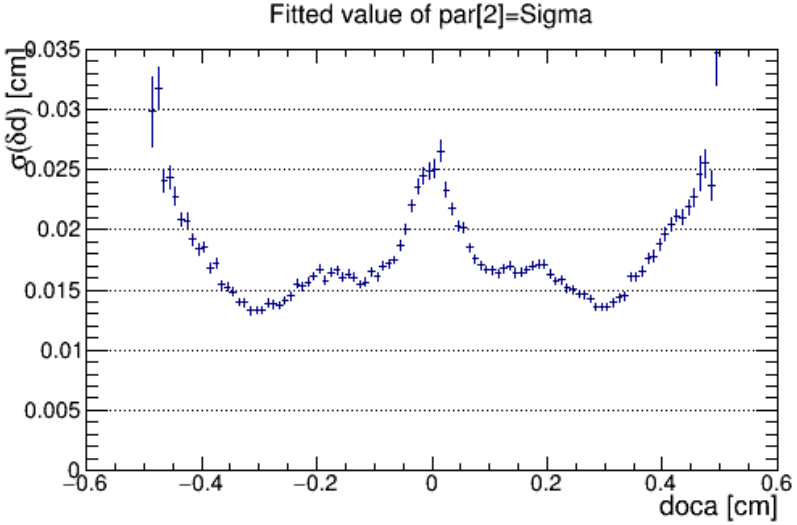




mean

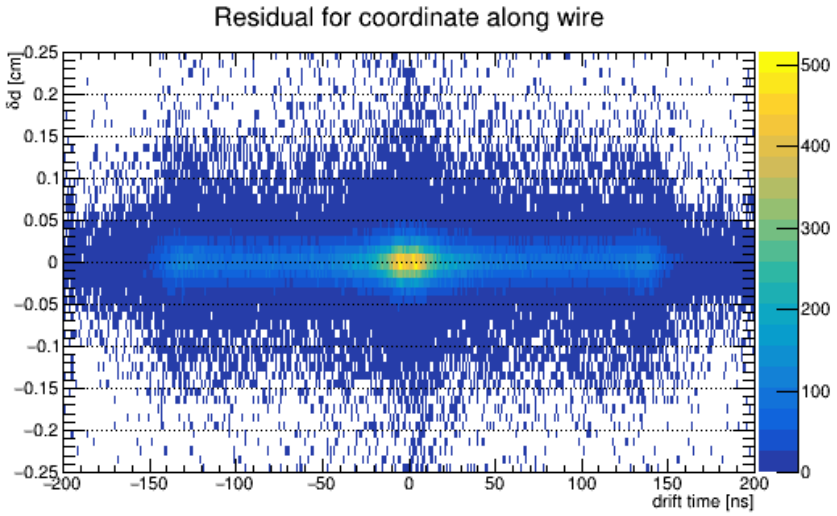
sigma

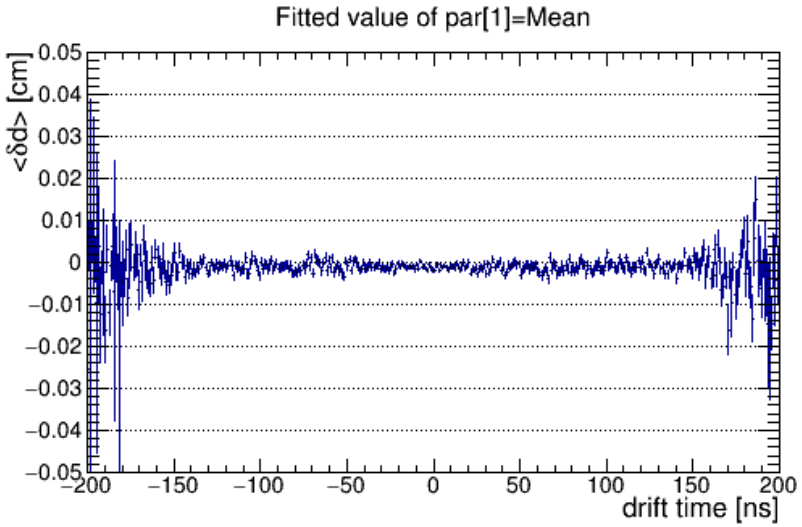


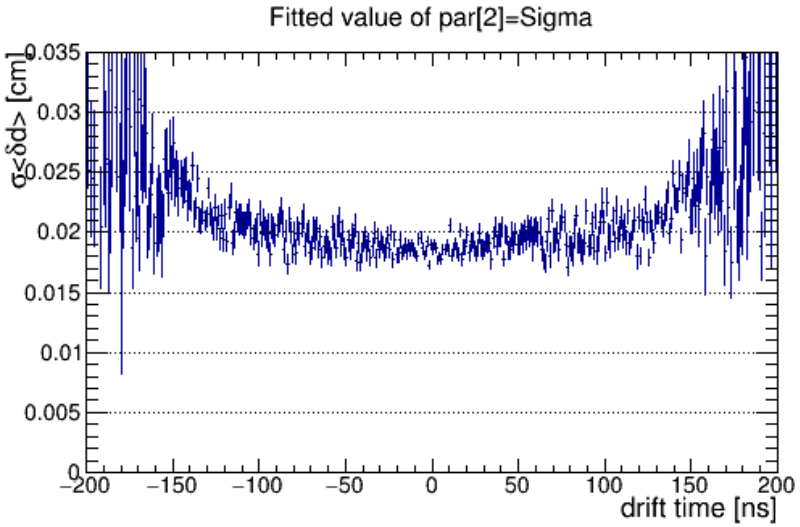



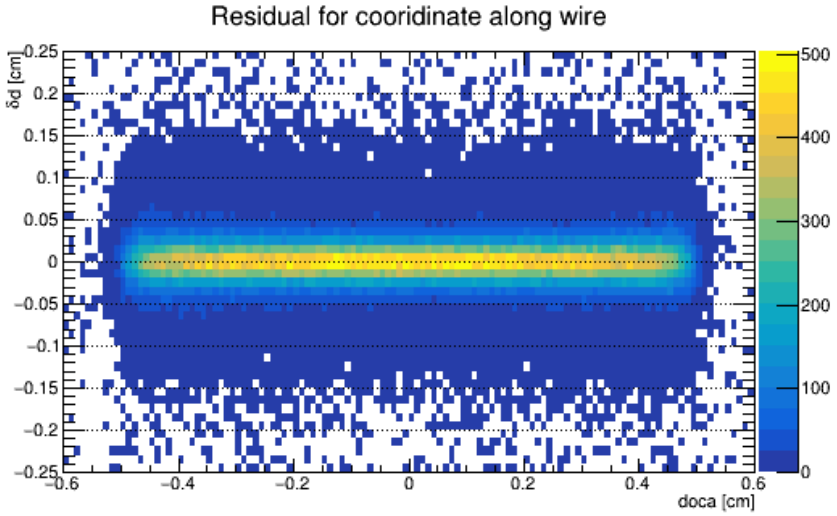
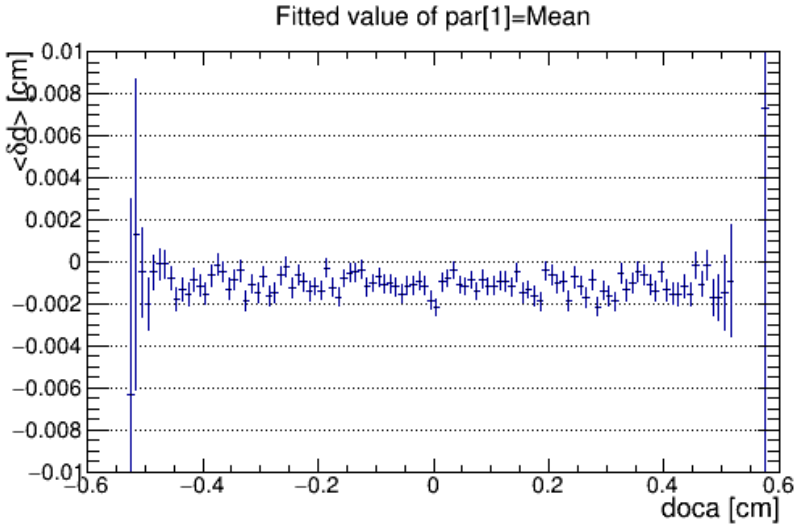
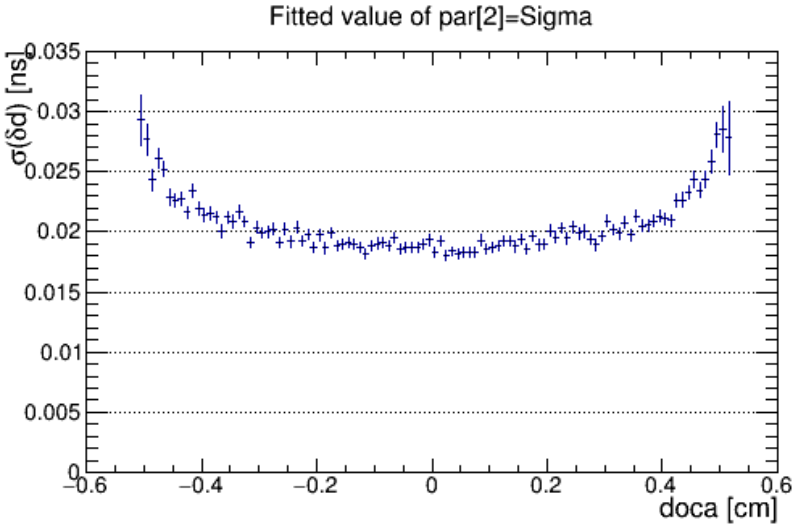



# Plane 19: along wire direction




mean

sigma