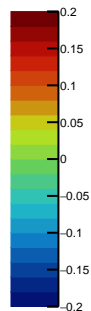
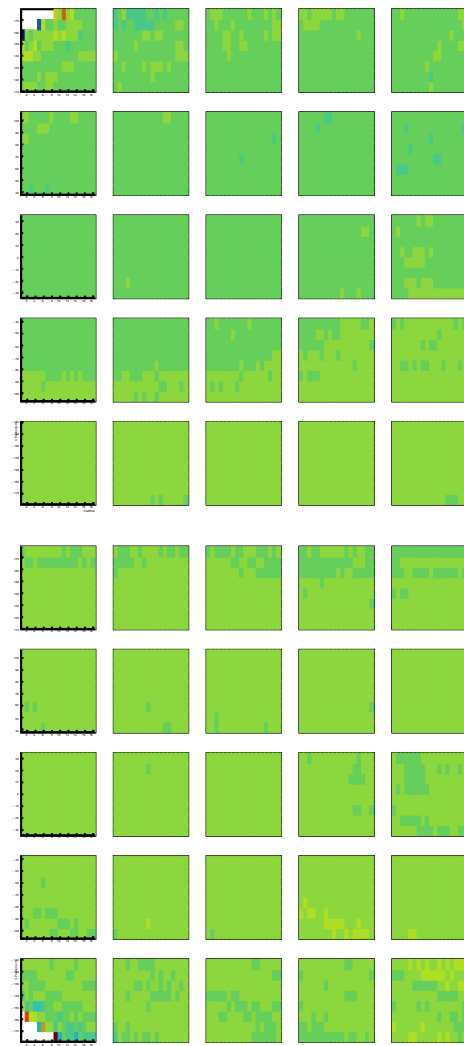
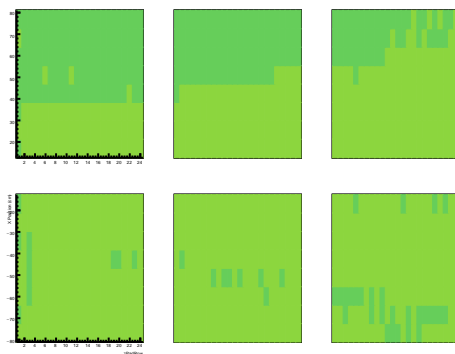
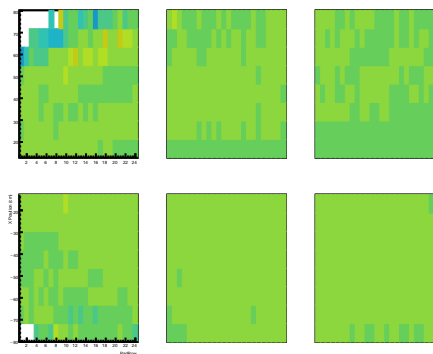


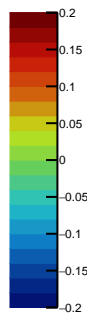
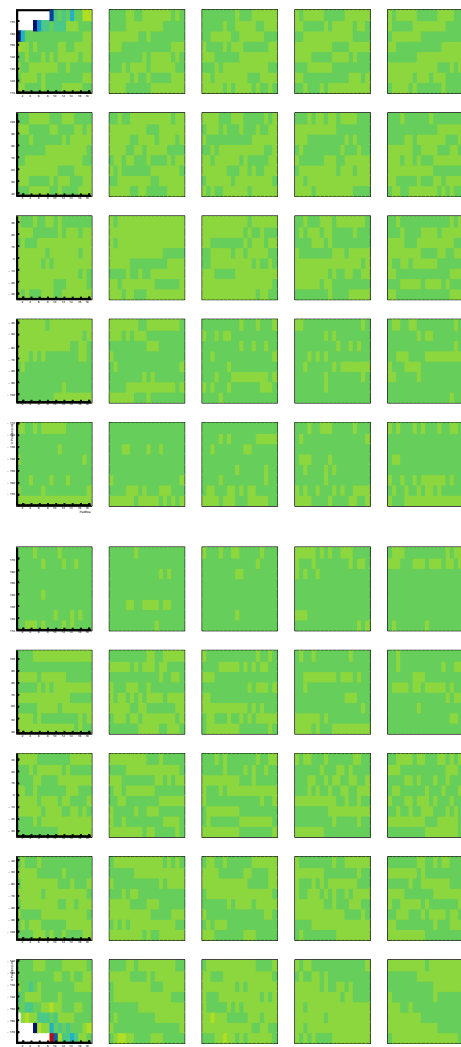
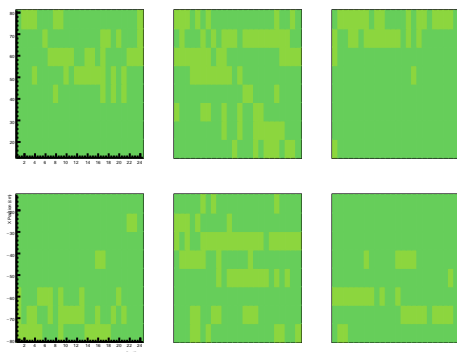
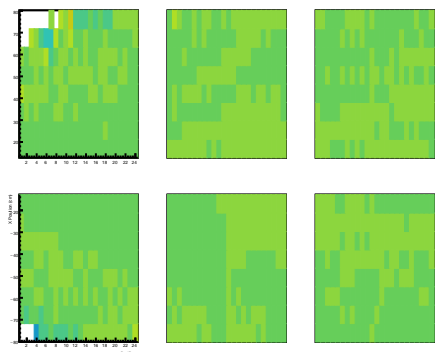
NA61/SHINE Residual QA plots

Run used: **FTFP10Luminance**

Large TPCs: $\langle X - X_{fit} \rangle$

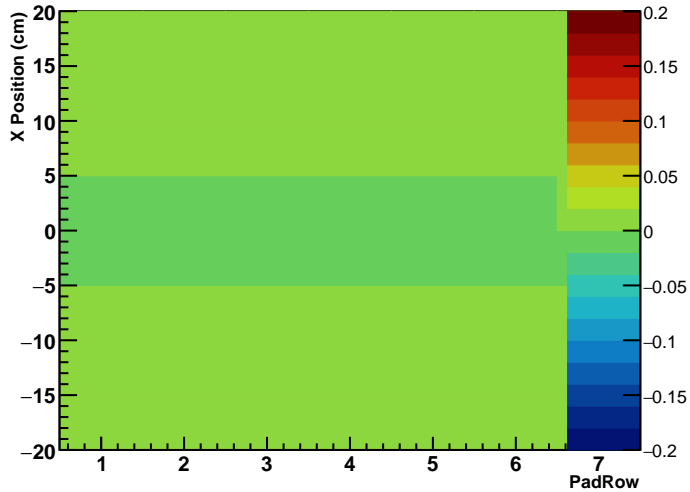


Large TPCs: $\langle Y - Y_{fit} \rangle$

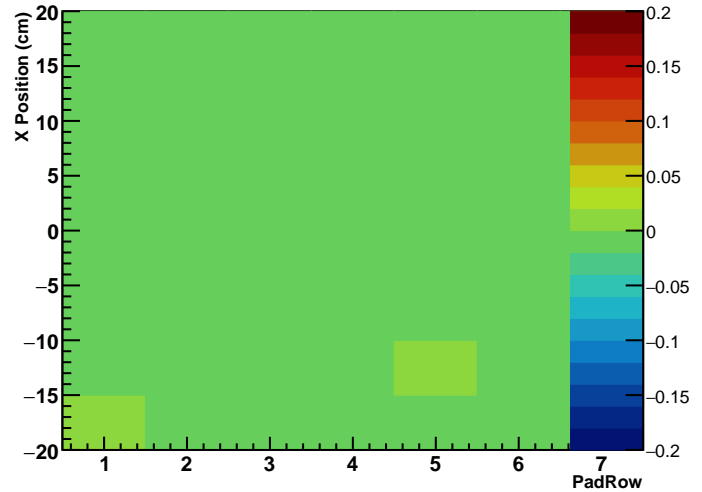


GAP TPC

$\langle X - X_{\text{fit}} \rangle$

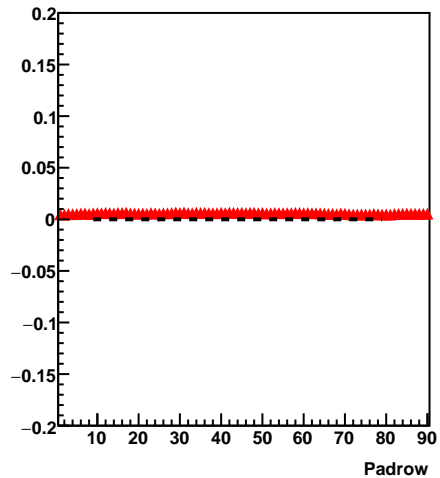
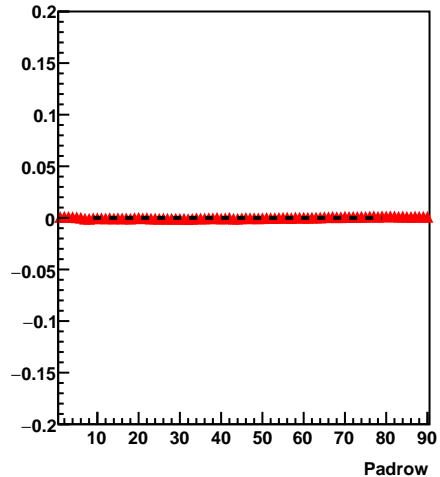
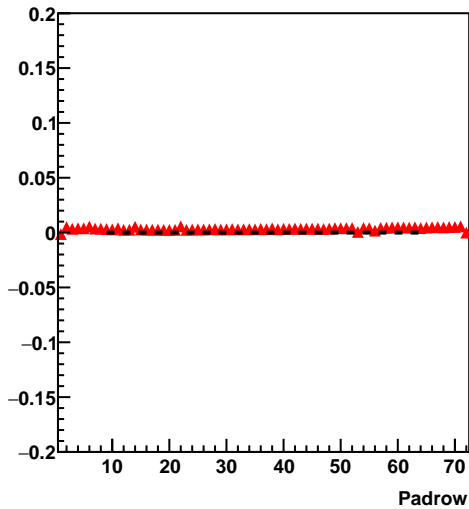
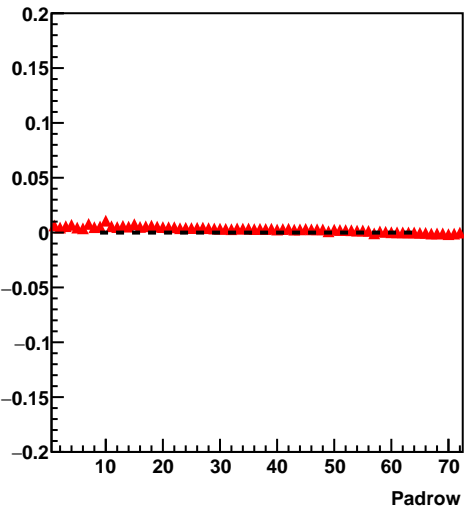


$\langle Y - Y_{\text{fit}} \rangle$



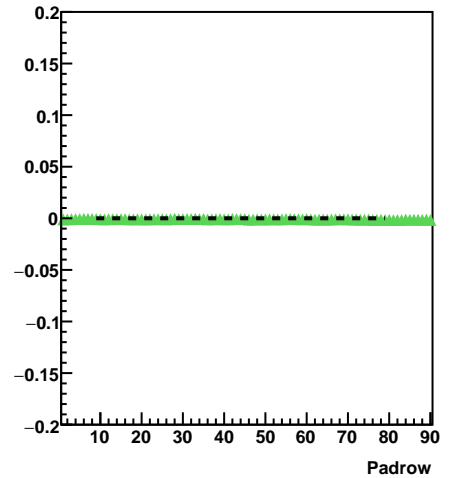
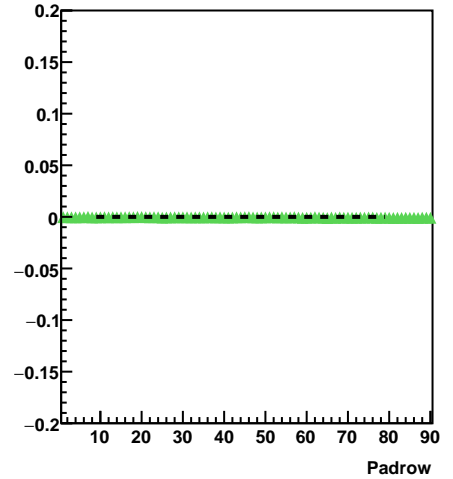
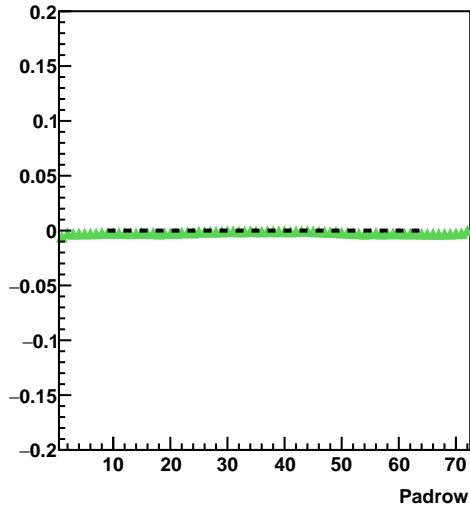
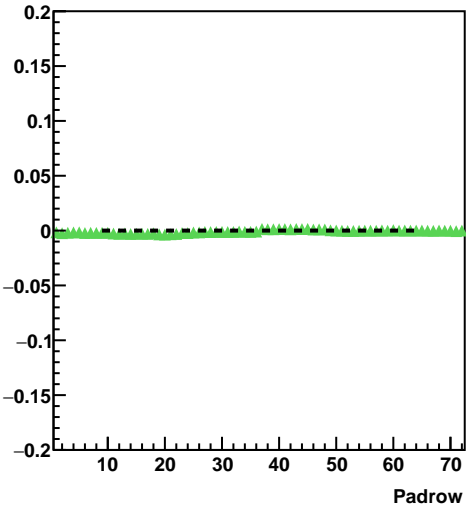
Large TPCs : $\langle X - X_{\text{fit}} \rangle$

Averaged over X and Y



Large TPCs : $\langle Y - Y_{\text{fit}} \rangle$

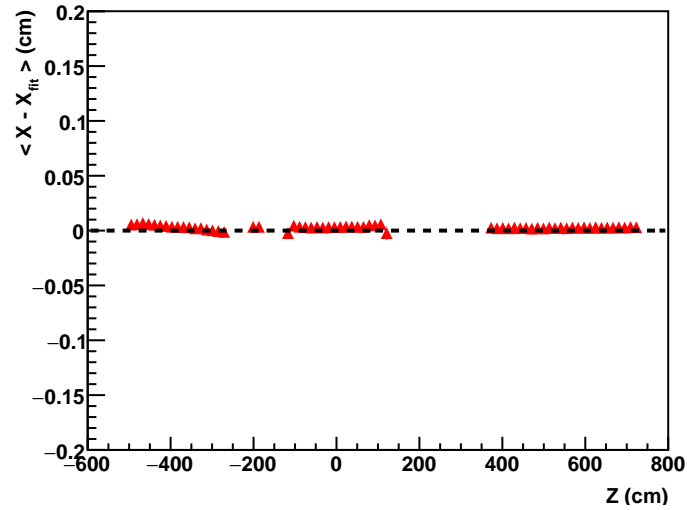
Averaged over X and Y



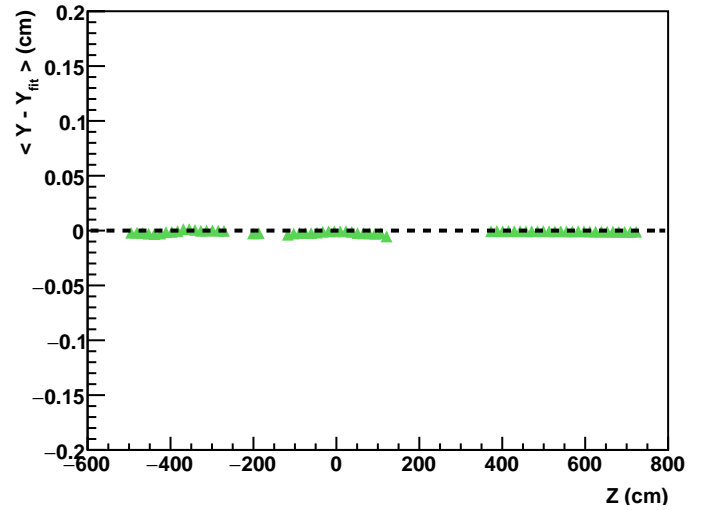
Residuals for Z-position

Total Residuals of all the chambers [VTPC1 VTPC2 MTPCS] respectively.

X Residuals

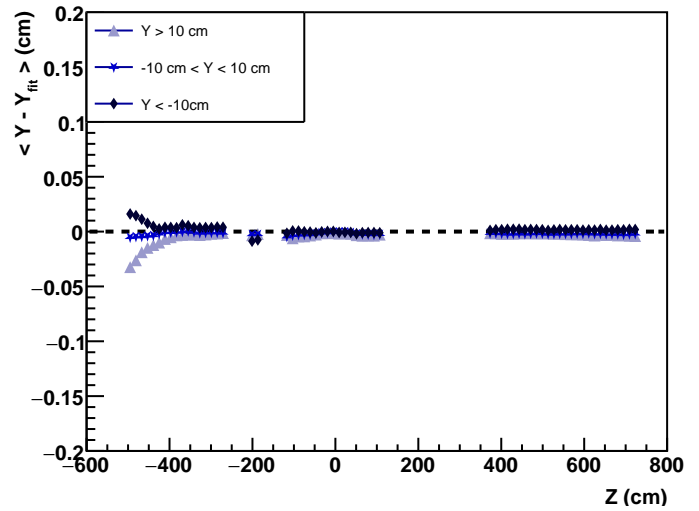
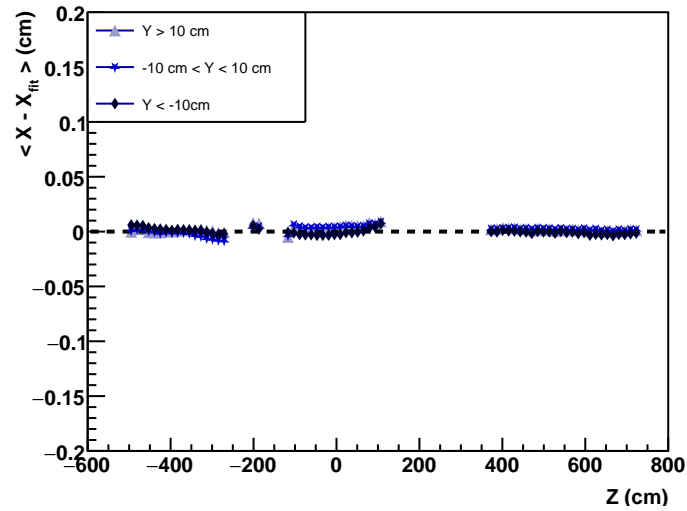


Y Residuals

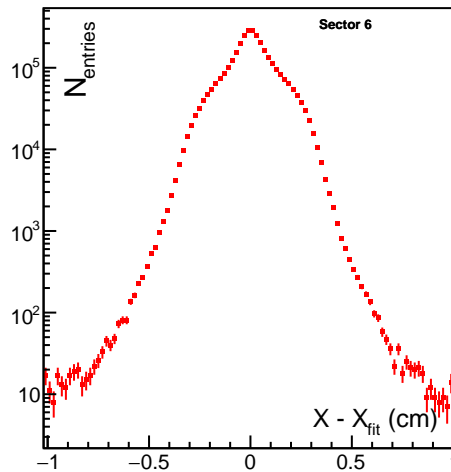
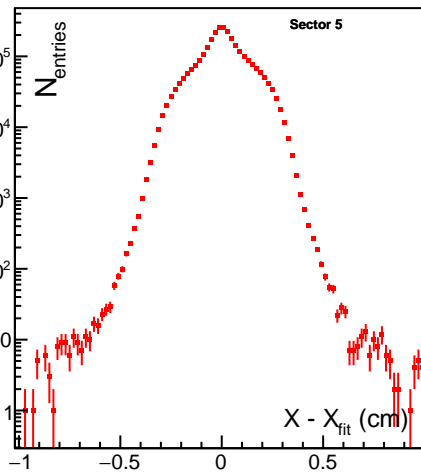
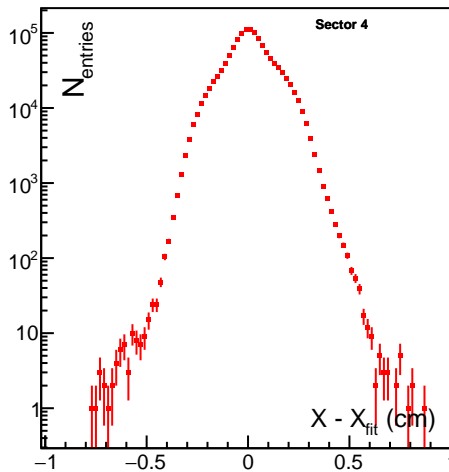
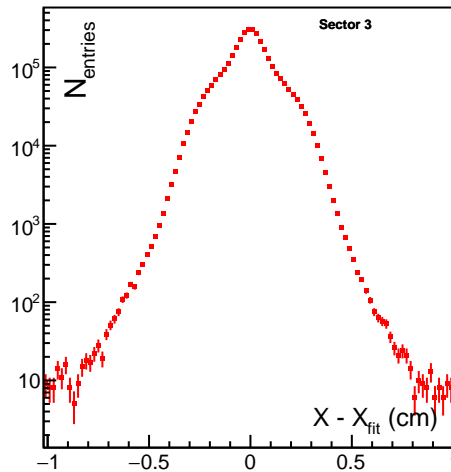
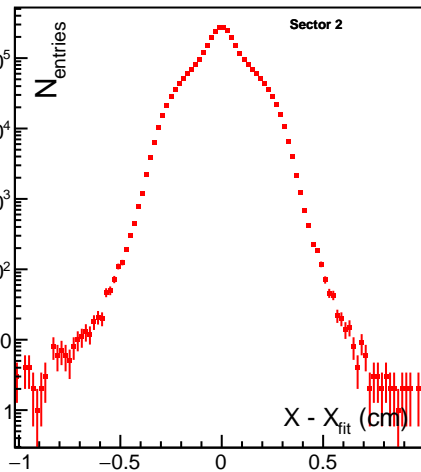
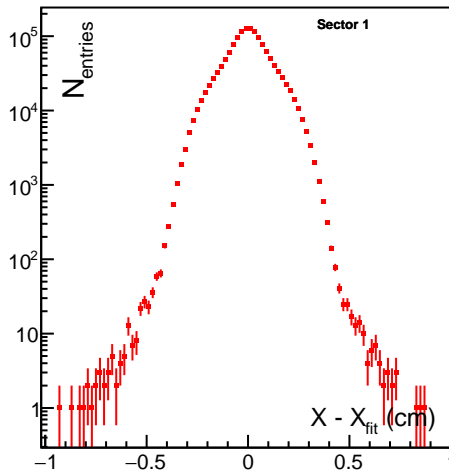


Large TPCs: $\langle X - X_{\text{fit}} \rangle$ and $\langle Y - Y_{\text{fit}} \rangle$

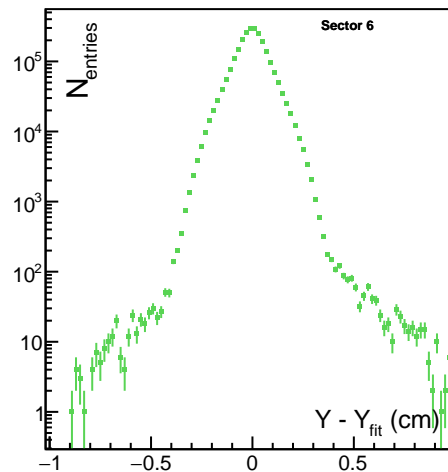
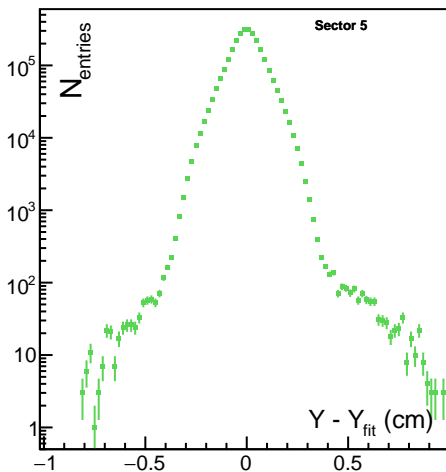
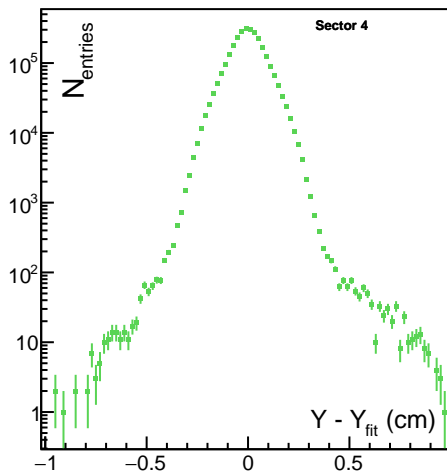
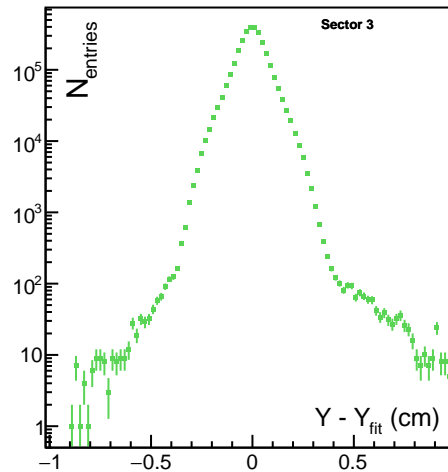
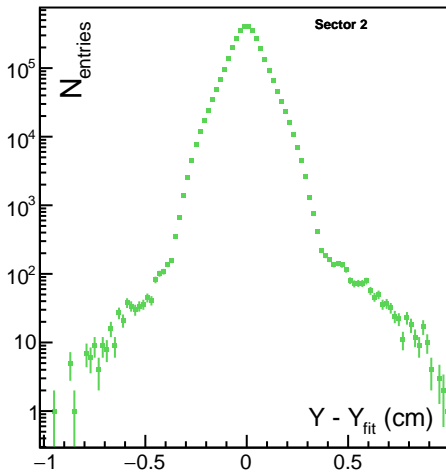
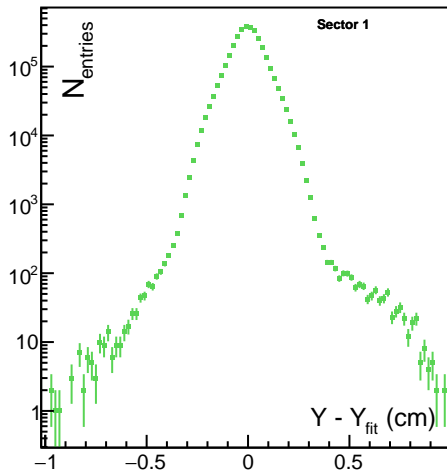
Averaged over $X > 0$ and ΔY



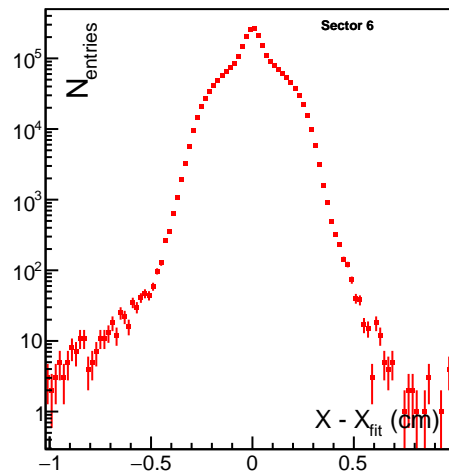
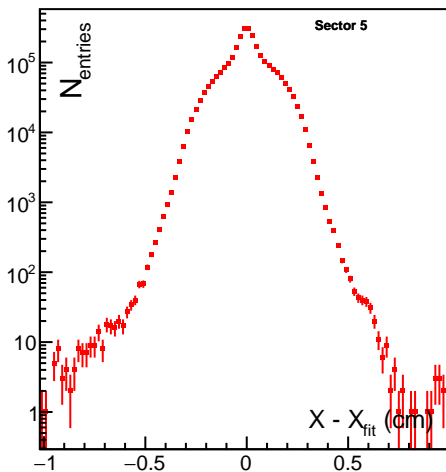
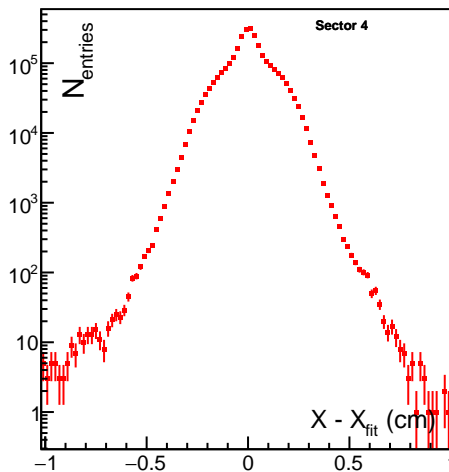
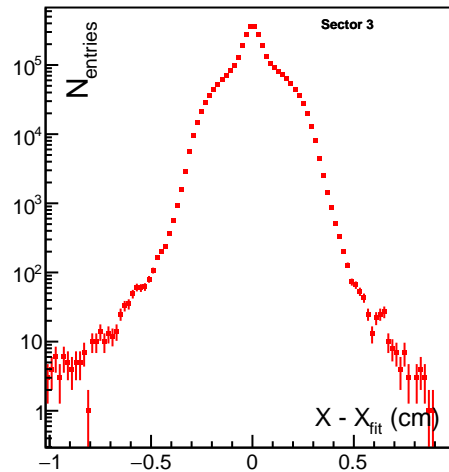
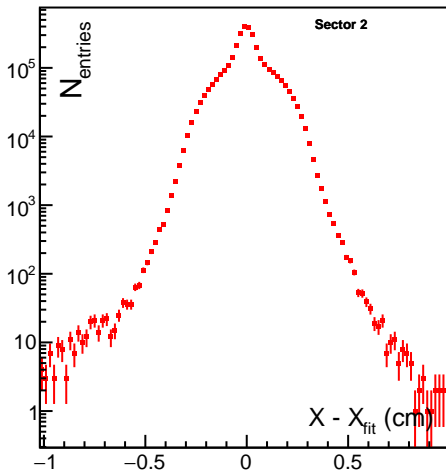
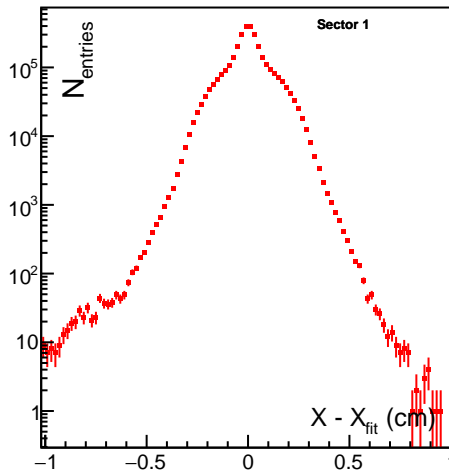
VTPC1: $X - X_{\text{fit}}$



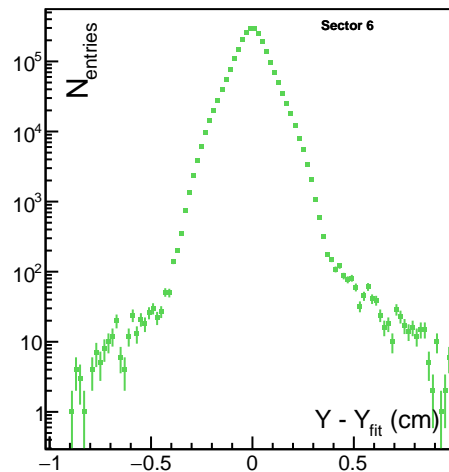
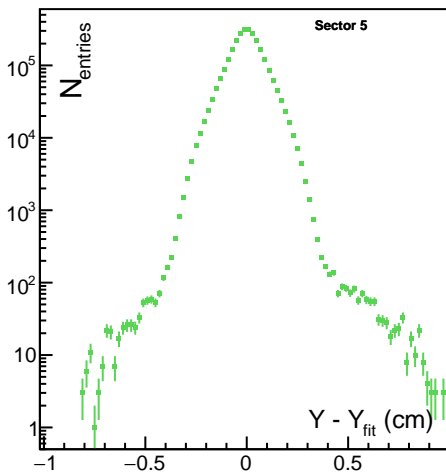
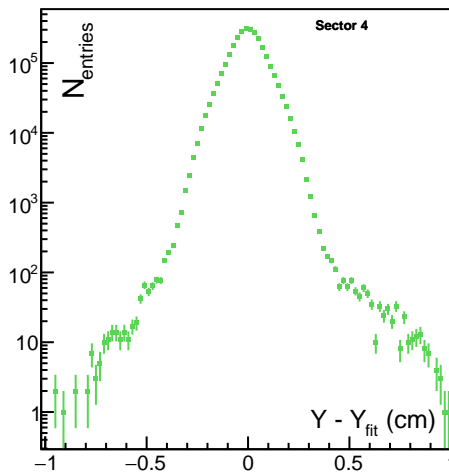
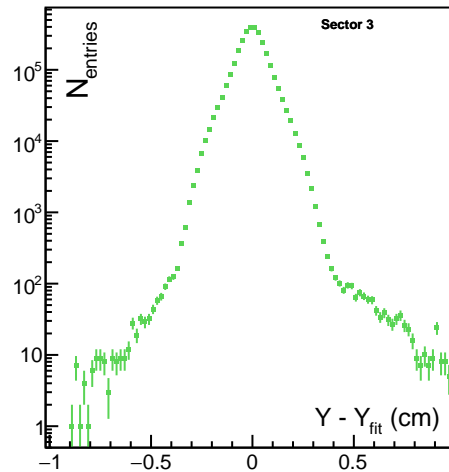
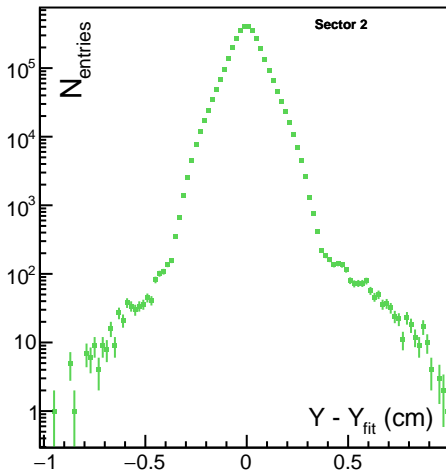
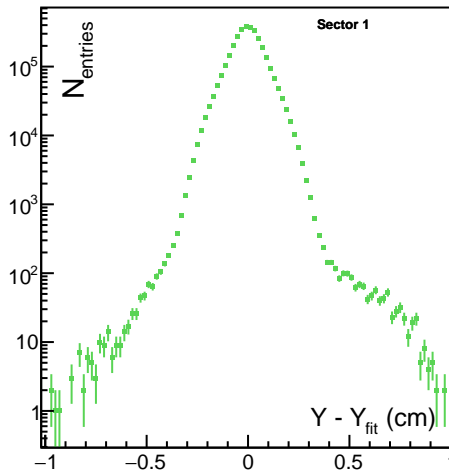
VTPC1: $Y - Y_{\text{fit}}$



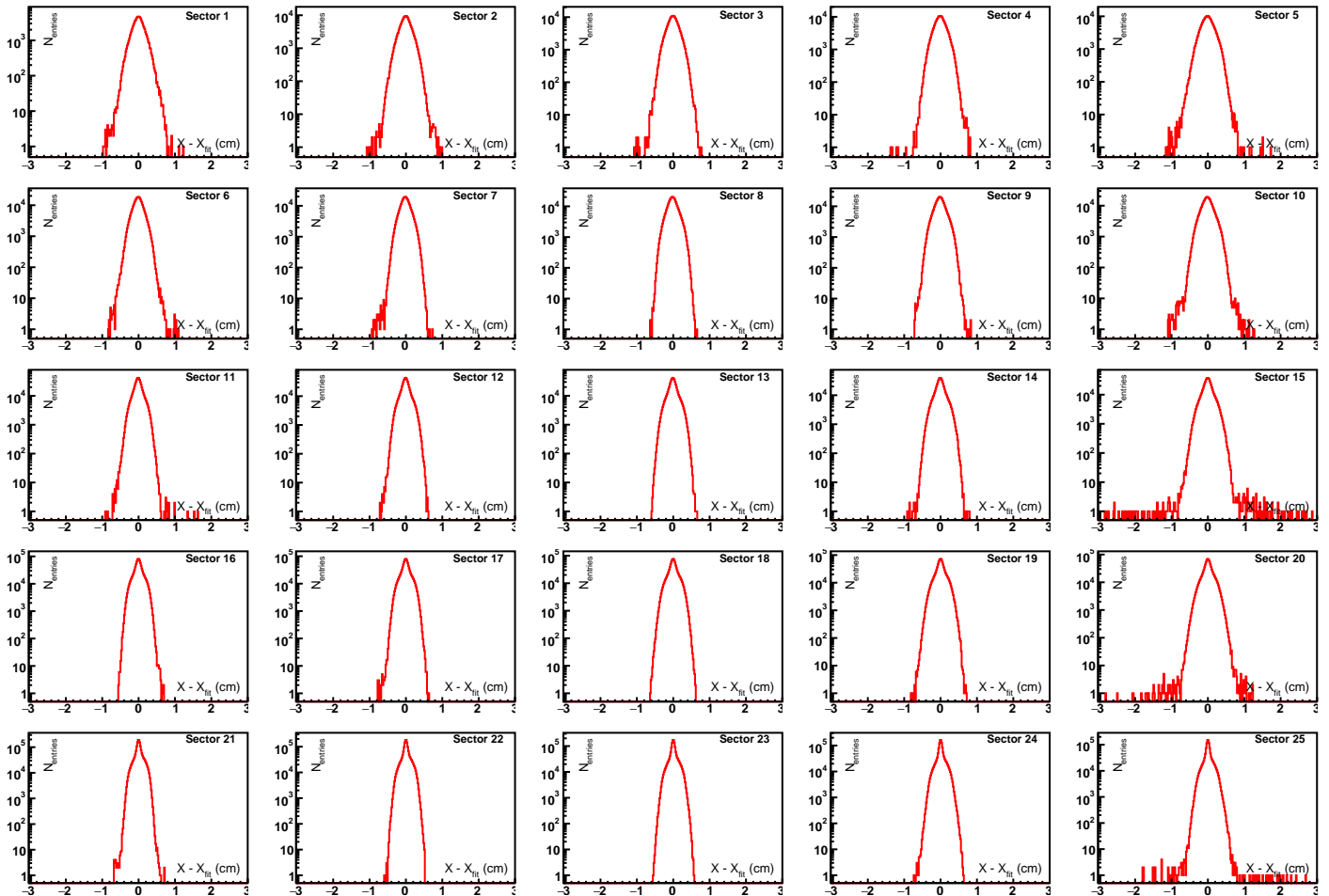
VTPC2: $X - X_{\text{fit}}$



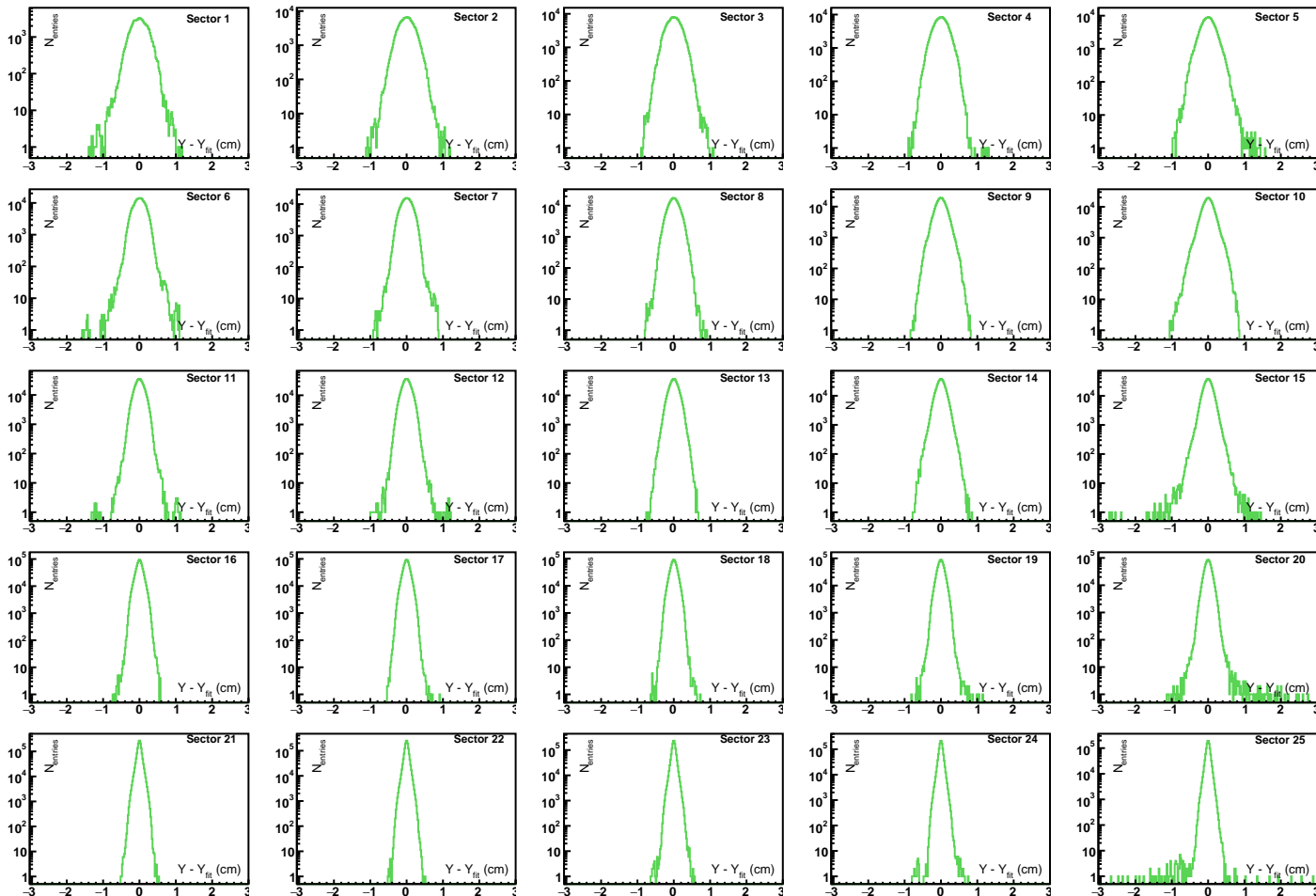
VTPC2: $Y - Y_{\text{fit}}$



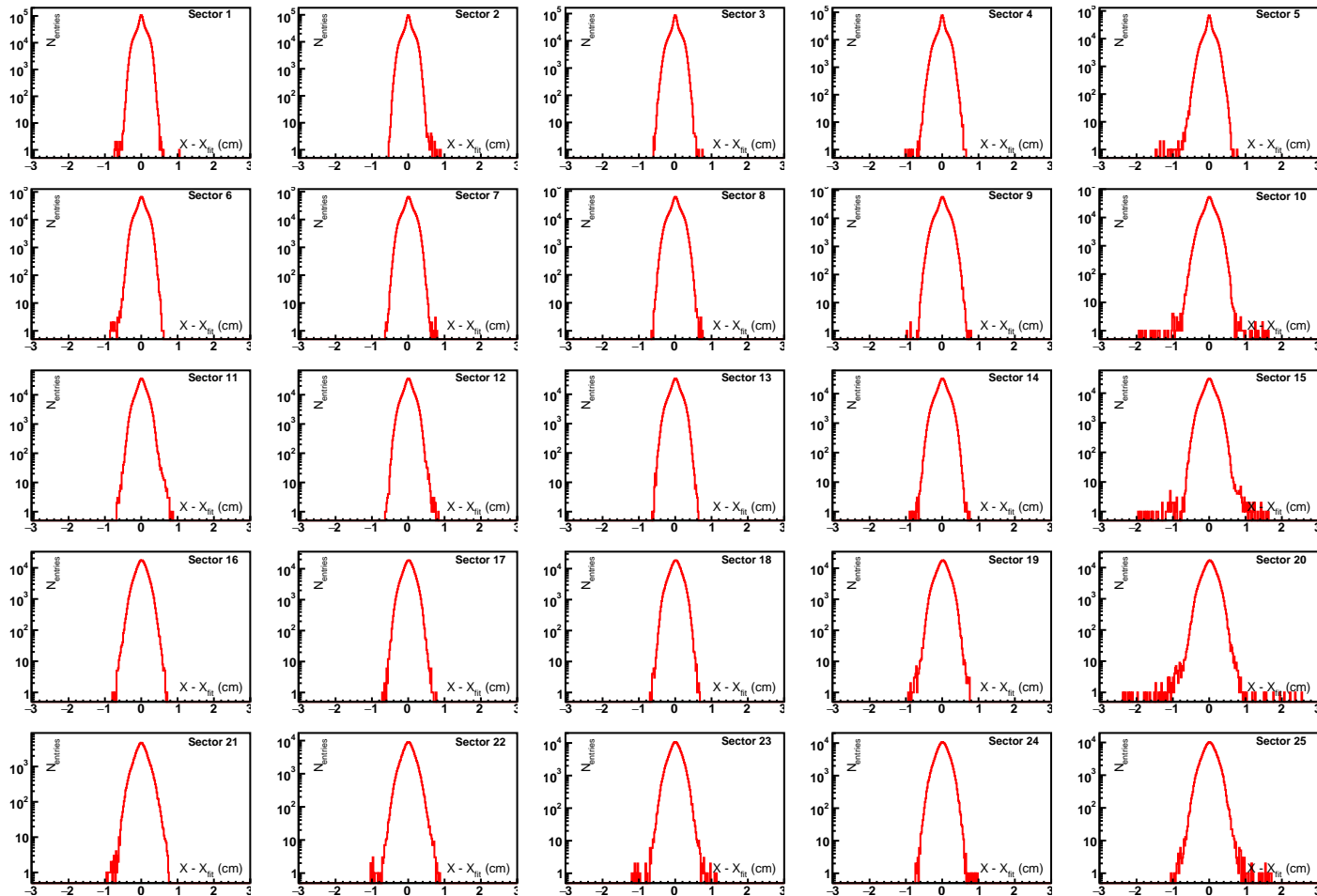
MTPCL: $X - X_{fit}$



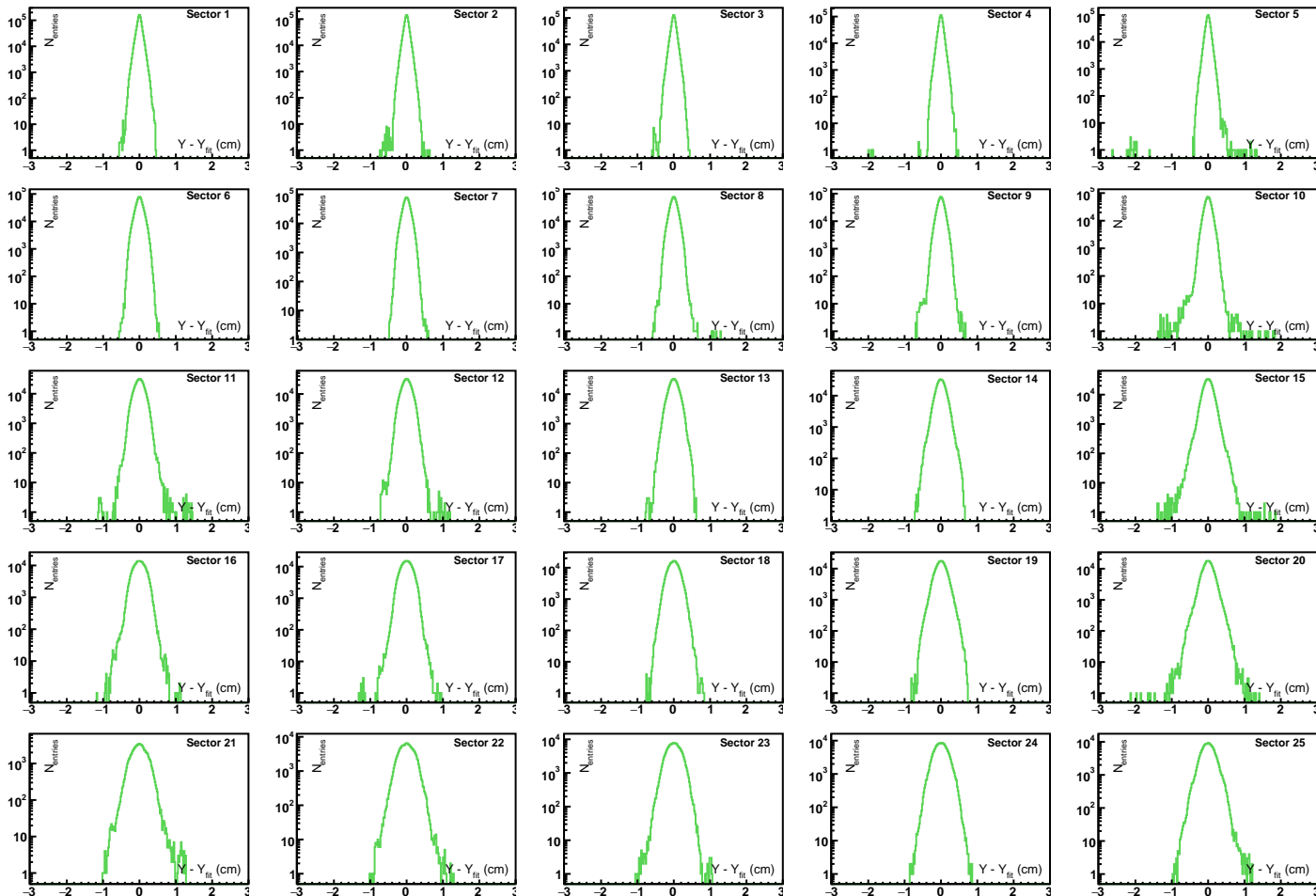
MTPCL: $Y - Y_{fit}$



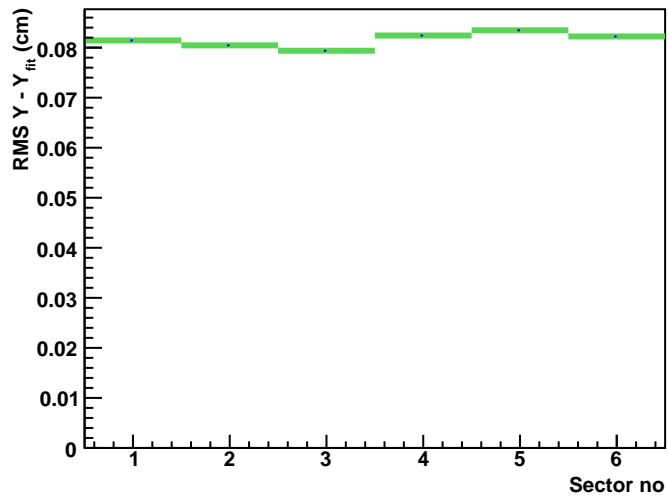
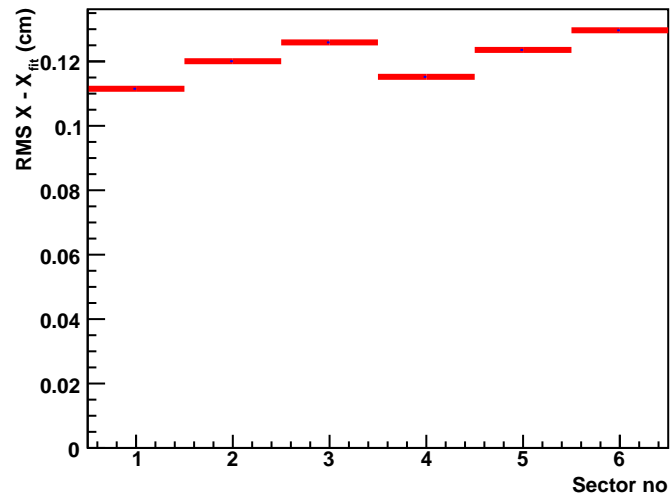
MTPCR: $X - X_{fit}$



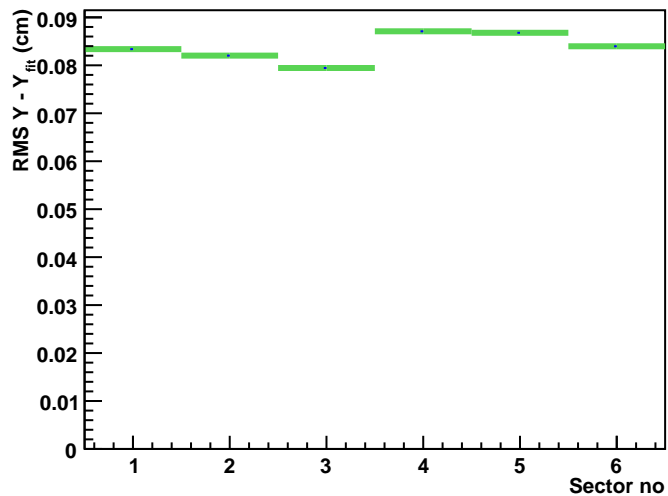
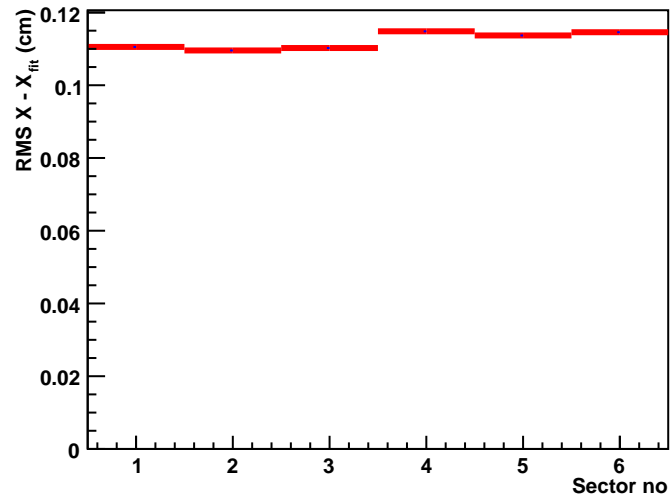
MTPCR: $Y - Y_{fit}$



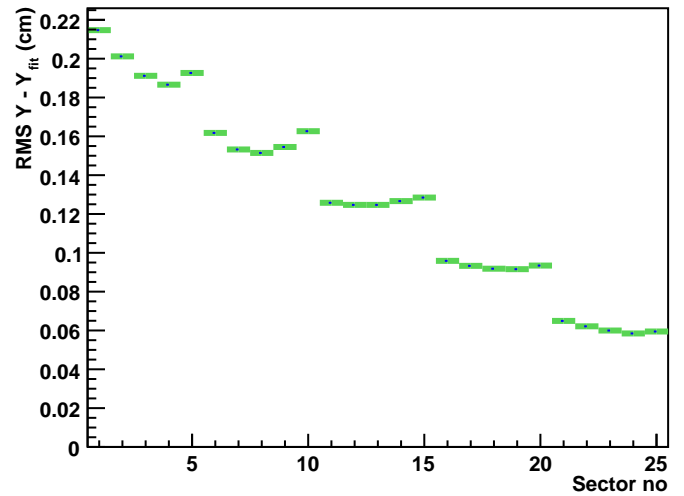
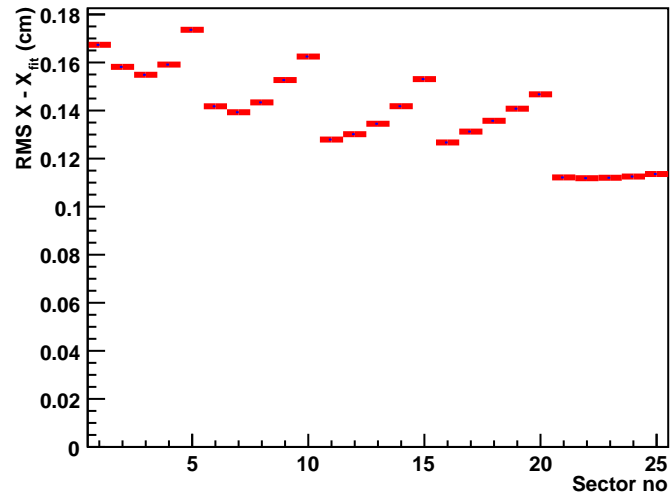
VTPC1 RMS Residual distribution



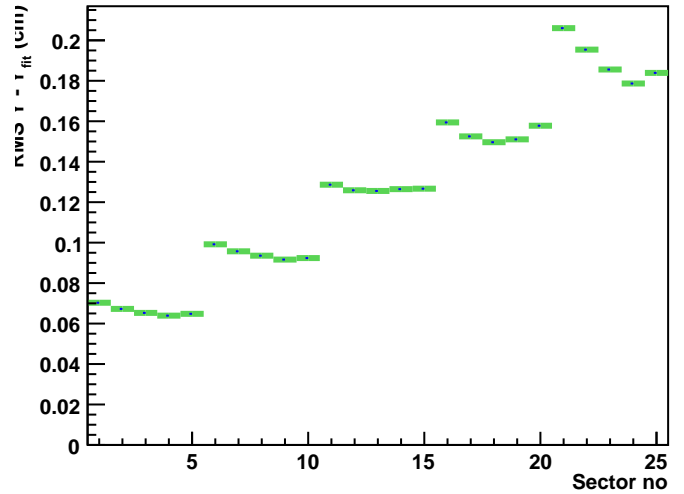
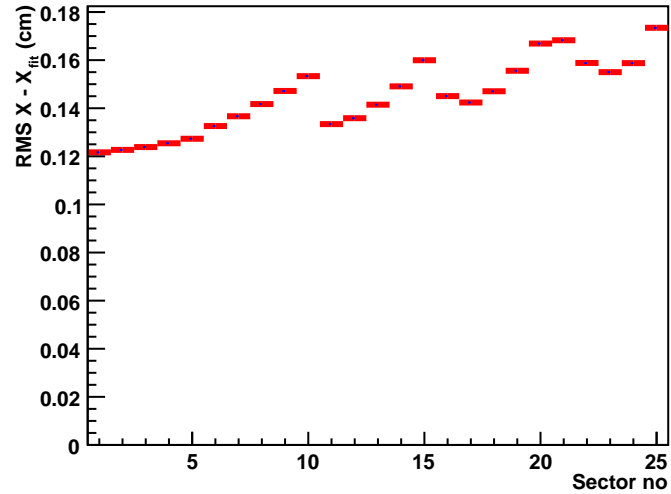
VTPC2 RMS Residual distribution

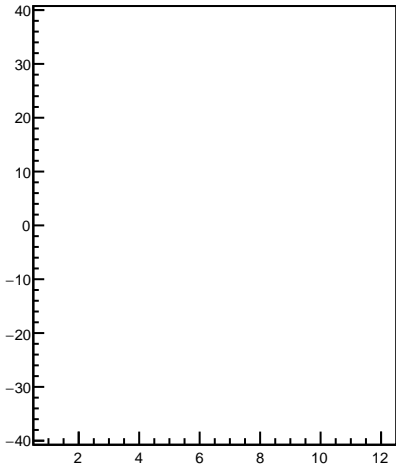
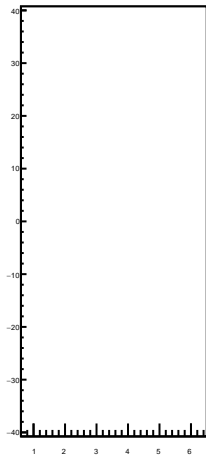
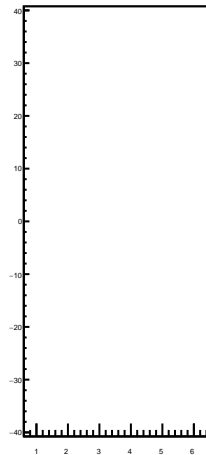
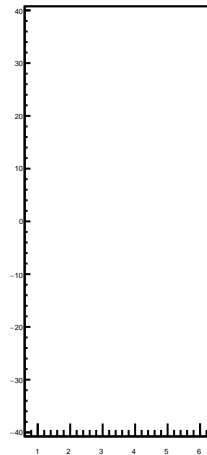
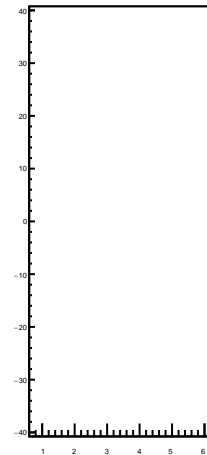
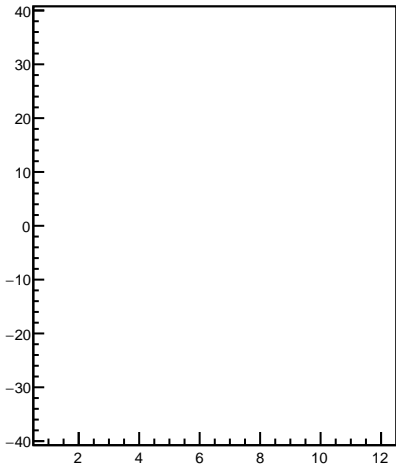
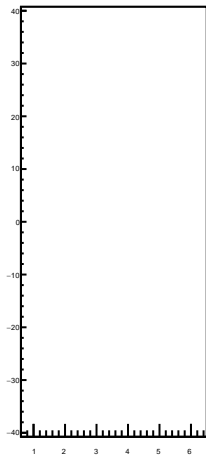
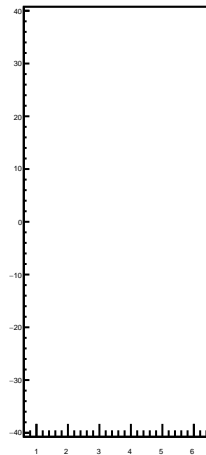
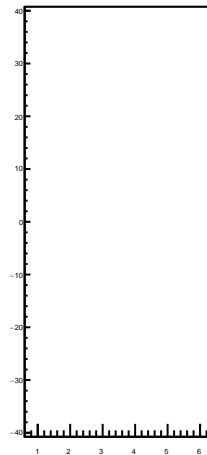
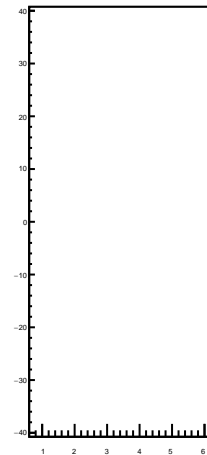


MTPCL RMS Residual distribution



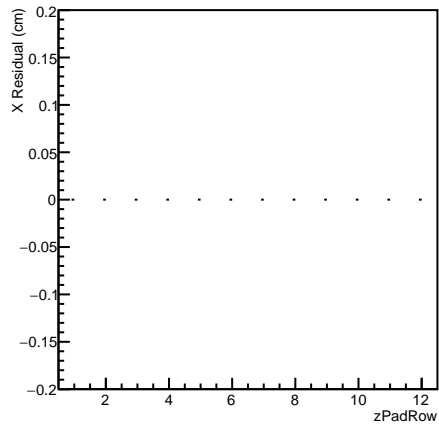
MTPCR RMS Residual distribution



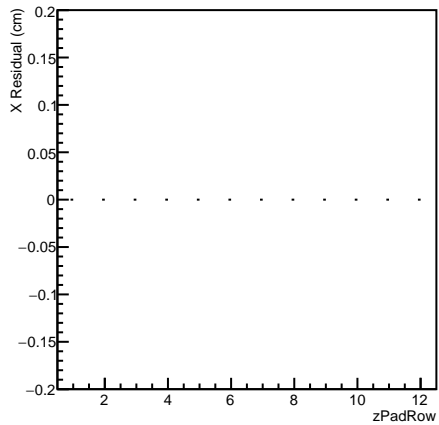
FTPC1X**FTPC2X1****FTPC2X2****FTPC3X1****FTPC3X2****FTPC1Y****FTPC2Y1****FTPC2Y2****FTPC3Y1****FTPC3Y2**

FTPC 1D Histograms

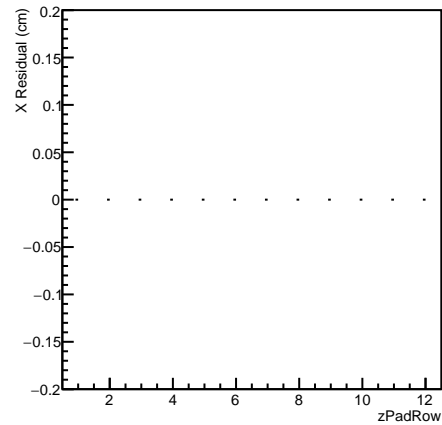
FTPC1ResX



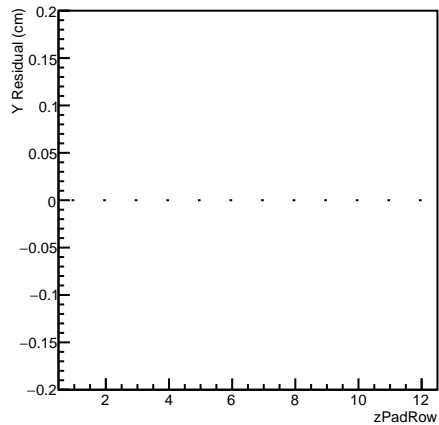
FTPC2ResX



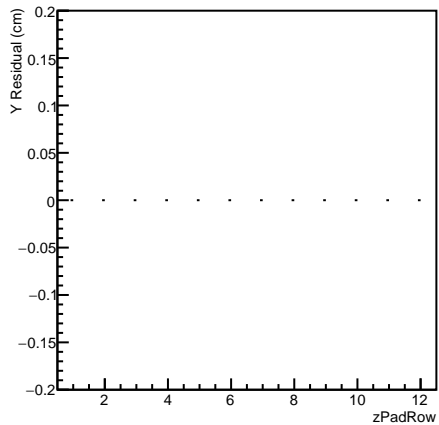
FTPC3ResX



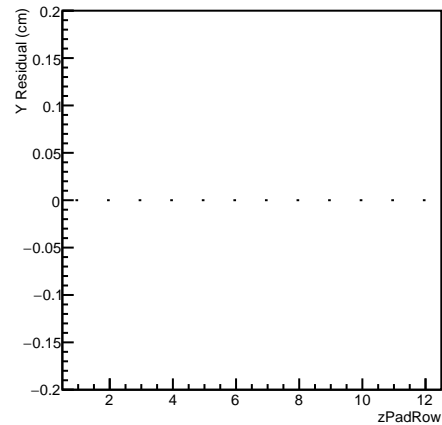
FTPC1ResY



FTPC2ResY



FTPC3ResY



NA61/SHINE Residual Report prepared on:

Thu Jul 25 20:09:44 2024