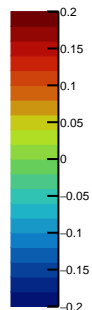
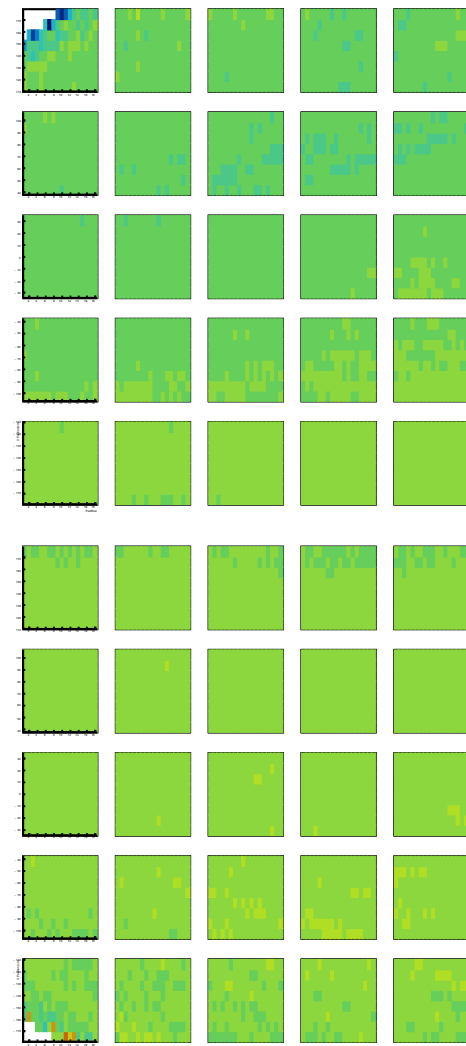
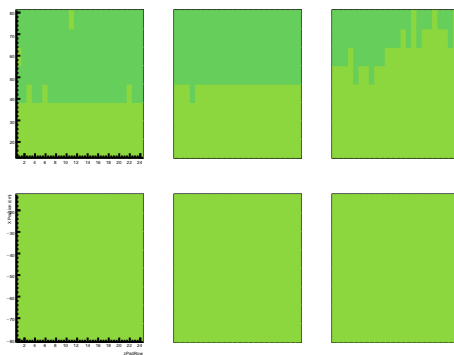
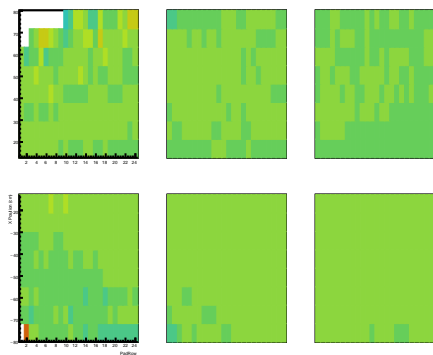


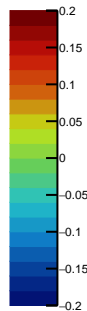
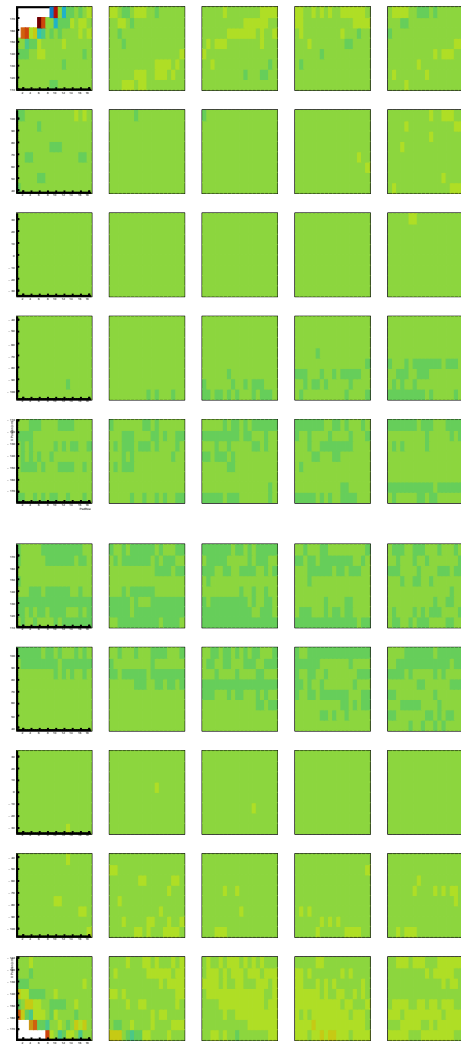
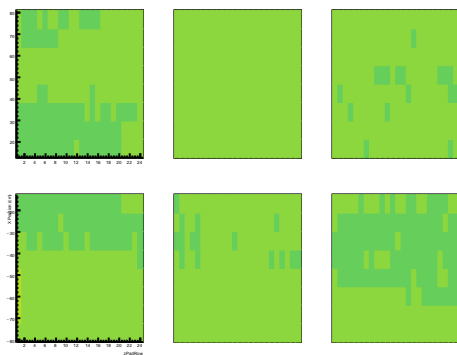
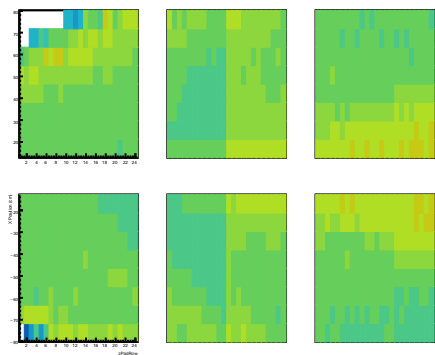
# NA61/SHINE Residual QA plots

Run used: EPOS10Luminance

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

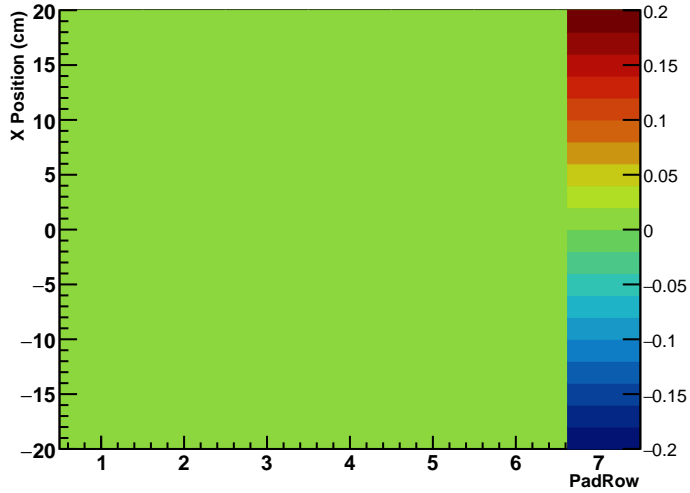


# Large TPCs: $\langle Y - Y_{fit} \rangle$

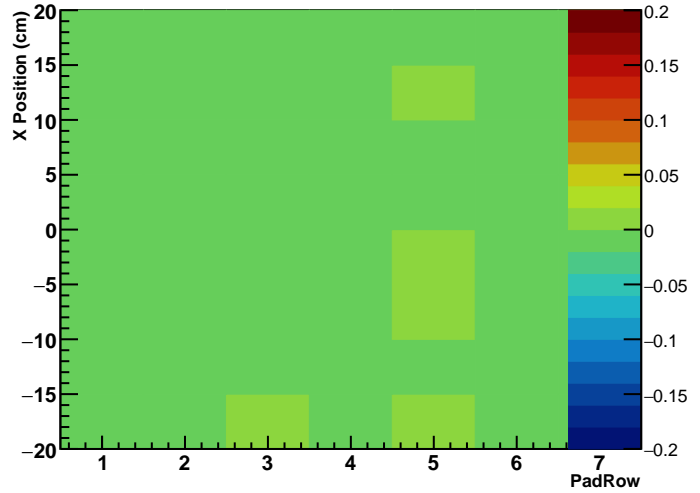


# GAP TPC

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

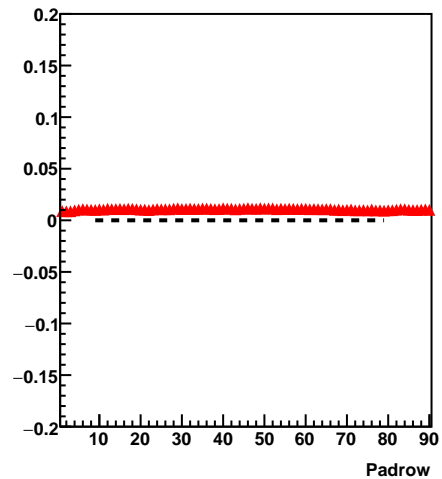
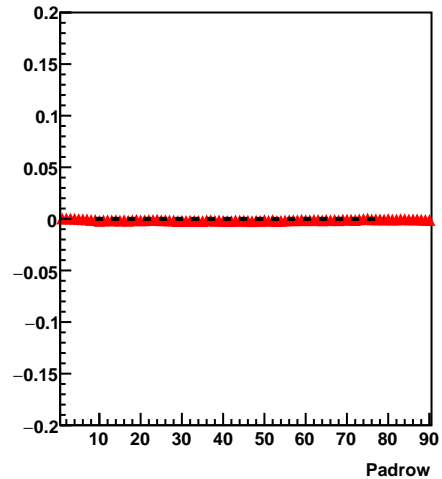
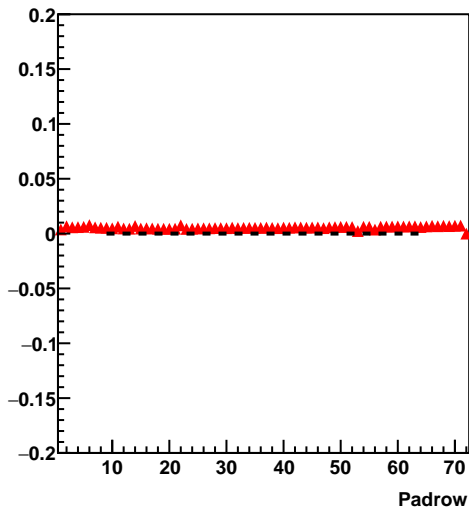
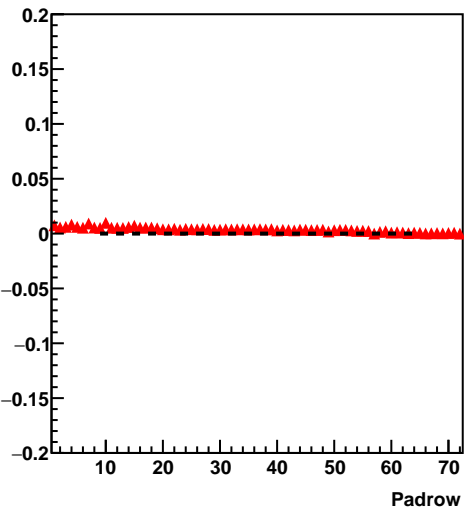


$\langle Y - Y_{\text{fit}} \rangle$



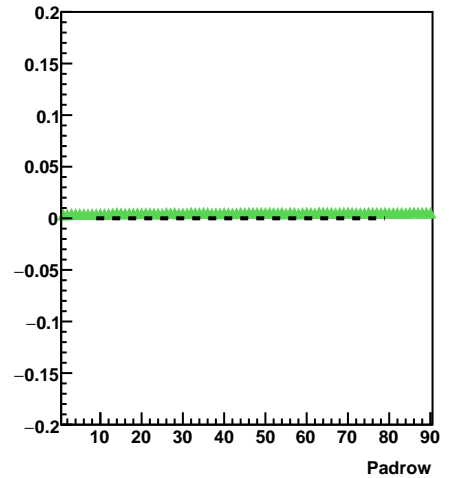
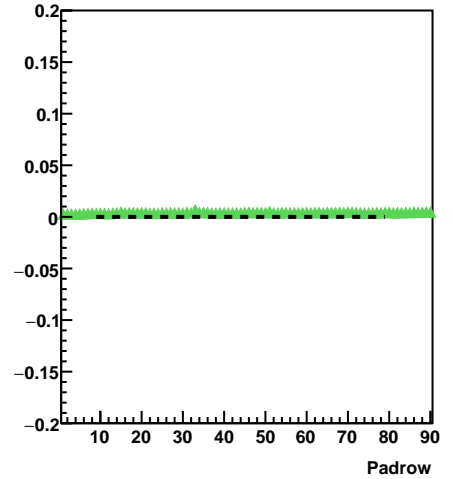
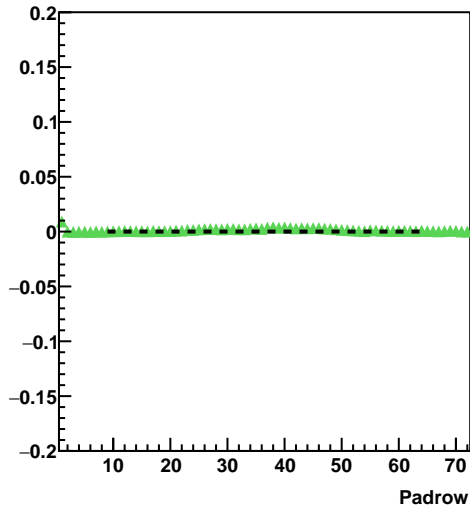
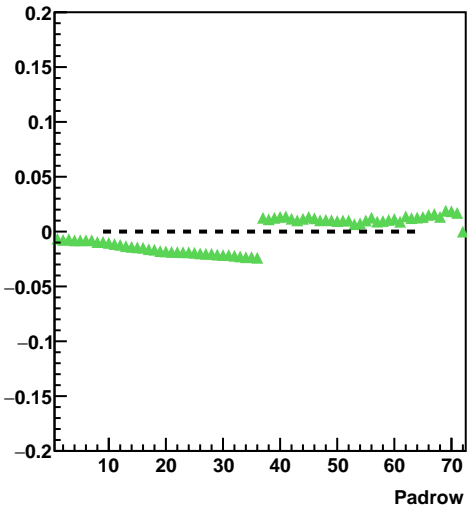
# Large TPCs : $\langle X - X_{\text{fit}} \rangle$

Averaged over X and Y



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

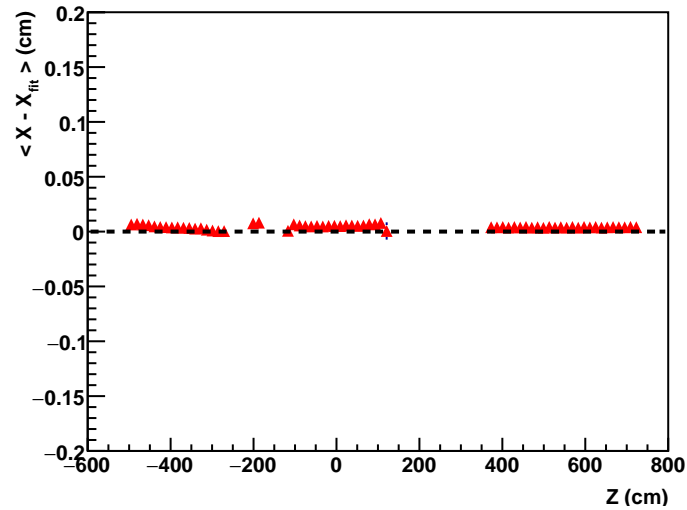
Averaged over X and Y



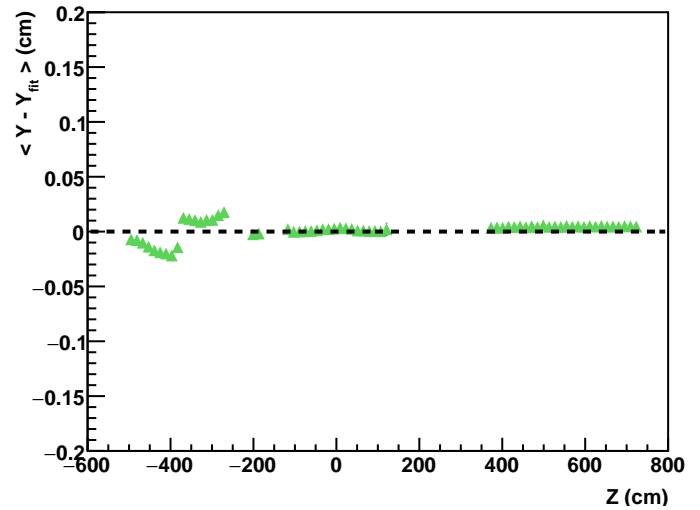
# Residuals for Z-position

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

## X Residuals

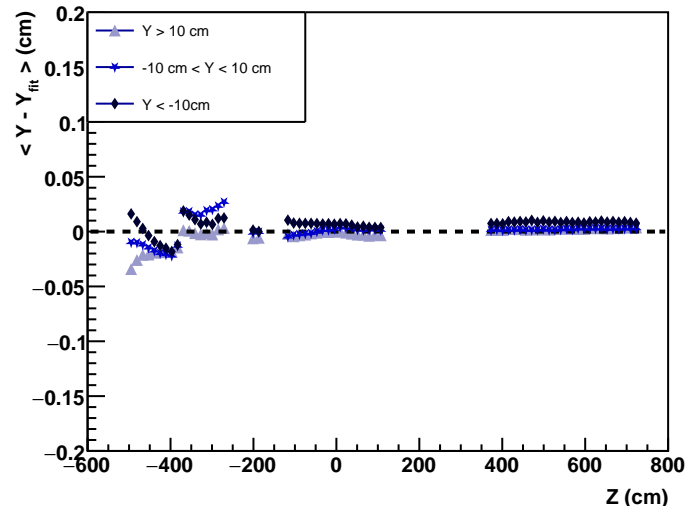
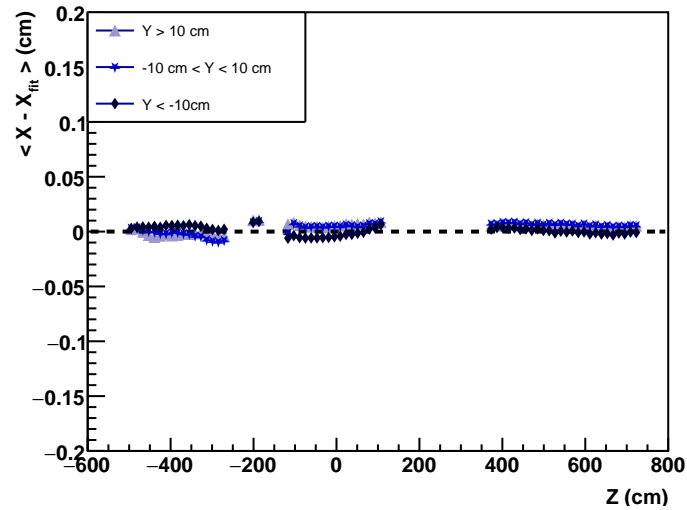


## Y Residuals



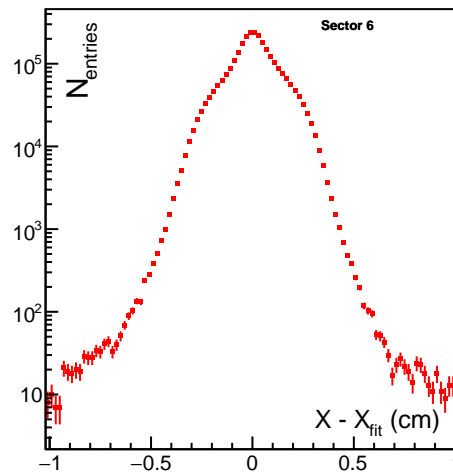
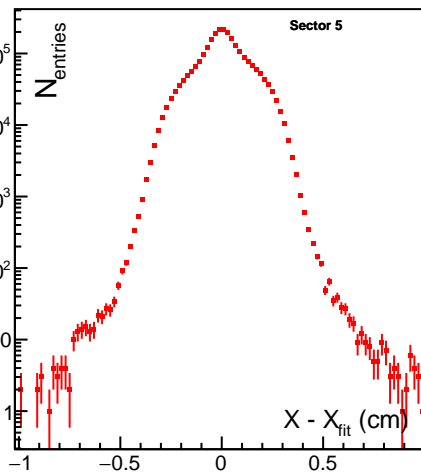
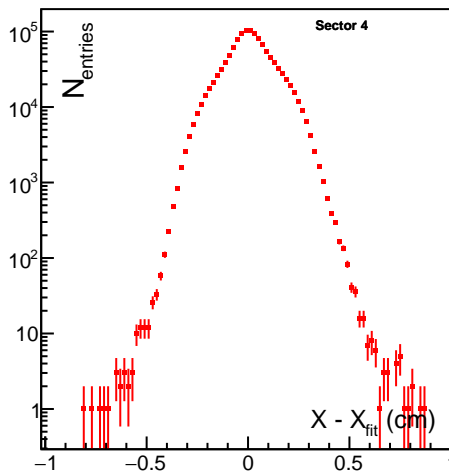
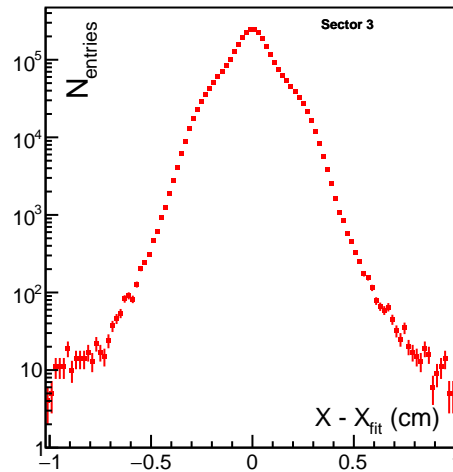
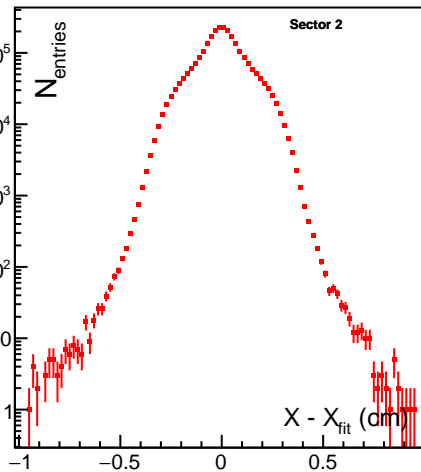
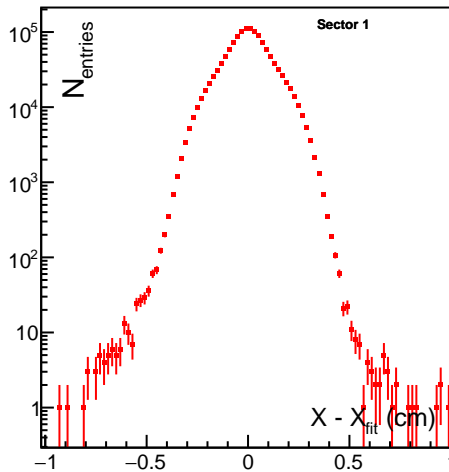
# Large TPCs: $\langle X - X_{\text{fit}} \rangle$ and $\langle Y - Y_{\text{fit}} \rangle$

Averaged over  $X > 0$  and  $\Delta Y$

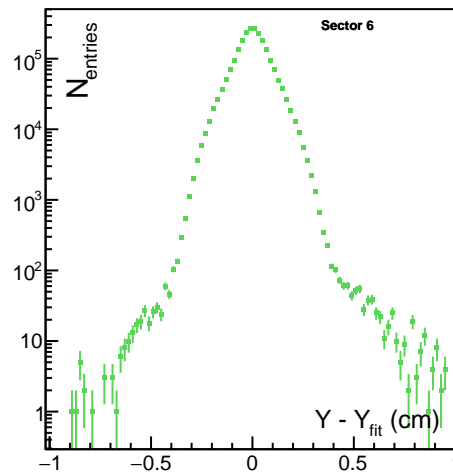
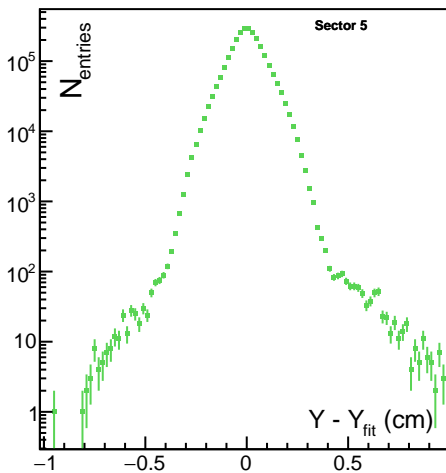
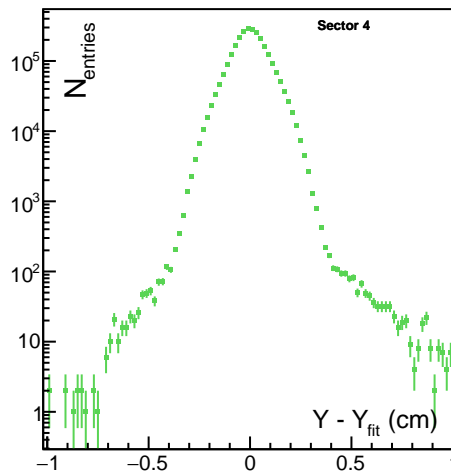
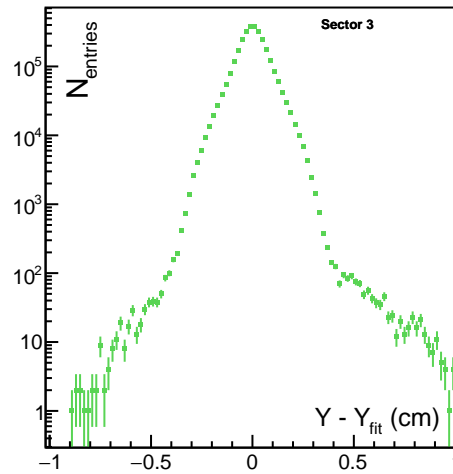
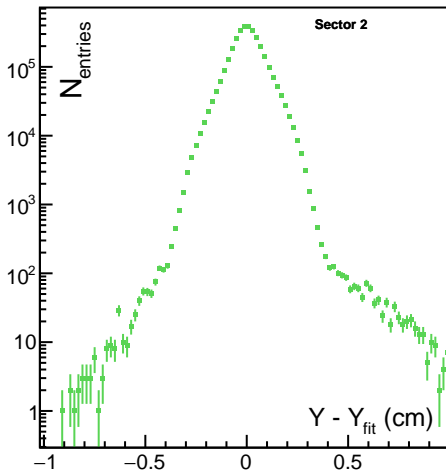
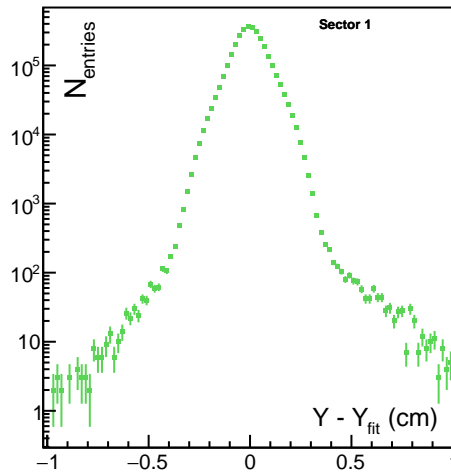




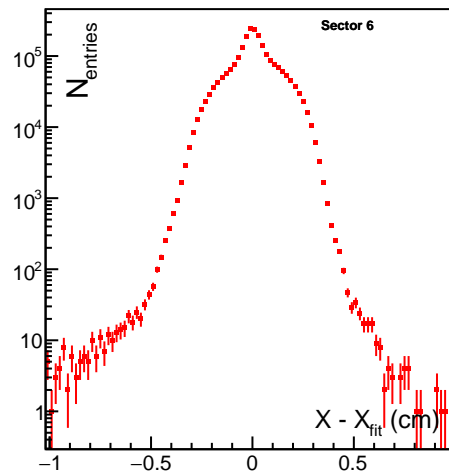
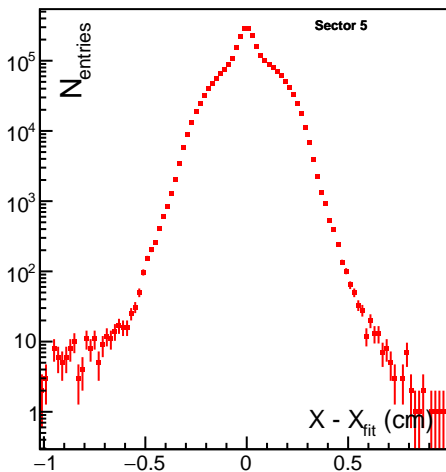
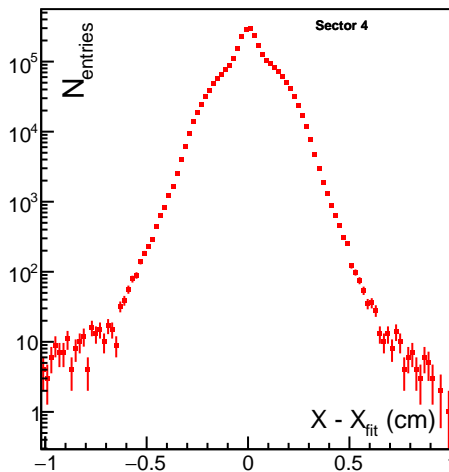
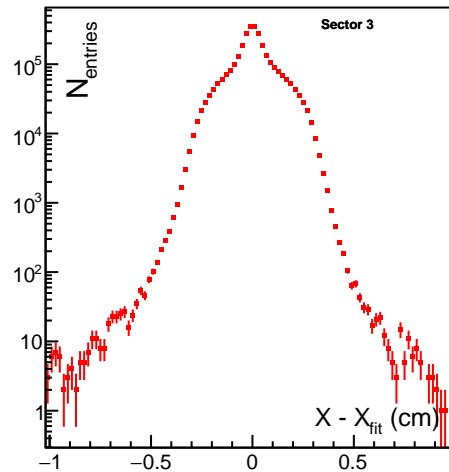
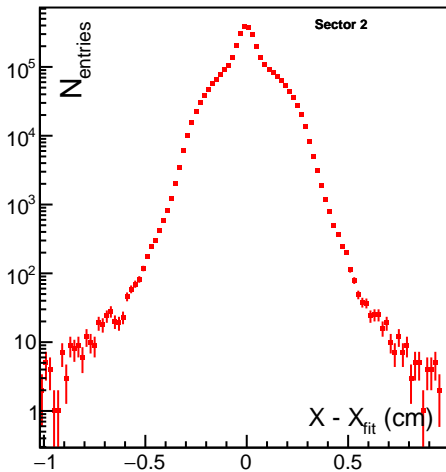
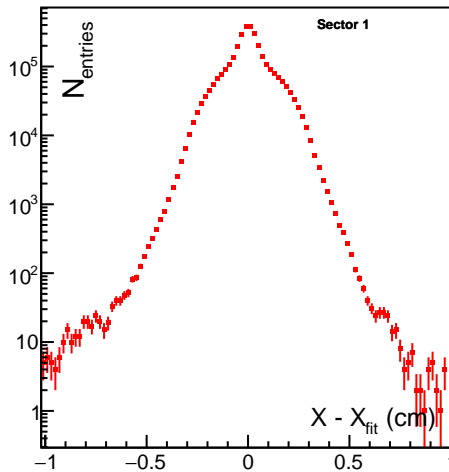
# VTPC1: $X - X_{\text{fit}}$



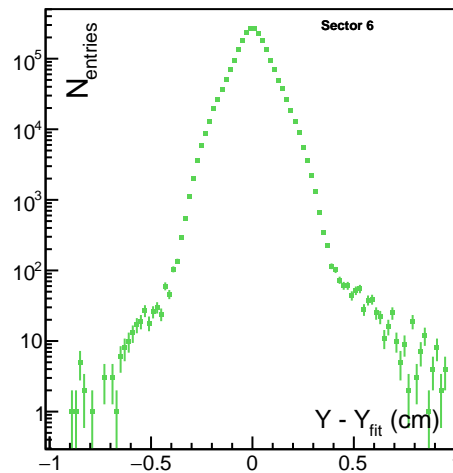
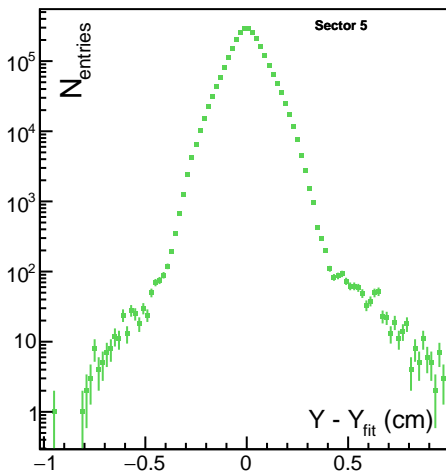
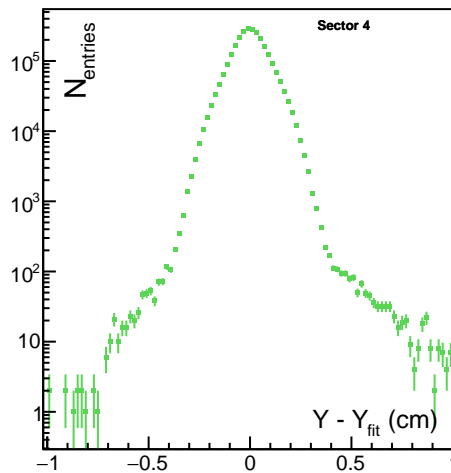
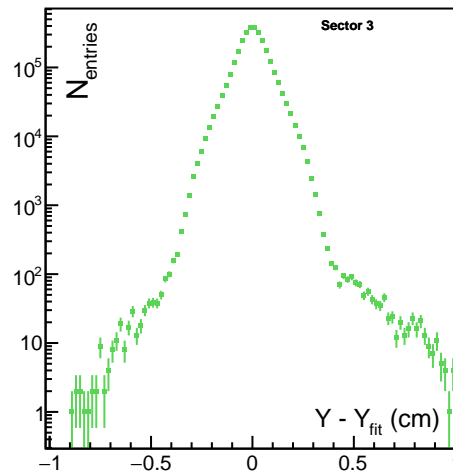
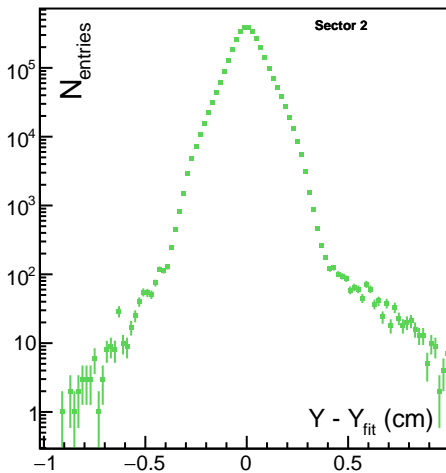
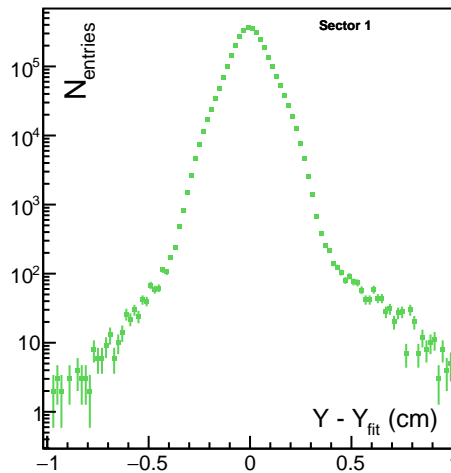
# VTPC1: $Y - Y_{\text{fit}}$



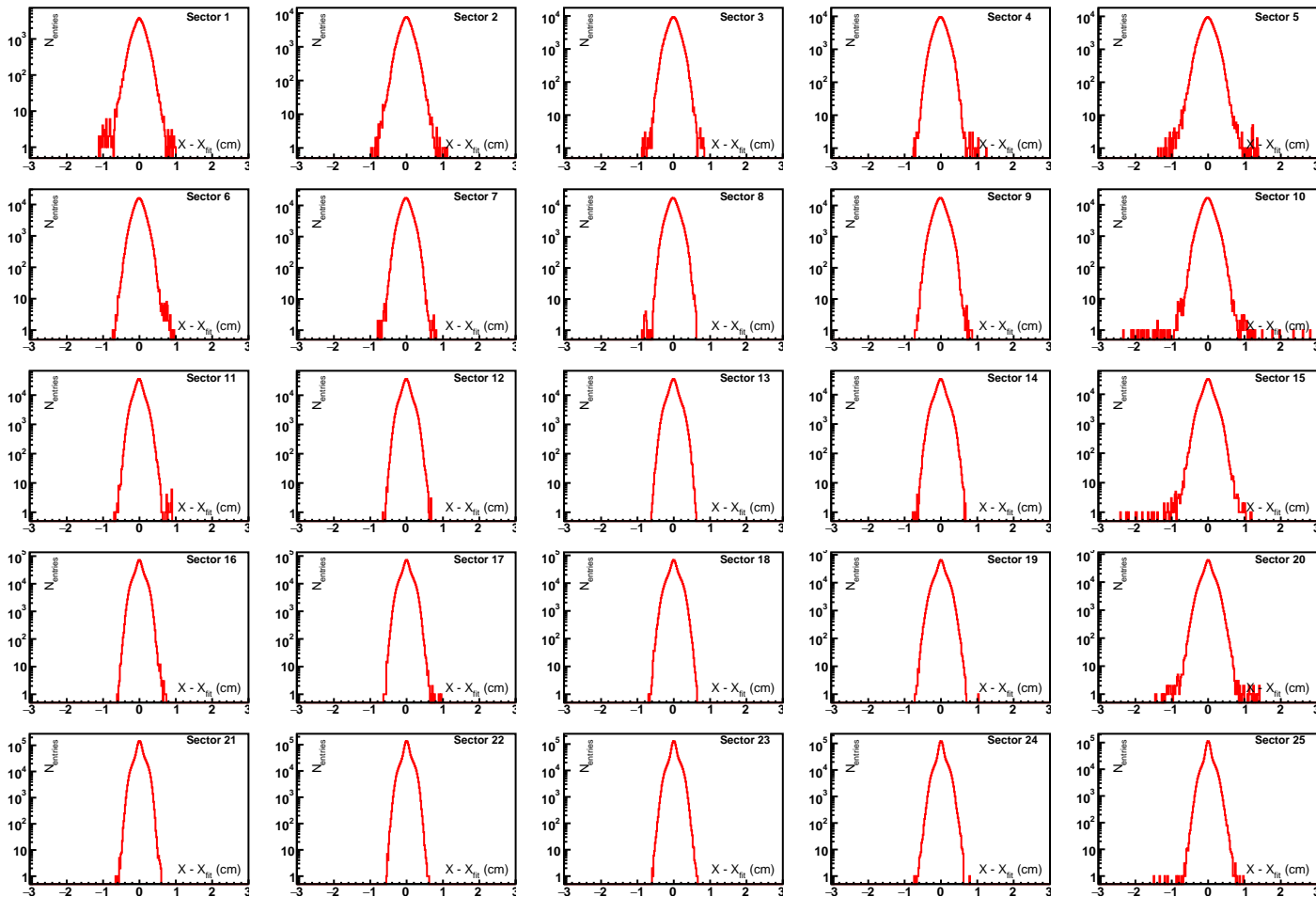
# VTPC2: $X - X_{\text{fit}}$



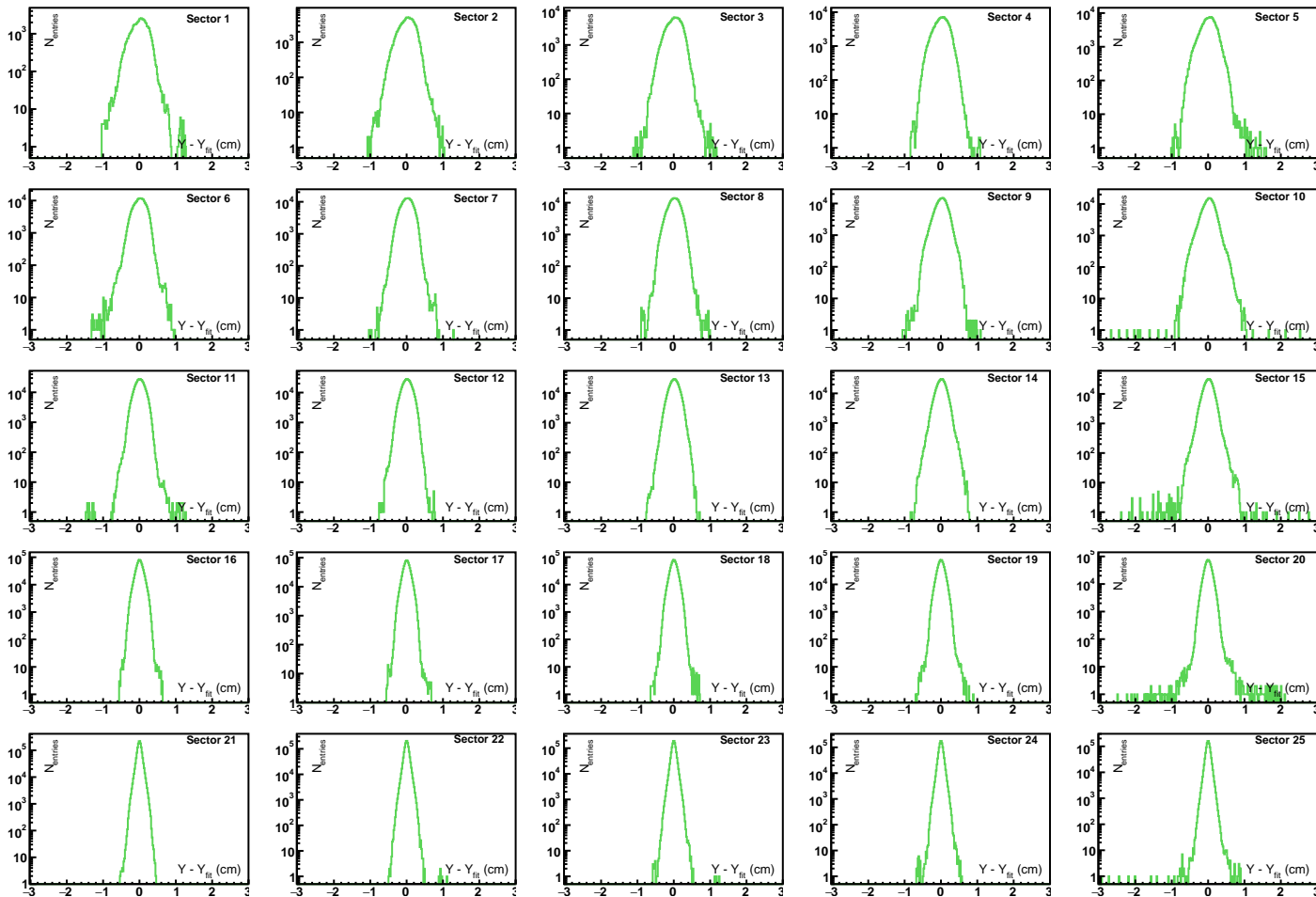
# VTPC2: $Y - Y_{\text{fit}}$



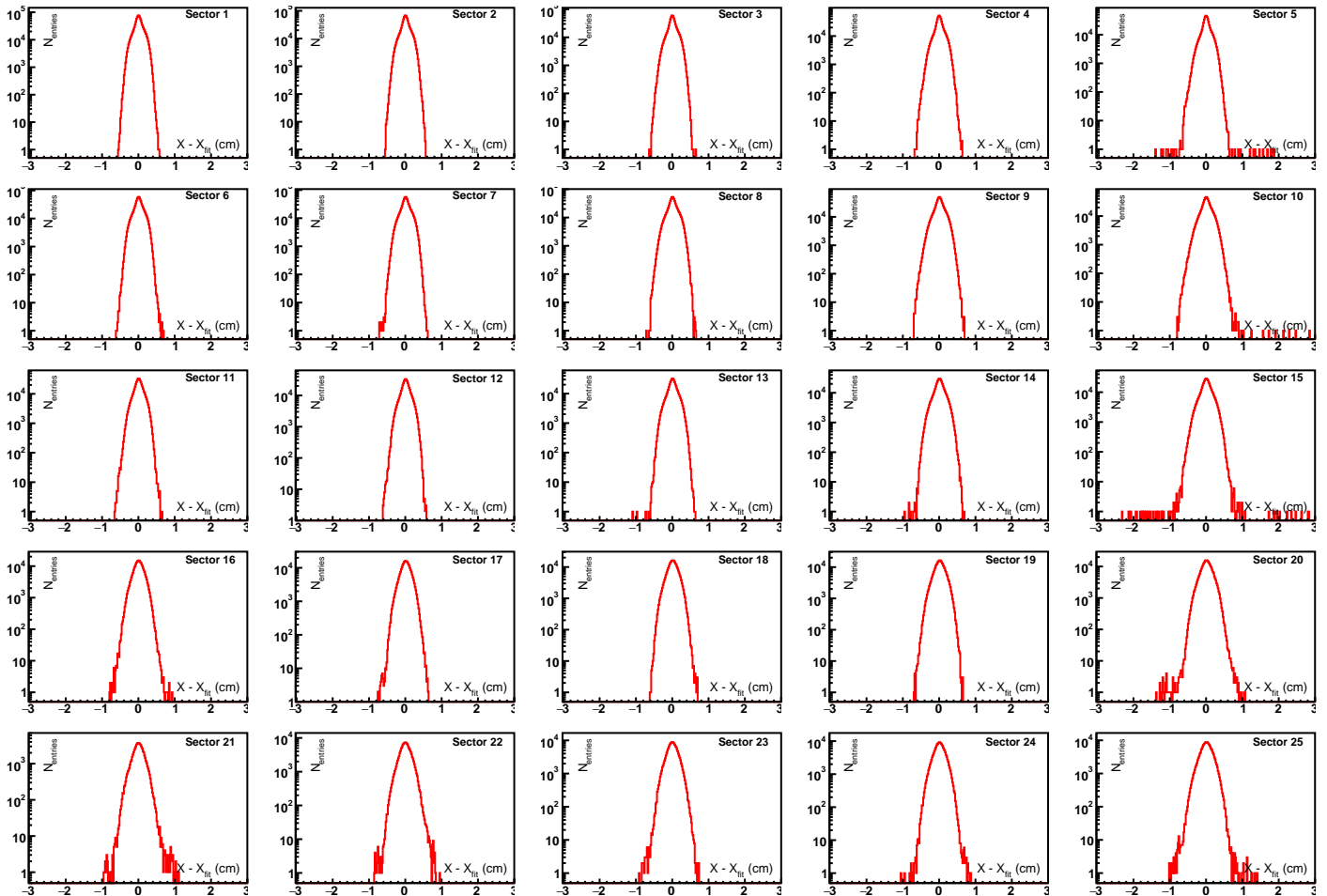
# MTPCL: $X - X_{fit}$



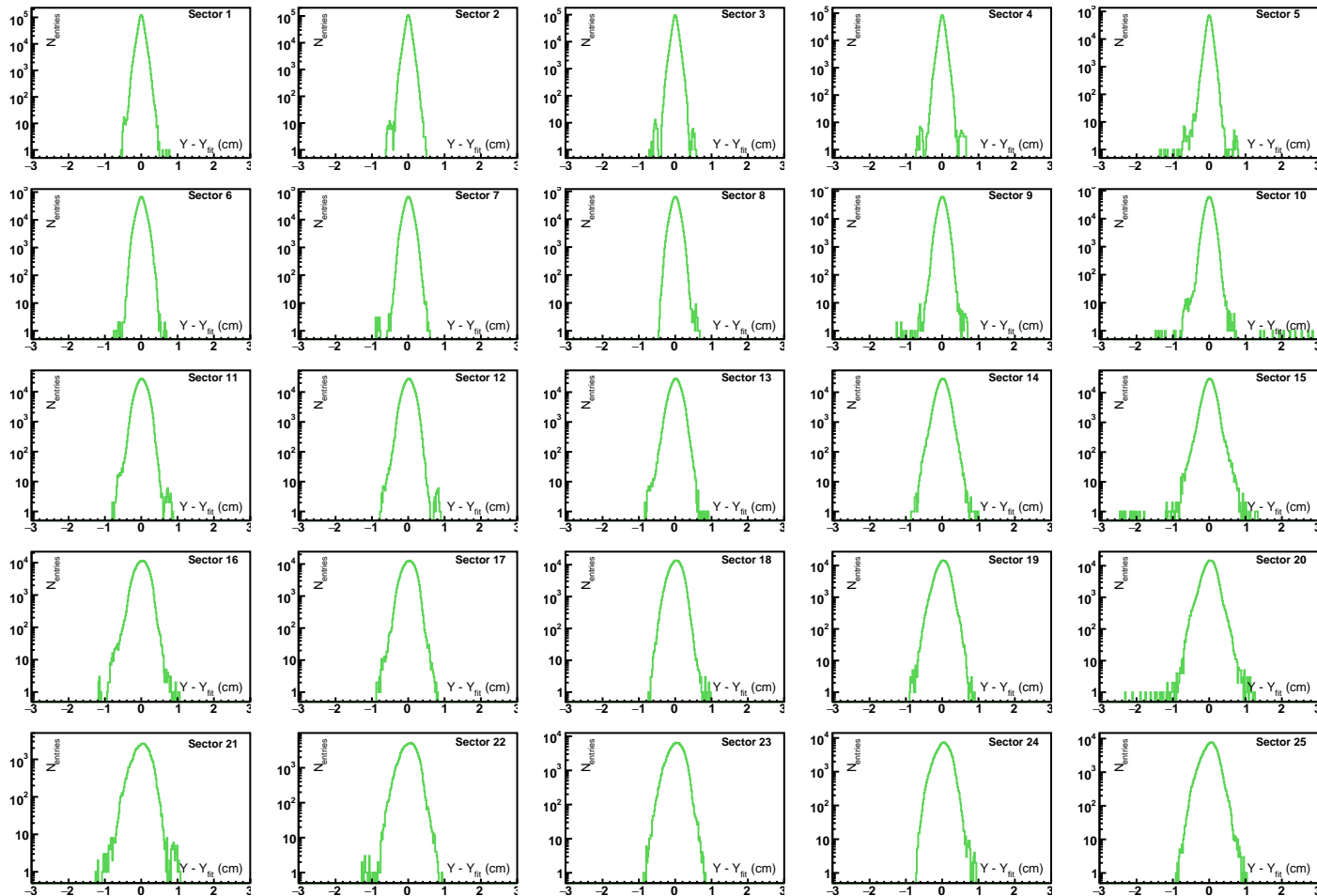
# MTPCL: $Y - Y_{fit}$



# MTPCR: $X - X_{fit}$

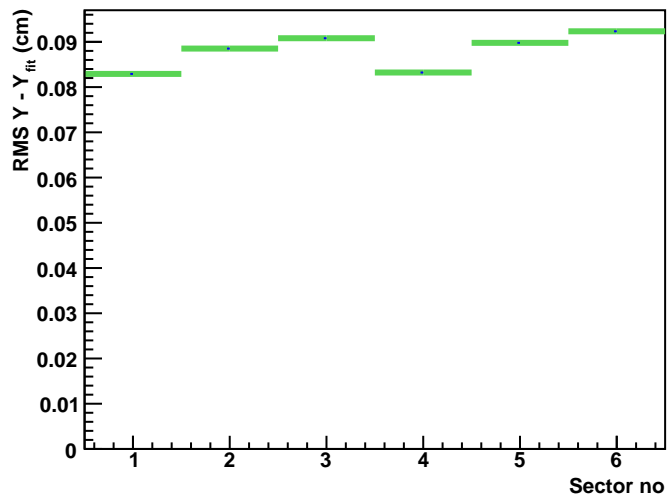
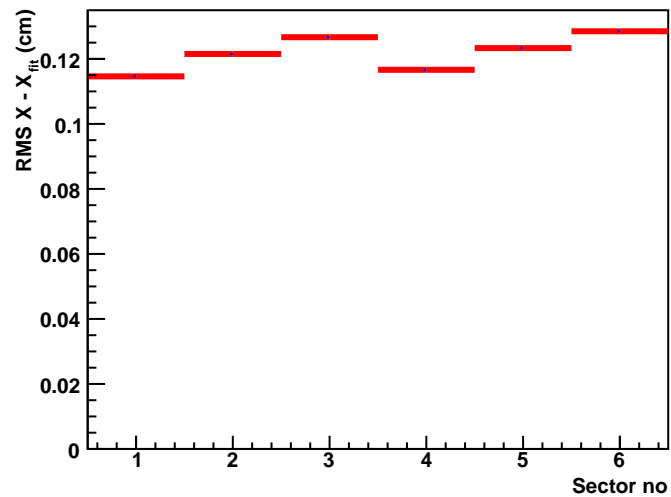


# MTPCR: $Y - Y_{fit}$

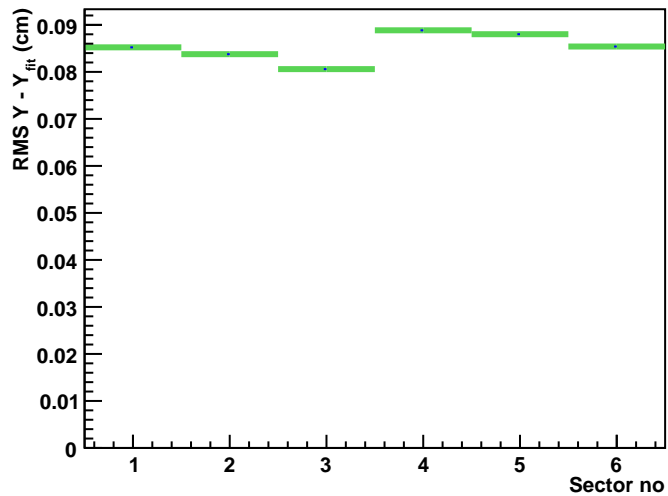
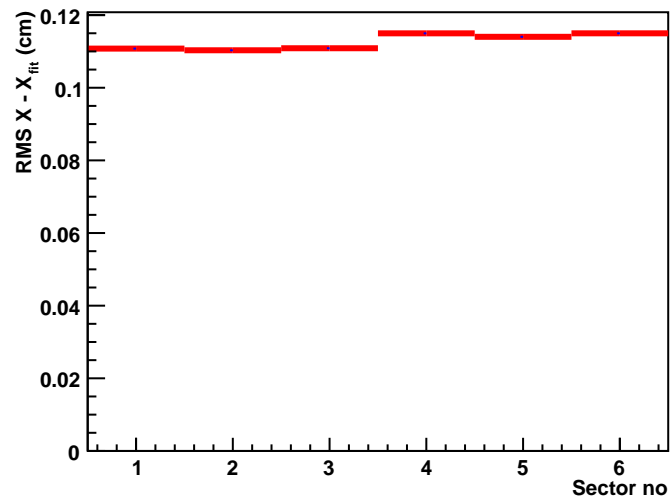




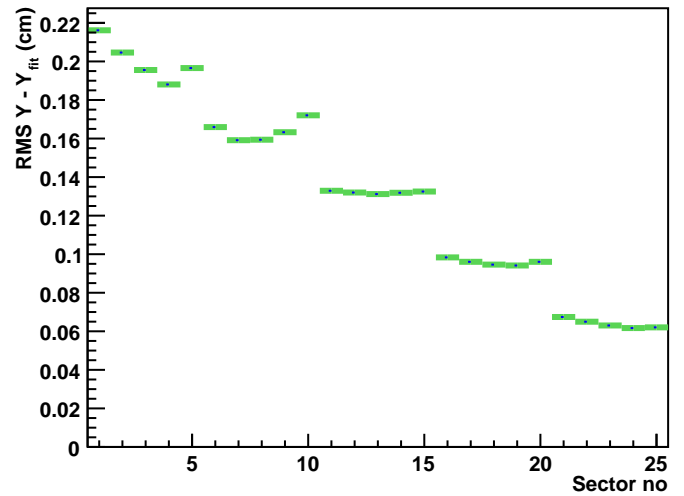
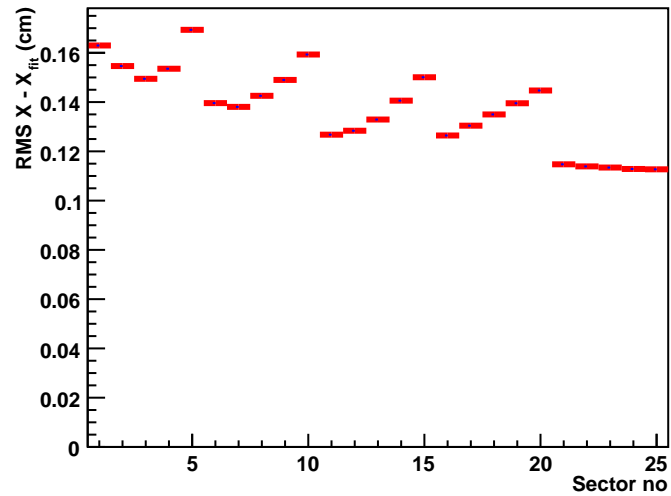
# VTPC1 RMS Residual distribution



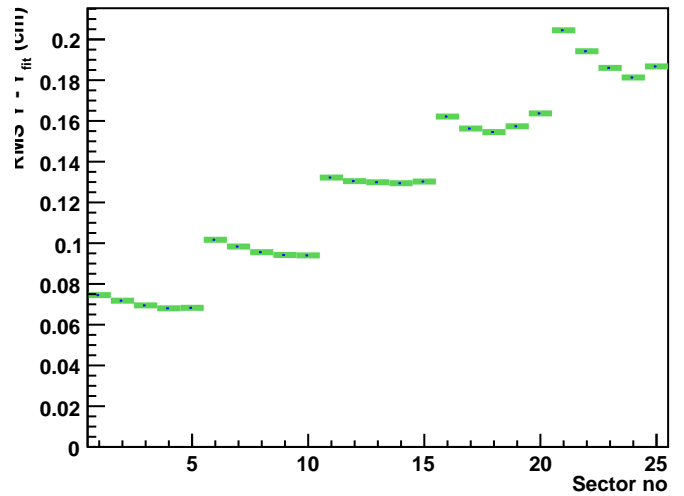
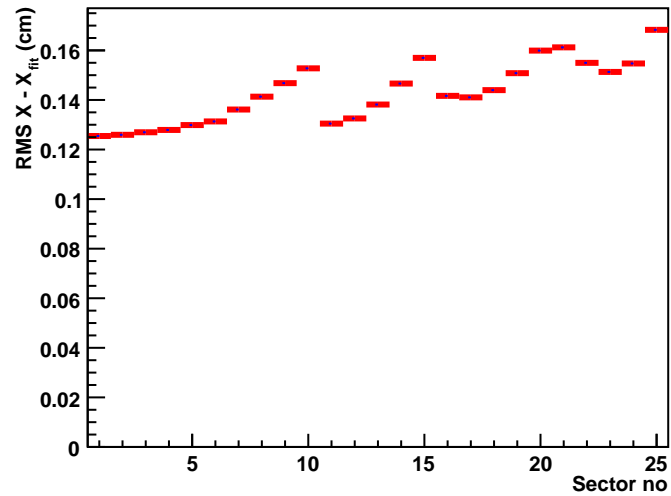
# VTPC2 RMS Residual distribution

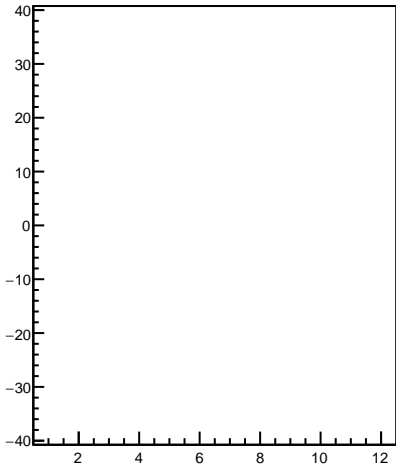
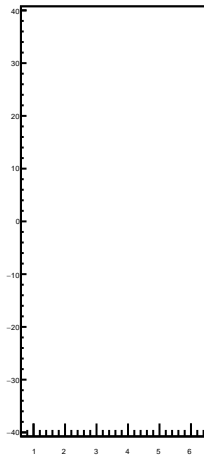
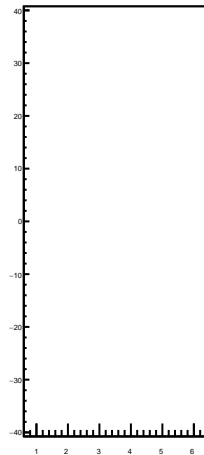
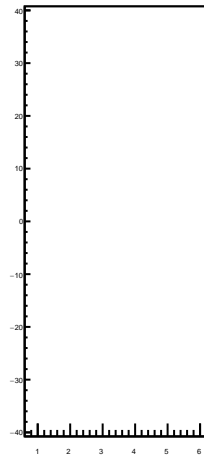
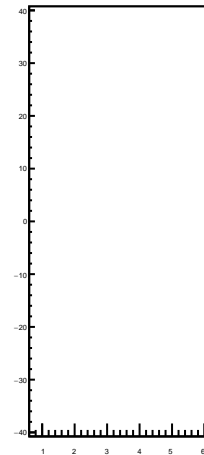
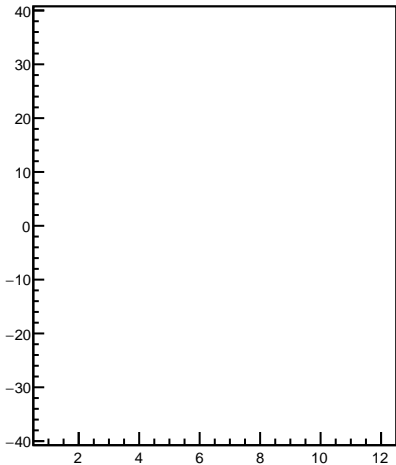
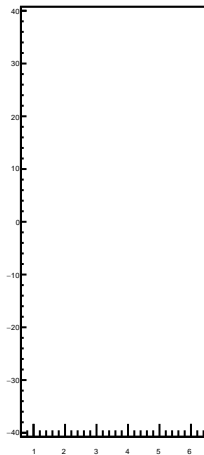
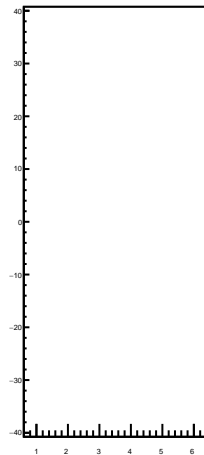
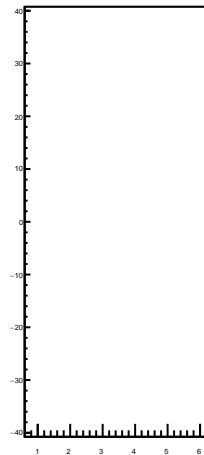
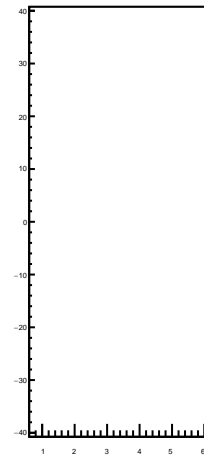


# MTPCL RMS Residual distribution



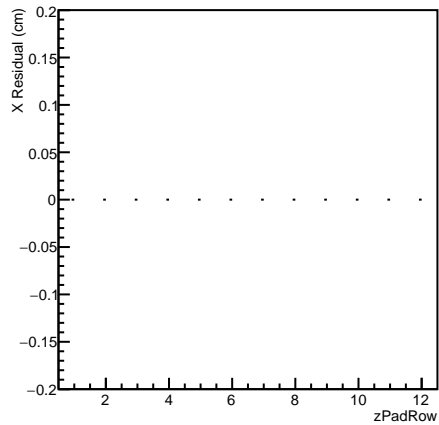
# MTPCR RMS Residual distribution



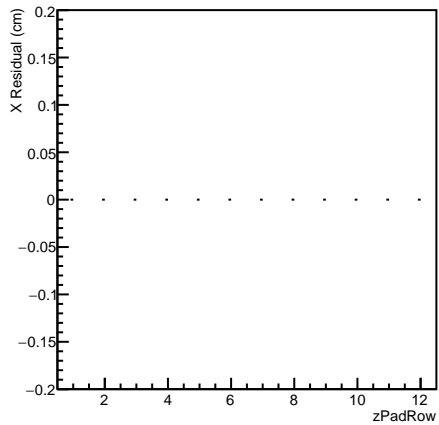
**FTPC1X****FTPC2X1****FTPC2X2****FTPC3X1****FTPC3X2****FTPC1Y****FTPC2Y1****FTPC2Y2****FTPC3Y1****FTPC3Y2**

# FTPC 1D Histograms

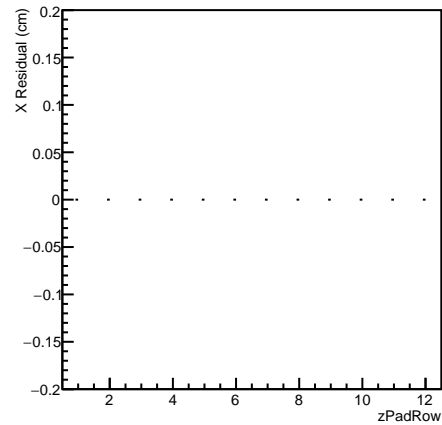
**FTPC1ResX**



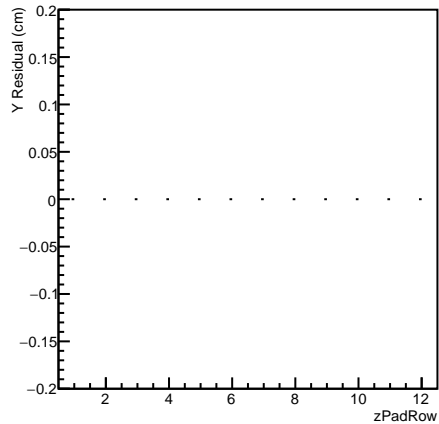
**FTPC2ResX**



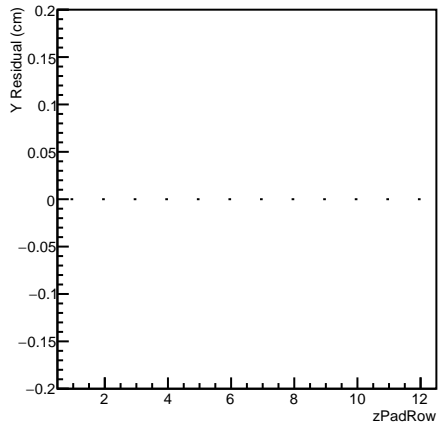
**FTPC3ResX**



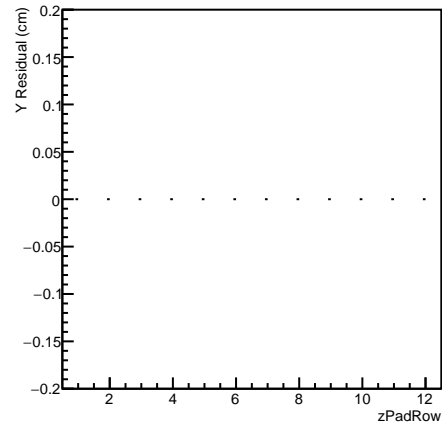
**FTPC1ResY**



**FTPC2ResY**



**FTPC3ResY**



**NA61/SHINE Residual Report prepared on:**

**Fri Jul 26 14:56:42 2024**