Run used: 15177
Large TPCs: $< X - X_{\text{fit}} >$
Large TPCs: $<X - X_{\text{fit}}>$

Averaged over X and Y
Large TPCs: $< Y - Y_{\text{fit}} >$

Averaged over $X$ and $Y$
Residuals for Z-position

Total Residuals of all the chambers [ VTPC1 VTPC2 MTPCS ] respectively.
Large TPCs: $< X - X_{fit} >$ and $< Y - Y_{fit} >$

Averaged over $X > 0$ and $\Delta Y$
VTPC1: $X - X_{\text{fit}}$
VTPC2: $X - X_{\text{fit}}$

The diagrams show the distribution of entries for each sector, with the x-axis representing the difference between $X$ and $X_{\text{fit}}$ (in cm), and the y-axis representing the number of entries on a logarithmic scale. Each sector is labeled, with sects labeled as Sector 1 to Sector 6.
VTPC2: $Y - Y_{\text{fit}}$
MTPCL: $X - X_{fit}$

![Graphs showing distributions for different sectors]

- Sector 1
- Sector 2
- Sector 3
- Sector 4
- Sector 5
- Sector 6
- Sector 7
- Sector 8
- Sector 9
- Sector 10
- Sector 11
- Sector 12
- Sector 13
- Sector 14
- Sector 15
- Sector 16
- Sector 17
- Sector 18
- Sector 19
- Sector 20
- Sector 21
- Sector 22
- Sector 23
- Sector 24
- Sector 25
MTPCR: Y - Y fit

<table>
<thead>
<tr>
<th>Sector 1</th>
<th>Sector 2</th>
<th>Sector 3</th>
<th>Sector 4</th>
<th>Sector 5</th>
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<tbody>
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VTPC1 RMS Residual distribution

Sector no

RMS X - X

RMS Y - Y

Sector no
MTPCL RMS Residual distribution

![Graph showing RMS residuals for X and Y sectors.](image-url)
FTPC 1D Histograms

FTPC1ResX

FTPC2ResX

FTPC3ResX

FTPC1ResY

FTPC2ResY

FTPC3ResY
NA61/SHINE Residual Report prepared on:

Mon Jun 21 12:52:07 2021