

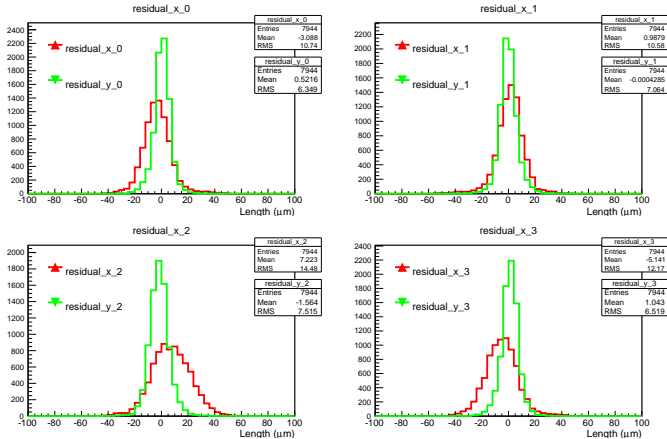
Update on Beam Test Data Reconstruction in Telescope

Oron Rosenblat

FCAL clustering WG meeting

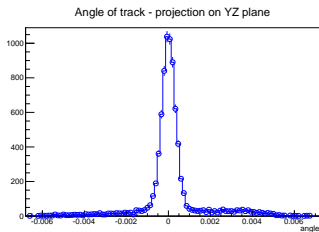
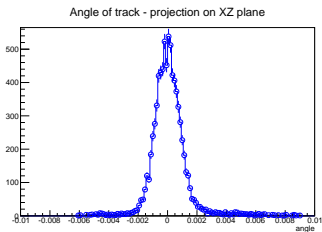
January 19, 2015

Residuals plot (run 48):



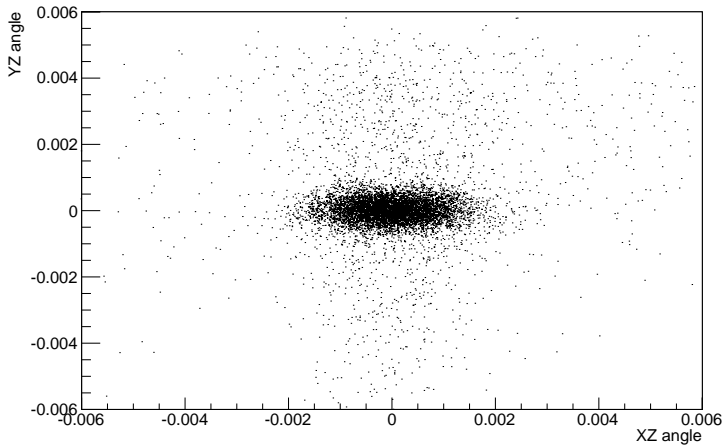
As we have seen before, there is an asymmetry between X and Y in the residuals plot.

Track angles (run 48):

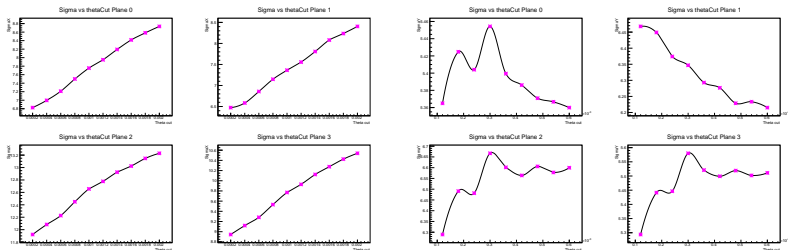


As one can observe, the distribution is wider in X than in Y...

Track angles - comparison:



The dependence of sigma of the residuals on track angle cut:



(a) X Axis - angular range 0.2 - 2mrad

(b) Y Axis - angular range 0.12 - 0.6mrad

Conclusions

- Difference between X and Y observed in residuals plots
- Track angle analysis reveals an asymmetry in track direction
- Cutting on track angles to select parallel beams does not decrease the variance in residuals
- Improvement in alignment is required