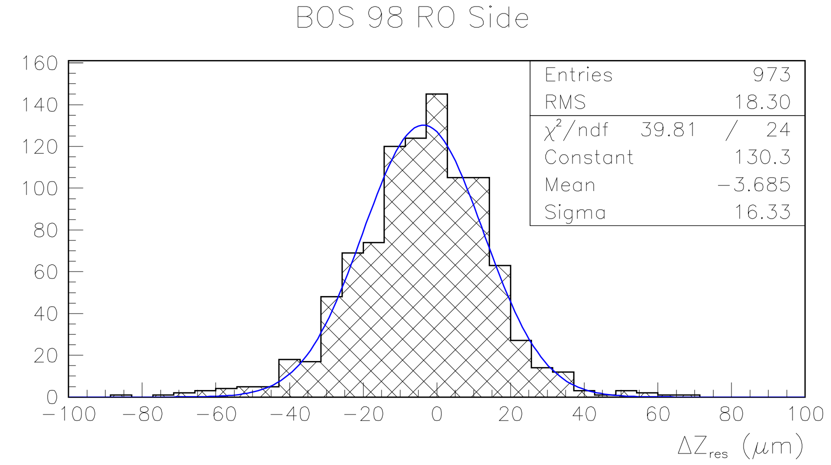
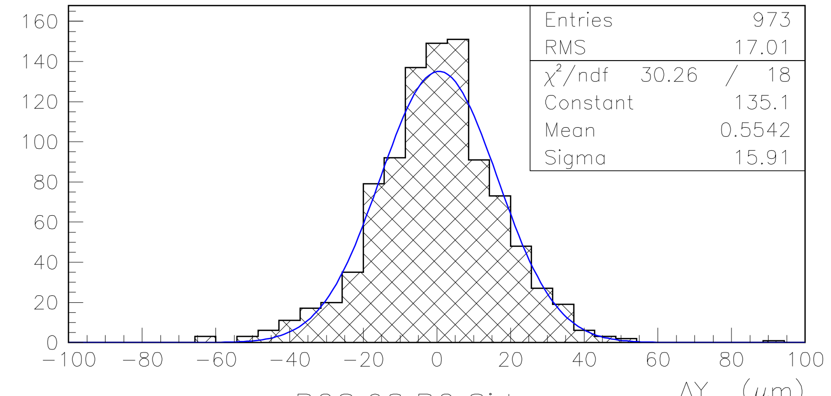
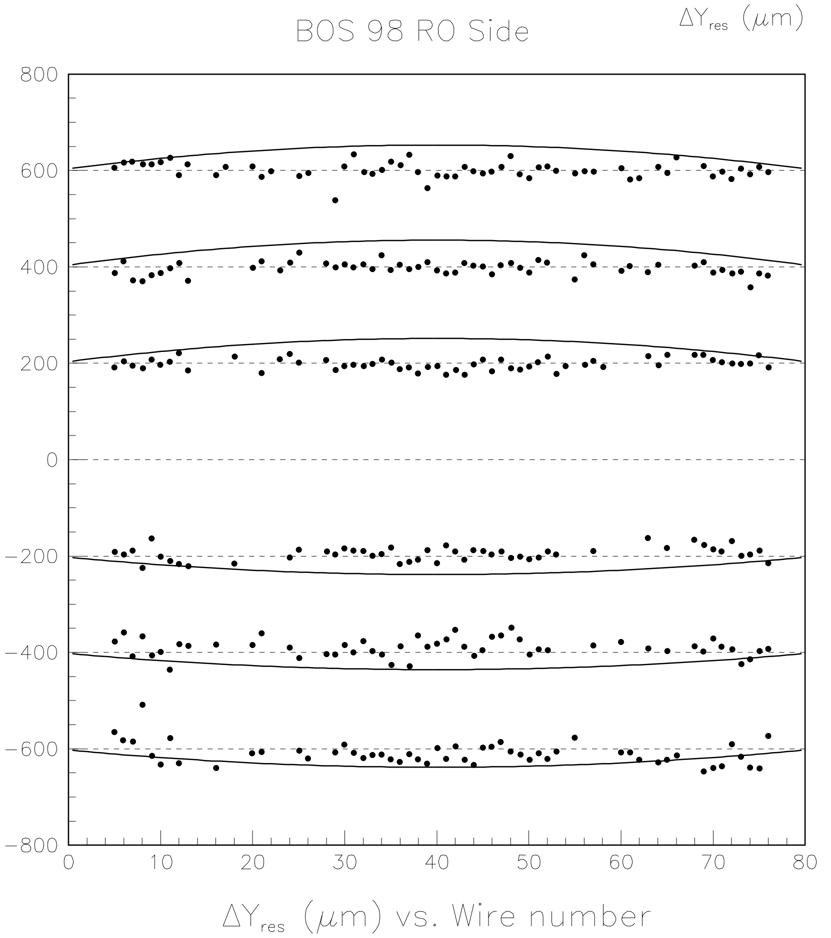
BOS 1998 Prototype Chamber

Residuals of wire grid fit to X-ray measurements:







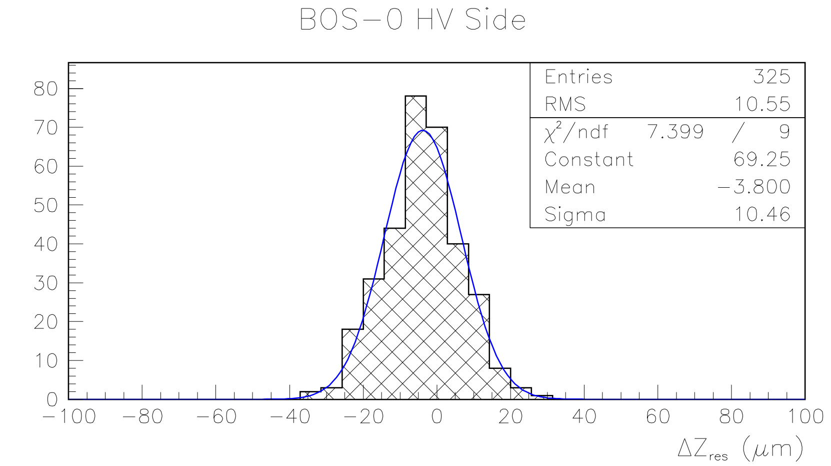
Chamber ends:

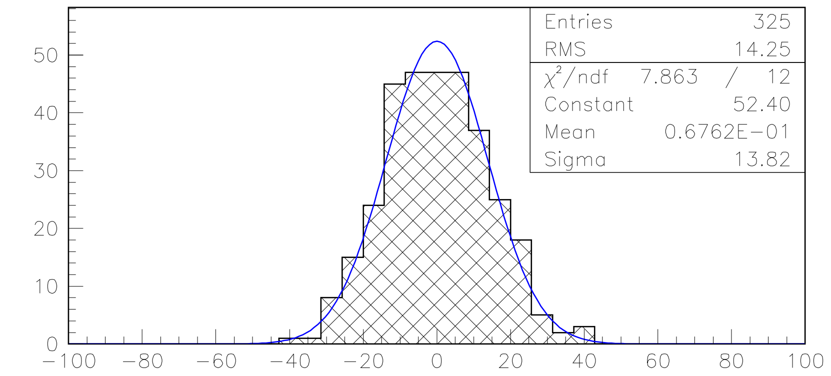
Wire pos. accuracy $< 18\ \mu$m (rms)

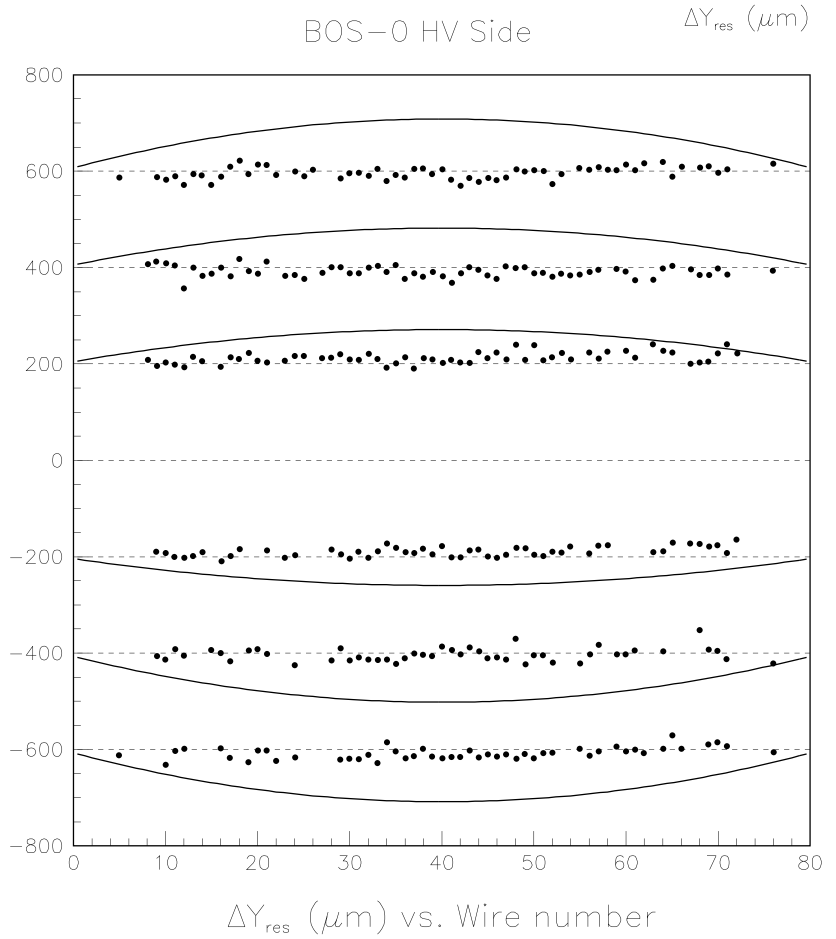
Aluminum tube walls (diameter $\pm 15\ \mu$m) used for drift tube positioning during assembly (TDR method)

BOS 2000 MDT Chamber

Residuals of wire grid fit to X-ray measurements:







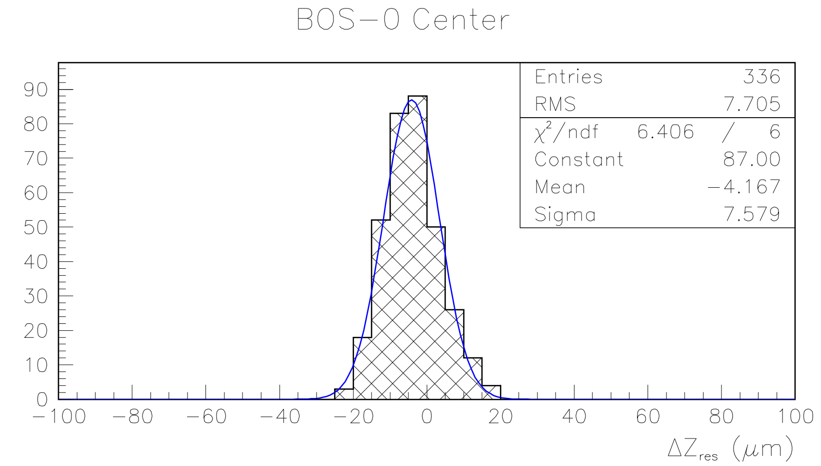
Chamber ends:

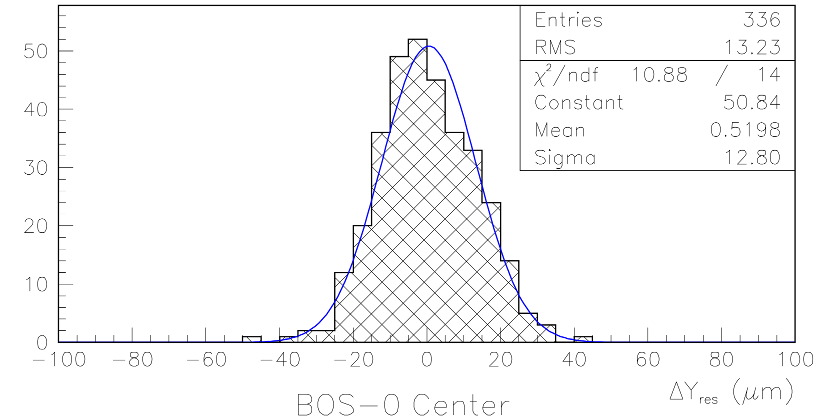
Wire pos. accuracy $< 14\ \mu$m (rms)

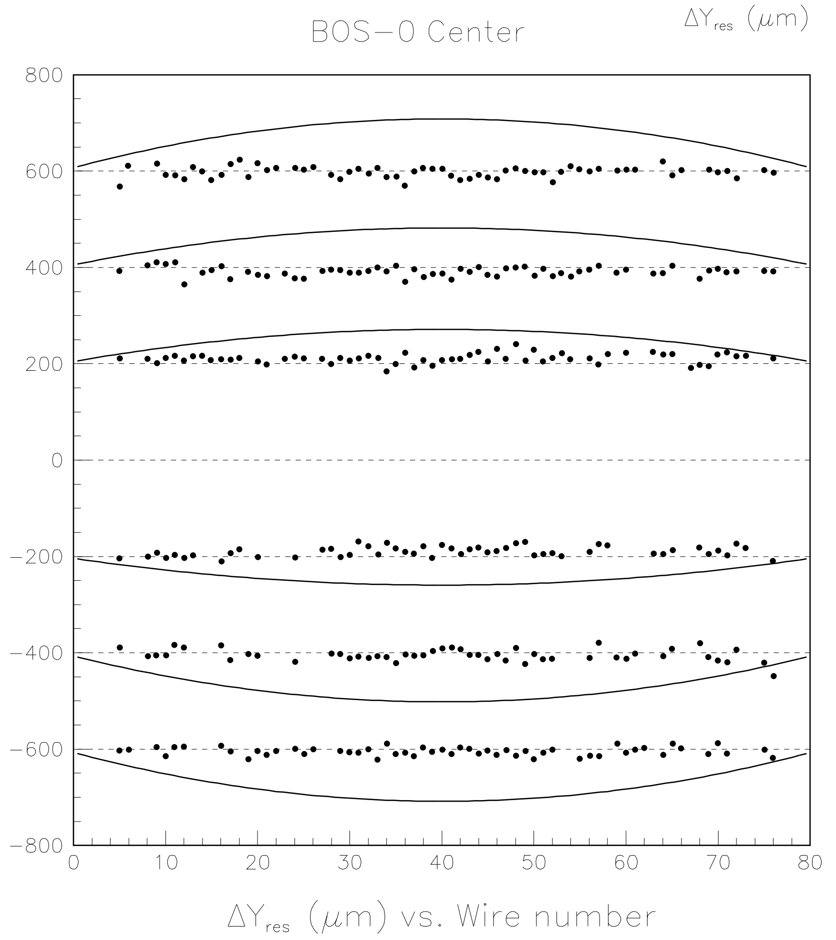
Precise endplugs used for drift tube positioning during assembly.

BOS 2000 MDT Chamber

Residuals of wire grid fit to X-ray measurements:







Center of chamber:

Wire pos. accuracy $< 10\ \mu$m (rms)

Variations in wire sag negligible, only $4\ \mu$m (rms).