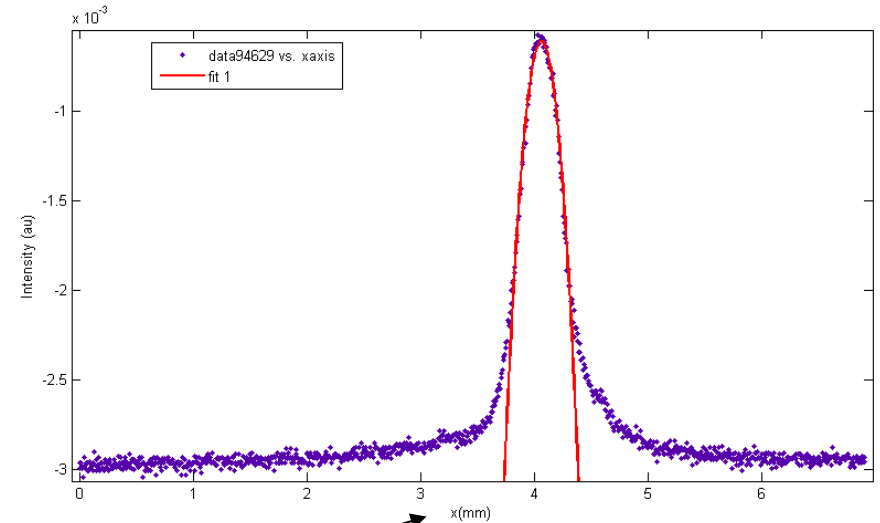
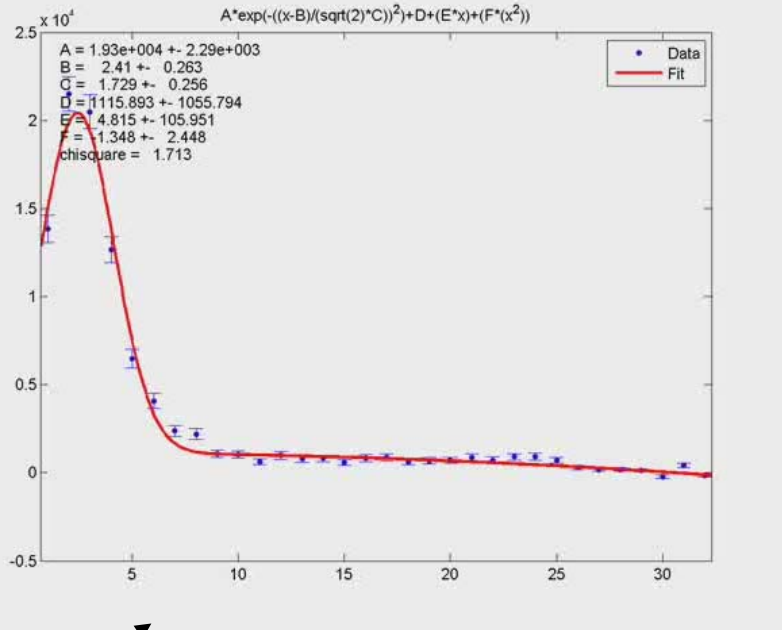


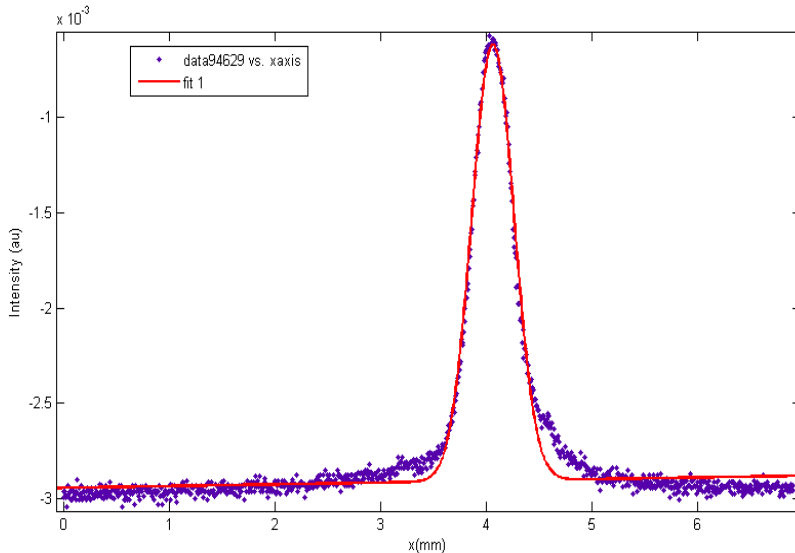
e+ PMT calibration

e+ displaced vertically on the PMT using a vertical bump centered at 23W. Bump was varied from 700 to 100cu in 50 cu steps.

At each bump setting a correlation of the position of the image on the PMT and CCD was made.



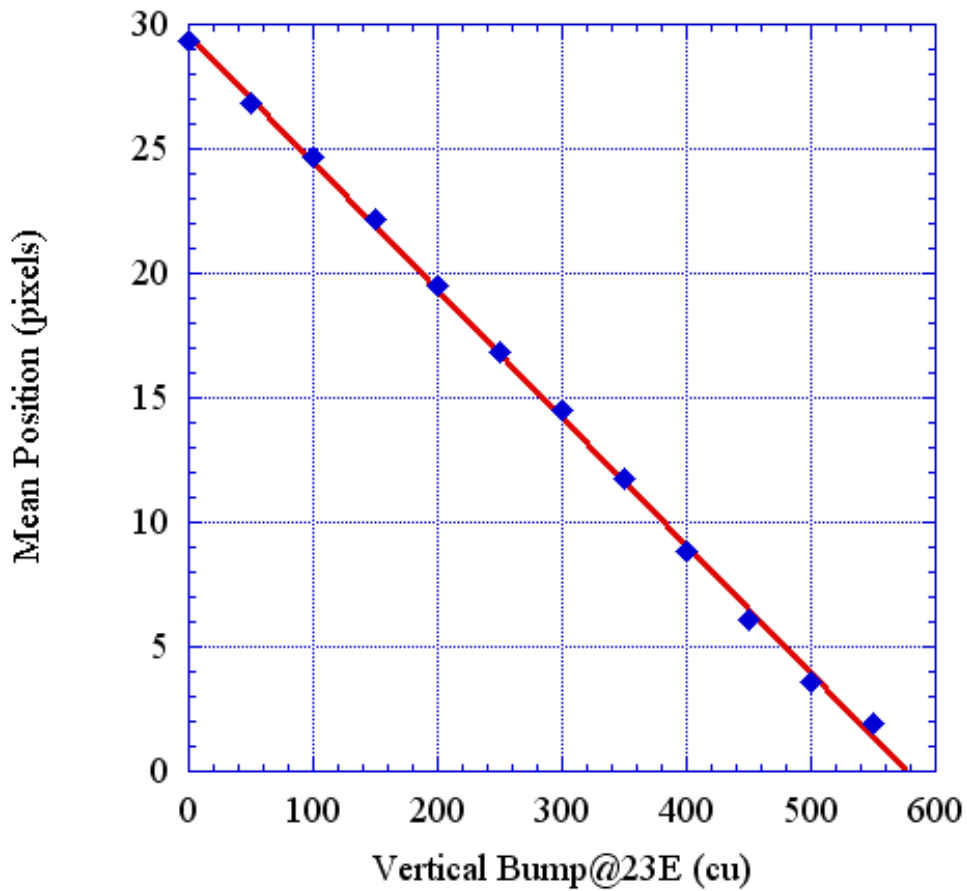
CCD Quadratic fits



CCD Camera Image fit to either a quadratic or Gaussian distribution to determine the mean position of the bump.

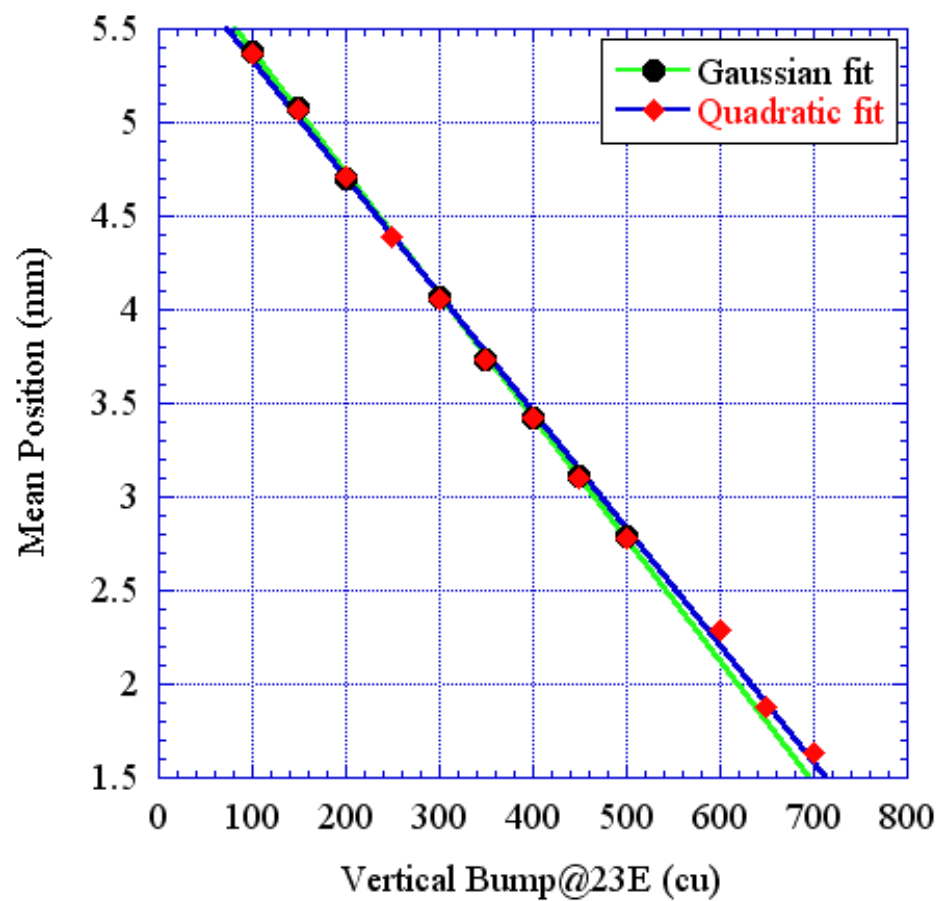
CCD Gaussian fit

e+ PMT Calibration 12/19/2007

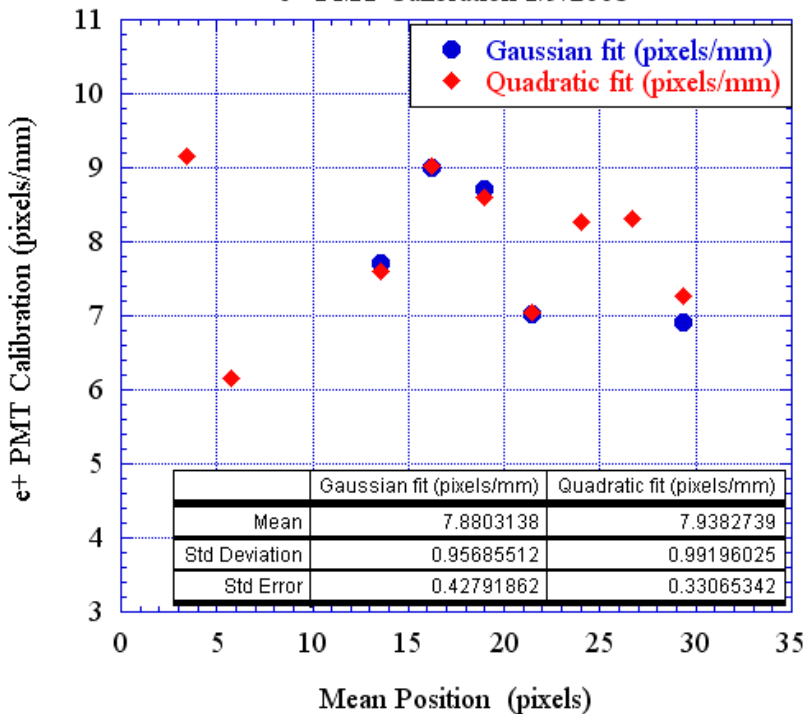


PMT and CCD position change for 23w vertical bump amplitude.

e+ CCD Calibration 1/9/2008



e+ PMT Calibration 1/9/2008



e+ PMT calibration

- Past calibration was 10.4 pixels/mm.
- New calibration for e+ PMT is 7.9+/-0.4 pixels/mm.
- Average $\sigma_v = 200 \pm 7 \mu\text{m}$ from e+ PMT (with σ_v resolution = 140 μm correction).
- Interferometer gives $\sigma_v = 200 \mu\text{m}$ according to D. Hartill.

$$\sigma_v (\text{mm}) = M0 + M1 * \text{Pixel} + M2 * \text{Pixel}^2$$

M0	0.10398
M1	0.012766
M2	-0.00033991
R	0.93124

e+ PMT Vertical Beam Size 1/9/2008

