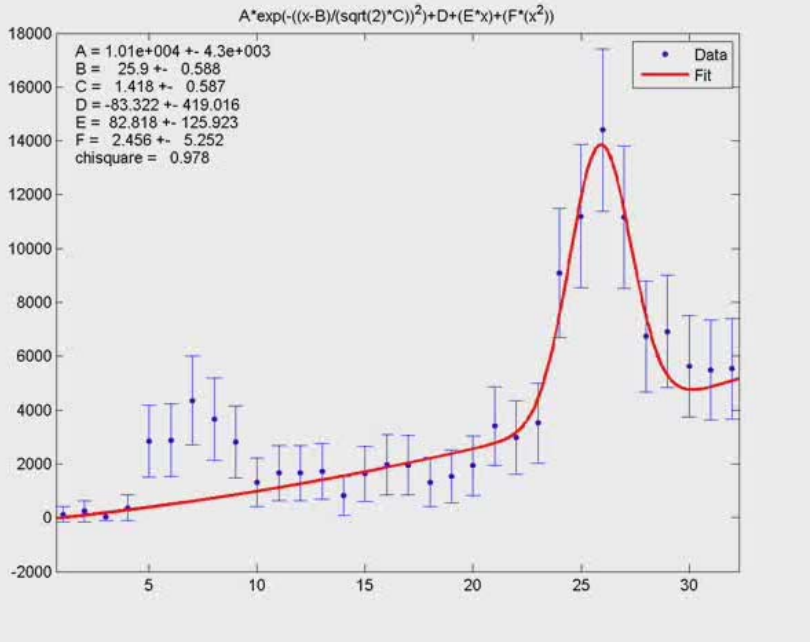


e- PMT calibration

e- displaced vertically on the PMT using a vertical bump centered at 23W. Bump was varied from -50 to +600 cu in 50 cu steps.

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



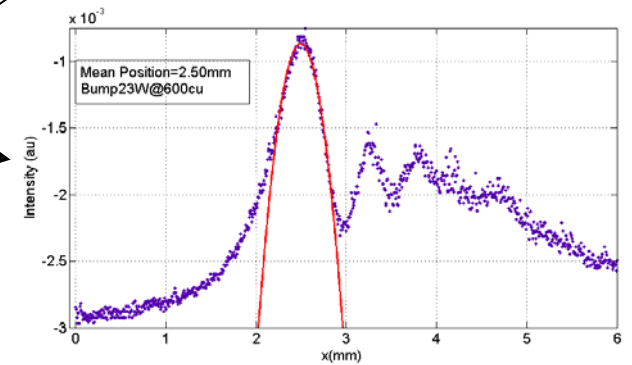
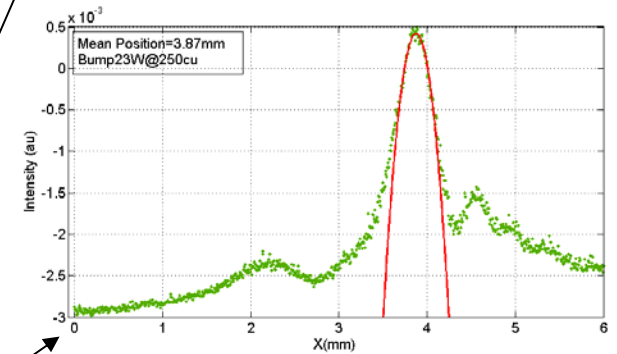
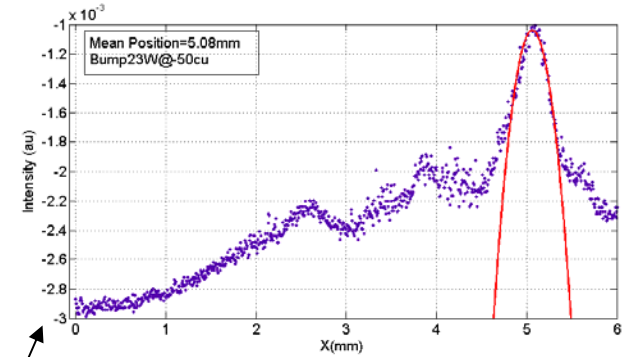
Movie of PMT image at each bump setting from -50 to 600cu. Note: A reflection is observed at the lower bump settings.

CCD Camera Image fit to a quadratic to determine position.

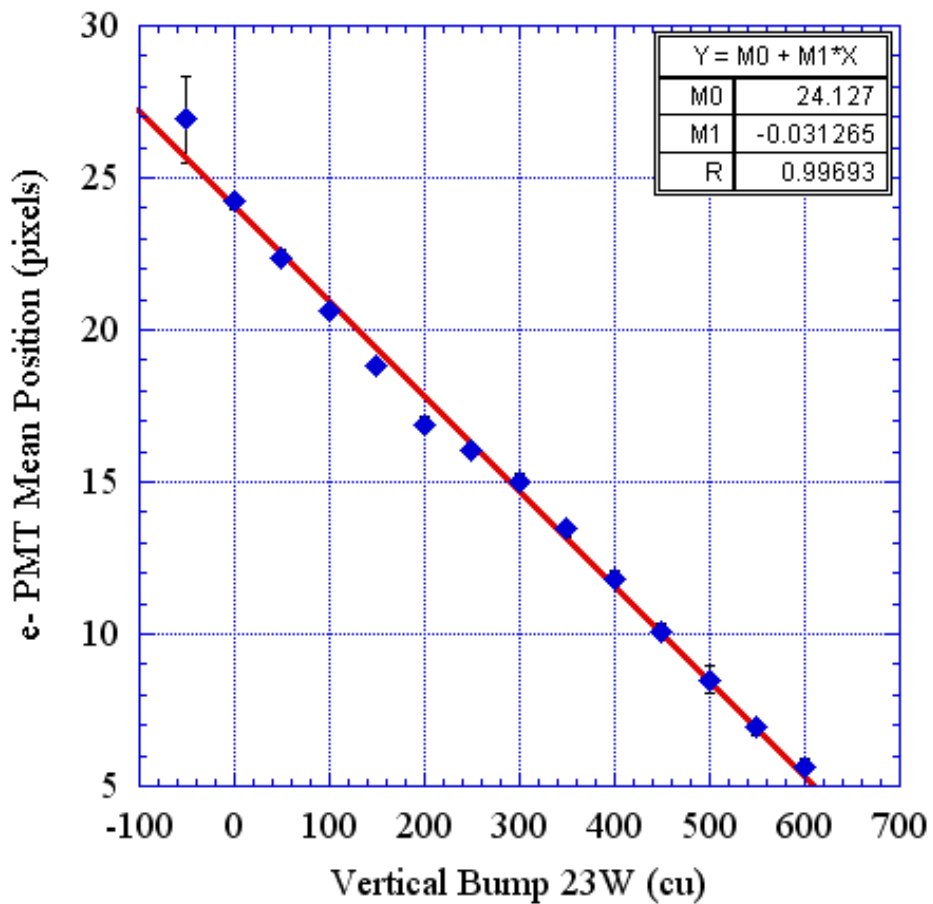
B23W@-50cu

B23W@250cu

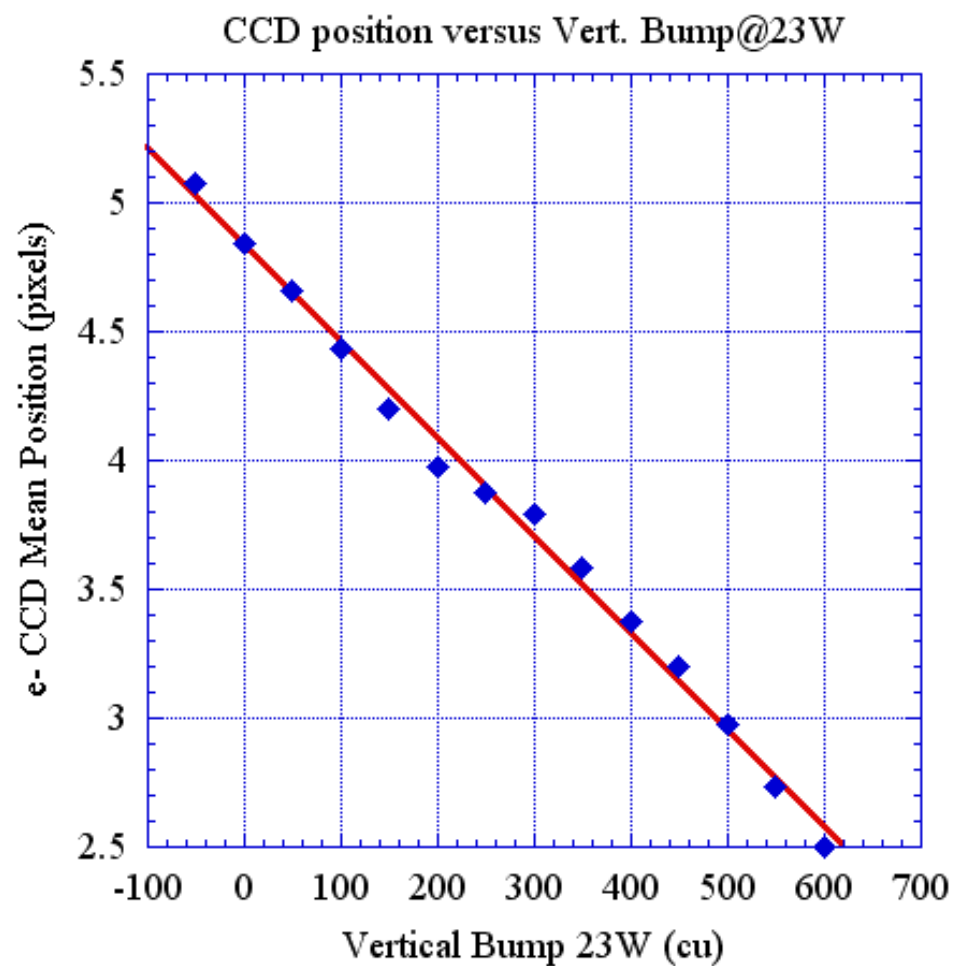
B23W@600cu



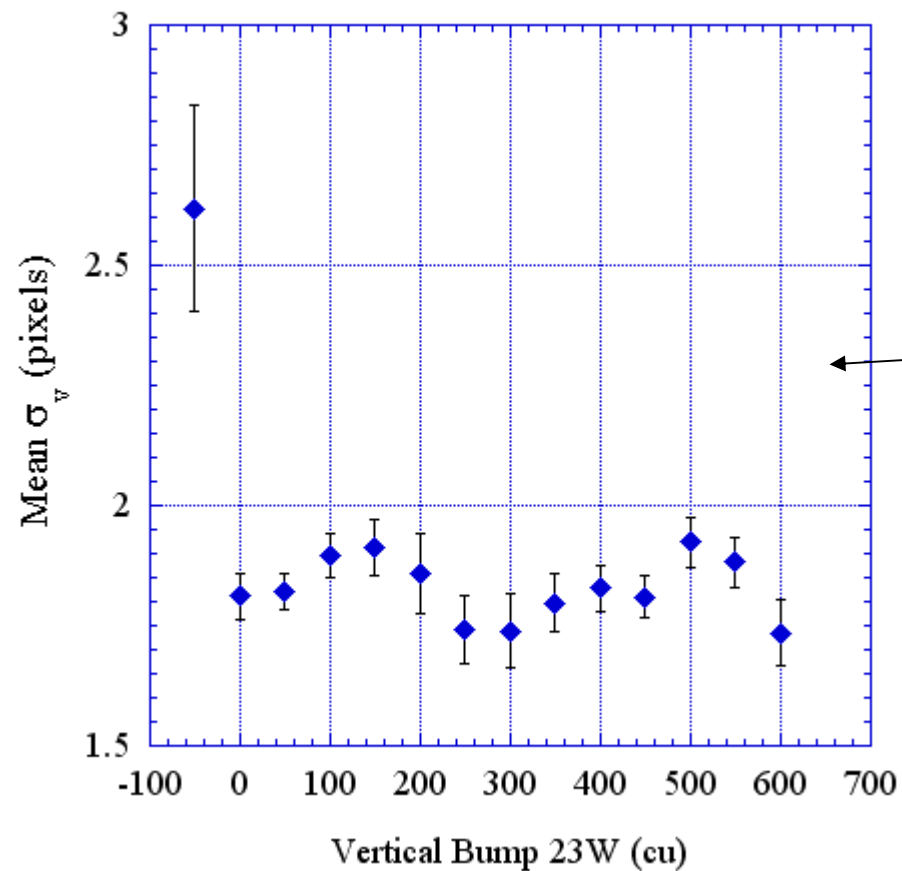
e- PMT Calibration 12/19/2007



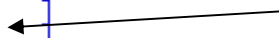
PMT and CCD position change for 23w vertical bump amplitude.



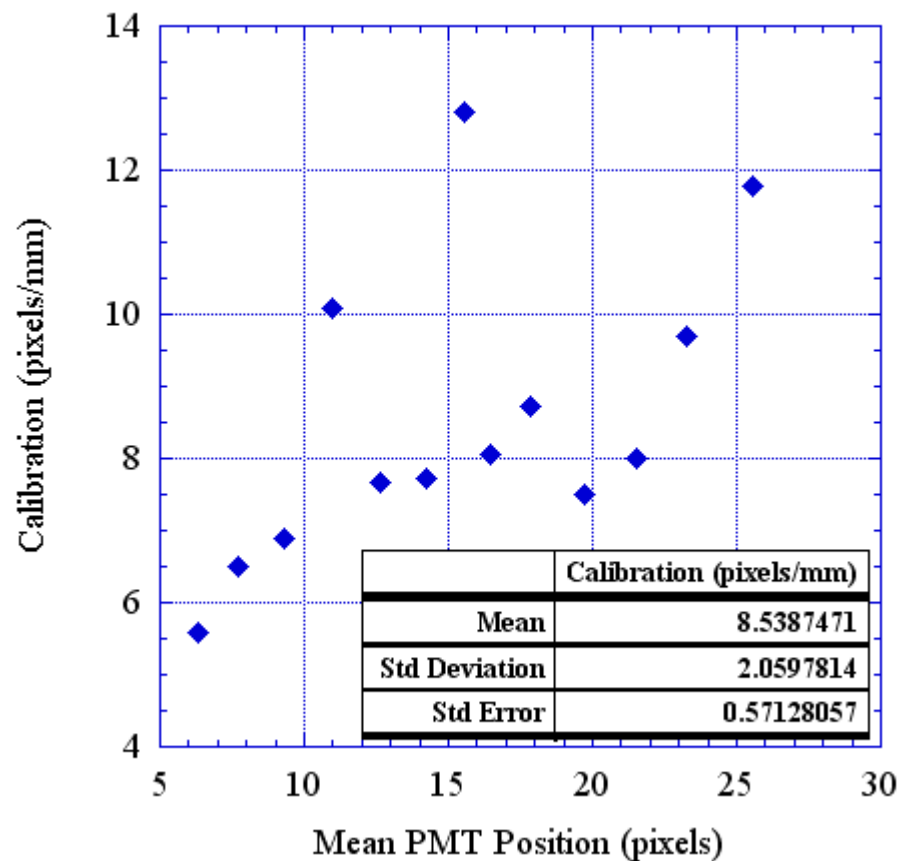
e- PMT calibration 12/19/2007



e- σ_v correlation with 23W vertical bump amplitude. Large fluctuation in σ_v for negative bump.



e- PMT Calibration 12/19/2007



e- PMT calibration

- Past calibration was 8.6 pixels/mm.
- Calibration is 8.5+/-0.6 pixels/mm.