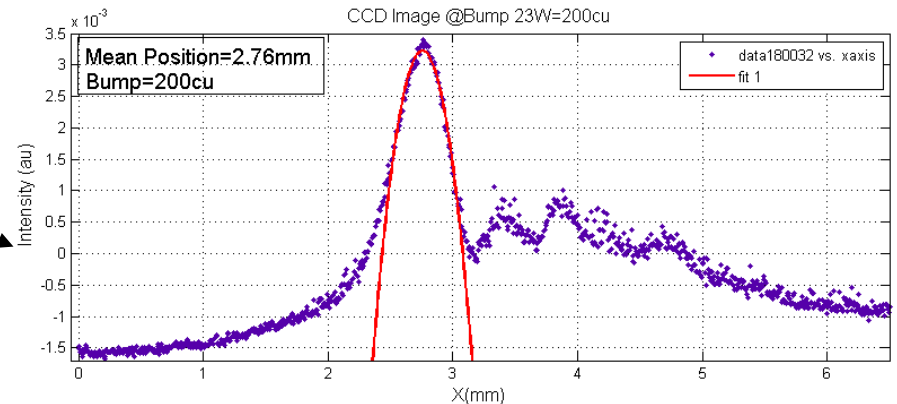
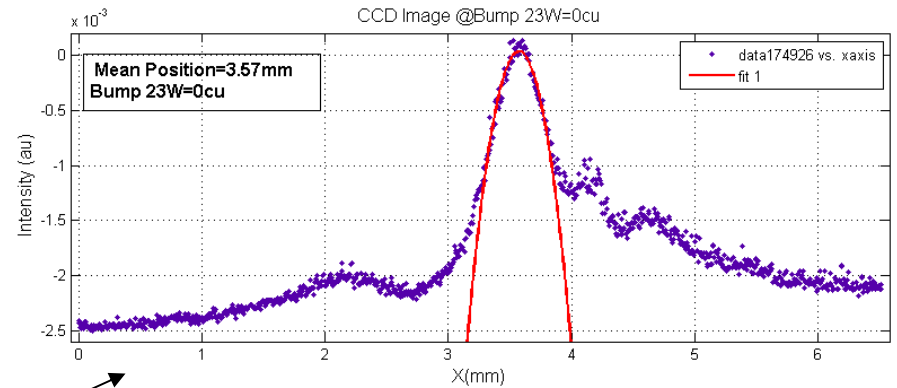
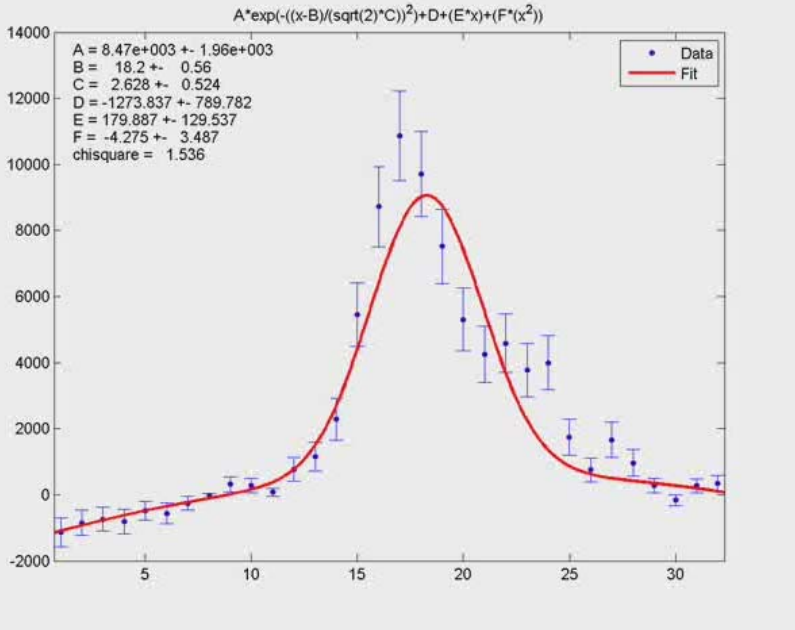


e- PMT calibration

e- displaced vertically on the PMT using a vertical bump centered at 23W. Bump was varied from -250 to +250 cu in 50 cu steps.

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



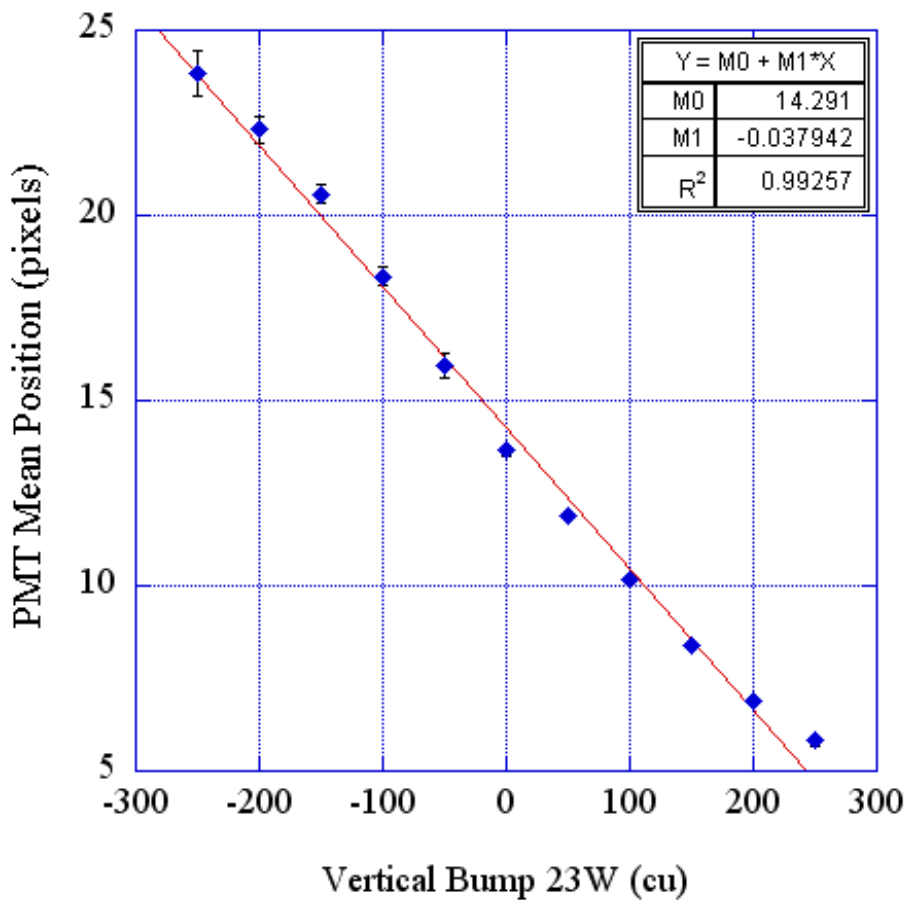
CCD Camera Image fit to a quadratic to determine position.

B23W@0cu

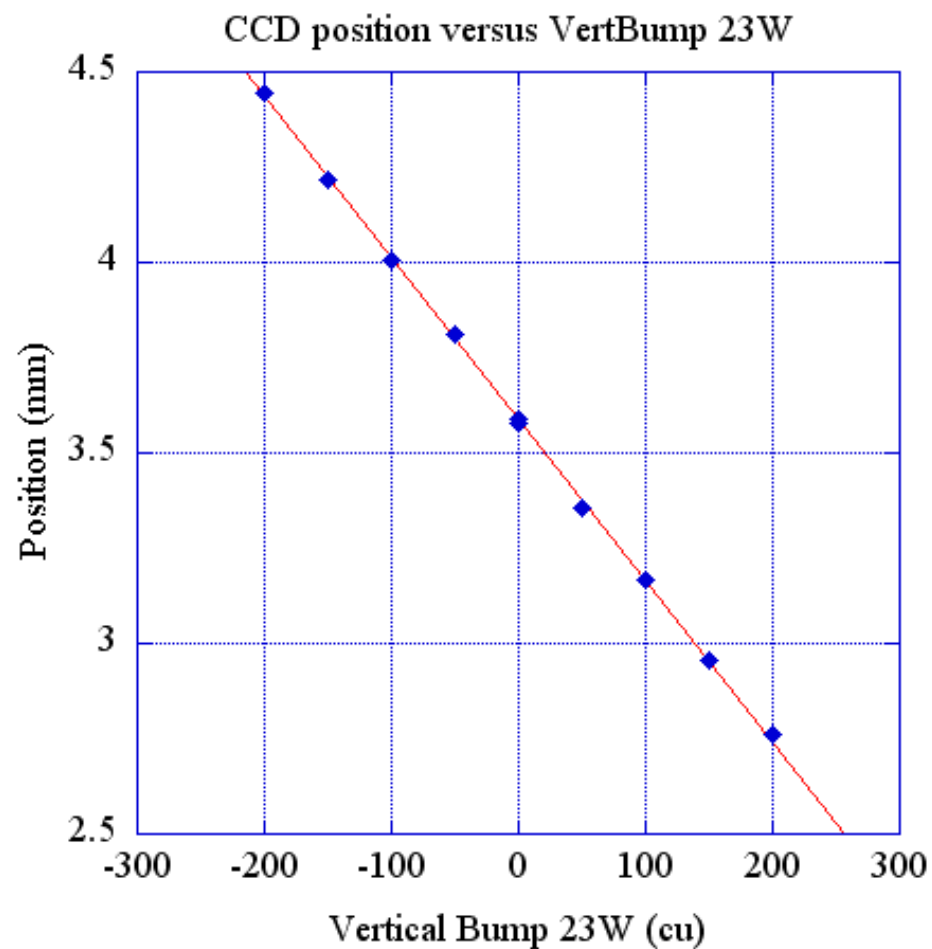
B23W@200cu

Movie of PMT image at 5 different bump setting (-100, 0, 100, 200, 250 cu). Note: Noisy distribution when mean > pixel 14 which corresponds to bump settings < 0 cu.

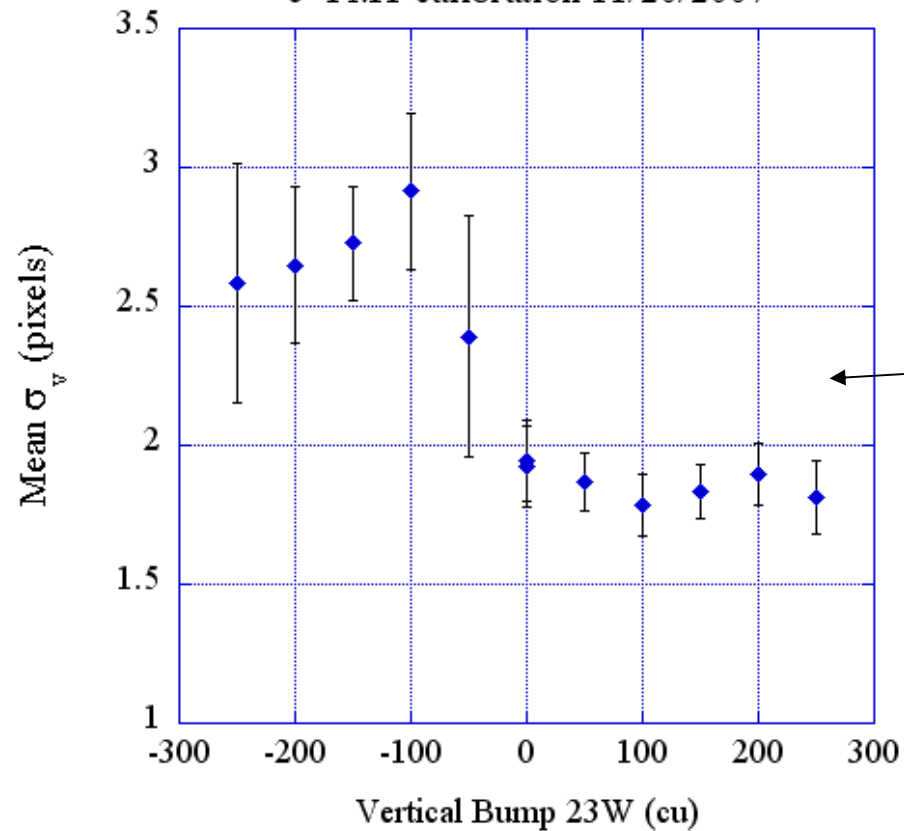
e- PMT calibration 11/20/2007



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

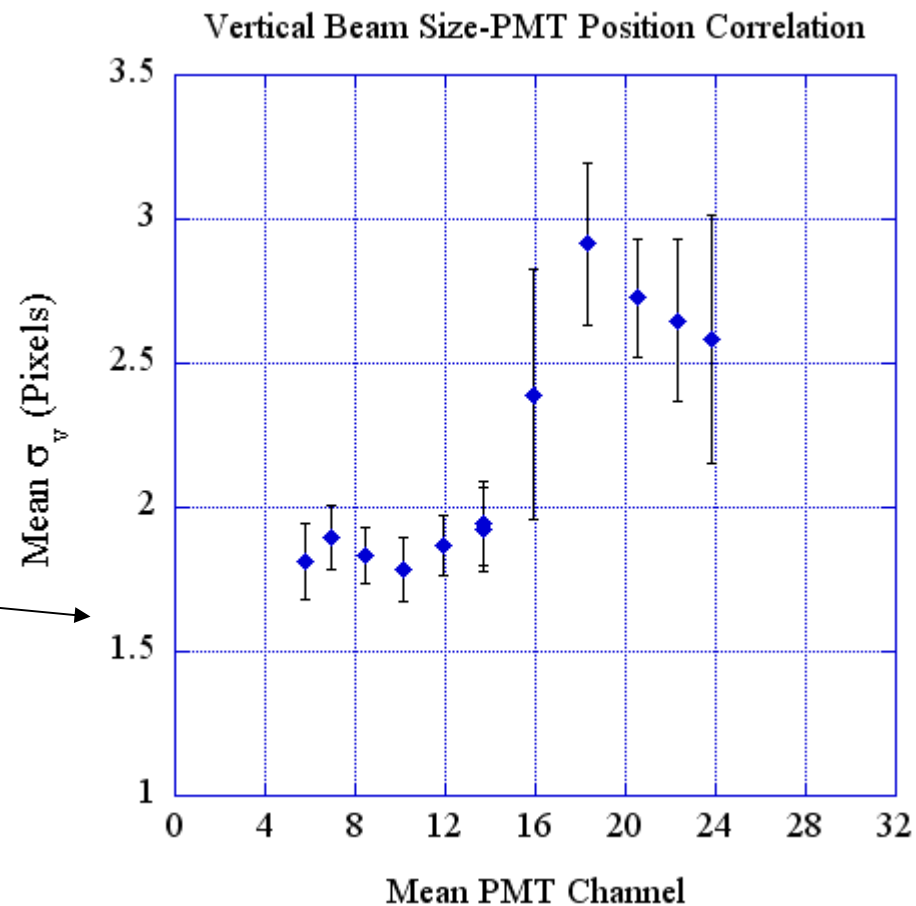


e- PMT calibration 11/20/2007



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

e- σ_v correlation mean position on PMT. Large fluctuation in σ_v correlates noisy bunch distribution (see movie).



e- PMT Calibration

e- PMT calibration

- Large fluctuation above pixel 14.
- Past calibration was 8.6 pixels/mm.
- Calibration is 8.3 ± 0.3 pixels/mm for four data points below pixel 14.

