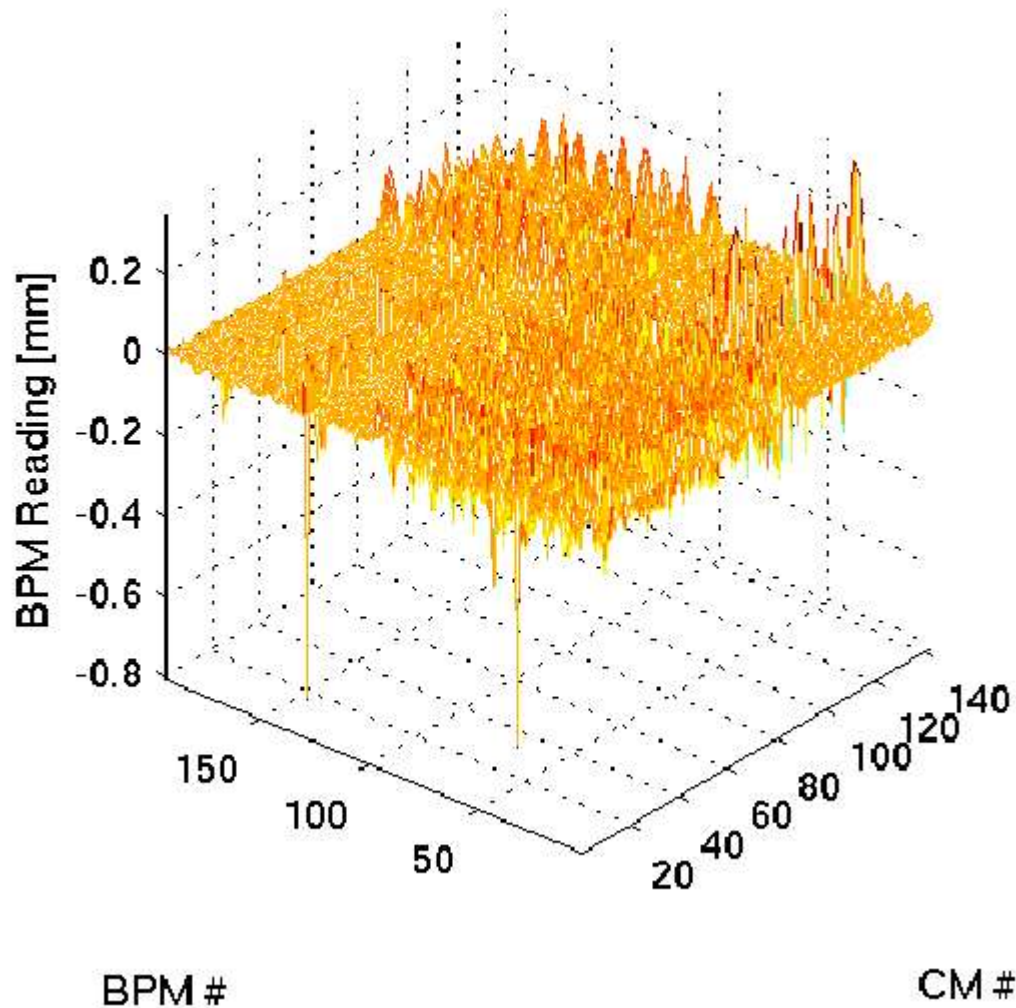


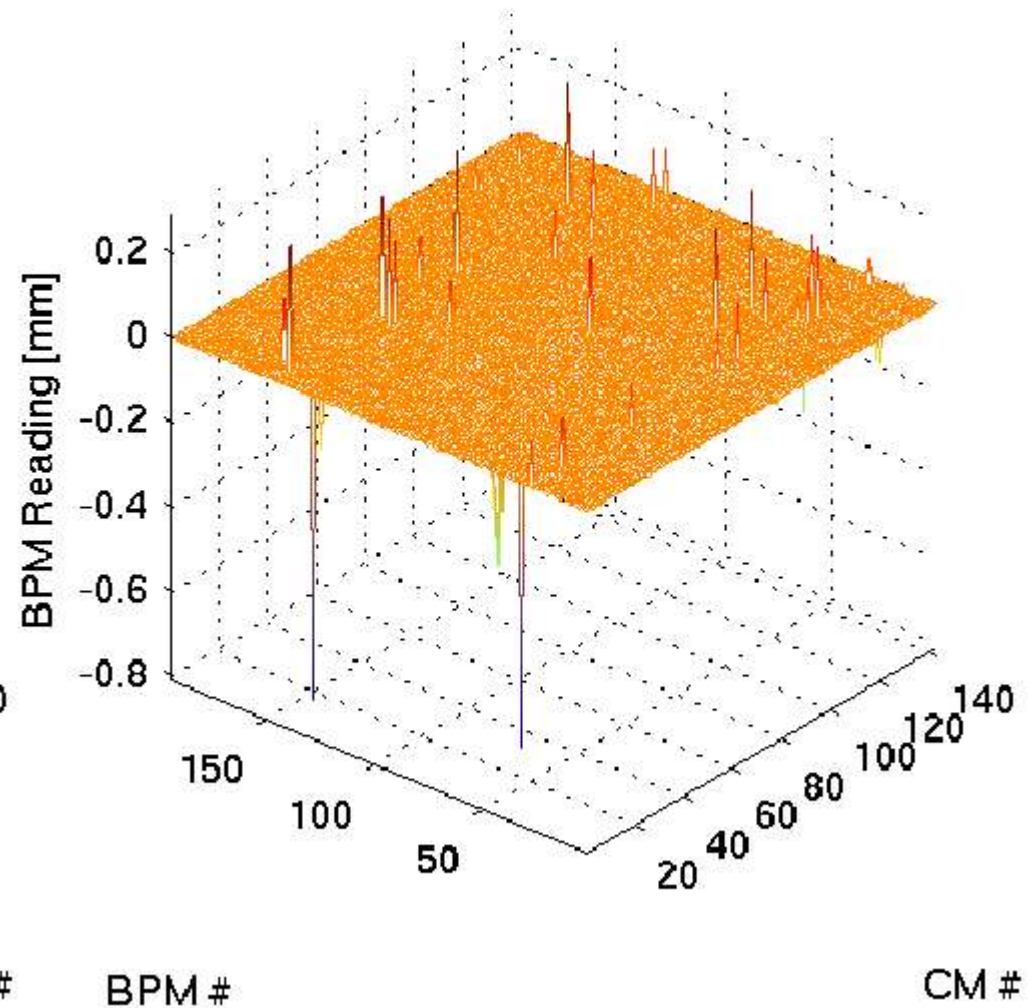
MATLAB-based AT with LOCO

- Using the data from 06/22/2005, LOCO optimizations were run
 - Dispersion and phase measurements included in the fit
 - 15 iterations run – fit converged after 5-6 iterations
 - ”BPM reading” fit within $< 10\mu\text{m}$ of measured values
- Results are very similar to Ji Li's from 2005

Residual Response Matrix: Unfitted Model

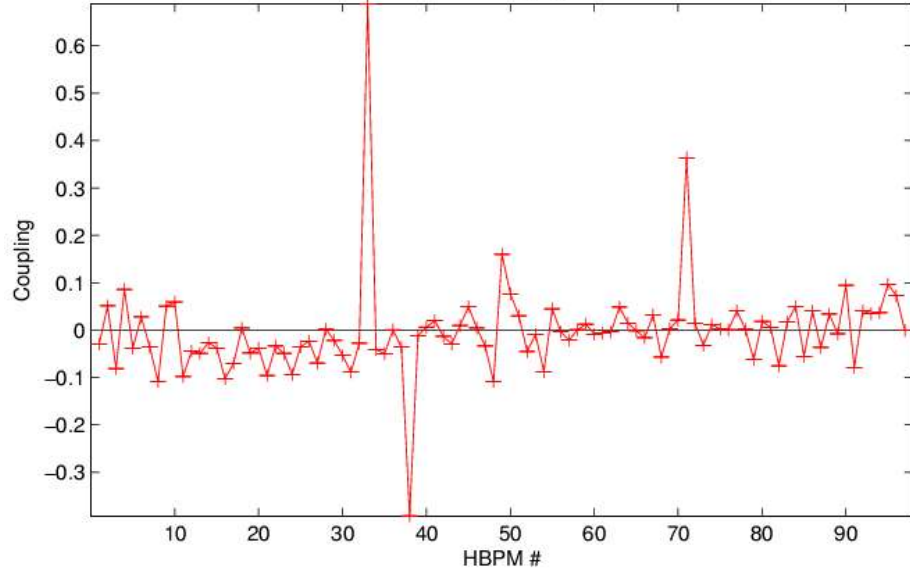


Residual Response Matrix: Fitted Model

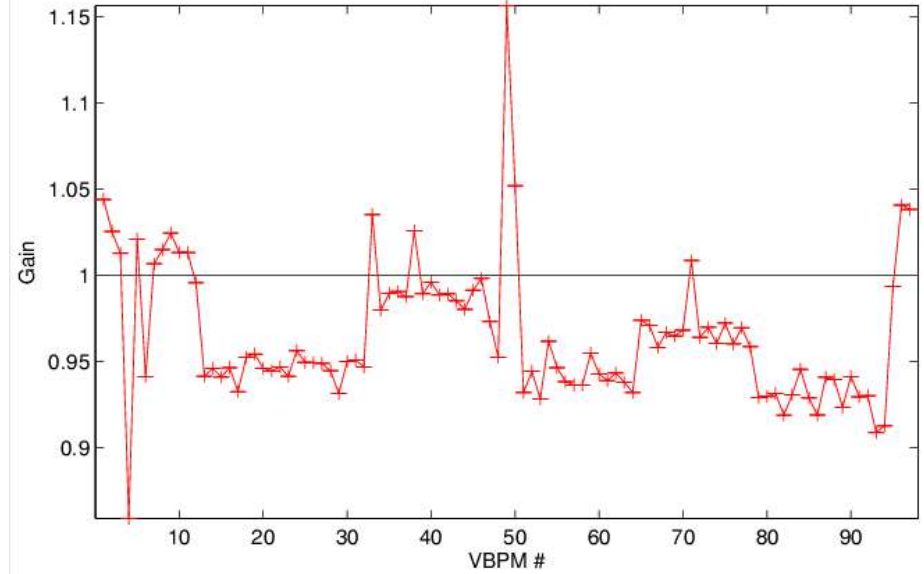
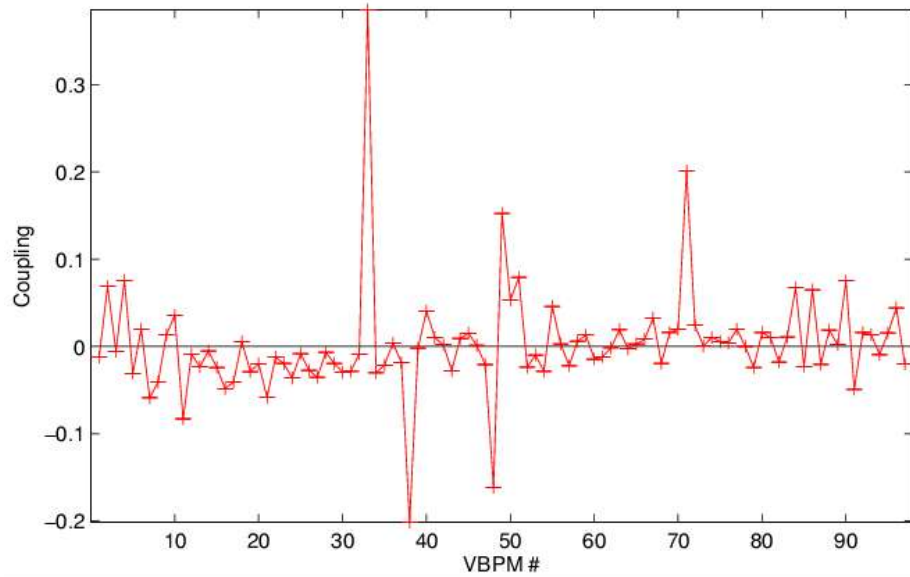
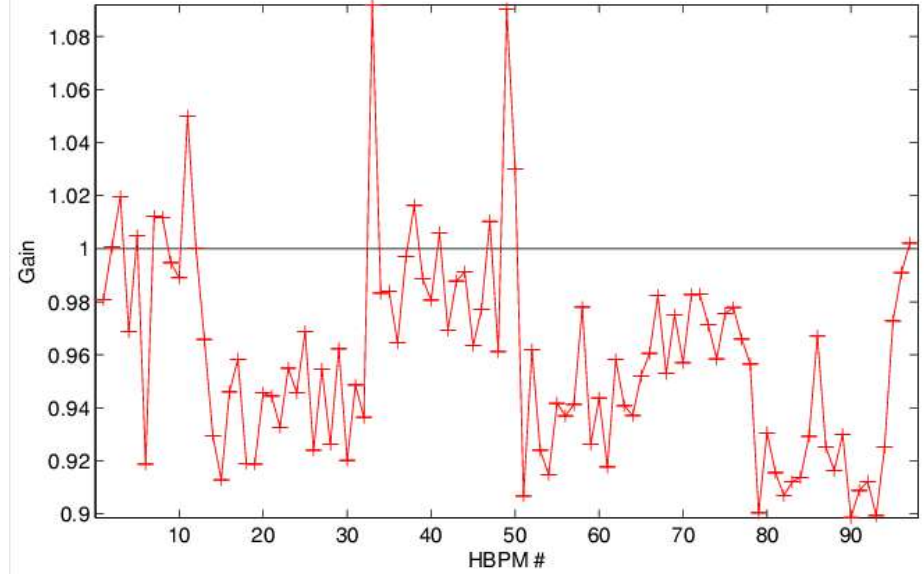


LOCO – BPM Coupling and Gains

BPM Coupling



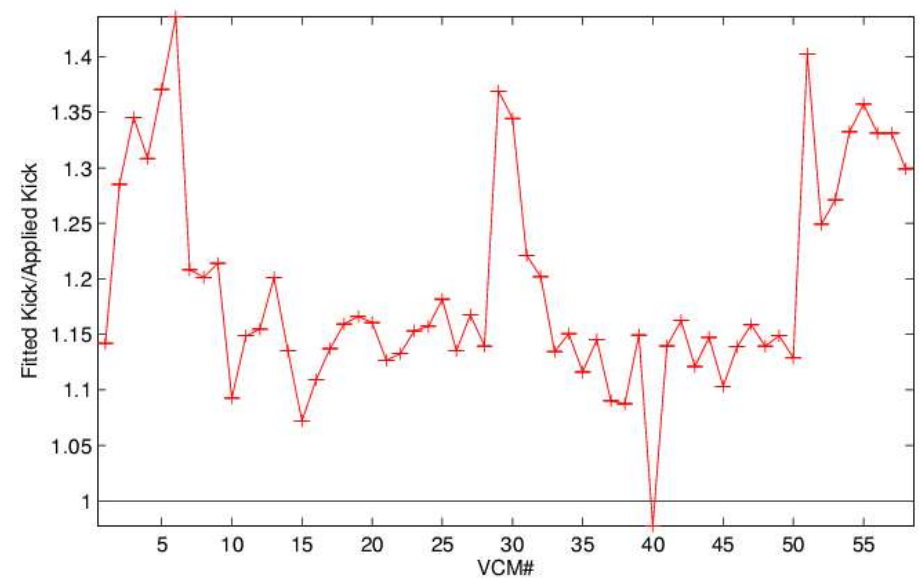
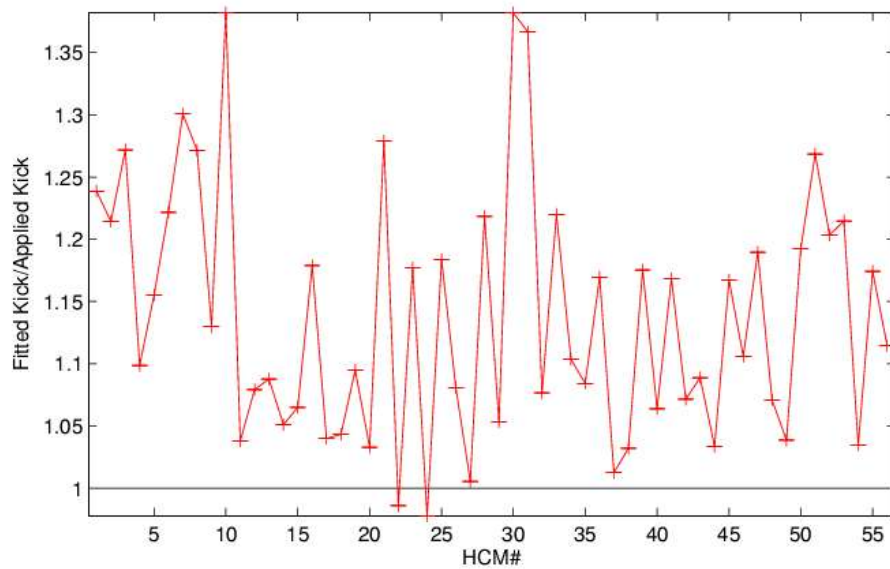
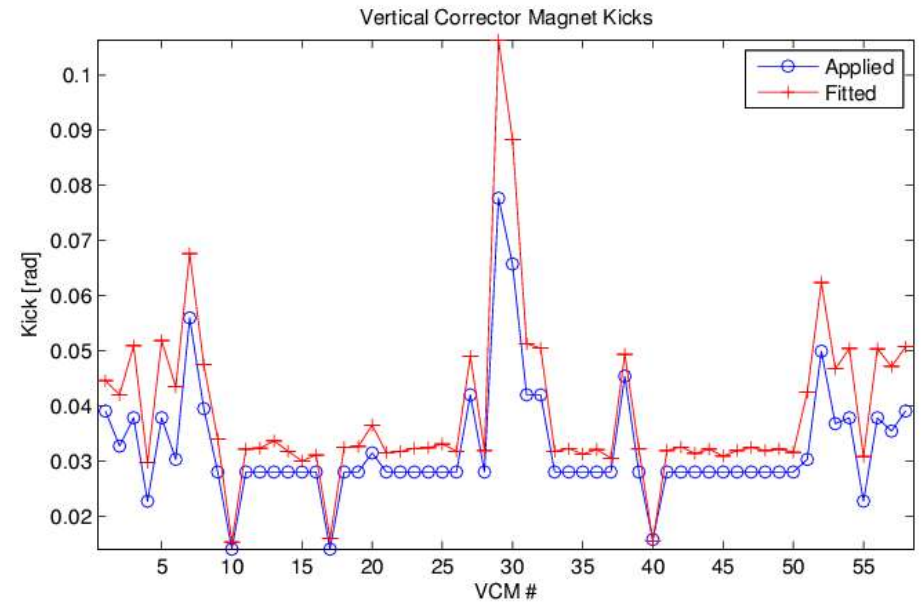
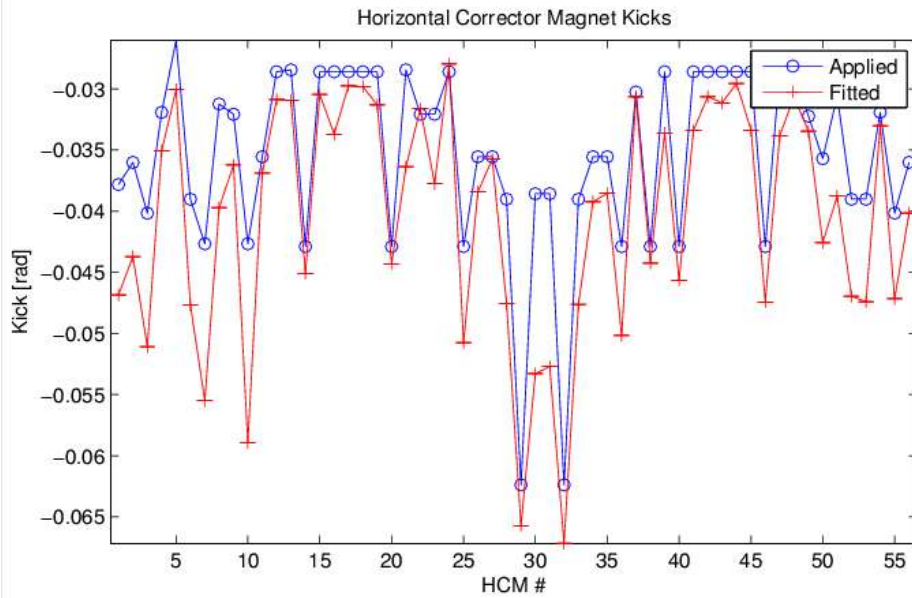
BPM Gains



LOCO – Corrector Kicks

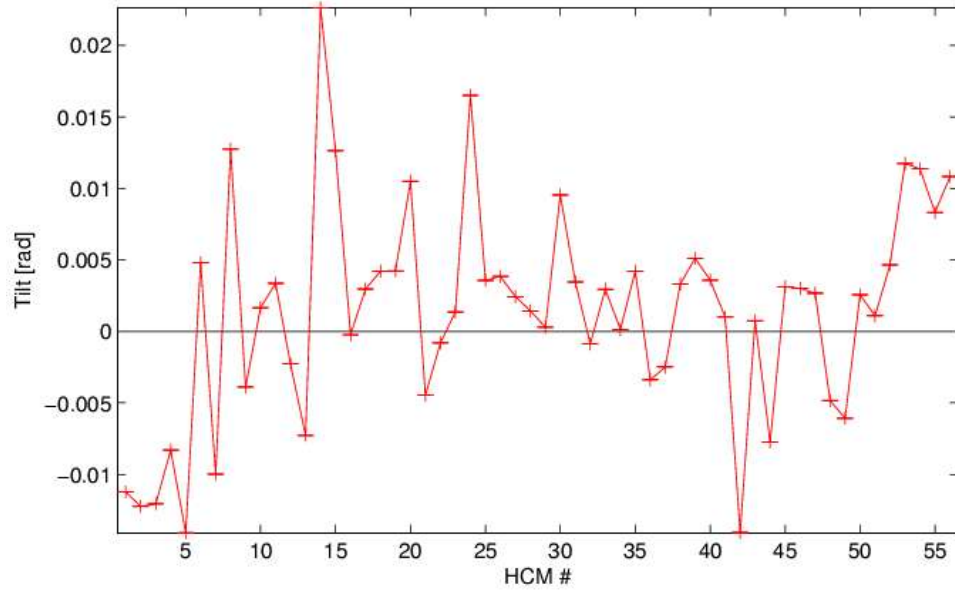
-Fitted corrector magnet kicks consistently larger than applied kicks

-Also noted this in Ji Li's results

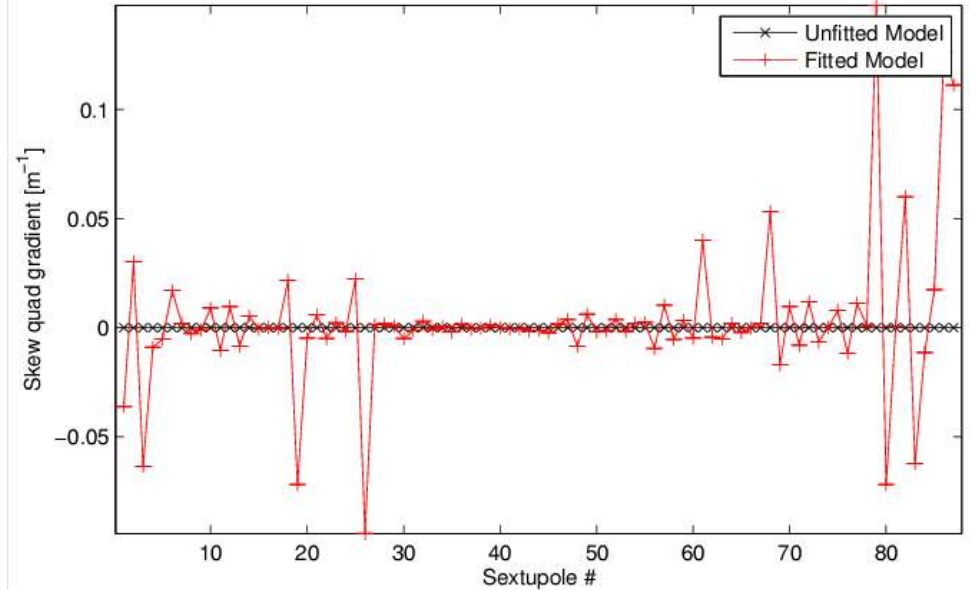
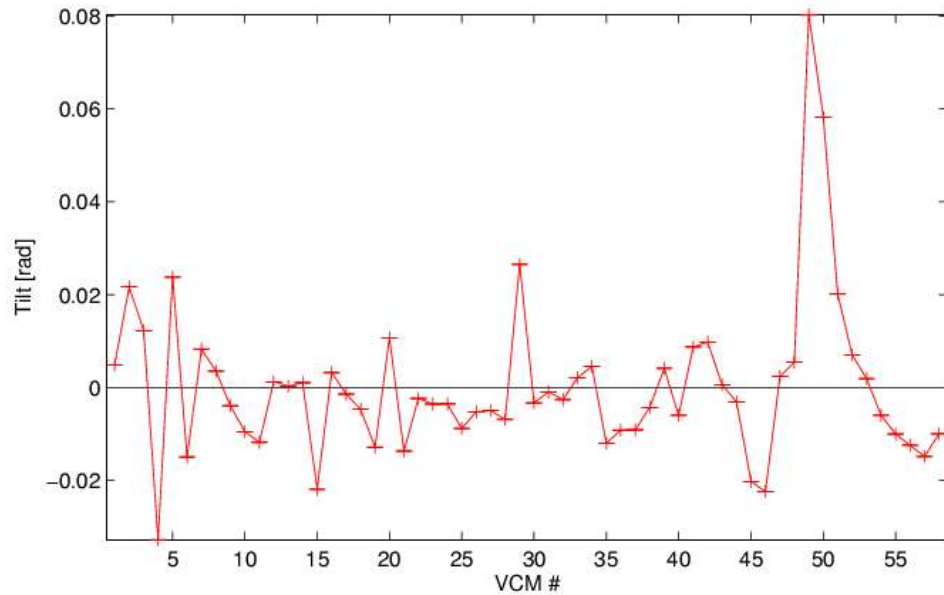
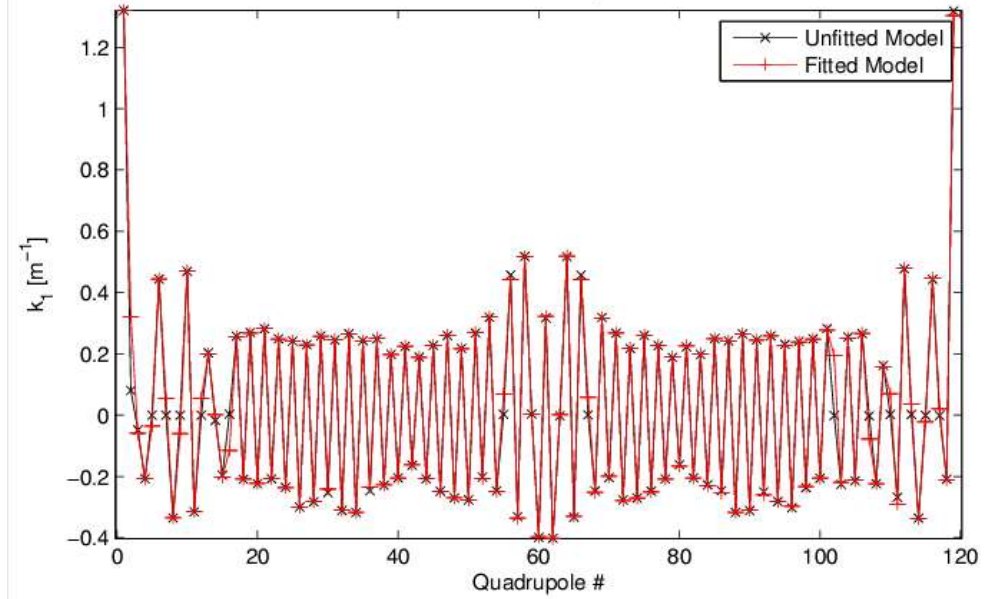


LOCO – Corrector Tilts, Quad Gradients

Corrector Magnet Tilts

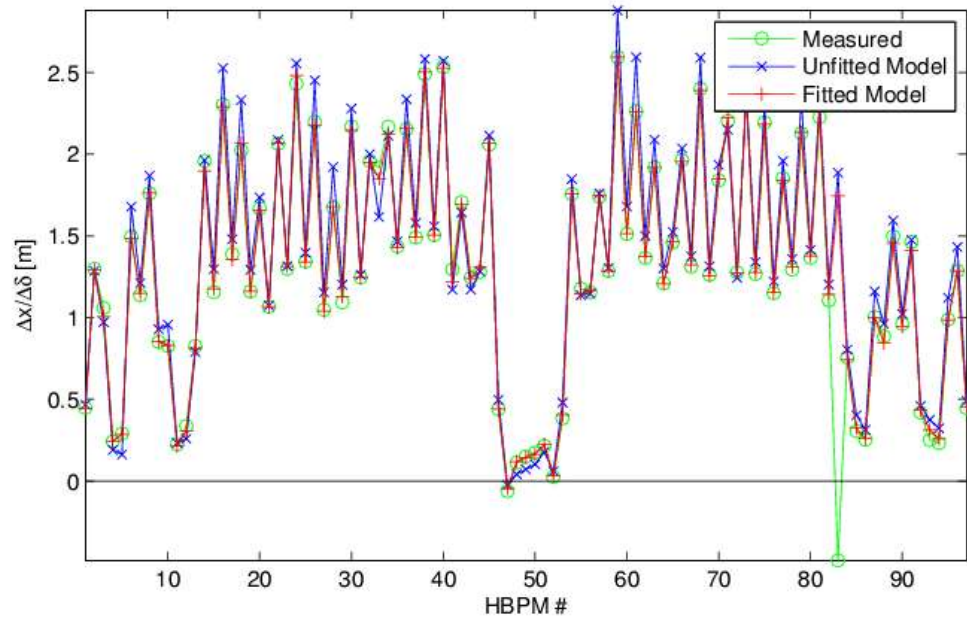


Normal and Skew Quadrupole Gradients



LOCO – Dispersion Fit

Measured and Fitted Dispersion



Residual of Dispersion Fit

