OSC Update

- Although 3rd harmonic is significant off-axis at different azimuthal angles cancel (factor of 20 or more) – different phases at lens, it is greatly suppressed when focused
- Working with Vardan on proper propagation of broader peaks – things appear to work so far..

Compare Different Harmonics Assume Ideal Frequency) (Use 1 Period,

30.0411	22.8521	3 rd harmonic (1 radian of azimuthal angles)
3.41202	3.33656	3 rd harmonic
59.0439	57.6456	1 st harmonic
Y-field (V/m)	X-field (V/m)	

Integrate over Actual Frequencies) Compare Different Harmonics (Use 6 Periods,

28.6574	25.4784	3 rd harmonic (1 radian of azimuthal angles)
0.935592	0.556236	3 rd harmonic
60.5498	60.8749	1 st harmonic
Y-field (V/m)	X-field (V/m)	

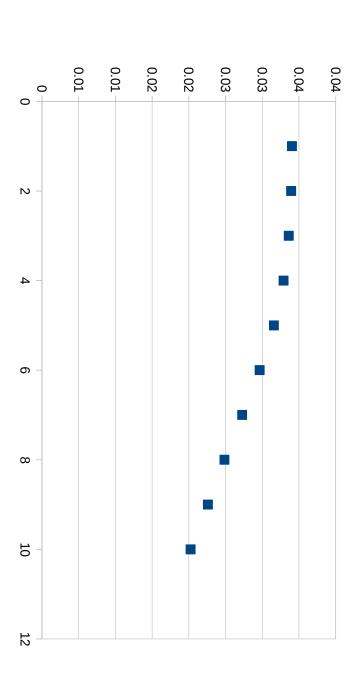
Sloppy Models Update

Found a synchrotron lattice

Beginning work on creating Hessian for orbit

Backup Slides

Estimated Energy Transfer/Pd (eV) (Assume Ideal Frequency) vs Number of Periods



(Integrate over Actual Frequencies) Estimated Energy Transfer/Pd (eV) vs Number of Periods

