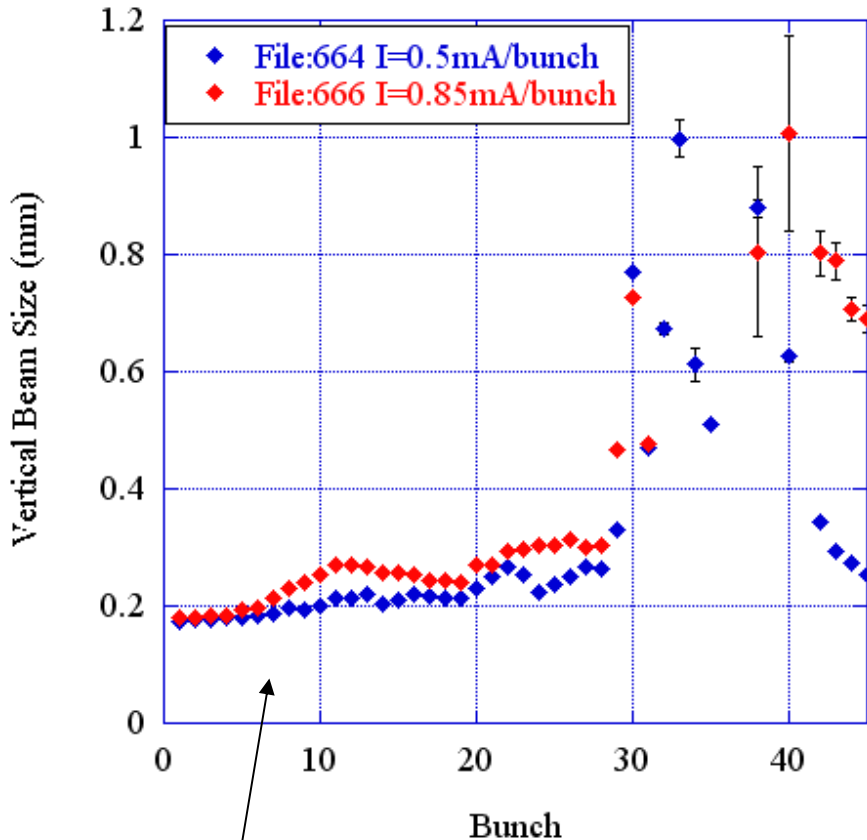


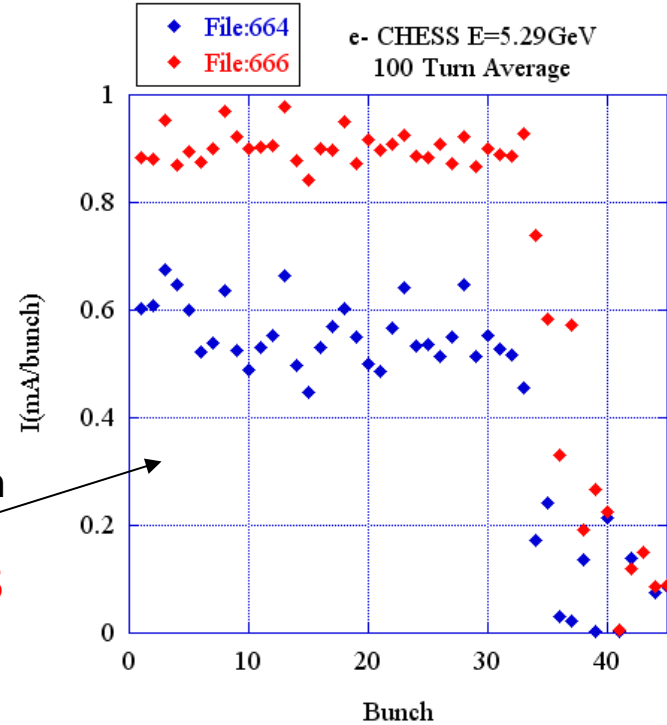
e- CHESS E=5.29GeV

Vertical Beam Size 100 Turn Average

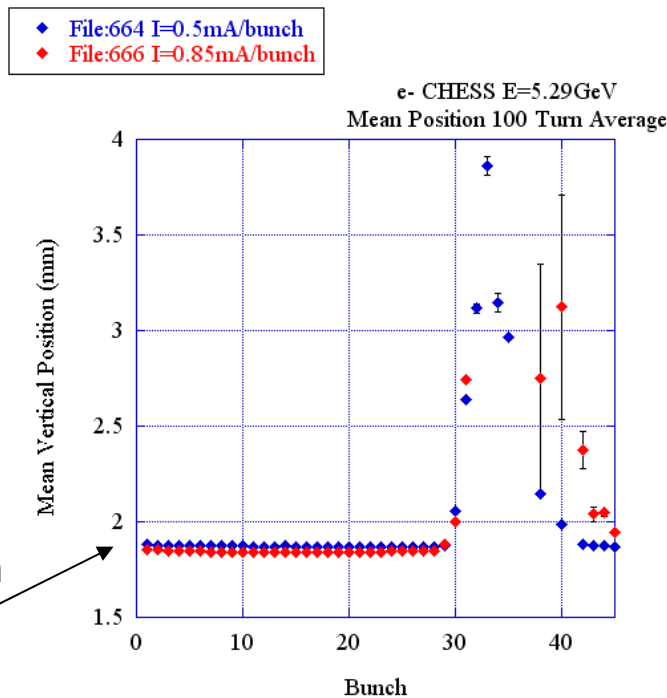


e- σ_v 100 turn average

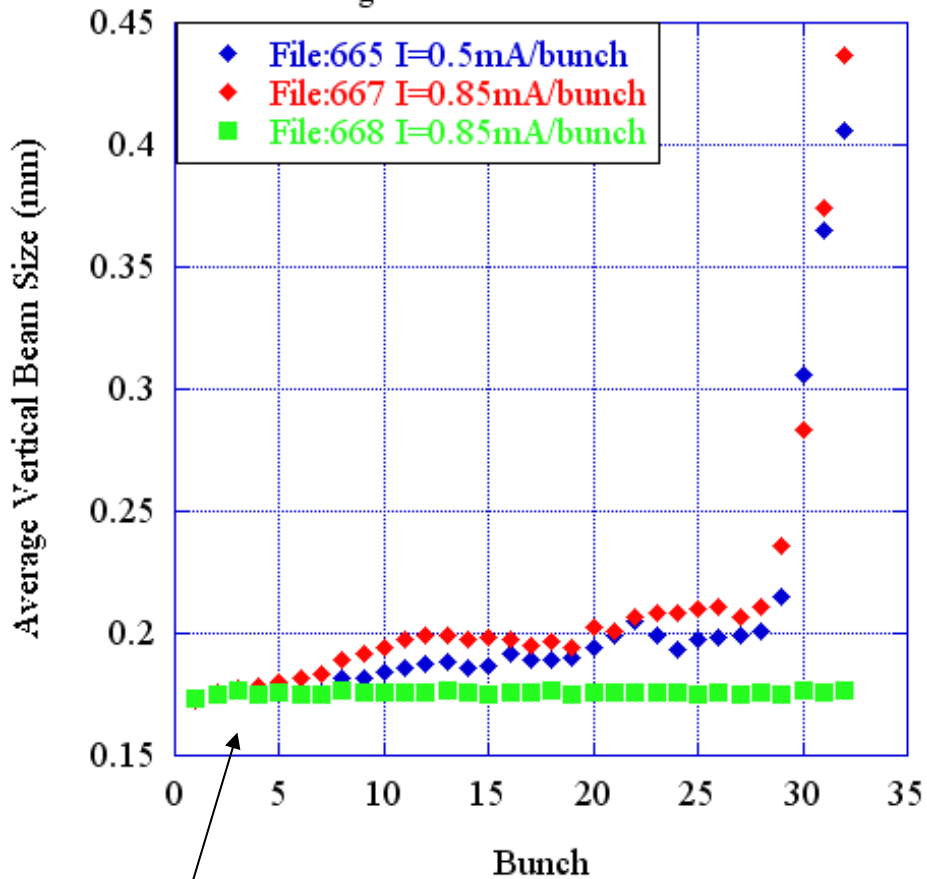
e- single bunch
current
Bunches 33-45
are low I



e- mean vertical position
100 turn average



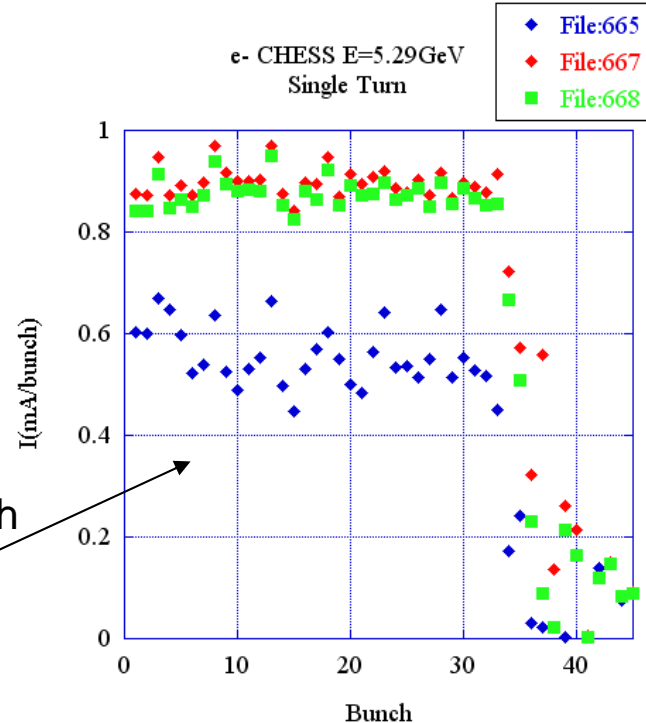
e- CHESS E=5.29GeV
Single Turn Vertical Beam Size



e- single turn average σ_v

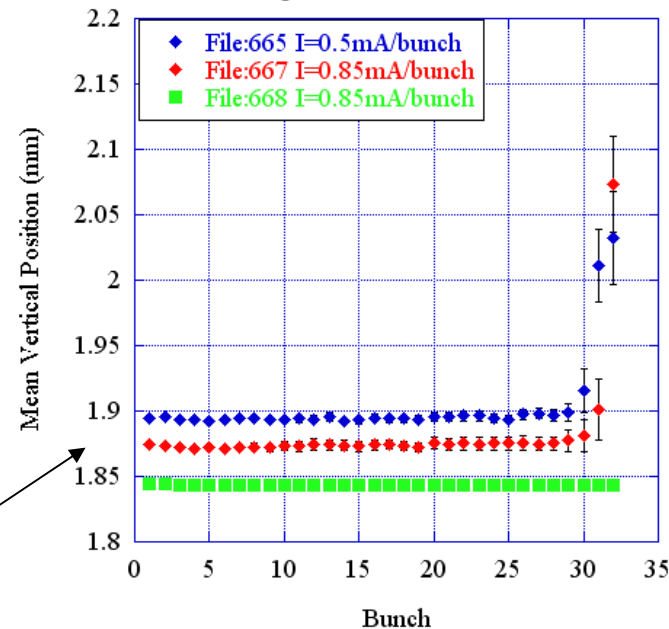
e- single turn average mean vertical position

e- CHESS E=5.29GeV
Single Turn

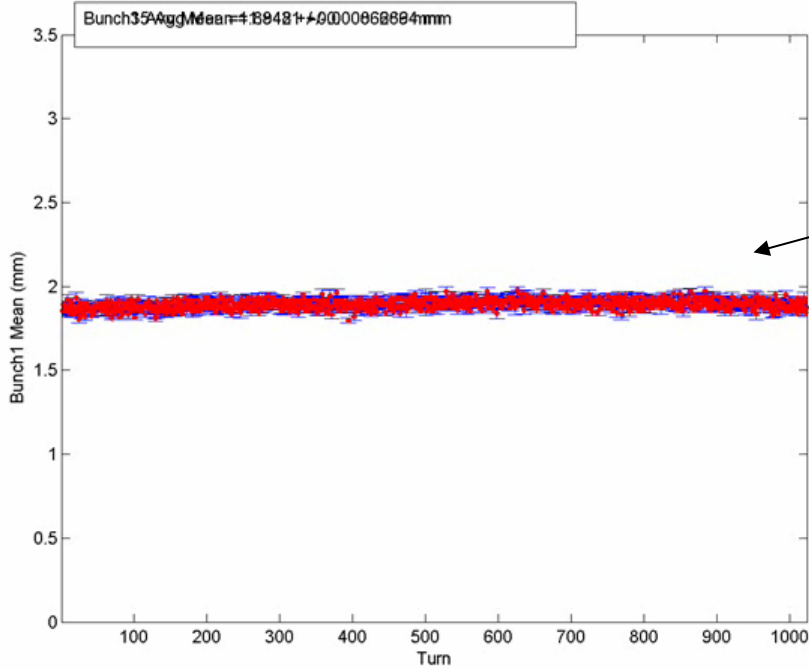


e- single bunch current

e- CHESS E=5.29GeV
Single Turn Vertical Position

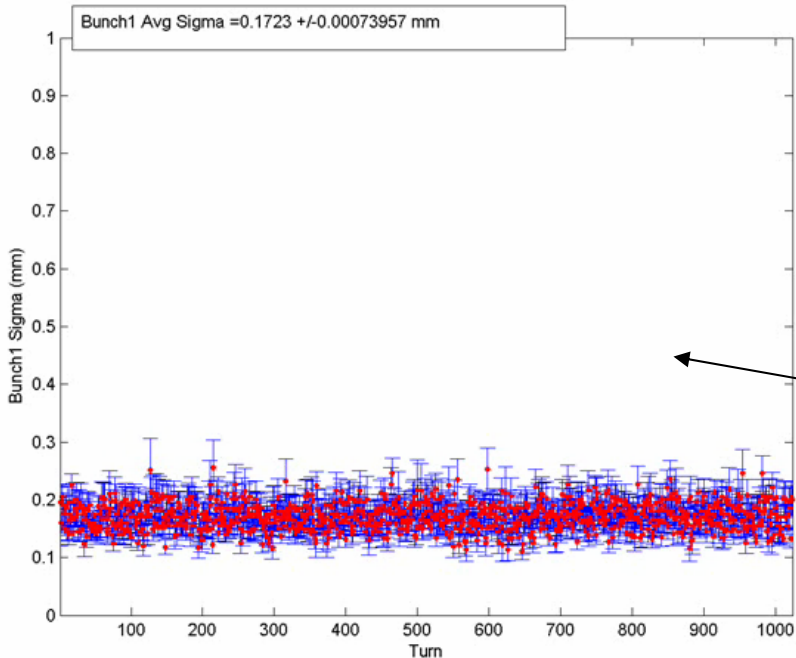
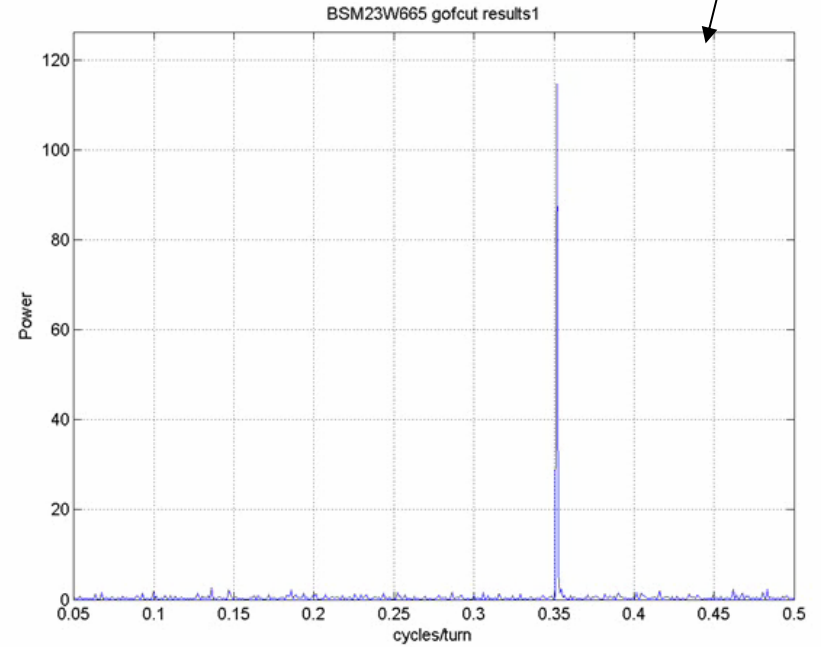


**e- $I \sim 0.5\text{mA/bunch}$
Single Turn Results
1000 turns**



Movie: Mean Position

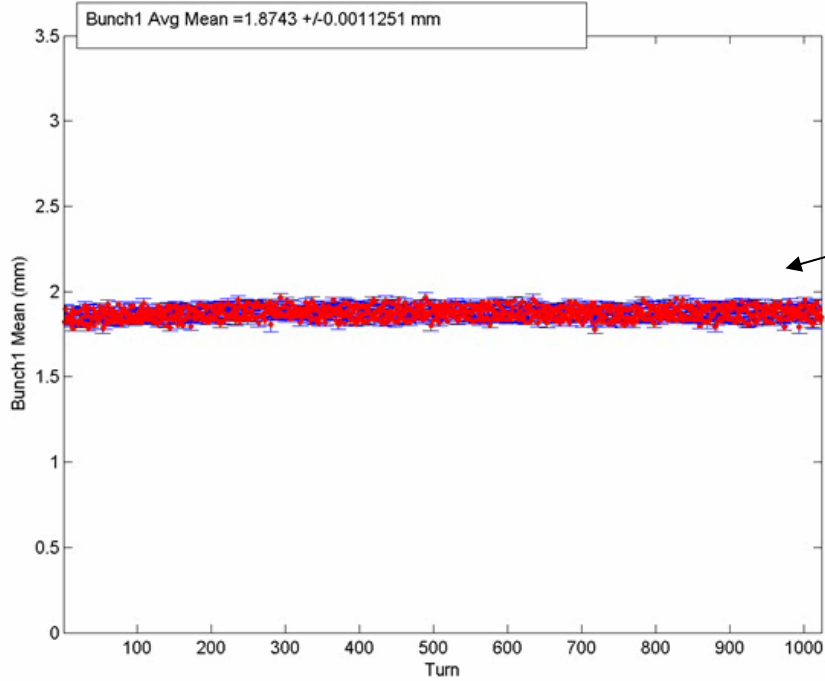
Movie: FFT Mean Position



Movie: σ_v

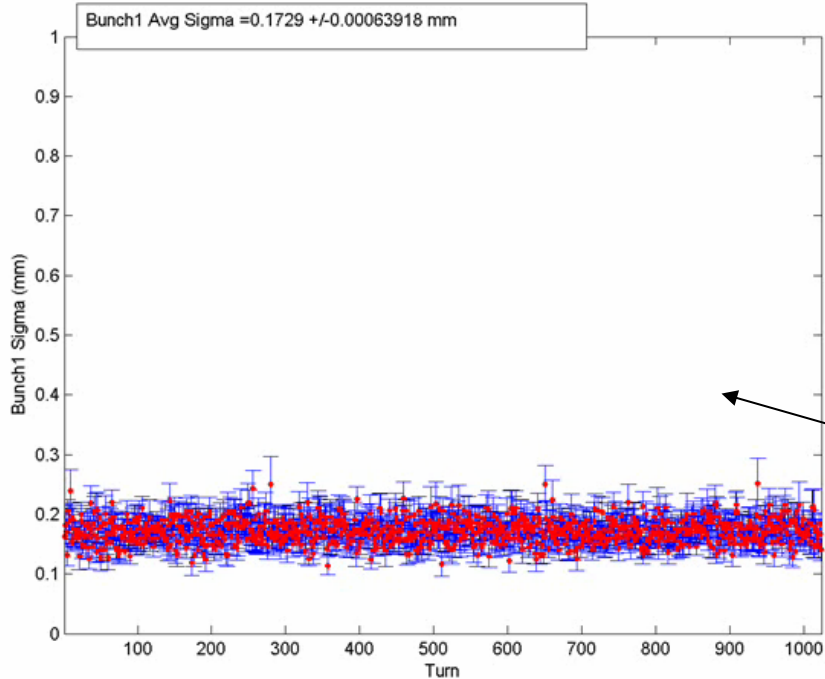
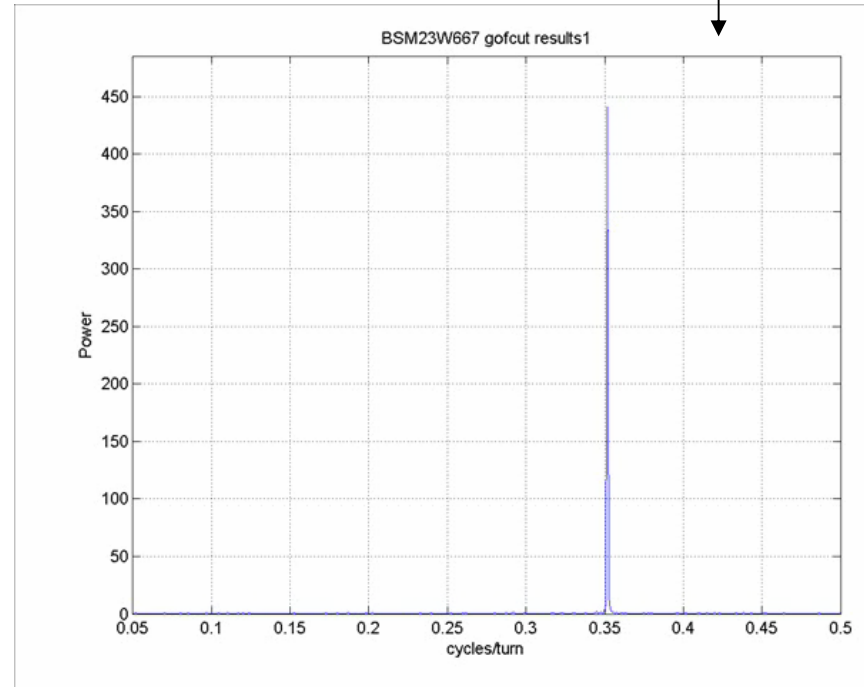
e- bunches 1-35. Centroid motion observed@bunch10 . Strong centroid motion@bunch29. σ_v growth@bunch 30.

**e- $I \sim 0.85\text{mA/bunch}$
Single Turn Results
1000 turns-35 Bunches**



Movie: Mean Position

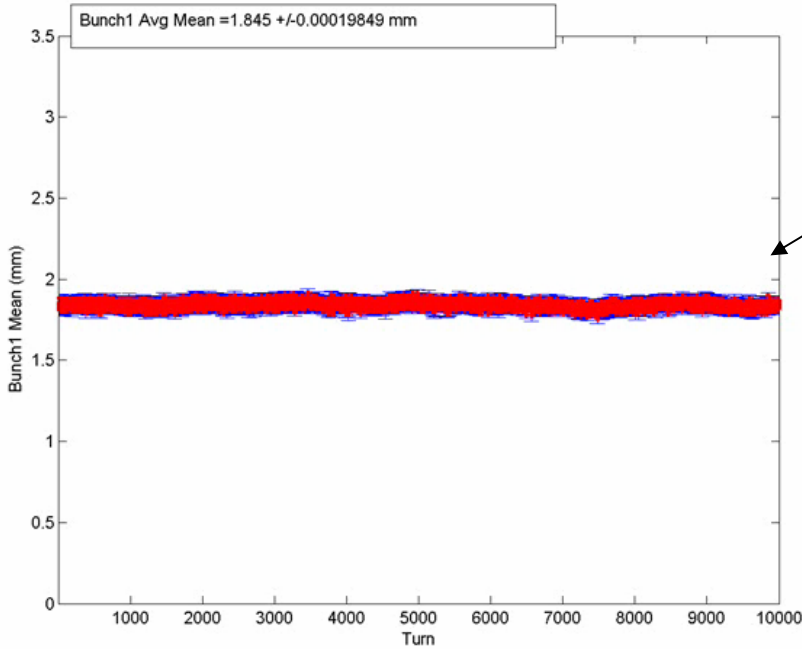
Movie: FFT Mean Position



Movie: σ_v

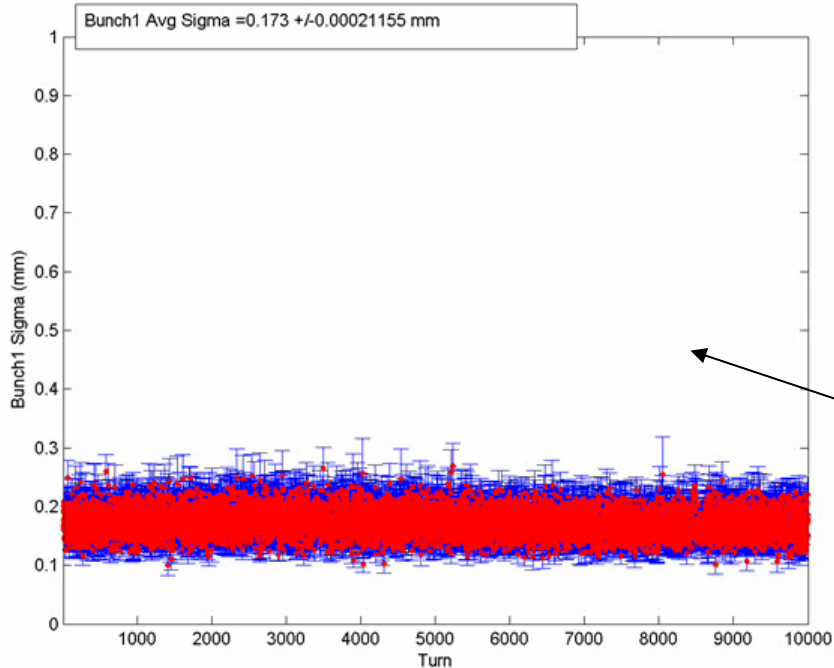
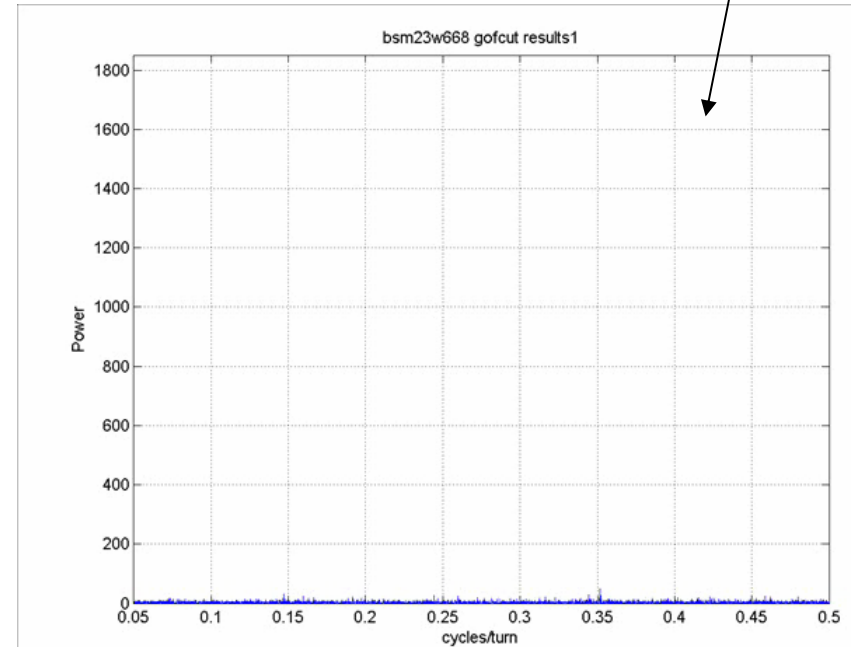
**e- bunches 1-35. Centroid motion
observed@bunch8. Strong centroid
motion@bunch29.
 σ_v growth@bunch 29.**

**e- $I \sim 0.85\text{mA/bunch}$
Single Turn Results
10000 turns-35 Bunches**



Movie: Mean Position

Movie: FFT Mean Position

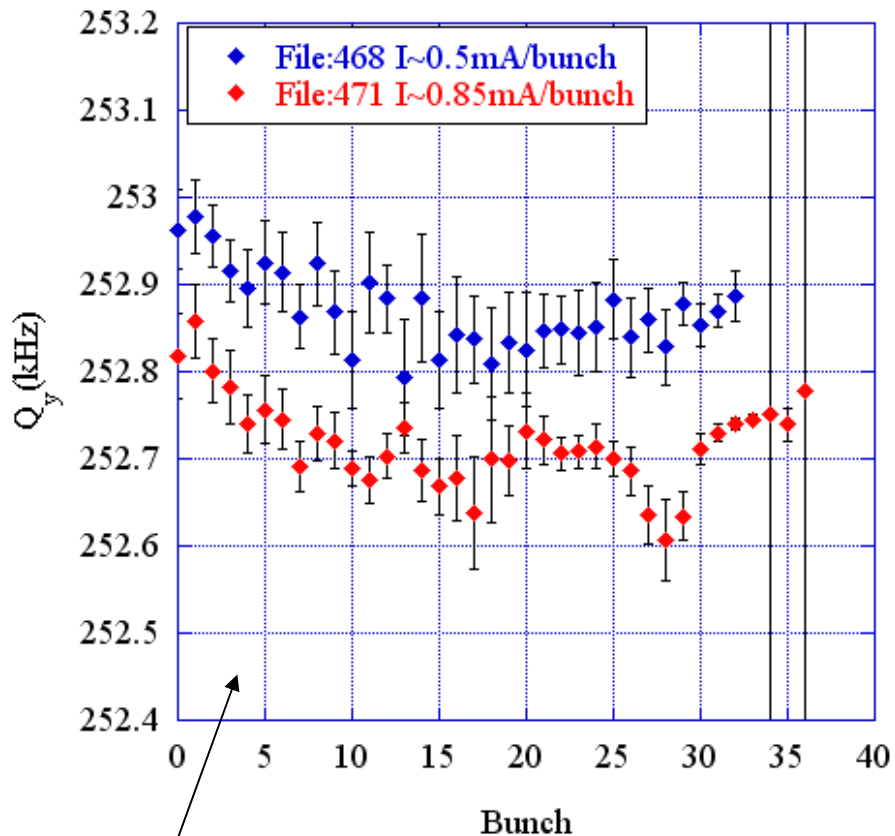


Movie: σ_v

e- bunches 1-35. Centroid motion observed@bunch34. Strong centroid motion is NOT observed. σ_v is constant along the 35 bunch train.

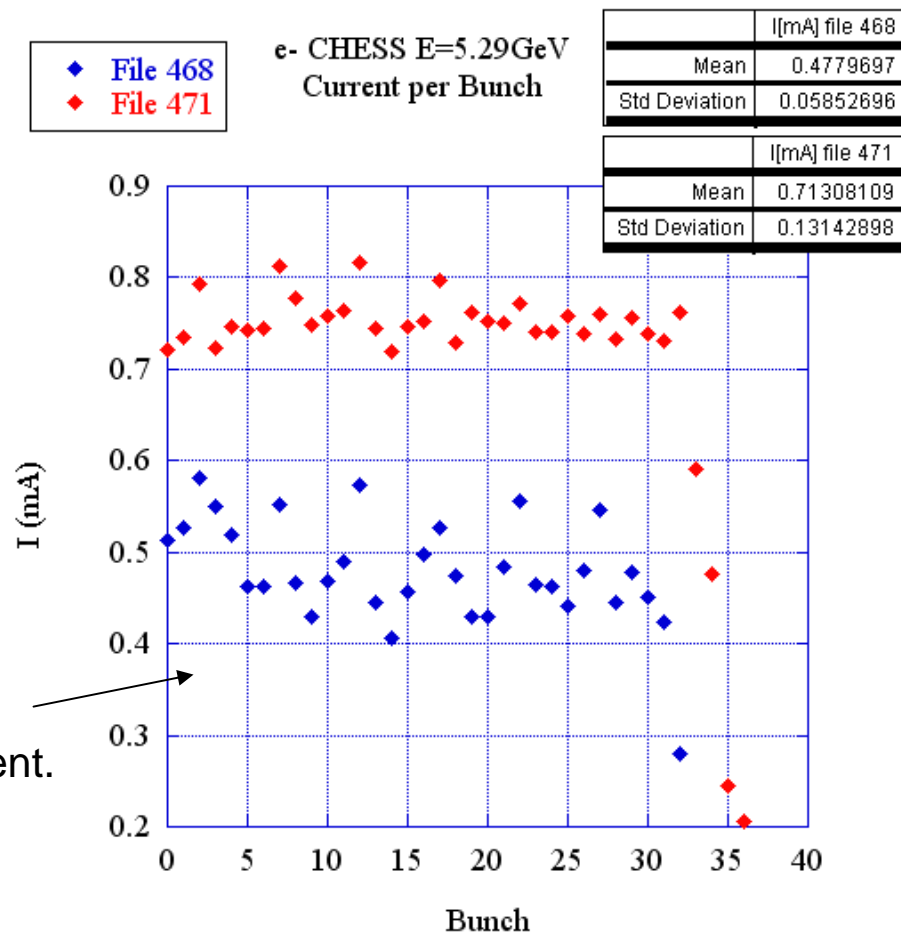
e- CHESS E=5.29GeV

Vertical Tune



e- vertical tune

e- single bunch current during tune measurement.



e- CHESS E=5.29GeV
Current per Bunch

	I[mA] file 468
Mean	0.4779697
Std Deviation	0.05852696

	I[mA] file 471
Mean	0.71308109
Std Deviation	0.13142898