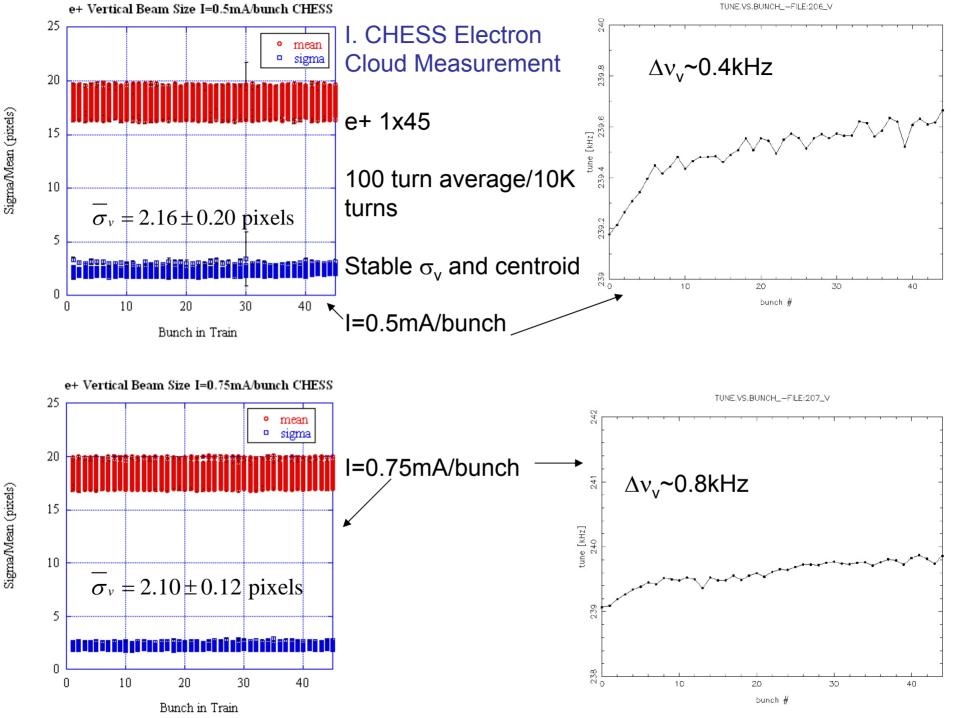
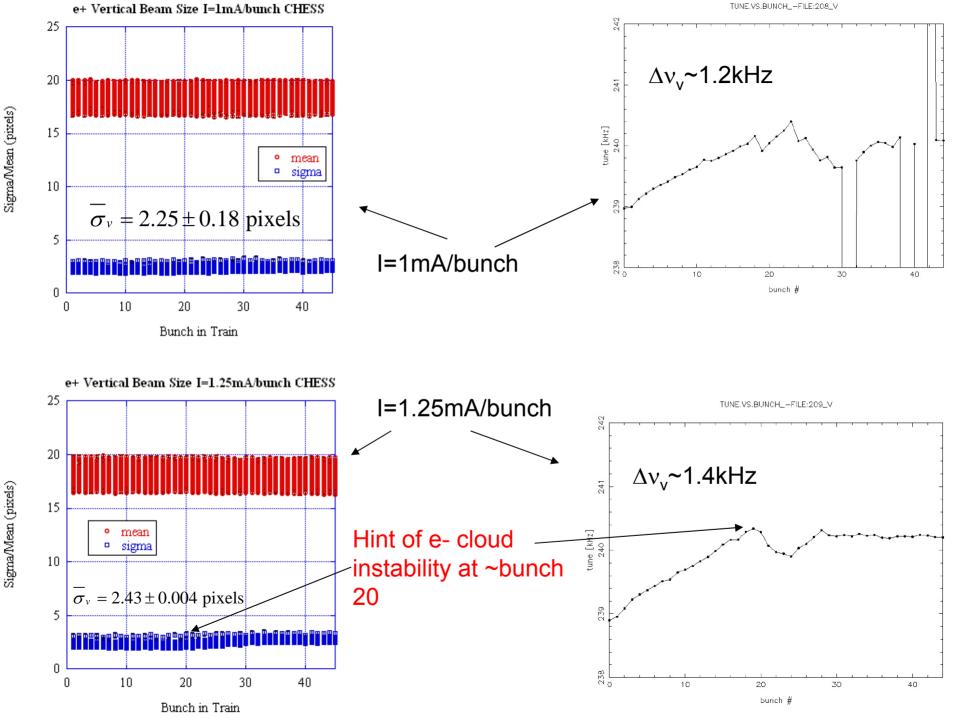
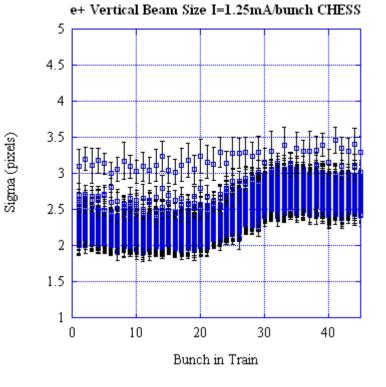
## CHESS e+ Long Train Vertical Beam Size-Part-I

At the CHESS energy, vertical beam size of positrons was measured as a function of current with the PMT array on 5/16/2006.

- CHESS Electron Cloud Measurement
- II. Summary







Detailed view of  $\sigma_v$  shift in beam size ~turn 20

## II. Summary

- At low currents (I=0.5,0.75,1.0 mA/bunch)  $\sigma_{\rm v}$  along the 45 bunch train is fairly constant.
- At 1.25mA/bunch  $\sigma_v$  growth occurs between bunches 20 to 30. This hint of instability calls for further measurements at higher currents.