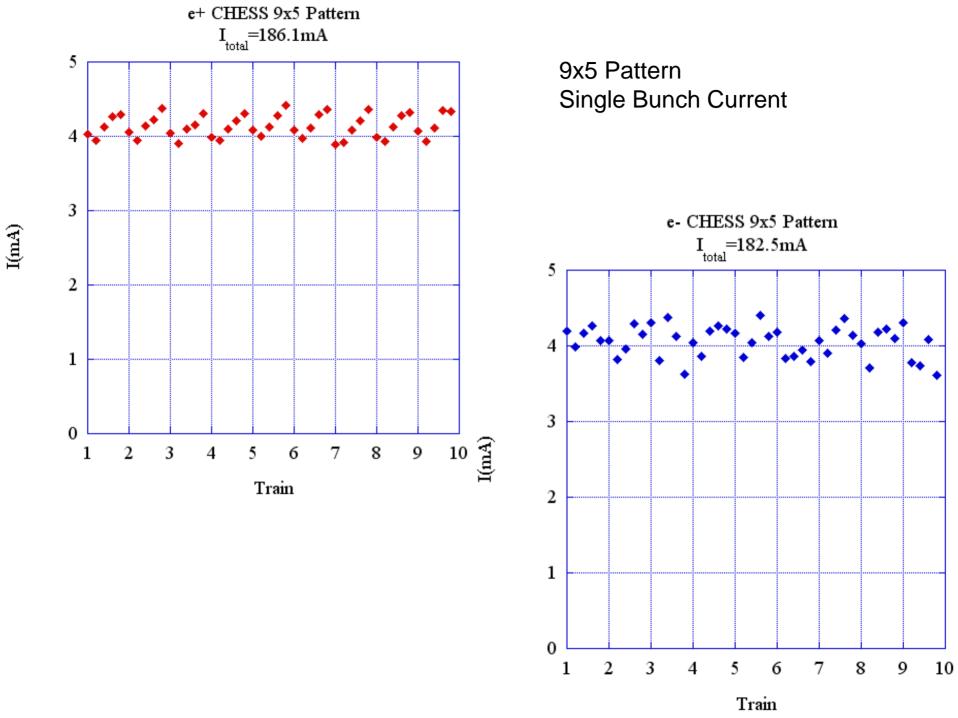
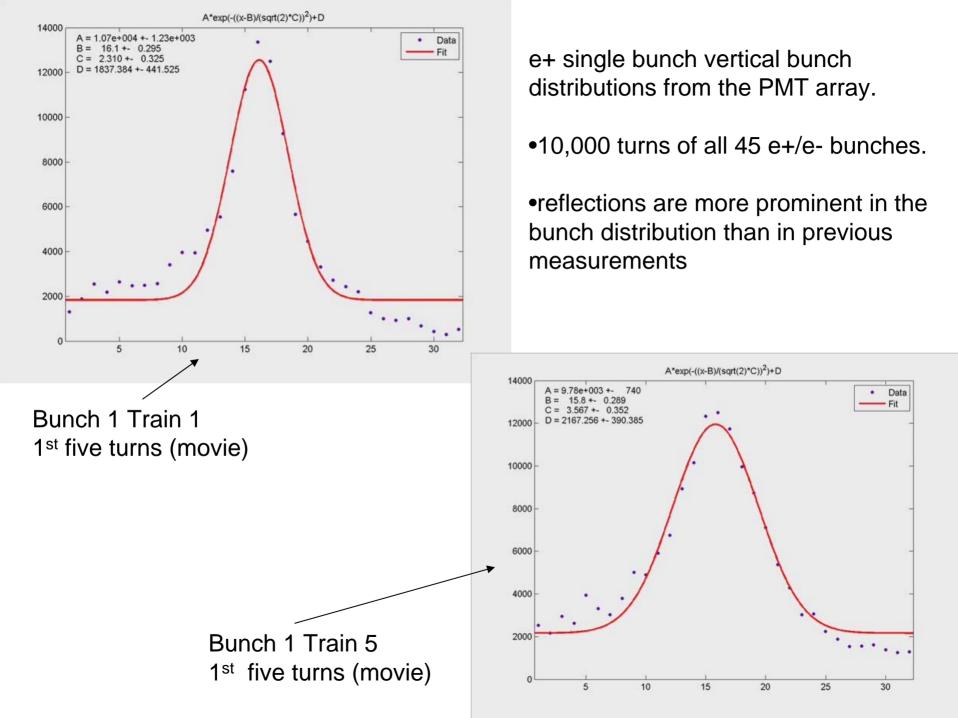
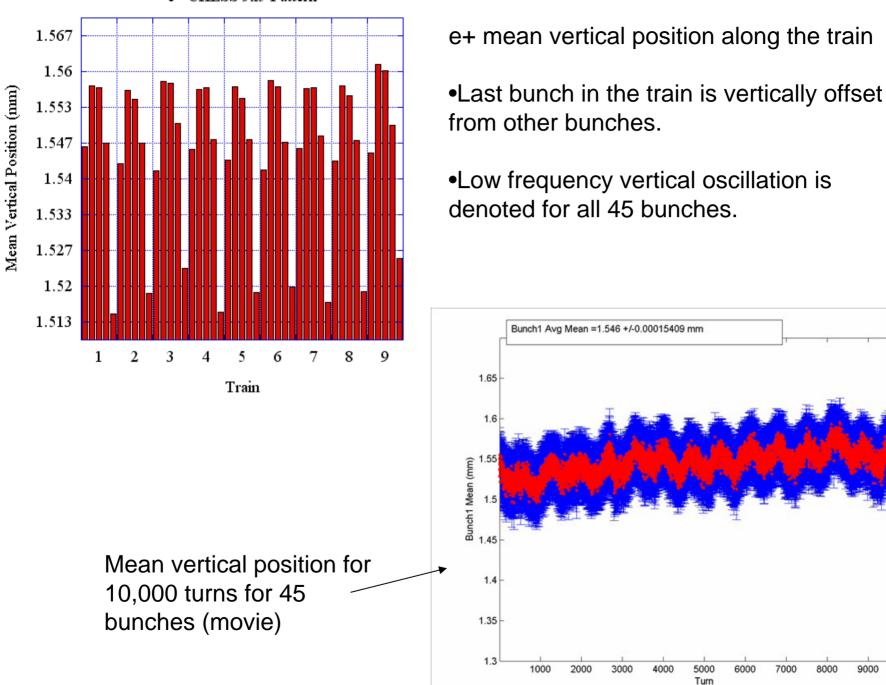
Vertical Beam Size during CHESS Operation

R. Holtzapple, J. Kern, and E.Tanke

October 5, 2006

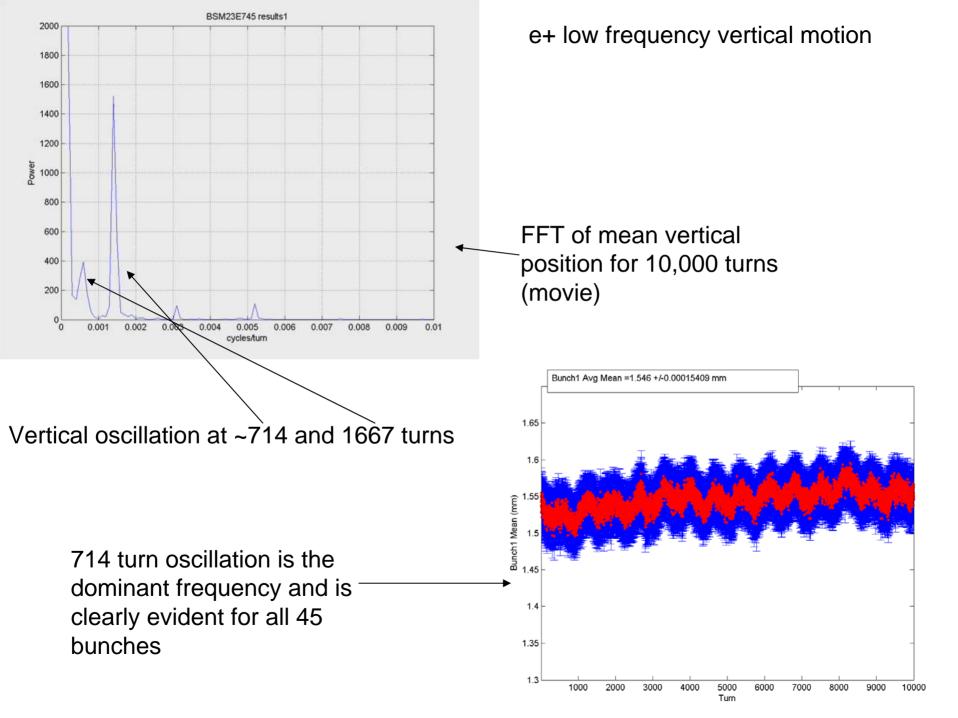


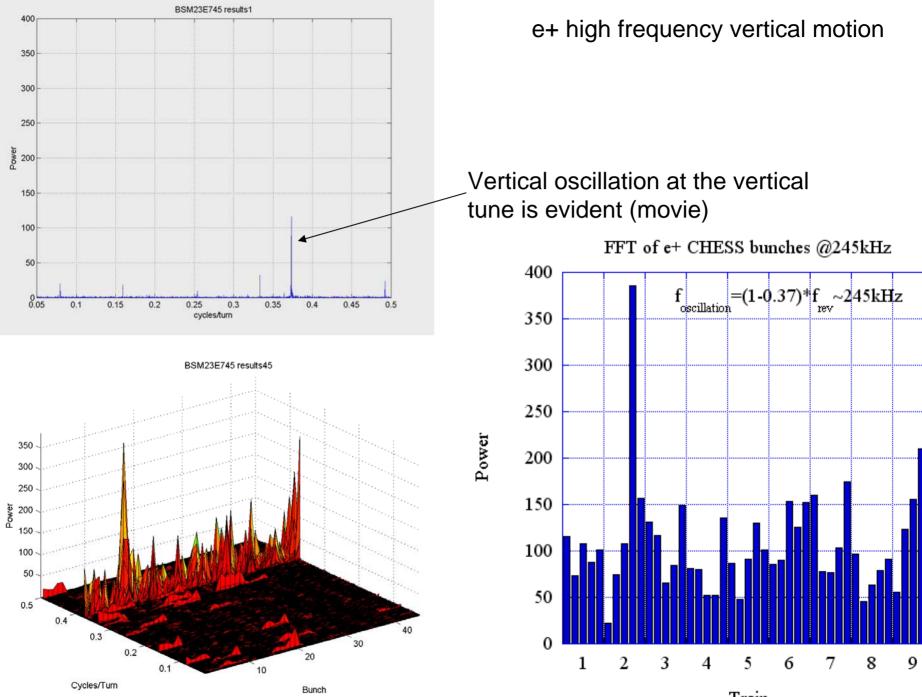




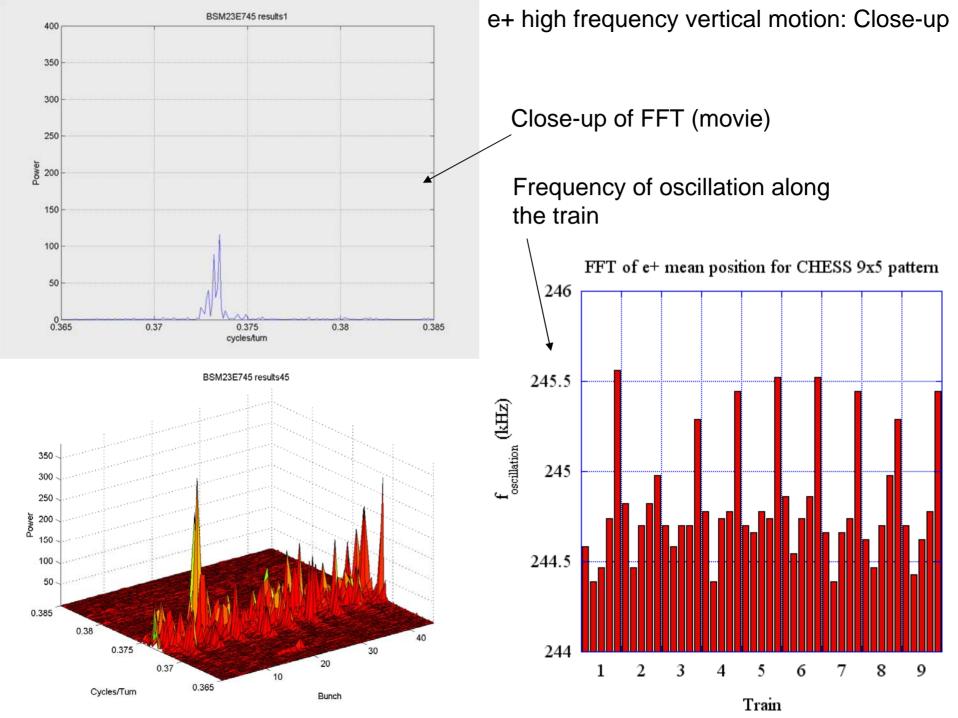
10000

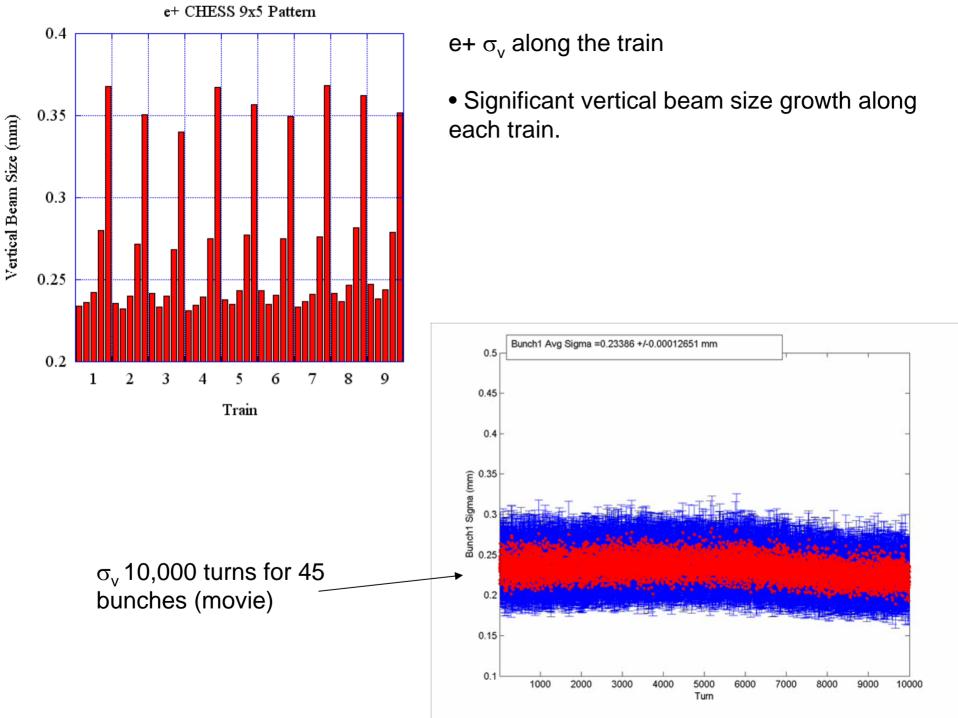
e+ CHESS 9x5 Pattern

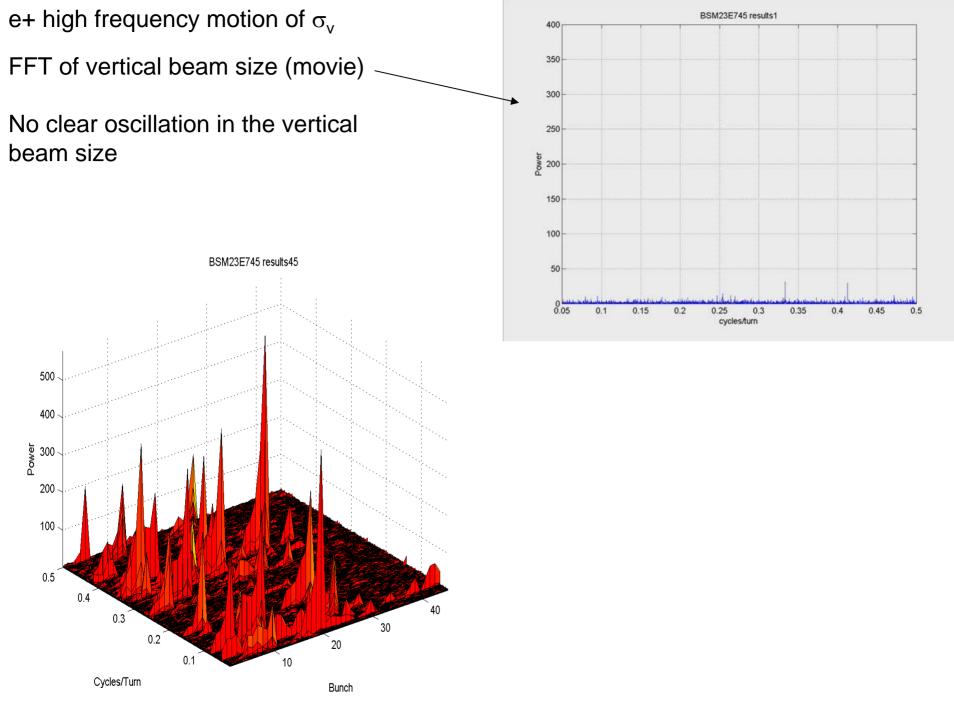


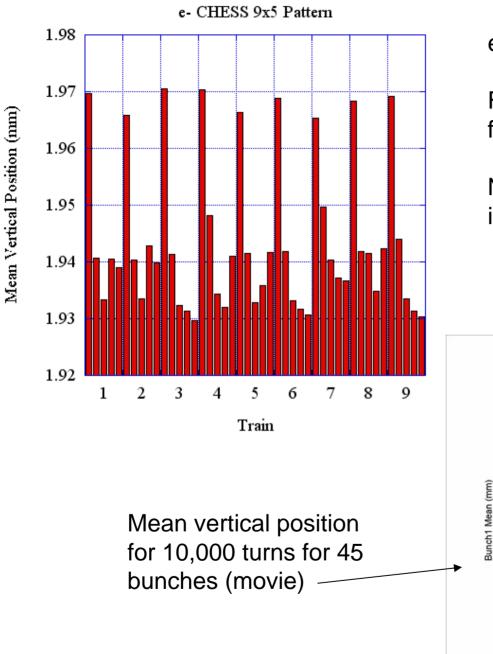


Train





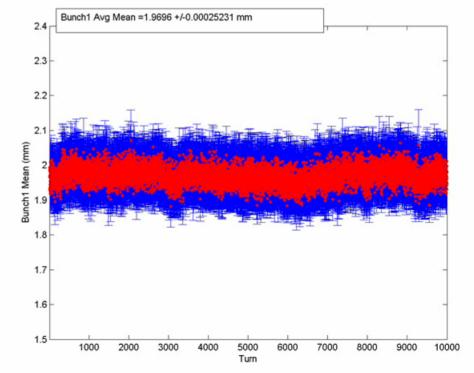


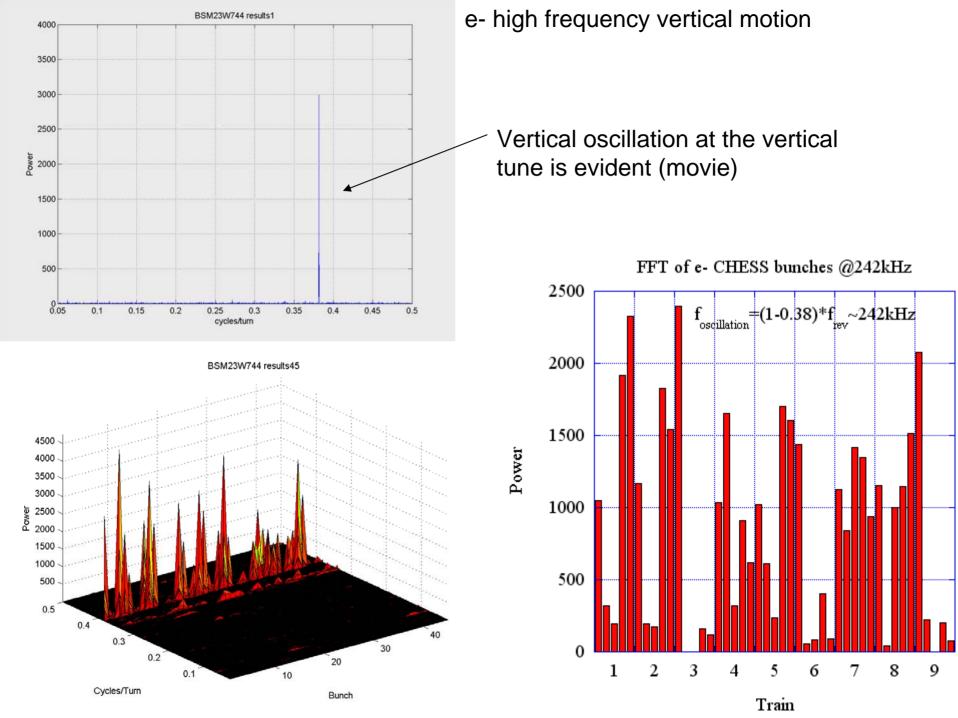


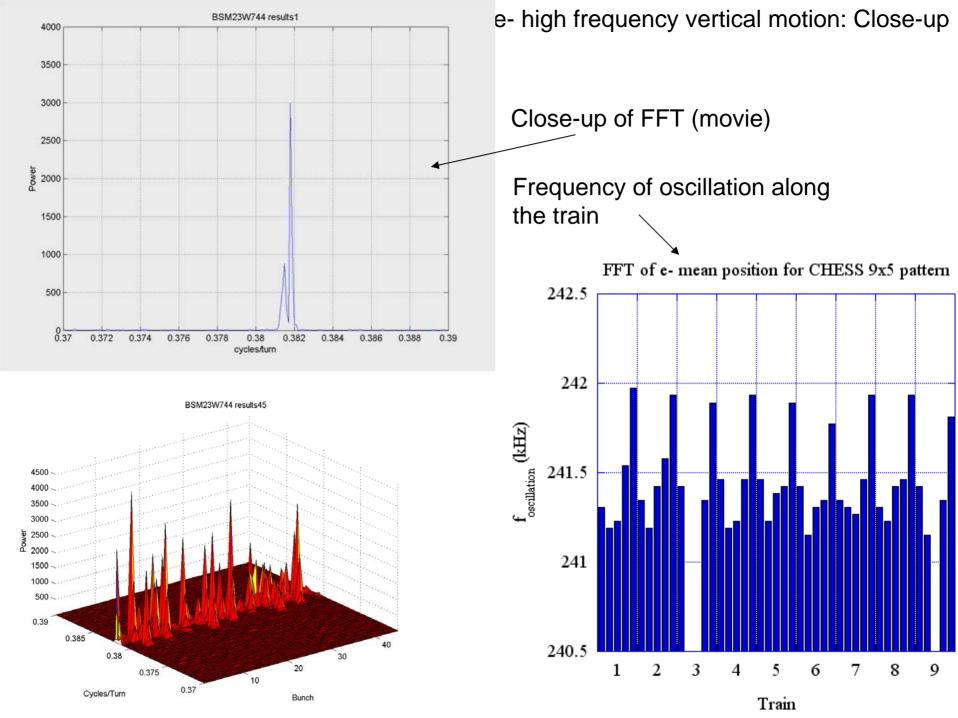
e- mean vertical position along the train

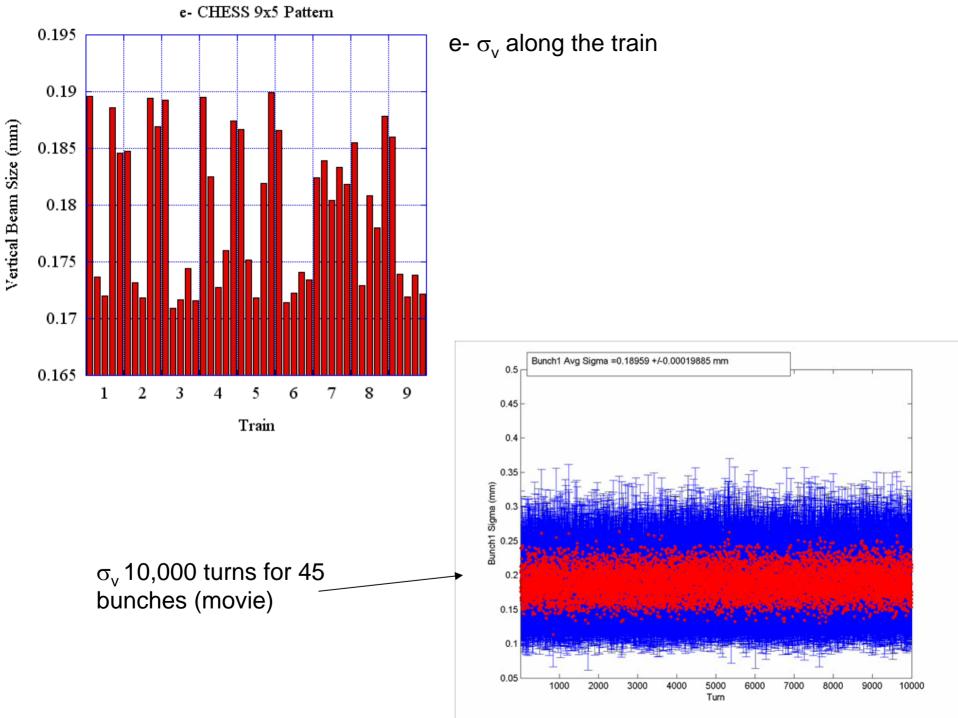
First bunch in the train is vertically offset from other bunches.

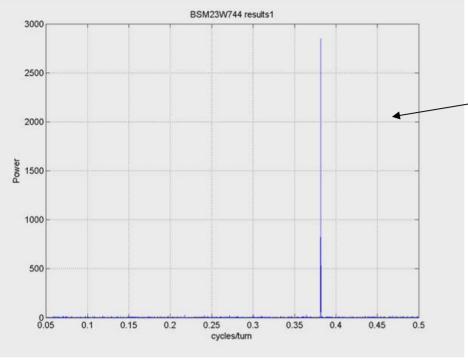
No clear low frequency vertical oscillation is denoted for all 45 bunches.







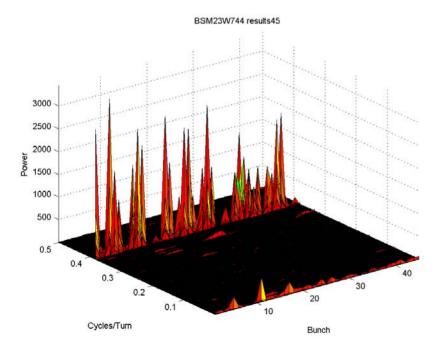


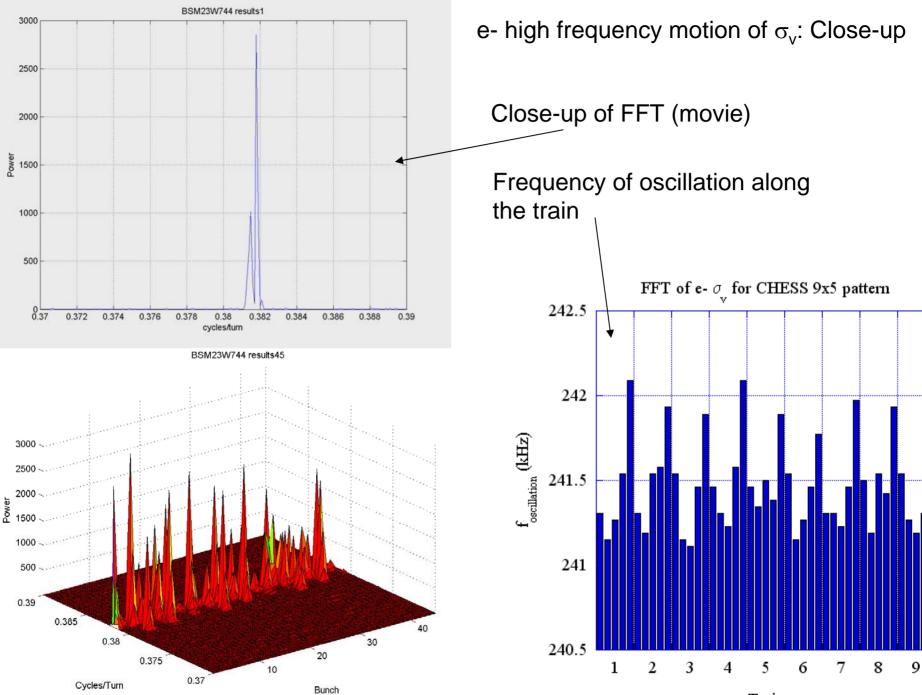


e- high frequency motion of σ_v

FFT of vertical beam size (movie)

Strong oscillation in the vertical beam size at vertical tune.





Train