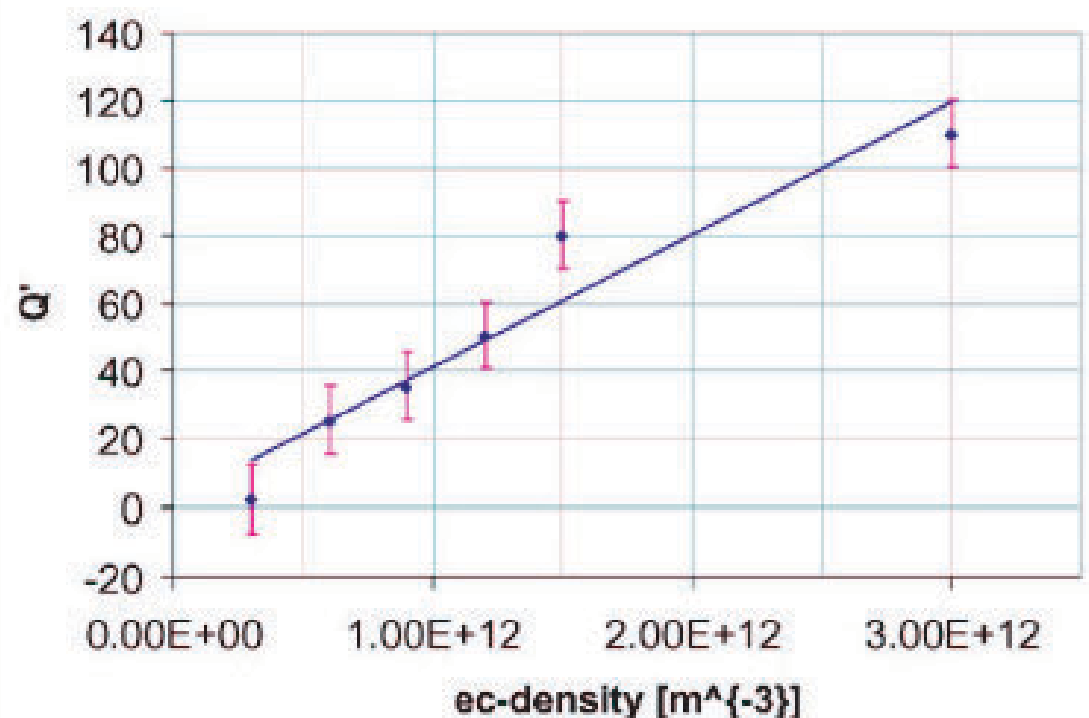
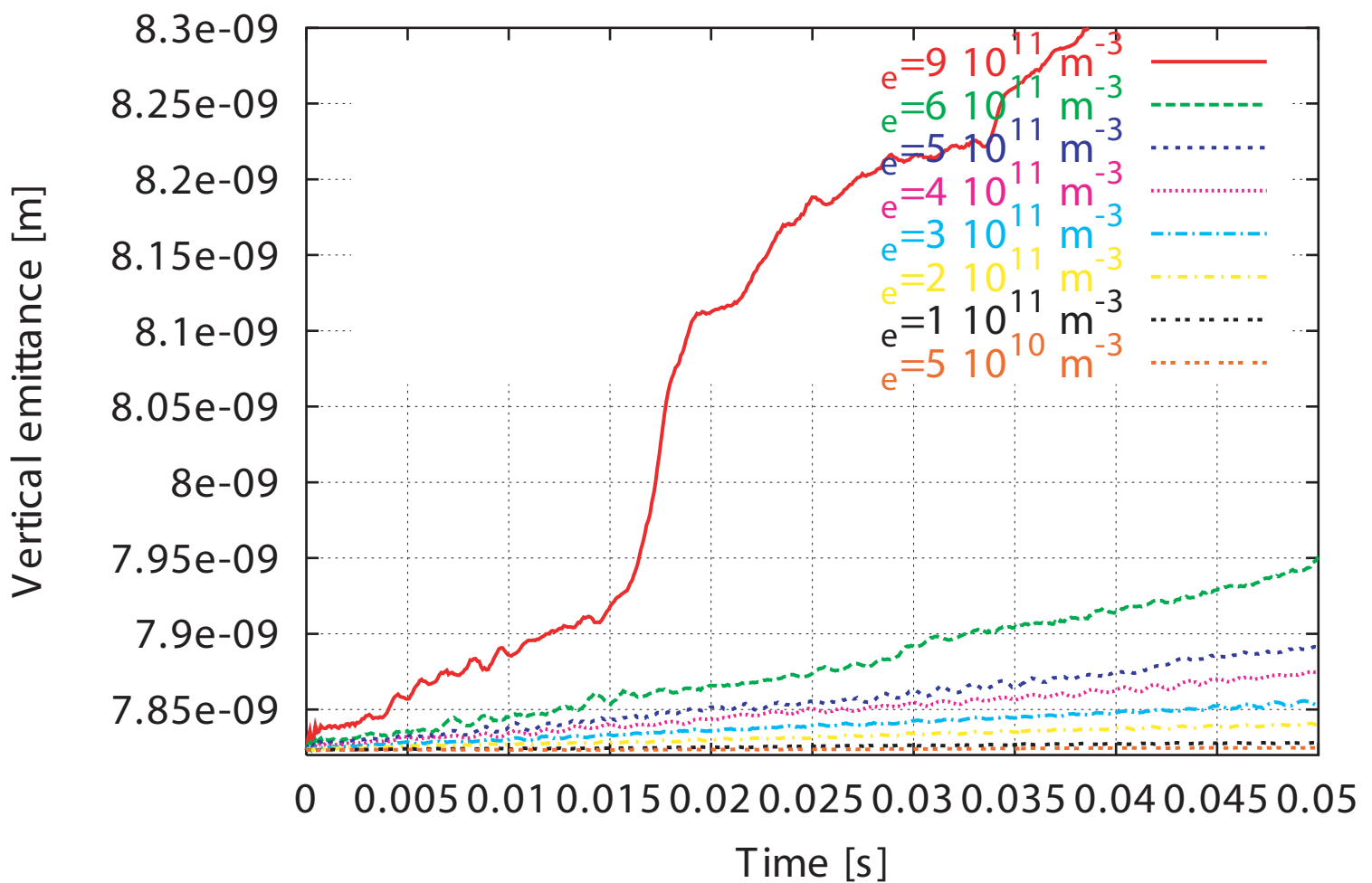


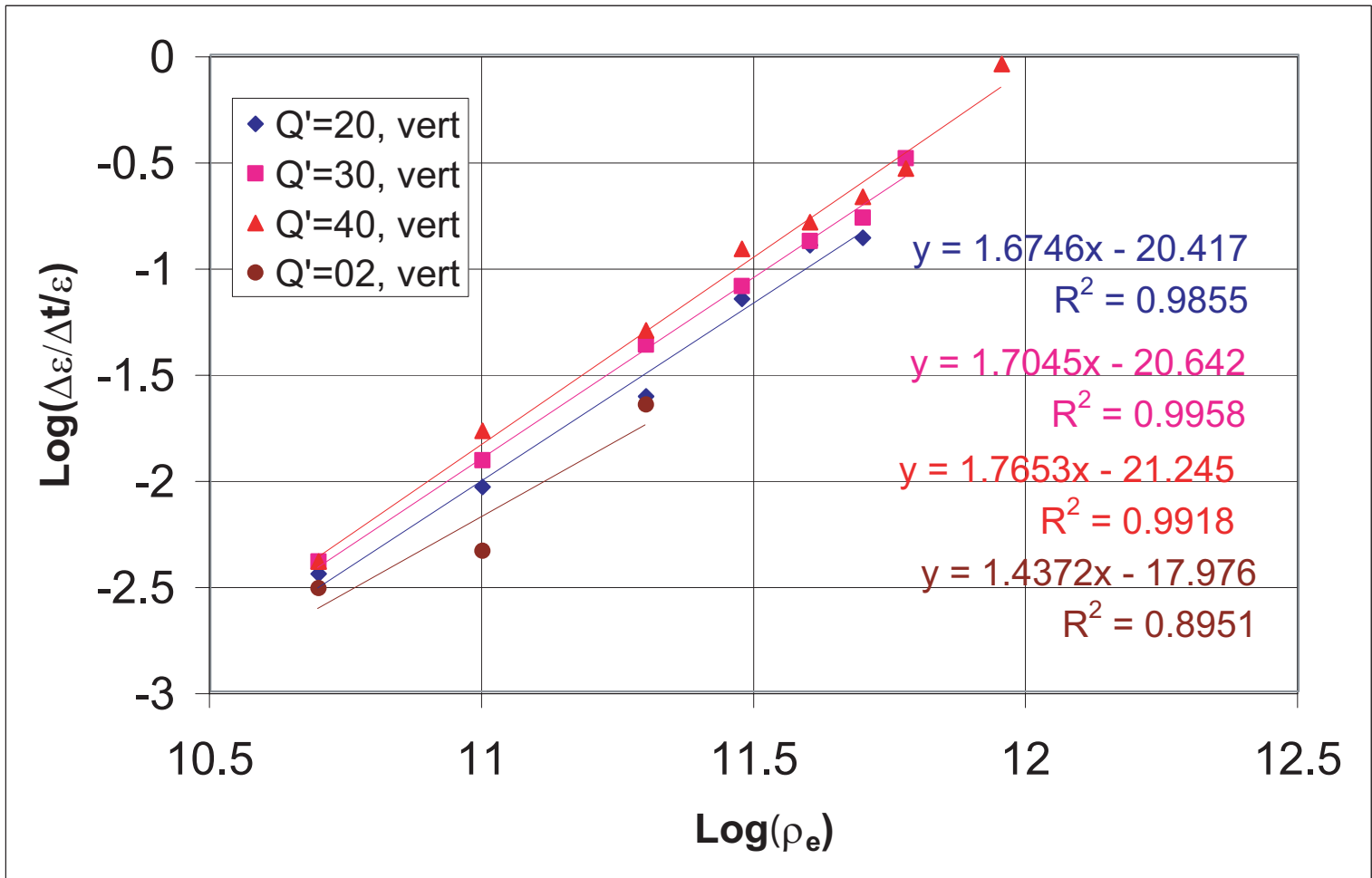
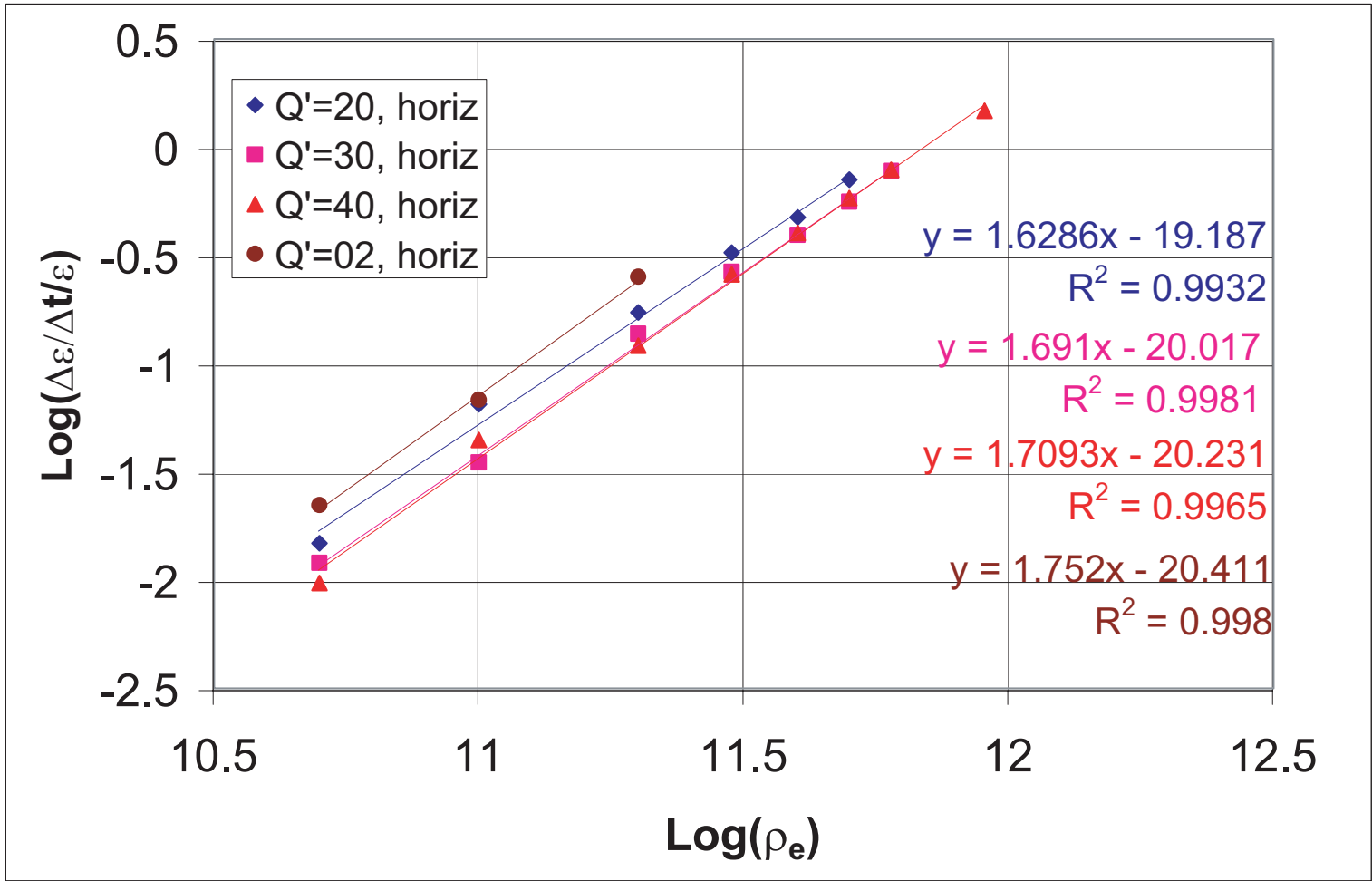
Emittance growth vs. time (for parameters of LHC @ injection) varying the chromaticity
 -> EVIDENCE OF A SLOW GROWTH REGIME



Chromaticity at which the transition between the two regimes occur as a function of the electron cloud density

Chromaticity $Q'=30$,
decreasing electron cloud density below the threshold

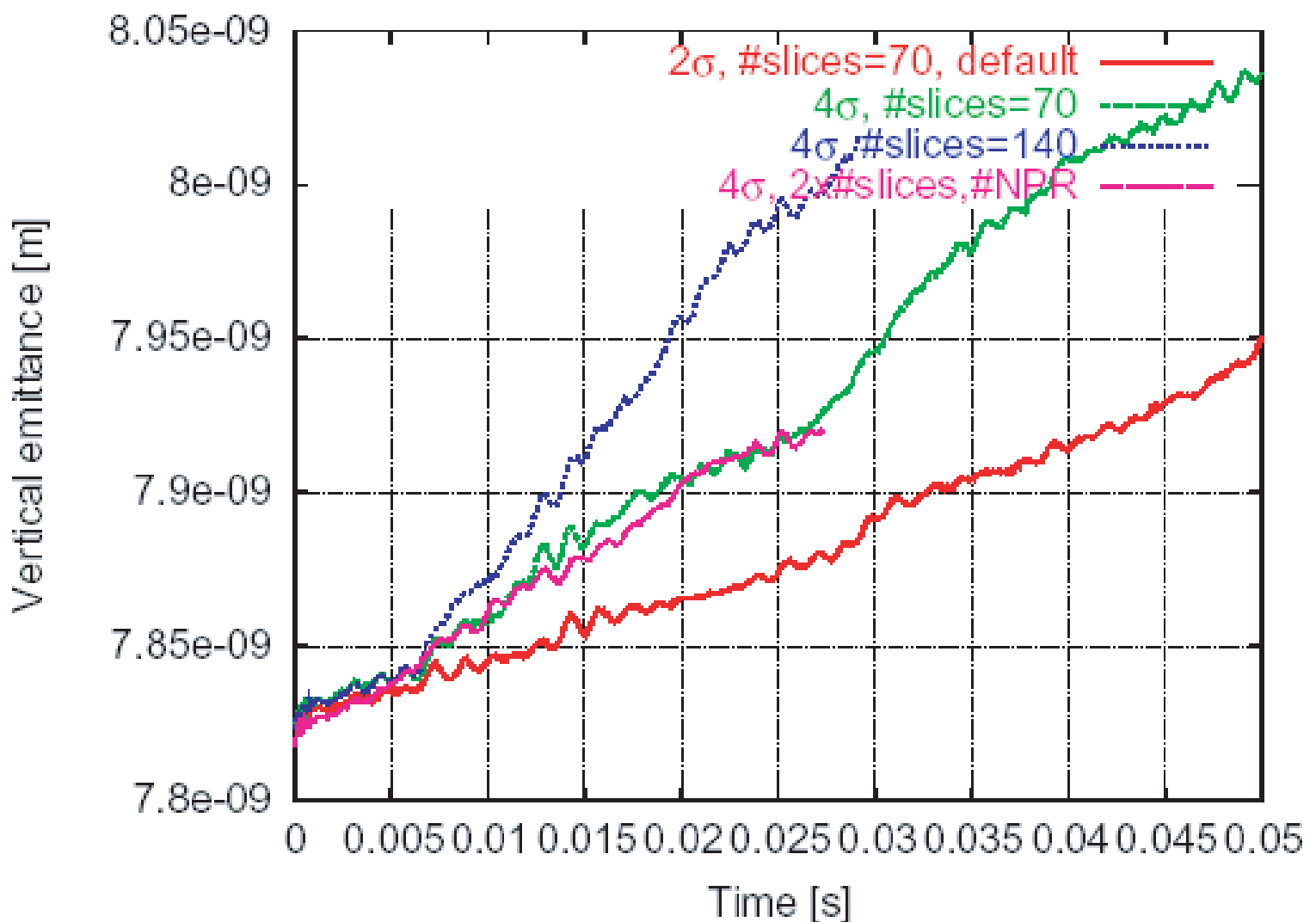




BELOW THE THRESHOLD

Effect of the longitudinal bunch extension taken into account into the simulation:

- default= $\pm 2\sigma$
- tried with $\pm 4\sigma$
- increased number of slices
- # of macroparticles



The bunch is Gaussian, so in tails at 4σ
I have only a few particles
-> is it the reason why it is unstable?