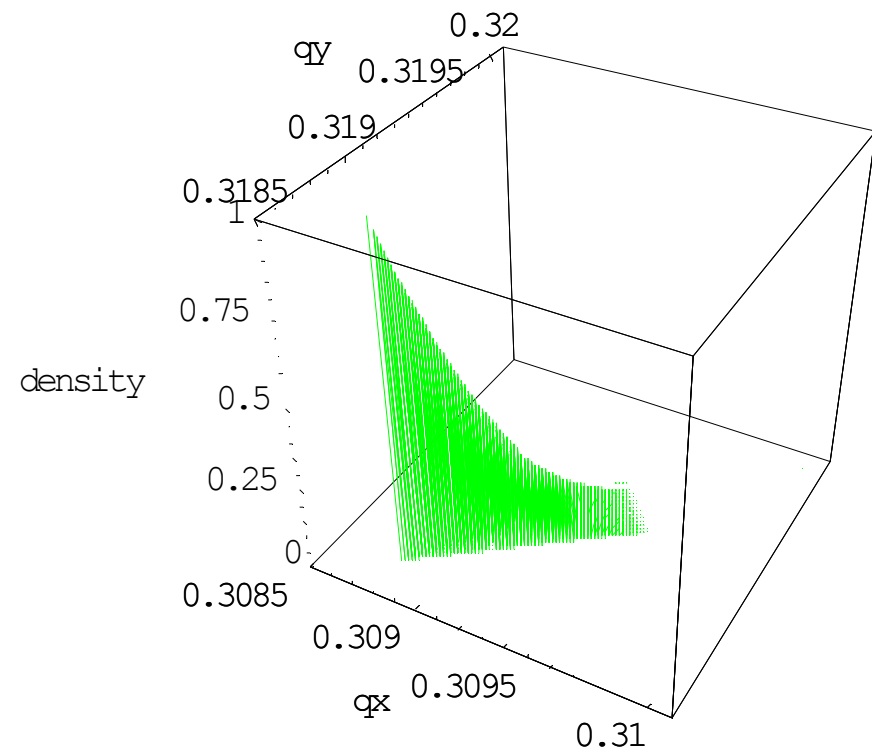
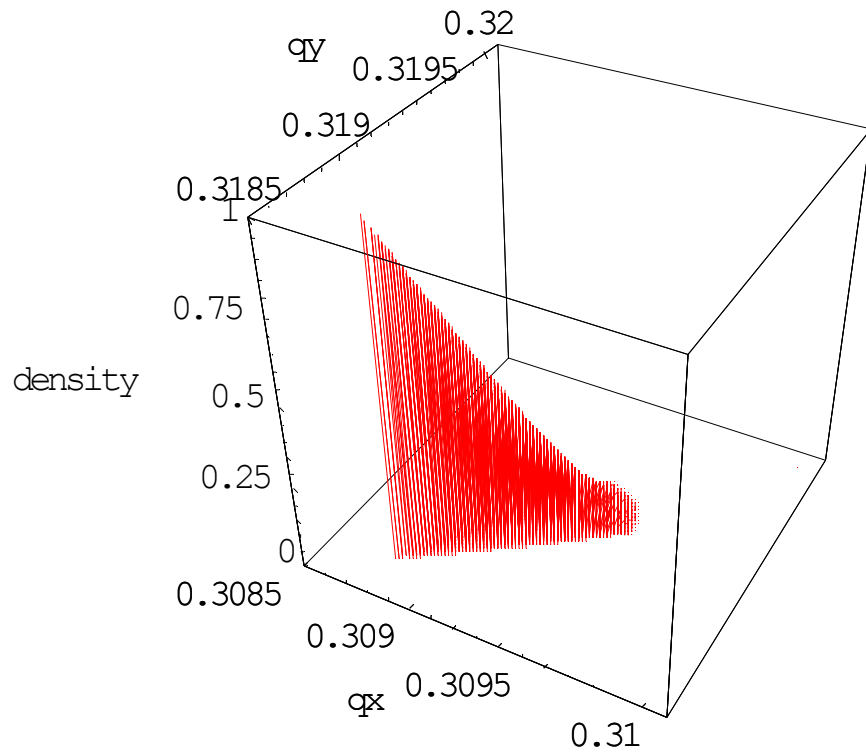
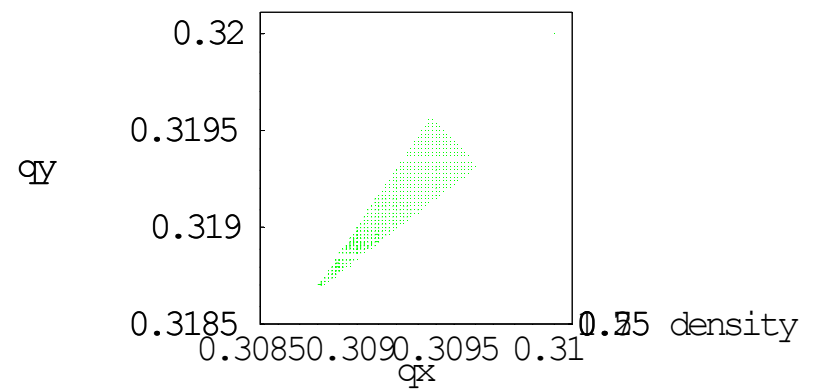
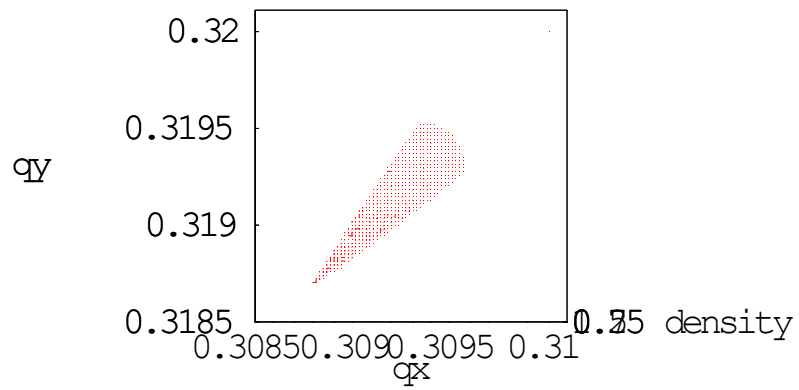


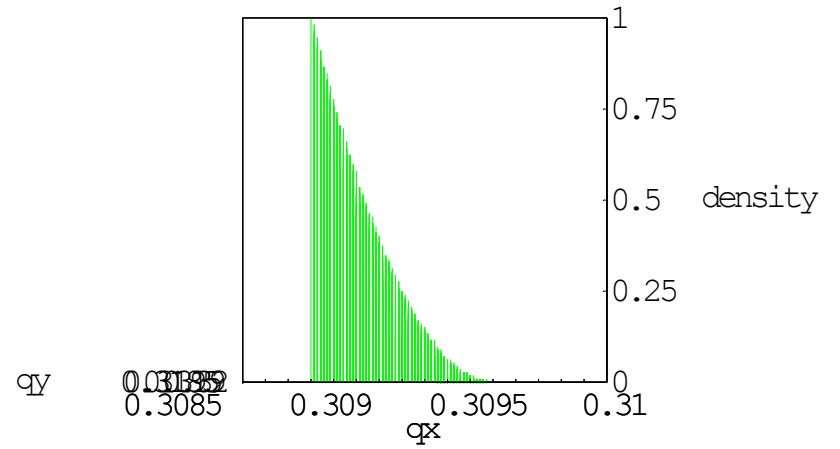
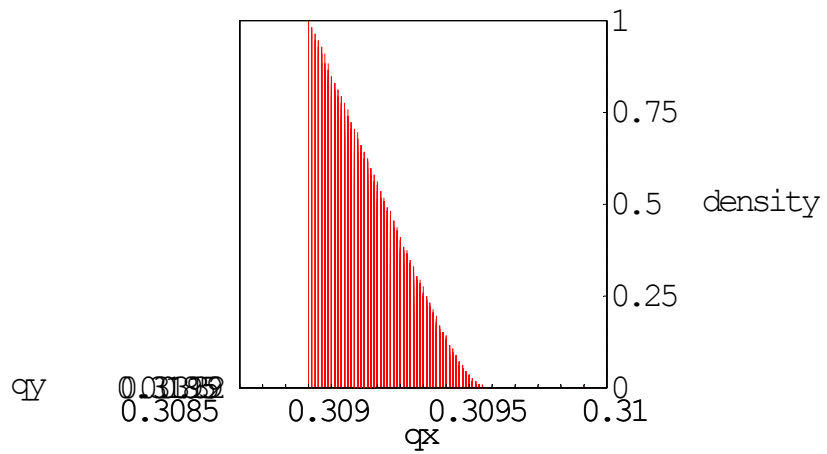
# LANDAU DAMPING BY OCTUPOLES AND SPACE CHARGE

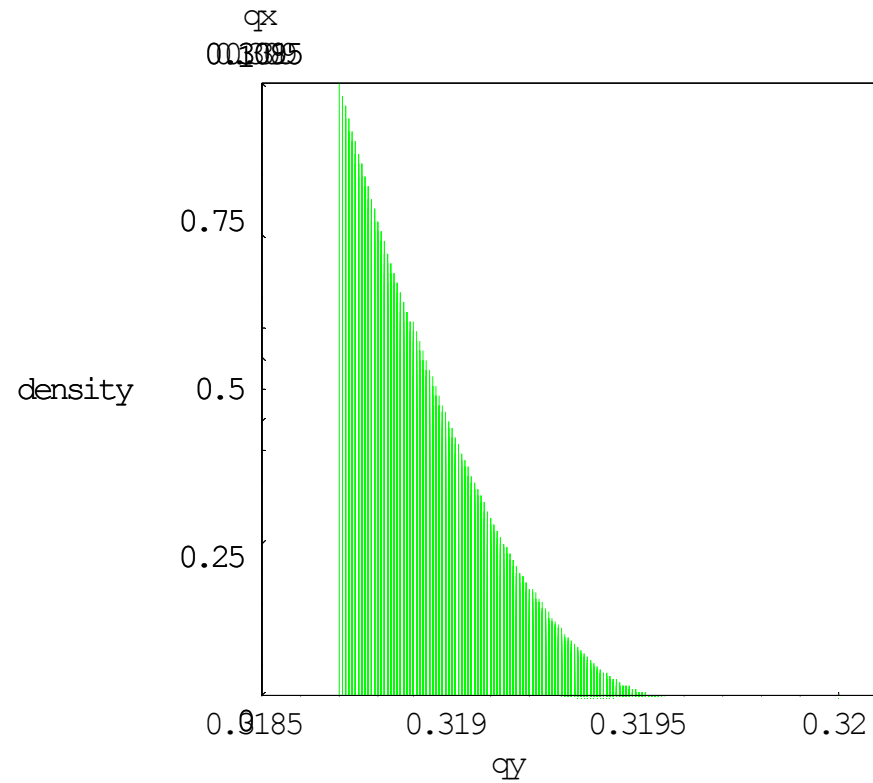
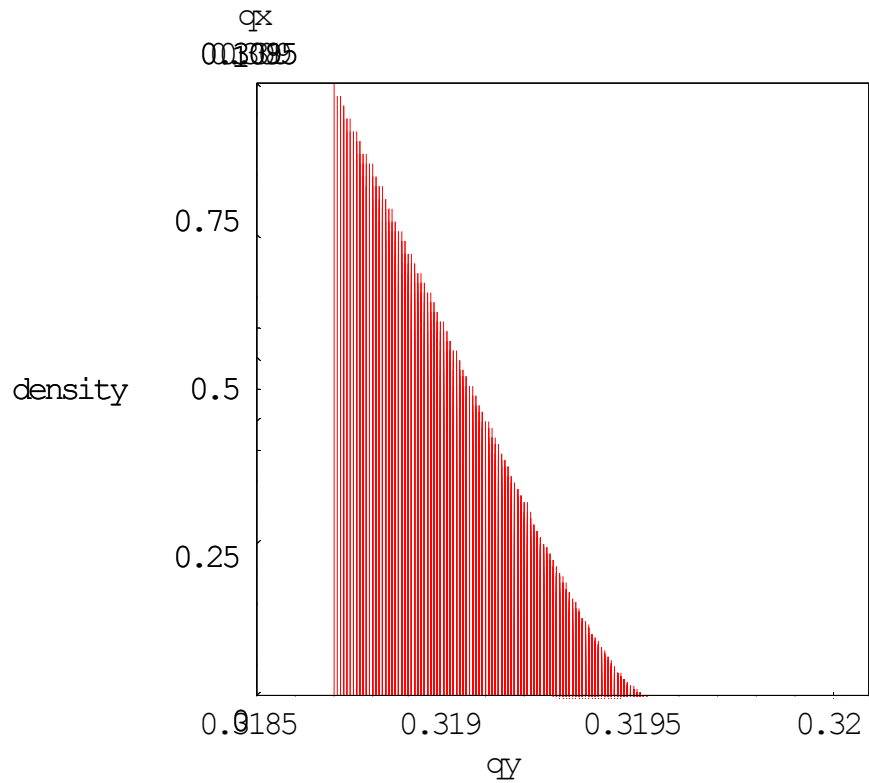
E. Metral

- ◆ **More comparisons between the self-consistent space-charge tune spread for the quasi-parabolic distribution and the approximated spread (linear in  $J_x$  and  $J_y$ )**
- ◆ **Last step to be done**









## Last step to be done

- ◆ I think one has a very good approximation for the Landau damping mechanism by octupoles and space-charge considering both transverse planes
- ◆ The last important mechanism to include is the longitudinal motion, which will fill the gap and increase the stability diagram