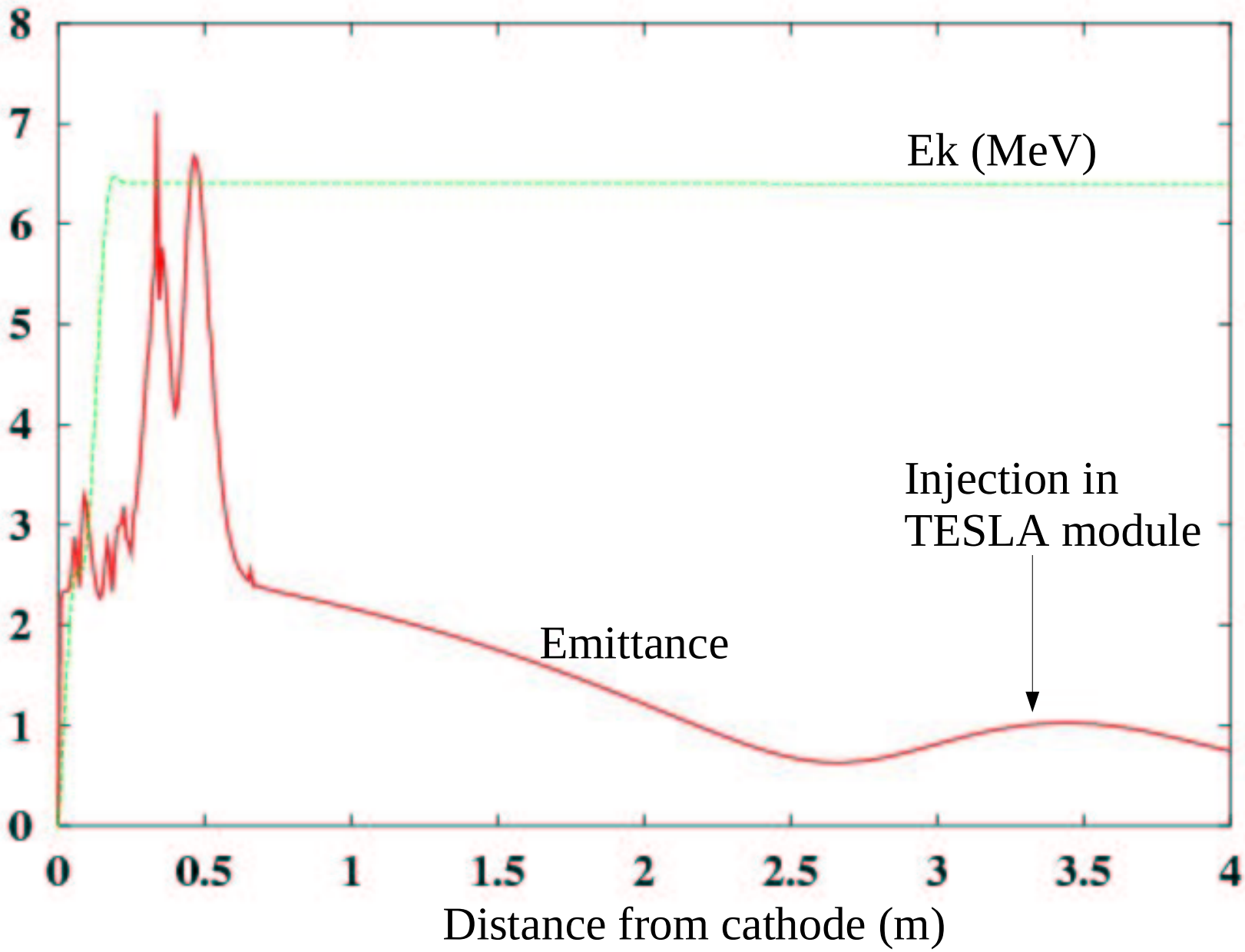
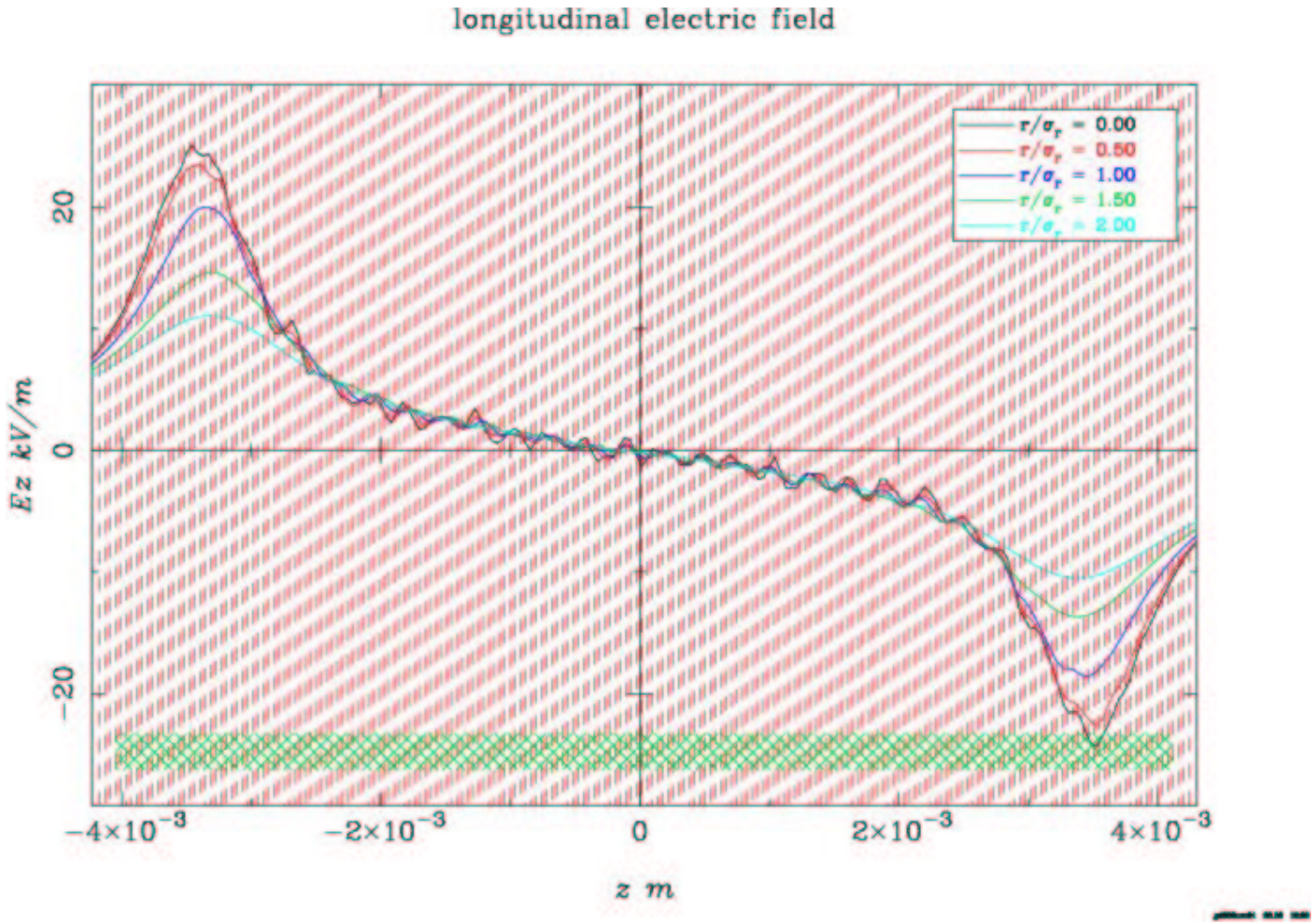
Low energy section of TESLA X-FEL injector

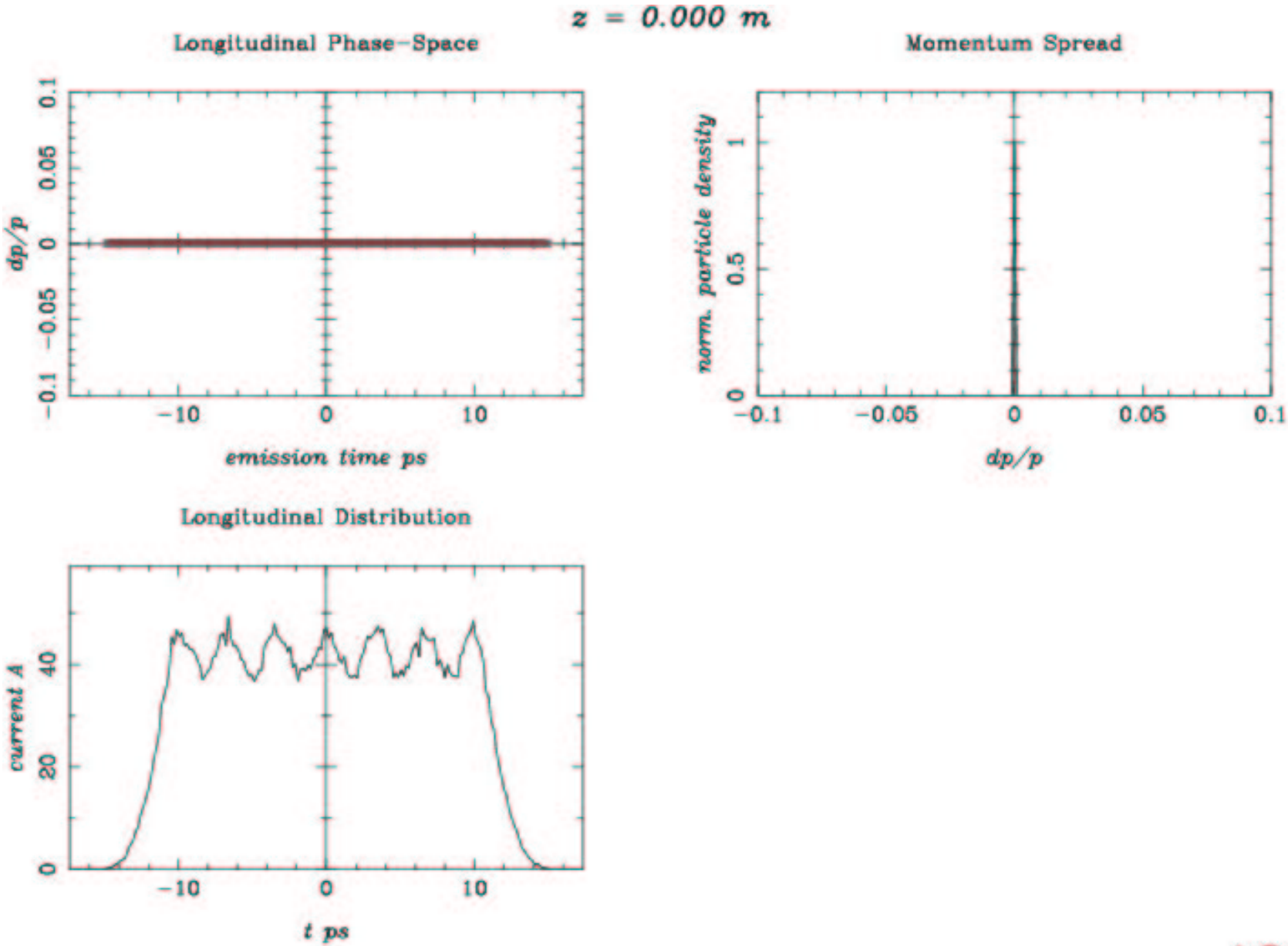


Set-up of the particle ensemble

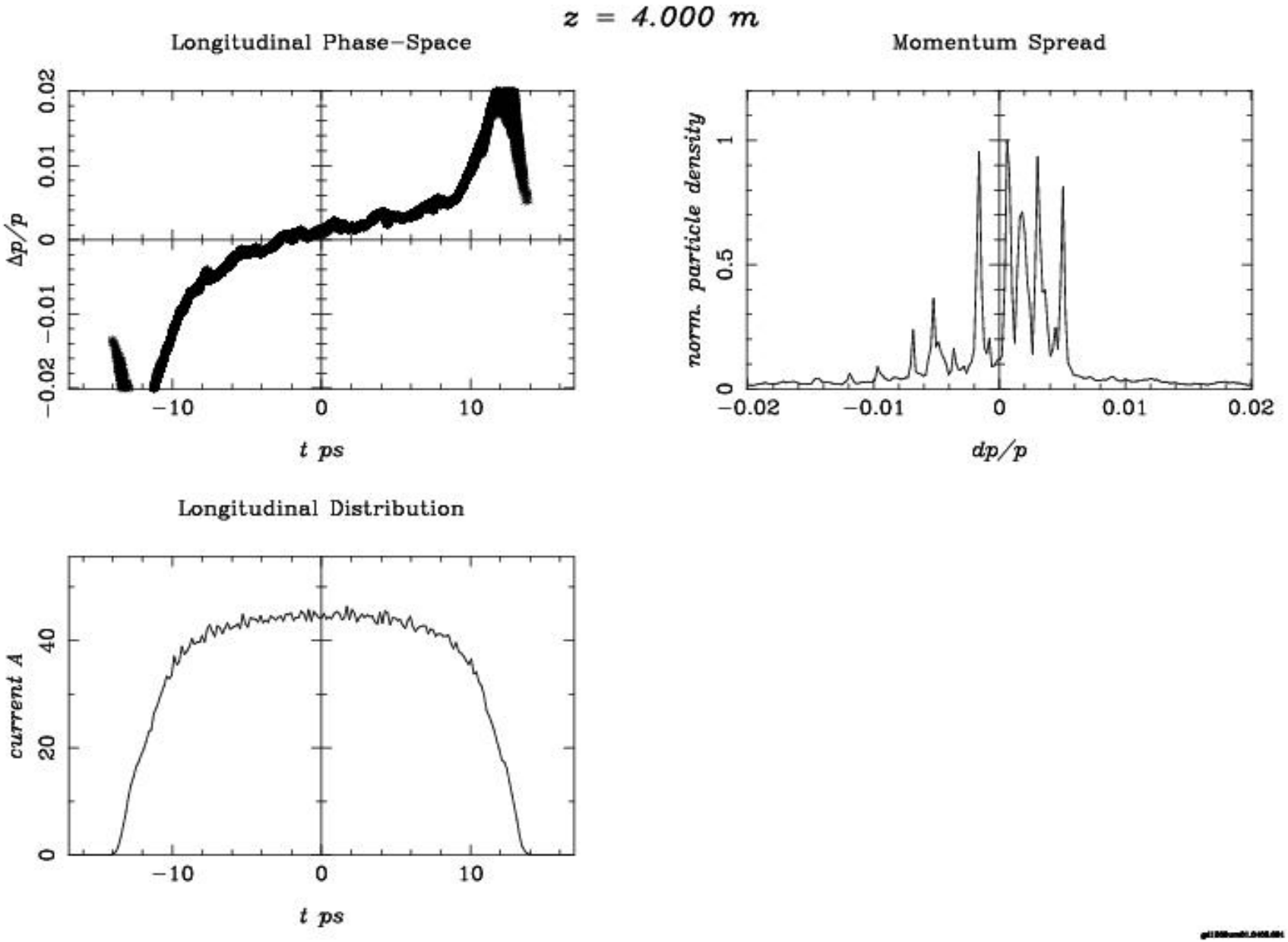
Q=1 nC
200 k macroparticles
201 longitudinal slices



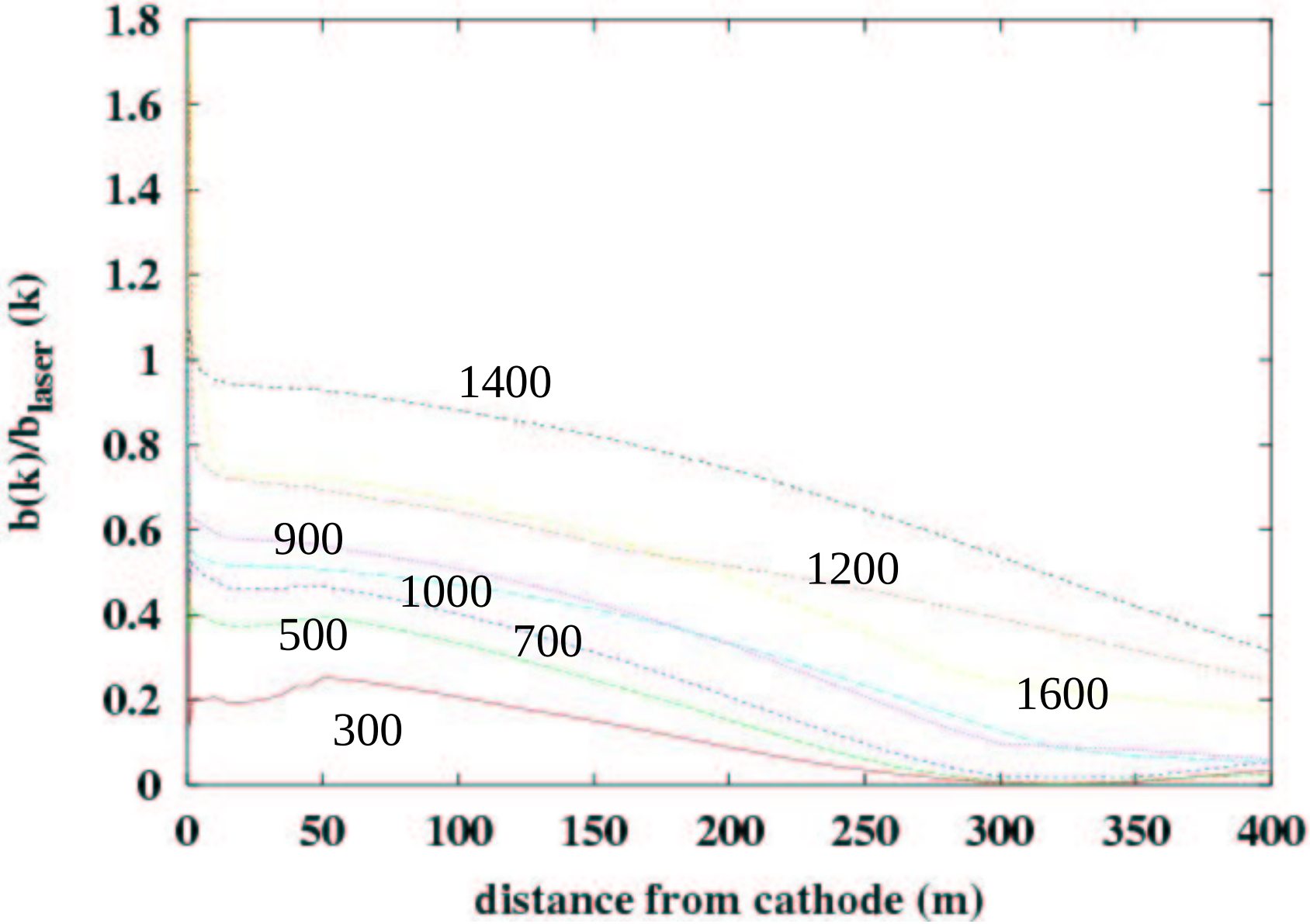
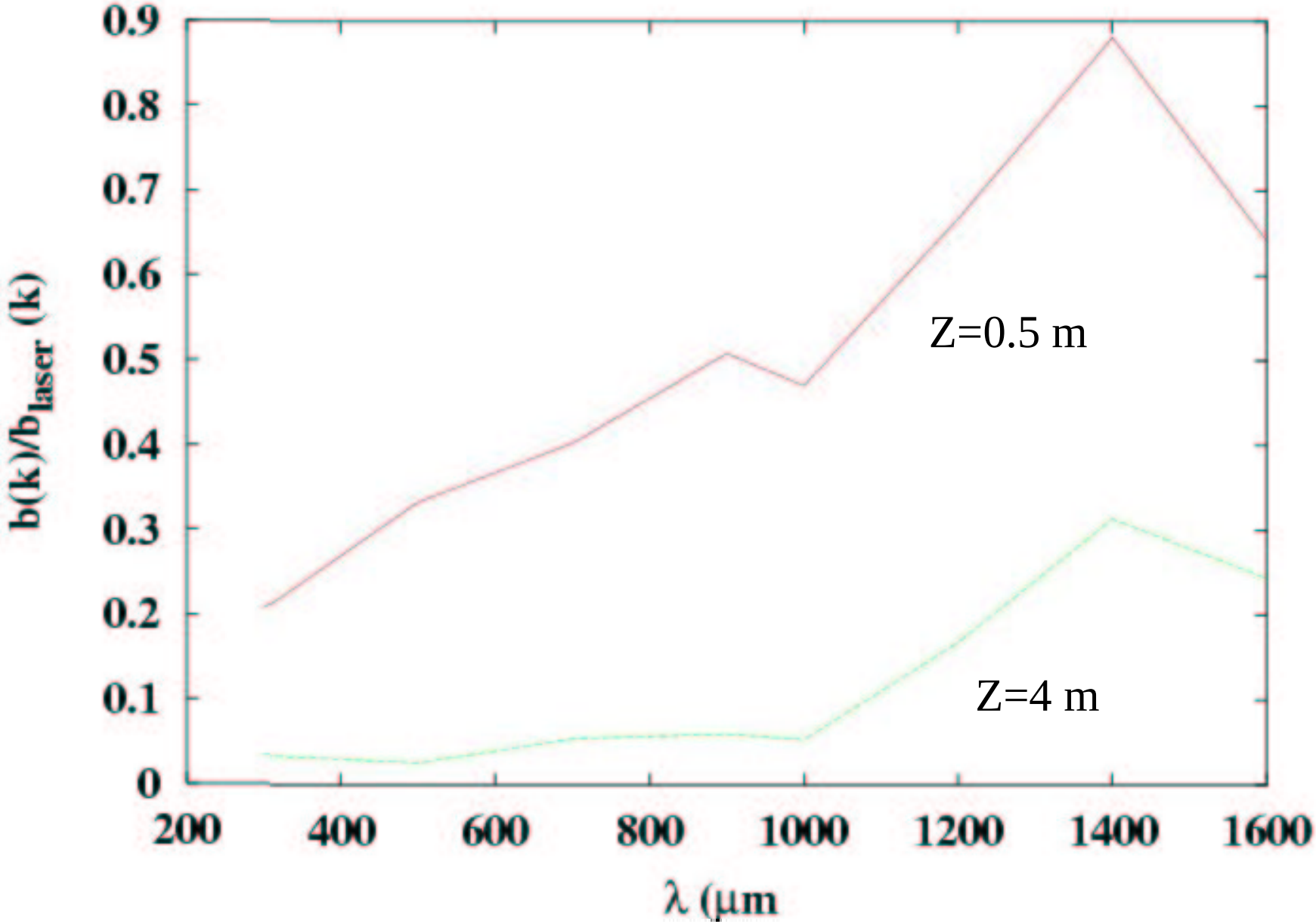
An example of initial phase space



Final phase space



Normalized bunching factor as a function of modulation wavelength (amplitude of initial modulation is 10%)



Normalized bunching factor versus modulation wavelength
(amplitude of initial modulation is 10%)