

Lectures

Exercises/Home work problems

Ordinary differential equations

Linear dynamics

E1

Non-linear dynamics

E2

Molecular dynamics

H1a/H1b

Stochastic methods

Monte Carlo integration

E3

Metropolis algorithm

H2a/H2b

Brownian dynamics

E4

Partial differential equations

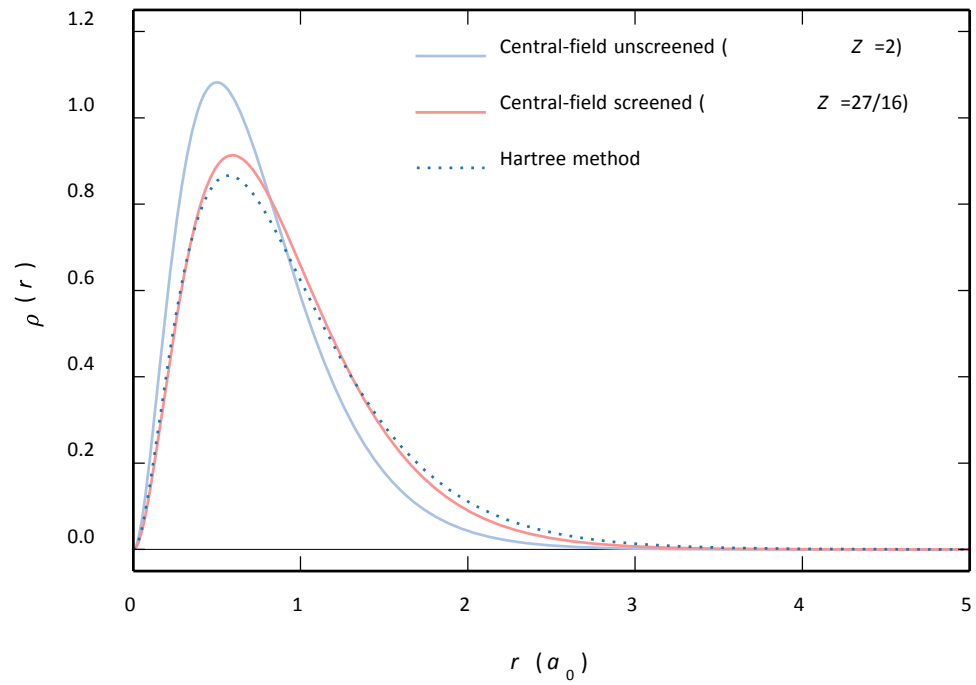
Quantum structure

E5

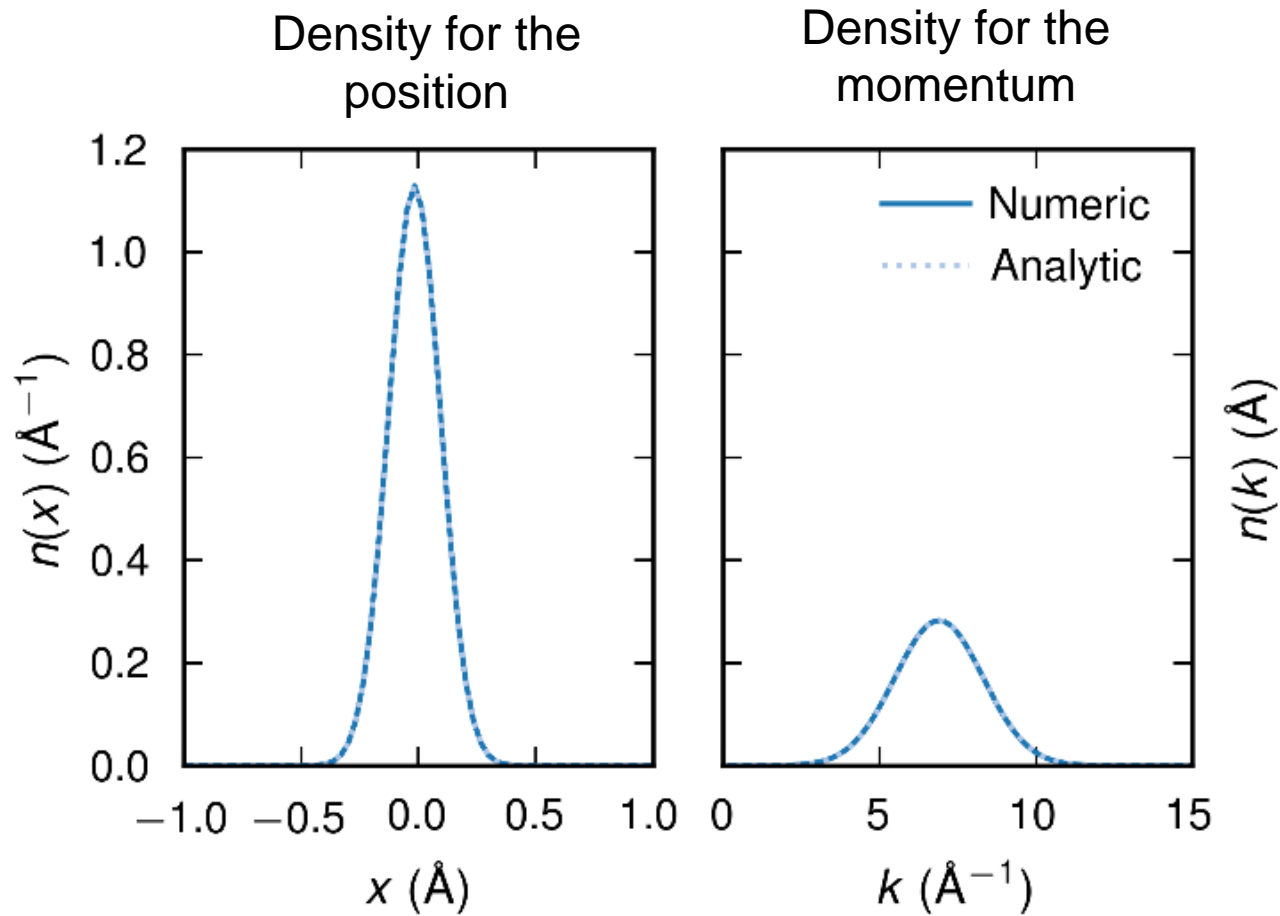
H3a

Quantum dynamics

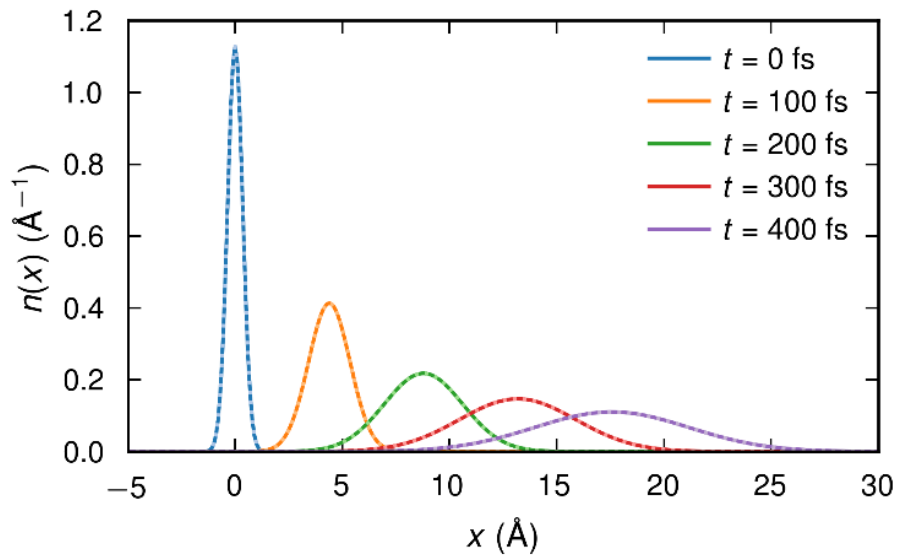
H3b



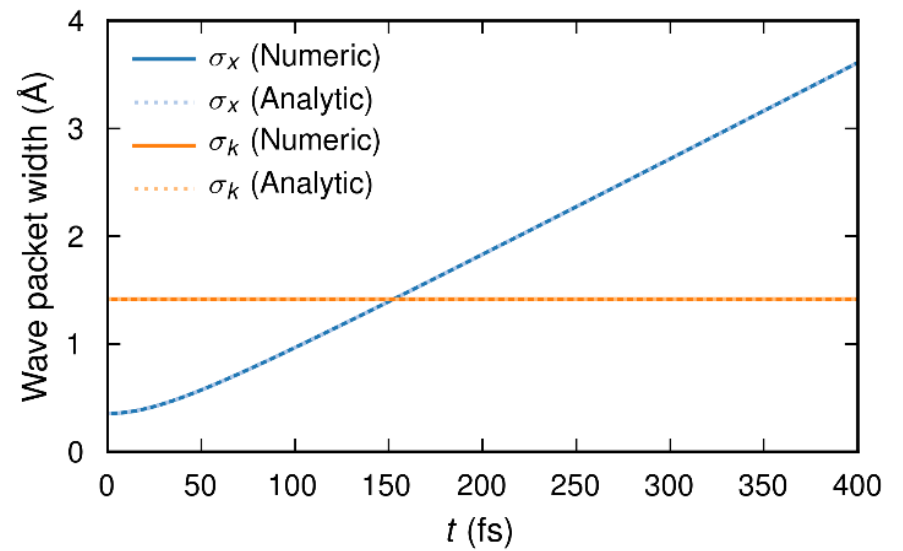
Gaussian wave-packet



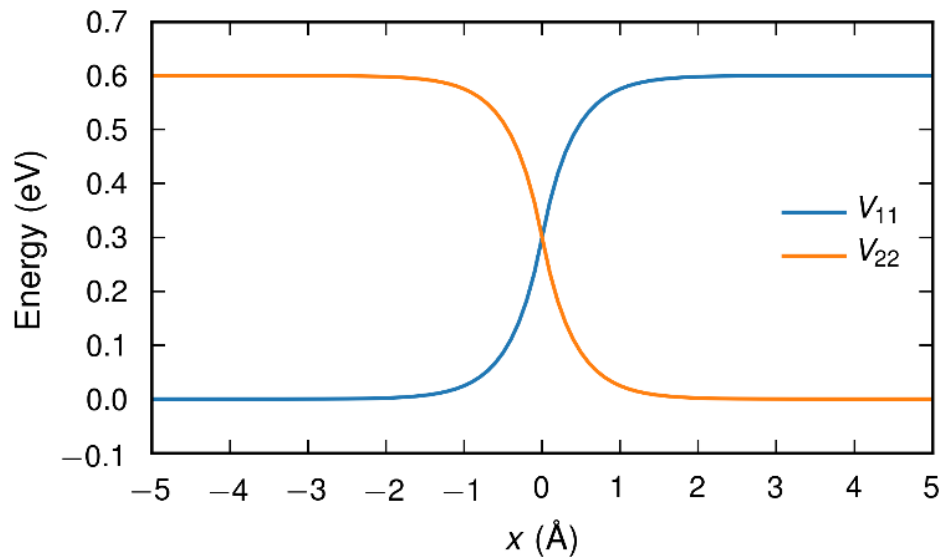
Time-evolution of the wavepacket



Time-evolution of the widths



Diabatic potential energy surfaces



Adiabatic potential energy surfaces

