

Bojer Madsen:

Spectra and Dynamics

In the first part of the talk, the theory of tunneling ionization of molecules will be described. In particular, the weak-field asymptotics of the theory where analytical results are available, will be discussed.

In the second part of the talk, an approach based on the coupled-cluster method will be outlined for the time-dependent many-electron problem and first numerical experiments will be presented.