

Electron dynamics at surfaces and nanostructures

P.M. Echenique

*Dpto. de Física de Materiales UPV-EHU, Donostia International Physics Center (DIPC) and
Material Physics Center (CFM), P. Manuel de Lardizabal 4, 20018 San Sebastián, Basque
Country, Spain*

Femtosecond and subfemtosecond time scales typically rule electron dynamics at metal surfaces. Recent advances in experimental techniques allow the experimental study of such dynamics. In this talk we shall analyze electron dynamics at surfaces and nanostructures with emphasis on screening times, spin dependence of charge transfer of adsorbates and smaller system sizes. Condensed matter effects on attophysics will also be discussed.