

seminars

Tuesday 28th March 2017 12:00h

c/Faraday, 9
Conference Hall
Imdea Nanociencia
Ciudad Universitaria de Cantoblanco

Seeing is Believing: Atoms, Molecules, Exotic
Electrons

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In this talk, I will briefly overview my development of SPM microscopes and subsequent research on force mapping, sub-molecular resolution, and atomic manipulation. I will particularly focus on measurements quantifying the energy to move an atom. I will then discuss exotic electron systems, beginning with an introduction to hot-electron stability and catastrophe in InAs nano-wires and topologically protected states in a weak topological insulator.

This will be followed with preview of data taken on a putative topological insulator, BiTeCl, before ending with some recent analysis on peculiar observations of Graphene's Dirac electrons

Nanociencia y Nanotecnología: lo pequeño es diferente
Nanoscience and Nanotechnology: small is different