

**Dr. Sandra García Gil**

Université Paris Sud, France  
26/09–29/09/2011  
DFT characterization of solid surfaces and interfaces: from metallic and semiconducting to H adsorption on silicates.

**Dr. José Ignacio Latorre**

Universitat de Barcelona, Spain  
05/10–06/10/2011  
Speed of light vs speed of neutrinos

**Dr. Stephen G. Hickey**

Technische Universität Dresden, Institut für Physikalische Chemie und Elektrochemie, Germany  
05/10–08/10/2011  
Semiconductor nanoparticles: their synthesis and attachment to substrates for optoelectronic characterisation.

**Dr. Laura Serkovic Loli**

Université de Nancy, France  
16/10–19/10/2011  
Reconstruction of the (001) Al<sub>2</sub>Cu surface + Adsorption of EP-PTCDI molecules on Si(111) 7x7 and Ag(111).

**Prof. Alexander Protogenov**

Russian Academy of Sciences, Russia  
31/10–30/11/2011  
Transport properties of 3D topological insulators

**Prof. Thomas Fauster**

Universität Erlangen-Nürnberg, Erlangen, Germany  
04/10–06/10/2011  
Image-potential states on graphene layers.

**Prof. Gregor Schiwietz**

Helmholtz Zentrum, Berlin, Germany  
04/10–07/10/2011  
Electron emission from surfaces and solids

**Prof. Michel Côté**

Université de Montréal, Canada  
19/10–20/10/2011  
Electronic properties of polymers for photovoltaic applications.

**Prof. Viktor Antonov**

Institute of Metal Physics, National Academy of Sciences, Kiev, Ukraine  
24/10–31/10/2011  
Topological insulators.

**Prof. Jeremy Baumberg**

Cavendish Laboratory, University of Cambridge, United Kingdom  
24/10–26/10/2011  
Nanophotonics

**Dr. Carlos Andrés Palma**

Max-Planck-Institut für Polymerforschung, Mainz, Germany  
31/10–14/11/2011  
Photodissociation of molecules in gas phase: An ab-initio study.

**Doctorand Carlo Motta**

Università di Milano-Bicocca, Italy  
03/11–29/11/2011  
Ab initio study of transport in nanojunctions: application to dye-sensitized solar cells.

**Prof. Ivan P. Chernov**

Politechnic University of Tomsk, Russia  
14/11–24/11/2011  
Dynamics of hydrogen in metals under external irradiation.

**Prof. Peter Nordlander**

Rice University, Houston, USA  
17/11–22/11/2011  
Fano resonances in plasmonics.

**Prof. Andrei Borisov**

Université Paris Sud, France  
17/11–19/11/2011  
Time dependent density functional theory calculations to address the optical response of plasmonic systems.

**Dr. Paolo Sessi**

University of Würzburg, Germany  
17/11–19/11/2011  
Topological insulator.

**Prof. Nicolas Lorente**

Centro de Investigación en Nanociencia y Nanotecnología (CIN2-CSIC), Bellaterra, Spain  
21/11–25/11/2011  
Inelastic electron tunnelling spectroscopy.

**Dr. Guido Fratesi**

Università di Milano-Bicocca, Italy  
21/11–24/11/2011  
Strain effect on electronic and structural properties of metal nanoislands grown on reconstructed Au(111).

**Doctorand Manuel Monasterio Jaqueti**

Universidad Politécnica de Madrid, Spain  
24/11–25/11/2011  
Characterization of Nanowires.

**Prof. Sydney Brenner**

Howard Hughes Medical Institute, Janelia Farm Campus, Virginia, USA  
27/11–29/11/2011  
Reading the Human Genome: the reconstruction of the past.

## Theses

2010

Molecular dynamics of poly(ethylene-alt-propylene) melts by means of neutron scattering and simulations: Bridging the gap between fully atomistic and coarse-grained models

**Roberto Perez Aparicio** (UPV/EHU)  
Supervisors: Juan Colmenero and Fernando Alvarez  
June 2010

Doped quantum dots and MnAs wires

**Carlos Echeverria-Arrondo** (Universidad Pública de Navarra)  
Supervisor: Andres Ayuela  
June 2010

Dielectric and mechanical properties of polymers at macro and nanoscale

**Clement Riedel** (Université Montpellier 2 - UPV/EHU)  
Supervisor: M. Philippe Tordjeman and Juan Colmenero  
October 2010

Structural relaxation and chain dynamics in polymer melts: a computational investigation on the role of the intramolecular barriers

**Marco Bernabei** (UPV/EHU)  
Supervisor: Angel José Moreno Segurado  
April, 2011

The structure and the dynamics of poly(vinyl methyl ether) PVME and PVME in concentrated water solution

**Sara Capponi** (UPV/EHU)  
Supervisors: Arantxa Arbe and Juan Colmenero  
May 2011

First principles study of the electronic and magnetic properties of defective carbon nanostructures

**Elthon José Gomes Santos** (UPV/EHU)  
Supervisors: Daniel Sánchez Portal and Andres Ayuela Fernández  
July 2011

Optical properties and high-frequency electron transport in plasmonic cavities

**Olalla Pérez González** (UPV/EHU)  
Supervisors: Nerea Zabala and Javier Aizpurua  
October 2011

Resonant Raman-Brillouin Scattering in Semiconductor and Metallic Nanostructures: From Nano-Acoustics to Acousto-Plasmonics

**Nicolas Large** (UPV/EHU)  
Supervisors: Javier Aizpurua and Adnen Mlayah  
October 2011

Functionalized polymers as a tool for investigating the component dynamics of polymer blends

**Sandra Plaza García** (UPV/EHU)  
Supervisor: Angel Alegría  
December 2011

2011