

Seminars

21/01/2014

Optical forces produced by localized sources.

Dr. Iñigo Liberal Olleta

Universidad Pública de Navarra, Pamplona, Spain

21/01/2014

Optical forces produced by localized sources.

Prof. Iñigo Ederra Urzainqui

Universidad Pública de Navarra, Pamplona, Spain

24/01/2014

Quantum transport in defected carbon-nanotubes.

Dr. Dario Bercioux

Dahlem Center for Complex Quantum Systems, Freie Universitaet Berlin, Germany

30/01/2014

Recent developments in black holes physics and astrophysics.

Prof. Jean-Pierre Luminet

Observatoire de Paris, LUTH, Meudon, France

06/02/2014

Interaction effects in magnetoplasmonics nanodisks.

Prof. Gaspar Armelles

Instituto de Microelectrónica de Madrid. IMM (CNM-CSIC), Madrid, Spain

18/02/2014

Towards a comprehensive model of surface enhanced raman scattering (SERS).

Prof. Andreas Otto

Universität Düsseldorf, Germany

28/02/2014

Impulsando la investigación.

Prof. Andreu Mas Colell

Consejero de Economía y Conocimiento, Gobierno de Cataluña, Spain

07/03/2014

Building nanographenes by organic synthesis in solution.

Dr. Diego Peña Gil

Universidad de Santiago de Compostela, Spain

28/03/2014

Spins in quantum dots: quantum information and open systems dynamics.

Dr. Geza Giedke

Max-Planck-Institut für Quantenoptik, Garching, Germany

16/04/2014

Functionalities from corrugated hexagonal boron nitride monolayers.

Prof. Jürg Osterwalder

University of Zurich, Switzerland

30/04/2014

The molecular structure of ice grain boundaries and its role in the dynamics of polar ice sheets.

Prof. Nobuhiko Azuma

Nagaoka University of Technology, Nagaoka, Japan

09/05/2014

Nanoscience for studying the cosmos.

Prof. José Angel Martín Gago

Centro de Física de Materiales de Madrid, ICMM-CSIC, Madrid, Spain

13/05/2014

Cerium oxide surfaces reducibility and catalytic function: the role of electron localization?

A theoretical perspective.

Prof. M. Verónica Ganduglia Pirovano

Instituto de Catálisis y Petroquímica, CSIC, Madrid

14.13/05/2014

Effects of the interaction between localized surface plasmons and rare-earth ion based solid-state gain media.

Prof. Luisa Bausa

Instituto de Ciencia de Materiales Nicolas Cabrera, Universidad Autónoma de Madrid, Spain

15.16/05/2014

Spin-charge conversion in interfacial electron liquids.

Prof. Giovanni Vignale

University of Missouri, Columbia, USA

16.19/05/2014

One dimensional pi-conjugated band dispersion in polymeric chains.

Guillaume Vasseur

Institut Jean Lamour, Université de Lorraine-CNRS, France

17.21/05/2014

Discotic liquid crystals of nanographenes. Self-assembly and molecular dynamics.

Prof. Georgios Floudas

University of Ioannina, Greece

21/05/2014

Max-Planck-Gesellschaft: Measures for international cooperation.

Prof. Michaela Zimmermann

Max Planck Institut, International Division Society, München, Germany

22/05/2014

Unified theory of activated relaxation in molecular and polymeric liquids over 14 decades in time.

Prof. Kenneth S. Schweizer

University of Illinois, Urbana, USA

23/05/2014

Particle diffusion, topological entanglements and slow macromolecular dynamics in polymer nano-composites.

Prof. Kenneth S. Schweizer

University of Illinois, Urbana, USA

30/05/2014

Composite magnetic systems created by atom manipulation.

Dr. Deung-Jang Choi

Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany

06/06/2014

Real-time electron dynamics with correlated wavefunction methods.

Prof. Peter Saalfrank

Institut für Chemie, Universität Potsdam, Potsdam-Golm, Germany

10/06/2014

Modelling single molecule circuits.

Dr. Héctor Vázquez Melis

Institute of Physics, Academy of Sciences of the Czech Republic, Praga, Czech Republic

12/06/2014

How do you measure the symmetry of a molecule?

Prof. Pere Alemany Cahner

Universitat de Barcelona, Spain

27/06/2014

Long-range magnetic coupling between nanoscale organic-metal hybrids mediated by a nanoskymion lattice.

Dr. Jens Brede

Institute of Applied Physics and Interdisciplinary Nanoscience Center Hamburg, Germany

01/07/2014

Unravelling morphologies and chemical ordering at the nanoscale.

Dr. Francesca Balleto

King's College London, United Kingdom

04/07/2014

Dynamic Hubbard model, high temperature superconductivity and the Meissner effect.

Prof. Jorge E. Hirsch

University of California, San Diego, USA

07/07/2014

Reliable energy and charge distribuion behavior of molecular and nanoscopic electronic states.

Prof. Luis Alberto Montero Cabrera

Facultad de Química, Universidad de la Habana, Cuba

11/07/2014

Mapping microscopic viscosity using molecular rotors.

Dr. Marina K Kuimova

Imperial College London, United Kingdom

17/07/2014

Realistic calculations of the isotopic fractionation factors of Si and Li for equilibriums involving liquid phases.

Romain Dupuis

CEMES/CNRS, Toulouse, France

18/07/2014

Electronic transport in chemically modified and in amorphous graphite.

Prof. Pablo Ordejón Rontomé

Centre d'Investigació en Nanociència i Nanotecnologia (CSIC-ICN), Bellaterra, Barcelona, Spain

23/07/2014

Optical forces: a link between classical and quantum mechanics.

Dr. Mathieu Juan

University Macquarie, Sidney, Australia

29/07/2014

Some aspects of spintronics in two-dimensional materials.

Dr. Miguel Angel Cazalilla

National University Singapore

30/07/2014

Have primordial gravitational waves been detected by BICEP2?

Prof. Jon Marcaide Osoro

Universidad de Valencia, Burjassot, Spain

07/08/2014

Enhancing bulk superconductivity by engineering granular materials.

Dr. Antonio Garcia Garcia

University of Cambridge, United Kingdom and IFT, Universidade de Lisboa, Portugal

21/08/2014

Nanoplasmonics meets Bio.

Prof. Jochen Feldman

Lehrstuhl für Photonik und Optoelektronik, Ludwig-Maximilians-Universität München, Germany

26/08/2014

Magnetism of molecules on metal and superconducting surfaces.

Dr. Benjamin W. Heinrich

Institut für Experimentalphysik, Freie Universität, Berlin, Germany

12/09/2014

A combined quantum chemical/statistical mechanical method to simulate solvated systems in ground and excite state.

Prof. José Manuel Hermida Ramón

Universidad de Vigo, Spain

18/09/2014

Two-dimensional colloidal nanostructures: synthesis and electrical transport.

Prof. Christian Klink

Institute of Physical Chemistry, University of Hamburg, Germany

18/09/2014

Seeing is believing - Novel in situ techniques for studies of model catalysts.

Dr. Johan Gustafson

Synchrotron Radiation Research, Lund University, Sweden

13/10/2014

Silicene and other honeycomb crystals from first principles.

Prof. Friedhelm Bechstedt

Friedrich-Schiller-Universität Jena, Institut für Festkörpertheorie und –optik, Jena Germany

13/10/2014

Structure analysis of clean and adsorbate covered Bi₂Se₃ using x-ray diffraction and x-ray absorption spectroscopy.

Dr. Holger L. Meyerheim

Max-Planck-Institut für Mikrostrukturphysik, Halle, Germany

14/10/2014

Fundamental physics on the international space station.

Prof. Manuel Aguilar Benitez De Lugo

CIEMAT, Madrid, Spain

14/10/2014

Deconstructing mass.

Prof. Luis Alvarez Gaumé

CERN, Geneve, Switzerland

15/10/2014

Colliding words - creative collisions between arts and science.

Ariane Koek

CERN, Meyrin, Canton de Genève, Switzerland

20/10/2014

Some surface plasmon assisted nonlinear anomalies in a gold film at room temperature.

Prof. Norbert Kroo

Wigner Physics Research Center of the Hungarian Academy of Sciences, Budapest, Hungary

29/10/2014

Surface science and plasmonics with infrared light.

Prof. Annemarie Pucci

Ruprecht Karls University of Heidelberg, Germany

Workshops

27/11/2014

A molecular interactions? Roadmap to 2D functional nanostructures.

Dr. Magali Lingenfelder

Max Planck-EPFL Laboratory for Molecular Nanoscience EPFL, Lausanne, Switzerland

04/12/2014

Physics of a few magnetic atoms adsorbed on a surface.

Fernando Delgado

CFM, Donostia-San Sebastián, Spain

05/12/2014

Are polarization and Magnetization Really Bulk Properties?

Prof. Raffaele Resta

Università di Trieste, Trieste, Italy

16/12/2014

Spin-orbitronics, a new direction for spintronics: magnetic skyrmions, spin-orbit effects in 2D electron gas at surfaces and interfaces.

Prof. Albert Fert

Unité Mixte de Physique CNRS/Thales, France

5th International Workshop on Photoluminescence in Rare Earths (PRE'14): Photonic Materials and Devices

May 13-16, 2014

Palacio Miramar, Donostia-San Sebastián, Spain

ORGANIZERS

Joaquin Fernandez (UPV/EHU, Spain)

Rolindes Balda (UPV/EHU, Spain)

This series of workshops started in 2005. It provides a forum for material scientists, chemists and physicists to discuss state of the art photonic materials based on rare earth ions. Both fundamental photoluminescence properties and application oriented material investigations are considered. Our main topics are:

Fundamental photoluminescence properties and spectroscopic measurements

Modelling, first-principles calculations, etc.

Photonic devices exploiting rare-earths characteristics

Rare-earth-doped crystalline materials

Transparent ceramics and glass-ceramic materials

Rare-earth optical amplifiers for telecommunication

Fiber lasers and micro-chip lasers

Phosphor materials for Solid-state Lighting

Downconvertors for photovoltaic applications

Rare-earth-doped materials for biological applications

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