



Experience

Motion



Visiting Researchers

Long Visits 2006

Doctorand Carlos Etxeberria Arrondo
Universidad Pública de Navarra, Spain
01/10–31/12/2006
Quantum dots based on magnetic semiconductors.

Dr. Andrew F. Ho
University of Birmingham, United Kingdom
01/02–28/02/2006
Effects of disorder in one-dimensional quantum liquids, and phase diagram of binary mixtures of one-dimensional harmonic fluids.

Prof. Wolfgang Schattke
Christian-Albrechts-Universität zu Kiel, Germany
07/02–06/05/2006
Variational Quantum Montecarlo calculations of the electronic properties of solids and surfaces. Theory of Photoemission in semiconductors and metals.

Prof. Victor Tugushev
Russian Research Center, Kurchatov Institute, Moscow, Russia
28/03–26/05/2006
Magnetism in superlattices and spintronics.

Prof. Norman March
Universiteit Antwerpen, Belgium
12/04–03/06/2006
Study of the role of exchange and correlation effects in both ground state density functional theory as well for excitation within time-dependent density-functional theory.

Dr. Yuri Koroteev
Tomsk State University, Russia
27/04–27/07/2006
First principles calculations of electronic structure and quasiparticle lifetimes in metals.

Dr. Claudio Horowitz
Centro Atómico Bariloche, Argentina
03/05–30/06/2006
Optimized effective-potential approach to the Kohn-Sham exchange-correlation potential of density-functional theory.

Dr. Jin Zhao
University of Pittsburgh, Pennsylvania, USA
31/05–30/06/2006
Electronic properties of alkalis on the surface of noble metals.

Dr. Andrey Borissov
 Université Paris-Sud 11, France
 01-30/06, 01/11-02/12/2006
 Time-dependent density functional theory and wave packet propagation methods.

Prof. Julio Alonso
 Universidad de Valladolid, Spain
 16/06-30/09/2006
 Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

Dr. Lucian Constantin
 Tulane University, Louisiana, USA
 01/07-30/09/2006
 Many-body exchange-correlation effects at metal surfaces.

Dr. Vladimir Menshov
 Russian Research Center, Kurchatov Institute, Moscow, Russia
 02/10-30/11/2006
 Confling mechanisms in digital alloys.

Prof. Martti Puska
 Helsinki University of Technology, Finland
 03/10-31/03/2006
 Lifetimes of electron-hole excitations at nanostructures on solid surfaces.

Prof. Jacques Lucas
 Université de Rennes, France
 16/11-16/12/2006
 New infrared glasses for photonic application.

Long Visits 2007

Prof. Istvan Nagy
 Technical University of Budapest, Hungary
 08/01-08/02, 02-31/05/2007
 Various aspects of correlations in extended fermionic systems; spice-fluctuation, pair-correlation, one-particle damping, impurity-screening.

Dr. Galina Rusina
 Russian Academy of Sciences, Tomsk, Russia
 24/01-22/03/2007
 Surface phonons in CuPd surface alloys.

Dr. Andrey Borissov
 Université Paris Sud, France
 01/03-30/04/2007
 Time-dependent density functional theory and wave packet propagation methods.

Dr. Yuri Koroteev
 Tomsk State University, Russia
 20/03-18/06/2007
 First principles calculations of electronic structure and quasiparticle lifetimes in metals.

Prof. Wolfgang Schattke
 Universität Kiel, Germany
 26/03-14/05, 15/10-15/12/2007
 Variational Quantum Montecarlo calculations of the electronic properties of solids and surfaces. Theory of Photoemission in semiconductors and metals.

Doctorand Nicolas Large
 Université Paul Sabatier, Toulouse, France
 15/04-15/05/2007
 Raman spectroscopy in low dimensional semiconductor structures.

Prof. Norman March
 Universiteit Antwerpen, Belgium
 17/04-09/06/2007
 Study of the role of exchange and correlation effects in both ground state density functional theory as well for excitation within time-dependent density-functional theory.

Dr. Cristina Díaz Blanco
 Leiden University, The Netherlands
 21/05-22/06/2007
 Surface dynamics.

Prof. Sergey Eremeev

Institute of Strength Physics and Materials Sciences, Tomsk, Russia

25/05–22/07/2007

Phonons and electron-phonon coupling in quantum-well states of adlayers on metals.

Prof. Svetlana Borisova

Russian Academy of Sciences, Tomsk, Russia

22/05–22/07/2007

Phonones in metal adlayers.

Prof. Julio Alonso Martin

Universidad de Valladolid, Spain

19/06–31/08/2007

Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

Dr. Ilya Nechaev

Kostroma State University, Russia

20/06–16/09/2007

Electron excitations in ferromagnetic materials.

Prof. Vladimir Menshov

Russian Research Center, Kurchatov Institute, Moscow, Russia

02/07–29/09/2007

Confling mechanisms in digital alloys.

Prof. Hrvoje Petek

University of Pittsburgh, Pennsylvania, USA

22/07/–31/10/2007

Electron dynamics in time domain.

Prof. Viktor Tugushev

Russian Research Center, Kurchatov Institute, Moscow, Russia

02/08–26/10/2007

Magnetism in superlattices and spintronics.

Prof. Włodzimierz Jaskólski

Institute of Physics, Nicholas Copernicus University, Poland

13/08–23/09/2007

Study of quantum dot arrays and nanotube superlattices.

Prof. Andrey Kazanskiy

University of San Petersburg, Russia

20/09–10/12/2007

Electron dynamics at adsorbates on metals.

Prof. Giorgio Benedek

Università degli Studi di Milano, Italy

01/10–31/10/2007

Surface phonons and phase transitions.

Prof. Amand Lucas

FUNDP, Namur, Belgium

01–31/10/2007

Condensed matter physics, surface sciences, electronic and atomic structures of reduced dimensionality systems. structural biology.

Prof. Max Roesler

Hahn-Meitner Institut, Berlin, Germany

01/10–30/11/2007

Electron emission induced by atomic particles interacting with solids and surfaces.

Dr. Igor Shein

Russian Academy of Sciences (Ural Branch), Yekaterinburg, Russia

02/11–28/12/2007

The band structure approach to activation barriers in metal oxides.

Short Visits 2006

Cecile Corriol

University of Liverpool, United Kingdom

02–04/01/2006

Using first-principle calculations applied to STM image simulations, we want to understand the influence of the tunneling resistance and of the coverage on the aspect of the simulated and experimental images for adsorbate-covered systems as O/Ru(0001). In doing so, we try to unravel the intricate interplay between electronic effects and surface geometry. The inclusion of forces between sample atoms and tip atoms is also an objective of our work. Finally, we are involved in tunneling spectra calculations.

Prof. Istvan Nagy

Technical University of Budapest, Hungary

09/01–04/02, 10/05–09/06, 21/08–20/09/2006

Various aspects of correlations in extended fermionic systems; spin-fluctuation, pair-correlation, one-particle damping, impurity-screening.

Prof. Michael Rohlfing

International University Bremen, Germany

10–13/01/2006

Dynamics of excited electron states.

Dr. Javier García de Abajo

Centro de Física de Materiales-CSIC, Spain

12–13/01, 06–07/02, 15–16/02, 22–23/02, 01–02/03, 14–15/03, 08–09/08, 18–19/09/2006

Simulation of optical properties of complex structures including porous metals and non-spherical nanoparticles. Study of the response of nanostructures and its interaction with fast electron. Simulation of electron-energy loss spectroscopy, cathodoluminescence, and Cherenkov radiation in complex systems.

Dr. Jorge Iribas Cerdá

Instituto de Ciencia de Materiales de Madrid-CSIC, Spain

03/02, 24–28/07/2006

STM studies of water on Pd(111) and Ru(0001).

Dr. Romain Quidant

Institut de Ciències Fotòniques, Spain

06/02/2006

Nanophotonics of patterned systems.

Prof. Gonçal Badenes Guia

Institut de Ciències Fotòniques, Spain

06/02/2006

Nanophotonics of patterned systems.

Dr. Yamila García

Universidad de Alicante, Spain

08–12/02/2006

Theory of electronic transport through molecular junctions.

Dr. Viktor Myroshnychenko

Charles University in Prague, Czech Republic

14–17/02/2006

Plasmons and collective excitations in complex electronic systems.

Prof. Miguel Ortuño Ortín

Universidad de Murcia, Spain

16–17/02/2006

Relaxation phenomena in interacting systems.

Prof. Olov Sterner

Lund University, Sweden

23–26/02/2006

Study of natural compounds with surfactant properties, that transmit biological signals along ultrathin water films on the surface of fungal cells.

Prof. Pedro Zeijlmans van Emmichoven

Universiteit Utrecht, The Netherlands

23–27/02/2006

Magnetic dipolar interactions in two-dimensional magnetite nanoparticle arrays.

Prof. Peter Lawrence

MRC Laboratory of Molecular Biology, Cambridge, United Kingdom

27–28/02/2006

Why we do science — a personal history.

Prof. Gines Morata Perez

Universidad Autónoma de Madrid, Spain

27–28/02/2006

The three revolutions in Biology.

Dr. Alexey Lyulin

Eindhoven University of Technology, The Netherlands

28/02–03/03/2006

Computer simulation studies (molecular and Brownian dynamics, Monte Carlo) of polymers.

Prof. Sir John Pendry

Imperial College London, United Kingdom

01–03/03/2006

The perfect lens — focusing beyond the diffraction limit.

Prof. Richard M. Martin
 University of Illinois at Urbana-Champaign, USA
 05–08/03/2006
 Methodology for electronic structure calculations.

Dr. Reveka Sainidou
 University of Athens, Greece
 16–15/03/2006
 Ordered and disordered phononic structures: the layer-multiple-scattering method and applications.

Prof. Agustin del Moral Gamiz
 Universidad de Zaragoza, Spain
 18–20/03/2006
 Magnetostriction and magnetism in strongly correlated systems.

Dr. Leonhard Grill
 Freie Universität Berlin, Germany
 24/03/2006
 Contacting single molecules with the STM: model systems for molecular electronics.

Prof. Vladimir Nazarov
 Chonnam National University, Kwangju, Korea
 03–29/04/2006
 Time-dependent density-functional theory of particle-solid interactions.

Dr. Nicolas Lorente
 Université Paul-Sabatier, Toulouse, France
 03–29/04/2006
 Inelastic electron tunneling spectroscopy.

Dr. Marie Laure Bocquet
 Laboratoire de chimie, École normale supérieure de Lyon, France
 05–09/04/2006
 Inelastic Electron Tunneling Spectroscopy from First-Principles.

Dr. Martina Corso
 Universität Zürich, Switzerland
 05–09/04, 12–16/12/2006
 Boron nitride nanomesh: a peculiar self-assembled nanostructure.

Prof. José Luis Vicent López
 Universidad Complutense de Madrid, Spain
 06–07/04/2006
 Vortex dynamics in nanostructured superconductors: Ratchet effect and biological motors.

Prof. Julio Alonso
 Universidad de Valladolid, Spain
 07–16/04/2006
 Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

Dr. Gilberto Teobaldi
 University of Liverpool, United Kingdom
 23–27/04, 29/11–03/12/2006
 Single-molecule vibrational spectroscopy on metal-oxides.

Prof. Neil William Ashcroft
 Cornell University, New York, USA
 30/04–27/05/2006
 Theory of many particle systems, density functional, theory (classical and quantum), and theory of dense hydrogen and matter under extreme conditions.

Dr. Rolf Heid
 Forschungszentrum Karlsruhe, Germany
 02–05/05/2006
 Lattice dynamics of adsorbate-covered surfaces from first principles.

Dr. Roman Fasel
 EMPA, Dübendorf, Switzerland
 10–12/05/2006
 Amplification of chirality in two-dimensional enantiomorphous lattices.

Dr. Pascal Ruffieux
 EMPA, Thun, Switzerland
 10–12/05/2006
 Surface state scattering from adsorbed molecules.

Prof. Uzi Landman
 Georgia Institute of Technology, USA
 14–15/05/2006
 Small is different: physics and chemistry at the nanoscale.

Prof. Marijan Sunjic
 University of Zagreb, Croatia
 21–27/05/2006
 Dynamical response and surface excitations in thin films.

Prof. Harald Brune
 École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
 23–28/05/2006
 Giant magnetic anisotropy and tunnel-magneto-resistance of nanostructures at surfaces.

Prof. Victor Hugo Ponce
 Centro Atómico Bariloche, Argentina
 01–28/06/2006
 Electron emission in the interaction of light ions with surfaces.

Dr. Peter Johansson
 University of Örebro, Sweden
 07/06–05/07, 10–17/12/2006
 Research on the electromagnetic and quantum mechanical response of molecules and nanoparticles in different configurations of experimental interest (STM, Raman, ...).

Dr. Daniel Rolles
 Lawrence Berkeley National Laboratory, California, USA
 08–10/06/2006
 Photoelectron diffraction in rare-gas clusters.

Prof. Hrvoje Petek
 University of Pittsburgh, Pennsylvania, USA
 10–16/06/2006
 Electron dynamics in time domain.

Dr. Claudia Mondelli
 Institut Laue-Langevin, Grenoble, France
 15–18/06/2006
 Neutrons for material science.

Dr. Miguel Angel Gonzalez Gonzalez
 Institut Laue-Langevin, Grenoble, France and Universidad de Zaragoza, Spain
 15–18/06/2006
 Structure and dynamics of vitreous B₂O₃ and alkali borates: neutron scattering and computer simulations.

Prof. John Inglesfield
 University of Wales Cardiff, United Kingdom
 18–21/06, 28/09–12/10/2006
 Embedding in photonics and plasmon bands in metallic nanostructures.

Dr. Riccardo Rurali
 Universitat Autònoma de Barcelona, Spain
 22–23/06/2006
 Scattering properties of dopants in silicon nanowires from first-principles.

Prof. Roderic Quirk
 The University of Akron, Ohio, USA
 24/06–09/07/2006
 Synthesis of functional polymers.

Dr. Ernest Mendoza Gómez
 Institut Català de Nanotecnologia, Barcelona, Spain
 26/06/2006
 Carbon Nanotubes as platforms for the design of sensors.

Prof. Giorgio Benedek
 Università degli Studi di Milano, Italy
 30/06–06/07/2006
 Surface phonons and phase transitions.

Prof. Bo Hellsing
 Chalmers and Göteborg University, Sweden
 01–30/07/2006
 Electron-phonon interactions on metal surfaces.

Dr. Rainer Hillenbrand
 Max-Planck-Institut, Martinsried, Germany
 02–05/07, 30/09–03/10/2006
 Scattering-type near-field microscopy for optical/infrared nanoanalytics.

Dr. Nengping Wang
 Universität Hamburg, Germany
 05–08/07/2006
 Electromigration forces on ions in carbon nanotube transistors.

Prof. Rodolfo Del Sole
 Università degli Studi di Roma 2, Italy
 09–16/07/2006
 Optical properties of nanostructures and surfaces.

Prof. Joan Bausells Roige
 Centre Nacional de Microelectrònica-CSIC, Barcelona, Spain
 13–15/07/2006
 Nanoelectromechanical structures: principles and applications in signal processing and molecular sensing.

Doctorand Miguel Isla García
 Universidad de Valladolid, Spain
 13–14/07/2006
 Theoretical simulations of the electronic excitations in nanoclusters.

Prof. José A. Maíz Aguinaga
 Intel Corporation, USA
 14/07/2006
 Scaling in future semiconductor devices: challenges and opportunities at the intersection with nanotechnology.

Prof. Emilio Artacho Cortés

University of Cambridge, United Kingdom

15/07–15/08/2006

Electronic stopping power in insulators. LDA+U, SIC, exact-exchange in DFT calculations.

Doctorand Martin Brodeck

IFF-FZ, Forschungszentrum Jülich, Germany

17–21/07/2006

Molecular dynamics simulations and neutron scattering measurements of the strongly decoupled dynamics which are exhibited by the different components of polyethyleneoxide/polymethylmetacrylate blends.

Prof. Mario Trioni

Consiglio Nazionale delle Ricerche, Italy

26–29/07/2006

Electronic and magnetic properties of thin solid film on metals.

Prof. Oleg Pankratov

Universität Erlangen-Nürnberg, Germany

26–29/07/2006

Excitons in Time Dependent Density Functional Theory.

Prof. David Drabold

Ohio University, USA

03–05/08/2006

Topics in the theory of amorphous materials

Prof. Włodzimierz Jaskólski

Institute of Physics, Nicholas Copernicus University, Poland

02–30/09/2006

Study of quantum dot arrays and nanotube superlattices.

Doctorand Paraskevi Driva

University of Athens, Greece

05–30/09/2006

Dendritic PLs

Doctorand Spiros Christodoulou

University of Athens, Greece

05–15/09/2006

Multiblock Multicomponent Copolymers.

Dr. Thomas Frederiksen

Danmarks Tekniske Universitet, Denmark

11–13/09/2006

First-principles modeling of elastic and inelastic transport in nanoscale junctions.

Prof. Archie Howie

Cavendish Laboratory, University of Cambridge, United Kingdom

14–28/09/2006

Theory of valence electron excitations by fast electrons.

Dr. Leonor Chico Gómez

Facultad Ciencias del Medio Ambiente, Toledo, Spain

16–21/09, 18–22/12/2006

Electronic structure calculations in nanotubes.

Dr. Garnett Bryant

National Institute of Standards and Technology, Gaithersburg, USA

16–24/09/2006

Optoelectronic properties of quantum dots and quantum wires.

Dr. Maria Silvia Gravielle

Instituto de Astronomía y Física del Espacio, Universidad de Buenos Aires, Argentina

25–30/09/2006

Atomic collisions and collisions with solids and surfaces.

Prof. Dieter Richter

IFF-FZ, Forschungszentrum Jülich, Germany

30/09–8/10/2006

Polymer dynamics by neutron techniques.

Dr. Uwe Bovensiepen

Freie Universität Berlin, Germany

08–12/10/2006

Ultrafast electron dynamics at interfaces beyond the equilibrium band structure.

Dr. Alberto Verdaguer Prats

Institut Català de Nanotecnologia, Spain

14–17/10/2006

Study of ion segregation at the NaCl/Water surface by scanning probe microscopy and X-ray spectroscopy. Implications for air pollution at coastal areas.

Prof. Friedrich Kremer

Universitaet Leipzig, Germany

02/11–02/12/2006

Broadband dielectric spectroscopy of polymers.

Prof. Slodoban Bosanac

Rudjer Boskovic Institute, Zagreb, Croatia

22–26/11/2006

Limits in cognition.

Dr. Fernando Langa de la Puente
 Universidad de Castilla la Mancha, Toledo, Spain
 23–24/11/2006
 New methods of functionalization of single-wall carbon nanotubes.

Prof. Philippe Tordjeman
 Université Montpellier 2, France
 29/11–01/12/2006
 Scaling effects of tribological properties of silicate materials.

Prof. Carmen Ocal García
 Instituto de Ciencia de Materiales de Barcelona-CSIC, Spain
 15/12/2006
 Molecular structure and electronic transport through monolayer molecular junctions.

Prof. Dimas García de Oteyza
 Max-Planck-Institut, Stuttgart, Germany
 19–21/12/2006
 Organic semiconductors in model systems for plastic electronic devices.

Short Visits 2007

Prof. Peter Dederichs
 IFF-FZ, Forschungszentrum Jülich, Germany
 10–12/01/2007
 Exchange interactions and Curie temperatures in dilute magnetic semiconductors.

Prof. Roderic Quirk
 The University of Akron, Ohio, USA
 13–20/01, 14–21-07-2007
 Synthesis of functional polymers.

Dr. Victor Guallar Tasies
 BSC, Barcelona Supercomputing Center, Barcelona, Spain
 21–22/01/2007
 QM/MM methods: an electronic and atomic view of Nature.

Dr. Stefano Mossa
 ESRF, Grenoble, France
 22–28/01/2007
 Energy landscape of supercooled liquids.

Prof. Heinrich Rohrer
 IBM Zurich, Switzerland
 23/01/2007
 Tunneling microscopy.

Dr. Alexandre Bouhelier
 Université de Bourgogne, Dijon, France
 25–28/01/2007
 Confining photons by electromagnetic field enhancement.

Prof. Alan J. Heeger
 University of California, Santa Barbara, USA
 27/01/2007
 Conducting polymers.

Becario Adolfo Del Campo Echevarria
 Universidad del País Vasco/Euskal Herriko Unibertsitatea, Spain
 31/01/2007
 Quantum gases in low dimensions.

Dr. Javier Sacristán Bermejo

Instituto de Ciencia y Tecnología de Polimeros, Madrid, Spain

04–16/02/2007

Research focuses on the application molecular dynamics methods to study the structure and properties of a variety of polymer on the atomic scale. Bulk, free and confined polymer systems, glass transition in polymer films, static and dynamic properties of thin polymer films.

Prof. Eugene Krasovskii

Universität Kiel, Germany

05–09/02/2007

First-principles calculations of collective excitations in bulk metals.

Dr. Josef Bartos

Polymer Institute of SAS, Bratislava, Slovak Republic

11–24/02/2007

PALS and polymer dynamics.

Prof. Cédric Crespos

Université Bordeaux, France

12–14/02/2007

Gas/surface dynamics: adsorption processes of small molecules at surfaces.

Prof. Pascal Larregaray

Université Bordeaux, France

12–14/02/2007

Gas/surface dynamics: adsorption processes of small molecules at surfaces.

Prof. Ramón Sayós Ortega

Universidad de Barcelona, Spain

12–14/02/2007

Gas/surface dynamics: adsorption processes of small molecules at surfaces.

Dr. Daniel Bozi

ICMM-CSIC, Madrid, Spain

19–23/02/2007

Spectral properties of a low-dimensional correlated metal.

Prof. Cesar Nombela Cano

Universidad Complutense de Madrid, Spain

21/02/2007

Puntos de referencia para una ética de la biotecnología.

Prof. Adnen Mlayah

Université Paul Sabatier, Toulouse, France

22–25/02, 13–14/12/2007

Phonon induced inelastic light scattering.

Dr. Andrew F. Ho

Imperial College London, United Kingdom

24–27/02, 08–16/09/2007

Effects of disorder in one-dimensional quantum liquids, and phase diagram of binary mixtures of one-dimensional harmonic fluids.

Prof. Malcolm J. Stott

Queen's University, Kingston, Canada

05–11/03/2007

Modelling bioactive calcium phosphate ceramics.

Prof. Ivan P. Chernov

Tomsk Polytechnic University, Russia

21–27/03/2007

Dynamics of hydrogen in metals under external irradiation.

Dr. Jessica Lorenzo

Martin-Luther-Universität Halle-Wittenberg, Germany

23/03–12/04/2007

Study of the dynamic of liquid crystalline columnar hexagonal phases composed by amphiphilic dials molecules.

Prof. Julio Alonso Martin

Universidad de Valladolid, Spain

29/03–07/04/2007

Computational simulation of the intercalation of alkaline atoms in graphite and carbon nanotubes. Laser induced fragmentation of atomic clusters.

Prof. Richard Needs

University of Cambridge, United Kingdom

31/03–05/04/2007

Quantum Monte Carlo calculations for electrons in molecules and solids.

Dr. Javier García de Abajo

Instituto de Optica-CSIC Madrid, Spain

10–10/04, 29–31/05, 05–06/06, 04–06/07/2007

Simulation of optical properties of complex structures including porous metals and non-spherical nanoparticles. Study of the response of nanostructures and its interaction with fast electron. Simulation of electron-energy loss spectroscopy, cathodoluminescence, and Cherenkov radiation in complex systems.

Prof. Martti Kauranen

Tampere University of Technology, Finland

12–15/04/2007

Plasmons in metallic nanostructures.

Prof. Juan De la Figuera Bayón

Universidad Autónoma Madrid, Spain

12–15/04/2007

Stripe formation close to a critical point: Au on W(110).

Prof. Christopher Nex

Cavendish Laboratory, University of Cambridge, United Kingdom

13–16/04/2007

Recursion methods in computational physics.

Dr. Melanie Köhler

Universität Augsburg, Germany

22–25/04/2007

Dynamics of glass forming liquids.

Dr. Caroline Genix

Université Paris XII, France

22–25/04, 01–06/07, 13–18/09/2007

Effect of blending on the dynamics of a given polymer. In particular, the system poly(ethylene oxide) / poly(methyl methacrylate) has been chosen, due to the huge difference in the glass transition temperatures of the two components. A combination of quasielastic neutron scattering and fully atomistic molecular dynamics simulations is used to address the question of the dynamic miscibility in this system.

Dr. Alexander Mönnich

Technische Universität Kaiserslautern, Germany

23/04–03/05/2007

Excited electron dynamical in bulk metals measured by time-resolved two-photon photoemission.

Dr. Anibal Iucci

Université de Genève, Switzerland

01–31/05/2007

Out of equilibrium Many-Body systems.

Prof. Ignacio Cirac Sasturain

Max-Planck-Institut, Garching, Germany

04/05/2007

Quantum many-body systems: simulations and beyond.

Dr. Eduardo Anglada Varela

Universidad Autónoma Madrid, Spain

08–11/05/2007

ab initio calculations of geometric and transport properties of gold monatomic wires. Accelerate MD-simulations with SIESTA.

Dr. Otto Muskens

Institute for Atomic and Molecular Physics, Eindhoven, The Netherlands

09–12/05/2007

Plasmons and nanophotonics.

Dr. Daniel Farias Tejerina

Universidad Autónoma Madrid, Spain

15–18/05, 29/08–08/09/2007

Dynamics of molecular adsorption at surfaces.

Dr. Sara Emanuela Pagnotta

Università degli Studi Roma Tre, Italy

23–25/05/2007

Water behavior at biological interfaces and in confined geometries.

Dr. Rolf Heid

Forschungszentrum Karlsruhe, Germany

24/05–02/06/2007

Electron phonon interaction in metals and metal surfaces.

Prof. Klaus Peter Bohnen

Forschungszentrum Karlsruhe, Germany

27/05–04/06/2007

Electron phonon interaction in metals and metal surfaces.

Prof. Emilio Artacho Cortés

University of Cambridge, United Kingdom

28/05–01/06/2007

Electronic stopping power in insulators. LDA+U, SIC, exact-exchange in DFT calculations.

Dr. Matthias Toews

Nadicom, Karlsruhe, Germany

28/05/2007

Protein production in *Aspergillus nidulans* — problems and improvements.**Dr. Philippe Zinck**

Ecole Nationale Supérieure de Chimie de Lille, France

30–31/05/2007

New Polymeric Materials synthesized via coordination polymerization: recent examples from our group.

Dr. Gustav Bihlmayer

IFF-FZ, Forschungszentrum Jülich, Germany

04–30/06/2007

Magnetism in low dimensions: overlayers, wires and atoms.

Prof. Felix Yndurain Muñoz

Universidad Autonoma de Madrid, Spain

04–05/06/2007

Magnetism in two dimensional structures: from C(110) to CeRhIn5.

Prof. Victor Hugo Ponce

Centro Atómico Bariloche, Argentina

08–30/06/2007

Electron emission in the interaction of light ions with surfaces.

Prof. Manuel Aguilar Benitez de Lugo

CIEMAT, Madrid, Spain

11/06/2007

The LHC Project at CERN: a tool to unveil the enigmas of the Universe.

Dr. Sergio Monturet Caamaño

Université Paul Sabatier, Toulouse, France

13–16/06/2007

Inelastic effects induced by electronic currents by wave-packet propagation.

Prof. Antoine Salin

Université de Bordeaux I, France

14–15/06, 01–02/09/2007

Dissociation dynamics of diatomic molecules at metal surfaces.

Prof. Rubén G. Barrera

Instituto de Física, UNAM, México

16–18/06/2007

Use and abuse of the effective refraction index concept in colloidal systems.

Prof. John Inglesfield

University of Wales Cardiff, United Kingdom

17–30/06/2007

Embedding in photonics and plasmon bands in metallic nanostructures.

Prof. Dieter Richter

IFF-FZ, Forschungszentrum Jülich, Germany

18–23/06/2007

Polymer dynamics by neutron techniques.

Dr. Lutz Willner

IFF-FZ, Forschungszentrum Jülich, Germany

20–23/06, 10–15/12/2007

Dynamics and kinetics in polymeric micelles.

Prof. Tadaaki Nagao

National Institute of Materials Science, Tsukuba, Japan

23–28/06/2007

Surface phonons and adlayer crystal structures.

Prof. Dietrich Foerster

Centre de Physique Moléculaire Optique et Hertzienne, Université Bordeaux I, France

25/06–14/07/2007

Fast computation of the susceptibility of large systems.

Dr. Emil Lezak

Polish Academy of Sciences Lodz, Poland

03–06/07/2007

Plastic deformation of gamma phase isotactic polypropylene in the plane-strain compression.

Prof. Yasunori Yamazaki

University of Tokyo, Japan

22–24/07/2007

Interaction of exotic particles with matter.

Prof. Alberto Galindo

Universidad Complutense de Madrid, Spain

22–29/07/2007

Quantum information and quantum algorithms. Basic problems in Quantum Physics. Completion of a two-volume textbook on Advanced Quantum Mechanics, and a textbook on Space-Time Structure.

Doctorand Marco Bernabei

Università degli Studi Roma Tre, Italy

01–03/08/2007

Hydrogen bond percolation in supercooled water.

Prof. Vladimir Kuznetsov

Tomsk State University, Russia

06/08–05/09/2007

Density functional methods in the theory of phase diagrams of alloys and in the Kondo effects.

Doctorand Nicolas Large

Université Paul Sabatier, Toulouse, France

13–31/08/2007

Raman spectroscopy in low dimensional semiconductor structures.

Prof. José Manuel Pereira Carmelo

Universidade do Minho, Portugal

22–25/08/2007

Integrable models in one-dimension.

Dr. Fabio Busnengo

Universidad de Rosario, Argentina

23/08–02/09/2007

Dissociation of diatomic molecules at surfaces.

Dr. Martin Aeschlimann

Technische Universität Kaiserslautern, Germany

24–26/08/2007

Ultrafast two-photon photoemission studies of excited electrons in metals.

Dr. Alexander Marienfeld

Technische Universität Kaiserslautern, Germany

24–26/08/2007

Excited electron dynamics in bulk metals measured by time-resolved two-photon photoemission.

Prof. Erio Tosatti

SISSA, Trieste, Italy

02–06/09/2007

Electronic excitations in nanostructures.

Dr. Claudio Horowitz

Centro Atómico Bariloche, Argentina

03/09–02/10/2007

Optimized effective-potential approach to the Kohn-Sham exchange-correlation potential of density-functional theory.

Prof. Istvan Nagy

Technical University of Budapest, Hungary

03–29/09/2007

Various aspects of correlations in extended fermionic systems; spin-fluctuation, pair-correlation, one-particle damping, impurity-screening.

Dr. Garnet Bryant

National Institute of Standards and Technology, Gaithersburg, USA

05–16/09/2007

Optoelectronic properties of quantum dots and quantum wires.

Dr. Johannes Padding

University of Twente, Enschede, Holland

05–08/09/2007

A single particle model to simulate the dynamics of entangled polymer melts.

Prof. Archie Howie

Cavendish Laboratory, Cambridge, United Kingdom

05–19/09/2007

Theory of valence electron excitations by fast electrons.

Dr. Wim Briels

University of Twente, Enschede, Holland

06–08/09/2007

A single particle model to simulate the dynamics of entangled polymer melts.

Prof. Josep Planelles Fuster

Universidad Jaime I, Castellón, Spain

06–09/09/2007

Quantum chemistry of low dimensional systems.

Prof. Tin-Lun Ho

The Ohio State University, USA

08–15/09/2007

Theory of ultra-cold atomic gases.

Dr. Jesús Aguirre

Universidad Autónoma de México, México

12–13/09/2007

Stress signal transduction and cellular differentiation in the fungus *Aspergillus nidulans*.

Dr. Philippe Moreau

Institut des Matériaux Jean Rouxel, Nantes, France

23–25/09/2007

Comparison simulation/experiment in the Low Energy-Loss region: from lithium battery to gold nanowires.

Dr. Arkady Krasheninnikov

University of Helsinki, Finland

23–25/09/2007

Irradiation-induced phenomena in carbon nano-materials.

Prof. Philippe Tordjeman

Université Montpellier 2, France

26–29/09/2007

Nanodielectric of polymer.

Prof. Kunie Ishioka

National Institute for Materials Science, Tsukuba, Japan

30/09–04/10/2007

Coherent nuclear vibrations in solids and their control with phase-locked optical pulse pairs.

Prof. Masahiro Kitajima

National Institute for Materials Science, Tsukuba, Japan

30-09-04/10/2007

Time resolved spectroscopy of graphite and graphene related compounds.

Prof. Enrique Louis Cereceda

Universidad de Alicante, Spain

07-08/10/2007

Kondo effect in transport through CoPc and TBrPP-Co adsorbed on metal surfaces: from kondo peaks to fano dips.

Dr. Jorge Quintanilla Tizón

Rutherford Appleton Laboratory, Didcot, United Kingdom

09-11/10/2007

Condensed matter theory.

Dr. Steen Brondsted Nielsen

University of Aarhus, Denmark

15-18/10/2007

Photophysics of DNA building blocks.

Dr. Mikko Hakala

Helsinki University of Technology, Finland

16-19/10/2007

Hybrid functionals and local basis sets: an implementation in SIESTA.

Prof. Francesc Salvat Gavalda

Universidad de Barcelona, Spain

18-19/10/2007

Radiation Physics and Monte Carlo simulation.

Prof. Rufus Ritchie

Oak Ridge National Laboratory, USA

22-31/10/2007

Ion-Solid interactions. Dielectric response.

Dr. Maria Victoria Fernández Serra

CECAM-ENS Lyon, Lyon, France

22-27/10/2007

Structure and dynamics of the hydrogen bond network: from bulk water to ice and water at interfaces.

Dr. Thomas Neicke

SPECS GmbH, Berlin, Germany

22-24/10/2007

High resolution angular photoemission.

Prof. Branko Gumhalter

University of Zagreb, Croatia

2-30/11/2007

Ultrafast electron dynamics on metal surfaces.

Dr. Marco Polini

Scuola Normale Superiore, Pisa, Italy

5-10/11/2007

Electron-electron interaction effects in graphene; low-dimensional cold atomic gases.

Prof. Francisco Guinea Lopez

Instituto de Ciencia Materiales de Madrid-CSIC, Spain

8-13/11/2007

Condensed matter physics.

Prof. Lluís Torner

ICFO-The Institute of Photonic Sciences, Barcelona, Spain

28/11/2007

Conducts research and education in photonics, with emphasis in applications to non-linear optics, all-optical telecommunications, and optical solitons.

Dr. Truman Von Lilienfeld

Sandia National Laboratories, Albuquerque, USA

5-9/12/2007

First principles modelling of biological complexes.

Prof. Ulrich Hofer

Philipps-Universität Marburg, Germany

5-7/12/2007

Time-resolved two-photon photoemission of Ar/Cu interface states.

Dr. Emanuela Zaccarelli

Sapienza Università di Roma, Italy

11-16/12/2007

Mode coupling theory of the glass transition.

Dr. Cem Sevik

Bilkent University, Turkey

11-13/12/2007

Carrier transport in Si and Ge nanocrystals.