

Visiting Researchers

Long visits

Dr. Duncan Mowbray

Center for Atomicscale Materials Design,
Technical University of Denmark, Lyngby, Denmark
01/01/2012–Present
Time-resolved oxyde mediated photocatalisis.

Dr. Vitaly Golovach

CNRS Grenoble, France
01/11/2012–31/10/2017
Electronic properties at the nanoscale.

Dr. Mathias Ljunberg

Laboratoire ondes et matière d'Aquitaine (LOMA) -
CNRS, Talence, France
16/04/2014–16/04/2016
First principles calculations of complex oxides.

Dr. Peng Zhang

Shanxi University, Taiyuan, China
18/08/2014–13/01/2015
Morphokinetics: Morphology-based modeling of the
growth kinetics of 2D materials.

Dr. Rafael Grande Aztatzi

Cinvestav, Centro de Investigación y Estudios
Avanzados del Instituto Politécnico Nacional, Mexico
28/08/2014–31/12/2016
Computational approach to aluminum biochemistry:
al-phosphorylated polypeptide interactions.

Dr. Carlos Echeverria Arrondo

Facultad de Ciencia y Tecnología,
UPV/EHU, Bilbao, Spain
15/09/2014–14/03/2015
Calculations on magnetic properties for ZnO
nanoparticles.

Dr. Hector Ochoa de Eguileor

Instituto Ciencia Materiales de Madrid, CSIC, Spain
03/11/2014–28/02/2015
Two-dimensional materials. Spin-orbit coupling
(topology, spintronics).

Mauricio Rodriguez Mayorga (PhD Student)

Universitat de Girona, Spain
01/12/2014–31/12/2017
Development of improved exchange-correlation
functionals.

Prof. Juan Faustino Aguilera Granja

UASLP, Universidad Autónoma San Luis Potosí,
Mexico
15/12/2014–15/01/2015
Nanostructure materials.

Prof. Istvan Nagy

Technical University of Budapest, Hungary
07/01–07/02/2015

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

Prof. Matthew Dawber

Stony Brook University, New York, USA
07/01–27/02/2015

Ferroelectric oxides experimental condensed matter physics superlattices.

Prof. Giorgio Benedek

Università di Milano-Bicocca, Milano, Italy
10/01–28/02/2015

Surface phonons and phase transitions.

Laura Sánchez García (PhD Student)

Universidad Autónoma de Madrid, Spain
11/01–11/02/2015

Plasmonics assisting solid state lasing.

Andrea Basagni (PhD Student)

University of Padua, Italy
31/01–31/03/2015

Characterization of covalently bonded molecular chains synthesized by on-surface chemistry under ultra-high-vacuum.

Prof. Gernot Frenking

Fachbereich Chemie, Philipps Universität Marburg, Germany
01/02–30/04/2015

Theoretical chemistry.

Dr. Elizabeth Goiri Little

SUNY Korea (The State University of New York), Korea
02/02–30/06/2015

Donor acceptor monolayer blends on coinage metal surfaces.

Dr. Deung Jang Choi

Max Planck Institute, Hamburg, Germany
03/02–09/03/2015

Spin dynamics of atomic objects on surfaces.

Prof. Norman March

University of Antwerpen, Belgium
05/02–05/04/2015

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. Arlette Violeta Richaud Torres

Universidad Autónoma Metropolitana, Iztapalapa, Mexico
13/02–31/12/2015

Development of new interpretative reactivity parameters derived from DFT and HSAB principle, based in chemical synthesis and molecular spectroscopic data.

Prof. Joseph R. Manson

Clemson University, Clemson, South Carolina, USA
19/02–30/03/2015

Theoretical studies of structure and dynamics of microscopic surfaces.

Prof. Roman O. Kuzian

National Academy of Sciences of Ukraine, Kiev, Ukraine
02/03–29/04/2015

Photoemission from strongly correlated systems.

Prof. Andrei Borisov

Université Paris Sud, France
06/04–30/06/2015

Quantum plasmonics

Prof. Alexander Protogenov

Institute of Applied Physics of Russian Academy of Sciences, Nizhnii Novgorod, Russian Federation
16/04–15/05/2015

Transport properties of 3D topological insulators.

Prof. Valery Tyuterev

Tomsk State Pedagogical University, Tomsk, Russian Federation
27/04–26/05/2015

Electron-phonon interaction and relaxation of highly excited carriers in wide-gap semiconductors.

Dr. Dana Codruta Marinica

Institut des Sciences Moléculaires d'Orsay, Université Paris Sud, France
01/05–30/06/2015

Quantum plasmonics.

Dr. Ziya Aliyev

Institute Catalysis and Inorganic Chemistry, Azerbaijan National Academy of Science, Azerbaijan
02/05–29/06/2015

Materials physics of topological insulators.

Prof. J. Alfredo Caro

Los Alamos National Laboratory, New Mexico, USA
02/05–30/06/2015

Theoretical simulation of radiation damage in nuclear materials.

Mario Zapata Herrera (PhD Student)

Universidad de Los Andes, Bogotá, Colombia
14/05–13/08/2015

Quantum effects in the plasmonic response.

Prof. Juan José Saenz Gutierrez

Universidad Autónoma de Madrid, Spain
17/05–31/07/2015

Light scattering in colloidal suspensions.

Prof. Ulrich Höfer

Philipps- Universität Marburg, Germany
01/06–31/07/2015

Resonance hopping on surfaces of simple metals.

Prof. Vladimir Menshov

National Research Centre "Kurchatov Institute", Moscow, Russian Federation
01/06–29/08/2015

Electron properties of magnetic topological insulator thin films.

Dr. Tatiana Menshchikova

Tomsk State University, Russian Federation
01/06–28/08/2015

Investigation of the electronic structure of topological insulators using first-principles calculations.

Dr. Igor Rusinov

Tomsk State University, Russian Federation
01/06–28/08/2015

Investigation of materials for spintronics: topological semiconductors and bismuth tellurohalides.

Prof. Juan Faustino Aguilera Granja

UASLP, Universidad Autónoma San Luis Potosí, Mexico
01/06–31/07/2015

Theoretical study of the electronic properties of transition metals on graphene sheet, and electronic properties of small binary clusters.

Prof. Carmen Mijangos Ugarte

Consejo Superior de Investigaciones Científicas Instituto de Ciencia y Tecnología de Polímeros Madrid, Spain
04/06–07/08/2015

Polymer structures with modulated morphologies and properties at nanoscale.

Dr. Sergey Eremeev

Institute of Strength Physics and Materials Science, Tomsk, Russian Federation
16/06–12/09/2015

Topological insulators.

Dr. José Surga Diaz

Petroleos de Venezuela S.A. PDVSA-INTEVEP Venezuela
17/06–15/09/2015

Cements under pressure and temperature.

Prof. Vasily Astratov

University of North Carolina at Charlotte, USA
18/06–18/07/2015

Microspherical Photonics

Prof. Antonio Politano

Università degli Studi della Calabria, Italy
20/06–19/07/2015

Plasmon modes in topological insulators: from basic research to applications in plasma-wave THz photodetection.

Dr. Angela Demetriadou

Imperial College London, United Kingdom
21/06–19/09/2015

Nanophotonics in ultranarrow gaps.

Prof. Francisco Javier Muñoz Saez

Universidad de Chile, Ñuñoa, Santiago, Chile
29/06–02/08/2015

Topological insulators.

Prof. Nikolay Kabachnik

Institut für Experimentalphysik, Hamburg, Germany
01/07–30/09/2015

Study of Auger processes in gases and at solid surfaces within an attosecond streaking scheme.

Prof. Francisco Guinea López

Inst.Ciencia Materiales de Madrid.CSIC, Madrid, Spain
01/07–31/07/2015

Condensed matter physics.

Prof. Francisco José García Vidal

Facultad de Ciencias, Universidad Autónoma de Madrid, Spain

01/07–31/08/2015

Plasmonics

Prof. Peter Bauer

Johannes Kepler University Linz
Institute of Experimental Physics, Austria

01/07–01/08/2015

Electronic stopping of slow ions

Prof. Luis Martín Moreno

Instituto de Ciencia de Materiales de Aragón, (ICMA), Zaragoza, Spain

01/07–31/07/2015

Optical properties of nanoscale systems.

Prof. Maria Angeles Hernández Vozmediano

Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas, CSIC, Madrid, Spain

01/07–31/07/2015

Analysis of interactions, disorder, and lattice distortions in topological insulators and graphene.

Anastasiia G. Ryabishchenkova (PhD Student)

Tomsk State University, Russian Federation

01/07–15/08/2015

Atomic properties of topological insulators.

Dr. Igor V. Silkin

Tomsk State University, Tomsk, Russian Federation
01/07–01/08/2015

Topological insulators.

Prof. Miguel Angel Cazalilla

National Tsing Hua University, Taiwan

12/07–12/09/2015

Strongly correlated systems, 2D materials, spintronics.

Prof. Teunis Klapwijk

University of Delft, Holland

20/07–21/08/2015

Superconducting hybrid structures.

Prof. Vladimir M. Kuznetsov

Tomsk State University, Tomsk, Russian Federation

31/07–30/08/2015

Topological insulators.

Prof. Włodzimierz Jaskólski

Institute of Physics Nicolaus Copernicus University, Poland

16/08–30/09/2015

Defects, edge states and magnetic effects in graphene structures.

María Eugenia Sandoval Salinas

Universidad Nacional Autónoma de México, Mexico

24/08–17/11/2015

Singlet fission model in the FMO complex.

Grabiele Dalla Torre

Università degli Studi di Milano, Italy

01/09–01/12/2018

Theoretical Chemistry

Prof. Marijan Sunjic

University of Zagreb, Croatia

02/09–29/10/2015

Dynamical response and surface excitations in thin films.

Prof. Amand Lucas

University of Namur, Belgium

03/09–30/10/2015

Surface science, ion scattering.

Prof. Giorgio Benedek

Università di Milano-Bicocca, Milano, Italy

09/09–31/10/2015

Surface phonons and phase transitions.

Prof. Joseph R. Manson

Clemson University, Clemson, South Carolina, USA

24/09–10/11/2015

Theoretical studies of structure and dynamics of microscopic surfaces.

Prof. Pedro De Andrés

Instituto Ciencia de Materiales de Madrid, CSIC, Madrid, Spain

01/10–27/11/2015

Life time of image states in graphene.

Dr. Ziya Aliyev

Institute Catalysis and Inorganic Chemistry,

Azerbaijan National Academy of Science, Azerbaijan

01/10–29/12/2015

Materials physics of topological insulators.

Víctor Ramón Escobedo Bermúdez (PhD Student)

Universidad de Salamanca, Spain

01/10/2015–30/09/2016

Literature and Science.

Yuan Li (PhD Student)

Southeast University, Nanjing, China

04/10–22/12/2015

Reaction mechanism and diffusion model for the simulation of focused ion beam etching.

Flávio Matias da Silva (PhD Student)

Universidade General do Rio Grande do Sul, Porto Alegre, Brazil

15/10/2015–14/10/2016

Electronic excitations in metallic media using time-dependent density functional theory.

Prof. Julio A. Alonso Martín

Facultad de Ciencias, Universidad de Valladolid, Spain

25/10–25/11/2015

Adsorption and diffusion of hydrogen on nanoparticles.

Jon Lafuente Bartolomé (PhD Student)

Facultad de Ciencia y Tecnología, UPV/EHU, Leioa, Spain

01/11–31/12/2015

Relativistic corrections to response functions in 2D systems.

Prof. Raffaele Resta

Università di Trieste, Italy

01/12/2015–29/02/2016

Geometry and topology in electronic structure.

Prof. Juan Faustino Aguilera Granja

UASLP, Universidad Autónoma San Luis Potosí, Mexico

10/12/2015–10/01/2016

Theoretical study of the electronic properties of transition metals on graphene sheet, and electronic properties of small binary clusters.

Natalia Cortés Muñoz

Universidad Técnica Federico Santamaria, Valparaíso, Chile

16/12/2015–15/06/2016

Electronic and thermal properties of two dimensional materials.

Short visits

Prof. Godfrey Gumbs
Hunter College, The City University of New York, USA
05/01–30/01/2015
Plasmons in nanostructures.

Prof. Marivi Fernandez-Serra
Stony Brook University, New York, USA
07/01–21/01/2015
Condensed matter theory, first-principles simulations of condensed matter. First-principles simulation of liquid water and the interface between liquid water and solids quite generally, and applied to energy purposes (water photolysis etc).

Prof. Marivi Fernandez-Serra
Stony Brook University, New York, USA
07/01–21/01/2015
Condensed matter theory, first-principles simulations of condensed matter. First-principles simulation of liquid water and the interface between liquid water and solids quite generally, and applied to energy purposes (water photolysis etc).

Prof. Marivi Fernandez-Serra
Stony Brook University, New York, USA
07/01–21/01/2015
Condensed matter theory, first-principles simulations of condensed matter. First-principles simulation of liquid water and the interface between liquid water and solids quite generally, and applied to energy purposes (water photolysis etc).

Dr. Lucian Constantin
Italian Institute of Technology, Lecce, Italy
11/01–22/01/2015
Density Functional Theory

Prof. Larry Glasser
Clarkson University, USA
11/01–17/01/2015
Mathematical physics applied to condensed matter.

Prof. Rosa Buló
University of Utrecht, Netherlands
11/01–16/01/2015
Hamiltonian adaptive QM/MM: multi-scale modeling of chemical reactions in solution.

Dr. Joachim Kohlbrecher
Paul Scherrer Institut, Villigen, Switzerland
12/01–14/01/2015
Magnetic response of functionalized lipid bilayers.

Prof. Jeffrey A. Kelber
University of North Texas, Denton, USA
14/01–16/01/2015
Direct growth of 2D materials on practical substrates: from surface chemistry to new physics and devices.

Prof. Juan Ignacio Cirac
Max-Planck-Institut für Quantenoptik, Garching, Germany
15/01–16/01/2015
Quantum physics and computation.

Dr. Juan Pablo Echeverry Enciso
Humbolt University, Berlin, Germany
25/01–31/01/2015
Low-energy collective electronic excitations in graphite intercalated compounds.

Prof. Dieter Richter
IFF-FZ, Forschungszentrum Jülich, Germany
26/01–28/01/2015
Polymer dynamics by neutron techniques.

Prof. Pilar Goya Laza
Instituto de Química Médica (CSIC), Madrid
28/01–29/01/2015
Iatrochemistry, cannabis and drug design.

Prof. Juan José Gómez-Cadenas
Instituto de Física Corpuscular CSIC-UV, Valencia
29/01–30/01/2015
Landscape without neutrinos.

Prof. Marijan Sunjic
University of Zagreb, Croatia
02/02–27/02/2015
Dynamical response and surface excitations in thin films.

Prof. Arturo Tagliacozzo
Università di Napoli Federico II, Napoli, Italy
08/02–13/02/2015
Superconductivity.

Martin Schütz (PhD Student)
MPQ Garching, Germany
09/02–14/02/2015
Surface acoustic waves as a universal platform for quantum information processing.

Dr. Geza Toth
Ikerbasque, Dep. Theoretical Physics, UPV/EHU, Leioa, Spain
10/02–10/02/2015
Detection of multipartite entanglement close to symmetric Dicke states.

Prof. Angel J. Marzocca
Fate y Universidad de Buenos Aires, Argentina
15/02–16/02/2015
Rubber composites.

Prof. Jonas Fransson
Uppsala University, Sweden
15/02–16/02/2015
Electrical and thermal control of magnetic exchange interactions.

Prof. Carl Mitcham
Colorado School of Mines, USA
16/02–17/02/2015
Contributions of Physics to Ethics: Nuclear Weapons, Free Will, and the Good Life

Prof. Salvador Miret Artes
CSIC, Madrid
22/02–25/02/2015
Theory of surface diffusion.

Prof. Ulrich Heinzmann
University of Bielefeld, Molecular & Surface Physics Bielefeld Institute for BioPhysics & NanoScience (BINAS), Germany
23/02–27/02/2015
Atophysics.

Dr. Andrey Vasenko
Laboratoire de Physique et Modélisation des Milieux Condensés, CNRS, Grenoble, France
23/02–27/02/2015
Topological Insulator-Superconductor hybrid junctions.

Dr. Andrea Trabatttoni
Politecnico di Milano, Italy
24/02–26/02/2015
Attosecond electron dynamics in complex molecular systems.

Dr. Amadeo Lopez Vazquez de Parga
Universidad Autónoma de Madrid, Spain
25/02–26/02/2015
Graphene growth and spectroscopy with low-T STM.

Prof. Dimitri Batani
Université de Bordeaux, Talence, France
25/02–26/02/2015
Development of the PETAL laser facility and its applications in physics

Prof. Vladimir Nazarov
Research Center for Applied Sciences, Academia Sinica, Taipei, Taiwan
26/02–25/03/2015
Time-dependent density-functional theory of EELS of thin films on substrates.

Prof. Michel Mortier
ParisTech, Ecole Nationale Supérieure de Chimie de Paris, France
26/02–28/02/2015
Rare earth doped fluoride materials for optics and photonics.

Prof. Andreas Savin

Université Pierre et Marie Curie, Paris, France
UPMC Sorbonne Universités
Laboratoire de Chimie Théorique
02/03–13/03/2015
Adiabatic connection in DFT

Dr. Isabel Guillamon Gomez

Instituto de Ciencia de Materiales Nicolás Cabrera,
Condensed Matter Physics Center,
Universidad Autónoma de Madrid, Spain
05/03–06/03/2015
Scanning tunneling spectroscopy of the superconducting vortex lattice.

Prof. Antti-Pekka Jauho

Center for Nanostructured Graphene (CNG), DTU
Nanotech, Technical University of Denmark
08/03–10/03/2015
Theoretical nanotechnology, nanostructured graphene, quantum transport.

Prof. Geert-Jan Kroes

Leiden Institute of Chemistry, Gorlaeus Laboratory,
Leiden, The Netherlands
08/03–10/03/2015
Reactions of molecules at surfaces: dynamics and non-adiabatic effects, applications to hydrogen storage, astrochemistry.

Prof. Jean Marie Lehn

Université de Strasbourg, France
09/03–12/03/2015
Supramolecular chemistry.

Prof. Garnett Bryant

NIST, Gaithersburg, Maryland, USA
14/03–22/03/2015
Nanophotonics.

Dr. Hyowon Kim

Samsung Advanced Institute of Technology (SAIT)
Yeoungtong-gu, Suwon-si, Korea
14/03–17/03/2015
STM in graphene.

Dr. Sananda Biswas

International Centre for Theoretical Physics (ICTP),
Trieste, Italy
15/03–22/03/2015
Anharmonic effects in lithium hydride.

Dr. Ana Montserrat Rosell

TVE programa Tres14, Madrid, Spain
17/03–18/03/2015
Science outreach.

Prof. Juan Faustino Aguilera Granja

UASLP, Universidad Autónoma San Luis Potosí,
Mexico
22/03–27/03/2015
Theoretical study of the electronic properties of transition metals on graphene sheet, and electronic properties of small binary clusters.

Prof. Gines Morata

Centro Biología Molecular, Universidad Autónoma
Madrid, Spain
23/03–24/03/2015
The fruit fly *Drosophila* to investigate the genetic basis of Cancer.

Dr. Jean-Christophe Gimel

Micro and Nano-medicine Laboratory,
University Hospital in Angers, France
24/03–26/03/2015
Step polymerization in various solvent conditions.
A computer simulation approach using "Patchy Brownian Cluster Dynamics".

Dr. Rémi Avriller

CNRS Laboratoire Ondes et Matière d'Aquitaine
(LOMA) Université de Bordeaux et CNRS, Talence,
France
25/03–27/03/2015
Quantum transport and nanoelectromechanical systems.

Prof. Yuliy Bludov

Center for Physics, University of Minho, Braga,
Portugal
25/03–28/03/2015
Linear and nonlinear graphene plasmonics.

Dr. Bruce Milne

Centre for Computational Physics, University of
Coimbra, Portugal
12/04–18/04/2015
Theoretical spectroscopy of the light harvesting complex from green plants.

Prof. Javier García de Abajo

ICFO - The Institute of Photonic Sciences,
Castelldefels, Barcelona, Spain
13/04–15/04/2015
Nanoplasmonics at the single atomic layer level.

Prof. Helen Jansson

Chalmers University, Sweden
15/04–19/04/2015
Water dynamics under hard confinements.

Dr. Raffaello Bianco

Paris VI (UPMC), Paris
16/04–15/05/2015
Determination of the the charge-density phase transition temperature in TiSe_2 from the stochastic self-consistent harmonic approximation.

Prof. Anatoli Kheifets

Australian National University, Canberra (Australia)
23/04–29/04/2015
Strong field atomic ionization with light: spectra, cusps and time delay.

Prof. Denis Vyalikh

Dresden University of Technology, Dresden, Germany
26/04–30/04/2015
Photoemission measurements of magnetic surface states.

Dr. Angela Demetriadou

Imperial College London, United Kingdom
27/04–29/04/2015
Nanophotonics in ultranarrow gaps.

Dr. Marta Macho Stadler

Universidad del País Vasco (UPV/EHU), Lejona, Spain
28/04–29/04/2015
A través del espejo: la literatura mira a las científicas.

Eduardo Granados (PhD Student)

SLAC National Accelerator Laboratory,
Stanford University, California, USA
29/04–30/04/2015
Exploring matter under extremes conditions at the linac coherent light source.

Prof. Manuel Toharia Cortés

Ciudad de las Artes y las Ciencias de Valencia, Spain
13/05–14/05/2015
La imperfección de los modelos del clima.

Prof. Luis Rosales Ahumada

Universidad Técnica Federico Santa María, Chile
17/05–23/05/2015
Bound states in the continuum in graphene based nanostructure.

Prof. Ranko Richert

Arizona State University, Tempe, USA
18/05–21/05/2015
Basics and applications of nonlinear dielectric techniques.

Prof. Pilar Hernández Gamazo

Instituto de Física Corpuscular CSIC-UV, Valencia,
Spain
21/05–22/05/2015
Outlook in neutrino physics.

Prof. Francesc Monrabal Capilla

Texas A&M University (USA).
21/05–22/05/2015
Double beta decay in neutrino physics.

Prof. Juan José Gómez-Cadenas

Instituto de Física Corpuscular CSIC-UV, Valencia,
Spain
21/05–22/05/2015
Landscape without neutrinos.

Lucie Stolcová (PhD Student)

Faculty of Nuclear Sciences and Physical Engineering,
Czech Technical University in Prague,
Czech Republic
24/05–19/06/2015
Electrodynamic simulations for SERS-active substrates.

Dr. Omjyoti Dutta

Jagiellonian University, Krakow, Poland
27/05–30/05/2015
Quantum simulation and artificial matter with ultra-cold atoms, molecules, and quantum optics.

Dr. Gilles Buchs

Swiss Center for Electronics and Microtechnology,
CSEM, Switzerland
31/05–06/06/2015
Engineering of the electronic and opto-electronic properties of carbon nanotubes via artificially induced defects and electrostatic doping.

Dr. Martin Schäffer

Technische Universität München, Germany
31/05–04/06/2015
Attosecond spectroscopy on surfaces.

Dr. Gervasi Herranz Casabona

Instituto de Ciencia de Materiales de Barcelona, Spain
01/06–03/06/2015
Magnetooptics.

Dr. Jonathan Rodriguez Fernandez

IMDEA, Madrid, Spain
04/06–05/06/2015
Charge transfer between donor-acceptor molecular networks on metal surfaces.

Prof. Luisa Bausa

Universidad Autónoma de Madrid, Spain
10/06–11/06/2015
Solid state laser assisted by plasmonics.

Laura Sánchez García (PhD Student)

Universidad Autónoma de Madrid, Spain
10/06–11/06/2015
Solid state laser assisted by plasmonics.

Prof. Giorgio Benedek

Università degli Studi di Milano-Bicocca, Milano, Italy
16/06–27/06/2015
Surface phonons and phase transitions.

Dr. Nuno De Sousa

Universidad Autónoma de Madrid, Spain
17/06–26/06/2015
Magneto-optics in random media.

Dr. Shigeki Kawai

University of Basel Switzerland PRESTO and Japan Science and Technology Agency, Kawaguchi, Japan
17/06–19/06/2015
Chemical Structures and mechanical properties of molecules studied by high-resolution force microscopy.

Dr. Elsa Perrin

Laboratoire de Chimie, Pasteur,
Ecole Normale Supérieure de Paris, France
22/06–27/06/2015
Electronic structure of molecular solids.

Prof. Arturo Tagliacozzo

Università di Napoli Federico II, Napoli, Italy
22/06–25/06/2015
Superconductivity.

Prof. Dieter Richter

IFF-FZ, Forschungszentrum Jülich, Germany
22/06–25/06/2015
Polymer dynamics by neutron techniques.

Dr. Ivan Infante

Vrije Universiteit Amsterdam, Netherlands
23/06–26/06/2015
Modelling colloidal semiconductor nanocrystals: towards realistic sizes.

Prof. María Chamarro Calvo

Pierre and Marie Curie University,
Institut des NanoSciences de Paris, France
24/06–25/06/2015
Optical properties of semiconductors nanostructure.

Dr. Vladimir N. Strokov

Swiss Light Source and Paul Scherrer Institute,
Villigen-PSI, Switzerland
25/06–28/06/2015
Soft x-ray angle-resolved photoemission.

Prof. Ralf Tonner

Philipps-Universität Marburg, Germany
25/06–27/06/2015
First-principles simulations of organic-inorganic interfaces.

Prof. Robert Berger

Philipps-Universität Marburg, Germany
25/06–27/06/2015
First-principles simulations of organic-inorganic interfaces.

Prof. Vladimir Chaldyshev

Ioffe Physico Technical Institute, St.Petersburg,
Russian Federation
27/06–04/07/2015
Plasmonics in GaAs-based materials.

Prof. Moty Heiblum

Weizmann Institute of Science, Rehovot, Israel
01/07–03/07/2015
Quantum Hall physics and topological superconductivity.

Prof. Antonios Balassis

Fordham University, New York, USA
01/07–29/07/2015
Collective excitations and Kohn anomaly in graphene.

Dr. Xiao Hu

International Center for Materials Nanoarchitectonics (WPI-MANA), National Institute for Materials Science (NIMS), Tsukuba, Japan
05/07–08/07/2015
Simple design of topological state.

Prof. Didier Lemoine

Université Paul Sabatier, IRSAMC - LCAR, France
11/07–14/07/2015
Quantum and quasi-classical molecular dynamics simulations of molecule recombination processes at the gas-surface interface.

Prof. Bret Jackson

University of Massachusetts Amherst, USA
11/07–14/07/2015
Quantum and quasi-classical molecular dynamics simulations of molecule recombination processes at the gas-surface interface

Prof. Denis Vyalikh

Dresden University of Technology, Dresden, Germany
11/07–16/07/2015
Photoemission measurements of magnetic surface states.

Dr. Jerzy Cioslowski

University of Szczecin, Poland
11/07–26/07/2015
Density matrix functional theory and the harmonium atom.

Prof. Giorgio Benedek

Università degli Studi di Milano-Bicocca, Milano, Italy
14/07–18/07/2015
Surface phonons and phase transitions.

Prof. Chris Rossel

President of the European Physical Society
15/07–17/07/2015
Institutional visit.

Dr. Andrey Vasenko

Laboratoire de Physique et Modélisation des Milieux Condensés, CNRS, Université Joseph Fourier, Grenoble, France
16/07–15/08/2015
Properties of topological insulator superconductor interfaces.

Dr. Xavier Cartoixa Soler

Universidad Autónoma de Barcelona, Spain
23/07–25/07/2015
Transport in graphene-based devices.

Richard Berndt (PhD Student)

University of Kiel, STM, Germany
29/07–05/08/2015
STM-based spectroscopies of single-molecule and single-atom contacts.

Dr. Pablo Buset Aienza

University of Würzburg, Germany
03/08–08/08/2015
Josephson effect in Topological Insulators and Graphene.

Prof. Andrew F. Ho

Royal Holloway University College,
University of London, United Kingdom
17/08–22/08/2015
Low dimensional systems.

Prof. Barbara Kraus

Institut für Theoretischen Physik,
Universität Innsbruck, Austria
01/09–05/09/2015
Entanglement and entanglement transformations in fermionic systems.

Cornelia Spee (PhD Student)

Institut für Theoretischen Physik,
Universität Innsbruck, Austria
01/09–05/09/2015
Entanglement and entanglement transformations in fermionic systems.

Prof. Archie Howie

Cavendish Laboratory, Cambridge, United Kingdom
03/09–17/09/2015
Theory of valence electron excitations by fast electrons.

Prof. Wanda Andreoni

Ecole Polytechnique Federale de Lausanne,
EPFL Institute of Theoretical Physics, Switzerland
05/09–29/09/2015
Ab initio simulations of aqueous solutions for CO₂
capture and of nanostructures.

Dr. Juan Pablo Echeverry Enciso

Humbolt University, Berlin, Germany
06/09–10/09/2015
Low-energy collective electronic excitations in graphite
intercalated compounds.

Dr. Leonor Chico Gómez

Instituto de Ciencia de Materiales de Madrid (ICMM),
Spain
09/09–18/09/2015
Electronic structure calculations in nanotubes.

Prof. Pere Alemany Cahner

Universidad de Barcelona, Spain
10/09–11/09/2015
Electronic structure and symmetry.

Prof. Emi Minamitani

Graduate School of Engineering,
The University of Tokyo, Bunkyo-ku, Japan
11/09–26/09/2015
Theoretical studies on surface magnetism and surface
phonons.

Prof. Andres Felipe Santander Syro

CSNSM, Université Paris-Sud, France
16/09–20/09/2015
Novel 2D electron gases at the surface of transition-
metal oxides.

Prof. Salvador Miret Artes

CSIC, Instituto de Física Fundamental, Madrid, Spain
27/09–01/10/2015
Theory of surface diffusion.

Prof. Kurt Binder

Johannes Gutenberg University, Mainz, Germany
29/09–01/10/2015
Understanding the stiffness of Macromolecules: From
single chains to semi flexible polymer brushes.

Dr. Enrique Rico Ortega

UPV/EHU Facultad Físico Química, Leioa, Spain
03/10–03/11/2015
Quantum simulators of gauge models.

Prof. José Ignacio Fernandez Vera

FECYT, Madrid, Spain
06/10–06/10/2015
FECYT and its role in science communications.

Prof. Holger Meyerheim

Max Planck Institute, Halle, Germany
07/10–10/10/2015
Structural investigations of topological insulators.

Prof. Remi Carminatti

Institut Langevin, ESPCI ParisTech, France
11/10–17/10/2015
Statistics of single molecule fluorescence lifetimes
in random media.

Prof. John Schotland

University of Michigan, USA
11/10–17/10/2015
Optics of complex media.

Luciano Colazzo (PhD Student)

Universita de Padua, Italy
12/10–26/10/2015
Surface supported polymerization studies under
ultra-high vacuum.

Prof. Bo Hellsing

Chalmers and Göteborg University, Sweden
13/10–22/10/2015
Electron-phonon interactions on metal surfaces.

Prof. Andrei Borisov

Université Paris Sud, France
18/10–24/10/2015
Quantum plasmonics

Prof. David Jeffery Wineland

NIST, Boulder, Colorado, USA
18/10–24/10/2015
Atomic ions confinement in electromagnetic traps.

Dr. Luis Froufe Perez

University of Fribourg, Switzerland
20/10–23/10/2015
Soft matter and photonics.

Dr. Nicolas Bonod

CNRS, Institute Fresnel, Marseille, France
22/10–27/10/2015
Resonant photonics, electromagnetism,
nanophotonics.

Dr. Ignacio Arganda Carreras

University of the Basque Country, UPV/EHU, Spain
29/10–29/10/2015
Image processing tools for the study of brain
connections.

Prof. John Inglesfield

University of Wales Cardiff, United Kingdom
04/11–28/11/2015
Study of the properties of resonance states, using
embedding and their application to surface
resonances.

Dr. Omjyoti Dutta

Jagiellonian University, Krakow, Poland
05/11–07/11/2015
Quantum simulation and artificial matter with
ultracold atoms, molecules, and quantum optics.

Luca Salassa (PhD Student)

CIC BiomaGUNE, San Sebastián, Spain
06/11–06/11/2015
Hybrid upconversion nanomaterials for
photochemotherapy.

Rodrigo Leiva (PhD Student)

Instituto de Astrofísica, Facultad de Física, Pontificia
Universidad Católica de Chile and
Observatoire de Paris, LESIA, France
11/11–11/11/2015
Stellar occultations: Chariklo and its ring system.

Prof. Yousoo Kim

Surface and Interface Science Laboratory Riken,
Wako-shi, Saitama, Japan
12/11–14/11/2015
Atomic and molecular manipulation with the STM.

Dr. Marta Pelc

CFM, Centro de Física de Materiales, San Sebastián,
Spain
19/11–19/11/2015
Topological defects on carbon like nanostructures.

Dr. Grigori Tkachov

Würzburg Universität, Germany
10/12–12/12/2015
T Signatures of the triplet superconductivity in
topological insulator/ferromagnet contacts.

Dr. Pawel Rejmak

Institute of Physics, Polish Academy of Science,
Warszawa, Poland
14/12–15/12/2015
First-principles calculations on nanostructures.

Prof. Alberto Galindo Teixeira

Universidad Complutense de Madrid, Spain
14/12–15/12/2015
Quantum information and quantum algorithms.
Basic problems in quantum physics.

Ikerbasque Research Professors

Prof. Vyacheslav Silkin

Ultrafast dynamics of the one-particle and collective electronic excitations in metals and their surfaces. The study of electronic excitations at adsorbates on metal surfaces.

Prof. Eugene Krasovskii

Electronic structure of nanosystems, surfaces and interfaces. Attosecond time resolved photo-electron spectroscopy to study the dynamics of electronic excitations. Development of new computational methods of the density functional theory.

Prof. Andrey Kazanskiy

Investigation of subfemto atto second processes in gases and solids caused by ultrashort laser pulses. Investigation of dynamics of electrons in surface and image states of noble metal and their interaction with adsorbates.

Prof. Slawomir Grabowski

Hydrogen bonds in gas phase and crystals; quantum theory of atoms in molecules and natural bond orbitals approaches; intermolecular interactions as preliminary stages of chemical reactions.

Prof. Andreas Heidenreich

Computer simulations of nanoplasma formation, Coulomb explosions and nuclear fusion induced by ultraintense and ultrashort laser pulses. Computer simulations of pump-probe signals.

Prof. Mario Piris Silveira

Energy functional method development. Computational modelling of semiconductor nanocluster and molecular solid phases and polymorphism.

Prof. Thomas Frederiksen

Quantum transport theory and electronic structure methods.

Prof. Geza Giedke

Quantum information and quantum optics: implementations of QIP in atomic and solid-state systems.

Prof. Davide Donadio

Theory of nanostructures and transport.

Prof. Dimas Garcia de Oteyza

Physical chemistry phenomena in organic materials and organic-inorganic interfaces.

Prof. Juan José Saenz Gutierrez

Nanophotonics. Modeling scanning probe microscopies.

Ikerbasque Research Fellows

Dr. Arantzazu Garcia Lekue

Modeling electron transport at the nanoscale. Theoretical investigation of electron processes at nano-structured surface.

Dr. María José Cabrera San Félix

Molecular level understanding of the interaction of molecules (particularly water) with surfaces and their self-assembly to form extended structures. Electronic and structural properties of clean and decorated surfaces: surface reconstructions and chemical reactivity.

Dr. Dario Bercioux

Quantum transport in defected carbon-nanotubes.

Dr. Eduard Matito Grass

Development of improved exchange-correlation functional.

Dr. David Casanova

Development, implementation and application of electronic structure methods for the study of electronic excited states and photophysical processes in molecules, aggregates and complex systems.