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Ether and Modernity. The Recalcitrance of an Agonising Object in Physics and in Culture

March 30-31, 2017

DIPC, Donostia / San Sebastián

<https://www.ehu.es/en/web/etherandmodernity>

Organizer

Prof. Jaume Navarro (DIPC, UPV/EHU)

Physicists, Historians of Science and Philosophers were invited to attend and submit short presentations to the workshop "Ether and Modernity", on the presence of the ether in twentieth century science and culture.

This was the third of a series of meetings (Oxford 2014, San Francisco 2015, San Sebastian 2017) to discuss the way an epistemic object like the ether was rejected, modified or maintained in the first half of the twentieth century, and the later attempts to resuscitate it in contemporary physics. The workshop had a twofold practical purpose: the finalisation of a joint publication with the contributions of the invited speakers; and the dissemination of the results and the incorporation of new ideas into the project by other historians of science, physicists and philosophers.

Invited Speakers

Imogen Clarke (Independent Scholar)

Connemara Doran (Harvard University)

Linda D. Henderson (University of Texas)

Roberto Lalli (Max Planck Institute for the History of Science)

Jaume Navarro (Ikerbasque and University of the Basque Country)

Richard Noakes (University of Exeter)

Arne Schirrmacher (Humboldt University)

Richard Staley (University of Cambridge)

Scott A. Walter (University of Nantes)

Michael Whitworth (University of Oxford)

Aaron Wright (Stanford University)

13th Capri Spring School on Transport in Nanostructures 2017

April 23-30, 2017

Villa Orlandi, Isola di Capri, Italy

<http://www.capri-school.eu/capri17/>

Organizing Committee

Dario Bercioux (Ikerbasque, DIPC)

Alessandro De Martino (City, University of London)

Reinhold Egger (Heinrich-Heine-Universität-Düsseldorf)

Hermann Grabert (Albert-Ludwig-Universität-Freiburg)

Christian Schönenberger (Universität Basel)

Arturo Tagliacozzo (Università "Federico II" Napoli)

This one week spring school provided lectures by leading experts supplemented by a few shorter seminars. The 2017 school addressed solid-state quantum information processing. The speakers gave graduate level presentations introducing to state-of-the-art methods and techniques featuring the key issues of the field of solid-state quantum information processing. While the school was primarily aimed at instructing PhD students and young postdoctoral researchers, more senior scientists who wanted to acquaint themselves with the subject of the school were also welcome.

Invited Speakers

Alexander Altland (Cologne)

Jens Eisert (Berlin)

Andrew Cleland (Chicago)

Daniel Loss (Basel)

Michel H. Devoret (Yale)

Enrique Solano (Bilbao)

David P. DiVincenzo (Aachen)



Discussions on Nano & Mesoscopic Optics (DINAMO-2017)

May 14-19, 2017

Siglufjordur, Iceland

<http://dinamo2017.nmi.is>

Organizing Committee

Andrea Bragas (CONICET, UBA, Argentina)

Kristján Leósson (Innovation Center Iceland)

Stefan A. Maier (Imperial College London, UK)

Juan José Sáenz (DIPC, Donostia / San Sebastián, Spain)

Local Committee

Sigrídur Ingvarsdóttir (Innovation Center Iceland)

Fjalar Sigurdarson (Innovation Center Iceland)

International Scientific Committee

Javier Aizpurua (DIPC, Donostia / San Sebastián, Spain)

Gabriel Cwilich (Yeshiva University, New York, USA)

Aristide Dogariu (CREOL, Florida, USA)

F.J. García-Vidal (IFIMAC-UAM, Madrid, Spain)

Lukas Novotny (ETH-Zürich, Switzerland)

Markus Schmidt (IPHT Jena, Germany)

Fernando Stefani (CONICET, UBA, Argentina)

Nano and Mesoscopic Optics involves the interaction of light with structures that are too small or too complex to be described by traditional continuum methods, as well as the structuring and manipulation of optical fields and interactions at sub-wavelength scale. This is a highly active and interdisciplinary area of research which involves experimental and theoretical experts from optics, acoustics, biophysics, cold atom and condensed matter physics, and telecommunications.

DINAMO promotes the transfer of knowledge between different branches of science and stimulate a global solutions to complex problems of nano and mesoscopic optics. DINAMO is conceived to provide an interdisciplinary forum where leading investigators from around the world can present and discuss their latest work and future challenges in an informal and interactive format.

Beautiful natural locations and isolated venues promote the scientific and personal interaction during presentations, discussion, meals, outdoor excursions and social events. The first DINAMO conference was held in "El Chalten" in Patagonia, Argentina in 2015. In 2017, a new remote location will offer an exceptional environment for the second meeting in the series.



Invited Speakers

Guillermo Acuña (TU Braunschweig, Germany)

Paloma Arroyo-Huidobro (Imperial College London, UK)

Markus Aspelmeyer (University of Vienna)

Jacobo Bertolotti (University of Exeter, UK)

Nicolas Bonod (Fresnel, Marseille, France)

Sergey Bozhevolnyi Syddansk Universitet, Denmark)

Andrea Bragas (Universidad de Buenos Aires)

Hui Cao (Yale University)

Remi Carminati (Institut Langevin, ESPCI, Paris)

Emiliano Cortes (Imperial College London)

Gabriel Cwilich (Yeshiva University, New York)

Javier García de Abajo (ICFO, Barcelona)

Antonio García-Martin (IMM, CSIC, Madrid)

Simone De Liberato (University of Southampton)

Thomas Dekorsy (DLR Stuttgart, Germany)

Aristide Dogariu (CREOL, Florida)

Johannes Feist (IFIMAX, Universidad Autónoma de Madrid)

Jochen Feldmann (LMU Munich)

Mathias Fink (Institut Langevin, ESPCI, Paris)

Ernst-Ludwig Florin (University of Texas at Austin)

Martin Frimmer (ETH, Zurich, Switzerland)

Luis Froufe-Perez (Université de Fribourg, Switzerland)

Aitzol Garcia-Etxarri (DIPC, Donostia / San Sebastián)

Harald Giessen (Stuttgart University)

Sylvain Gigan (Ecole Normale Sup., Paris)

Rainer Hillenbrand (CIC nanoGUNE, Donostia / San Sebastián, Spain)

Mikael Käll (Chalmers, Gothenburg)

Mikael Käll (Chalmers, Gothenburg)

Arseniy Kuznetsov (DSI, Singapore)

Daniel Lanzillotti-Kimura (CNRS, Université Paris-Sud)

Kristján Leósson (Innovation Center Iceland)

Cefe Lopez (ICMM-CSIC, Madrid)

Stefan Maier (Imperial College London)

Andrei Manolescu (Reykjavik University)

Onofrio Marago (Messina, Italy)

Manuel Marques (IFIMAC-UAM, Madrid)

Otto Muskens (University of Southampton)

Michel Orrit (University of Leiden)

Helmut Ritsch (University of Innsbruck)

Monika Ritsch-Marte (Medical University Innsbruck, Biomedical Physics)

Halina Rubinsztein-Dunlop (University Queensland, Australia)

Juan José Sáenz (DIPC, Donostia-San Sebastian)

Jose Sanches-Gil (IEM, CSIC, Madrid)

Riccardo Sapienza (King College London)

Frank Scheffold (Université de Fribourg, Switzerland)

Markus Schmidt (University Jena)

Fernando Stefani (CIBION, Buenos Aires)

Philip Tinnefeld (TU Braunschweig)

Agust Valfells (Reykjavik University)

Niek van Hulst (ICFO, Barcelona)

Silvia Vignolini (University of Cambridge, UK)

Giorgio Volpe (University College London, UK)

Giovanni Volpe (University of Gothenburg, Sweden)

Pavel Zemanek (ISI, Czech Academy of Sciences)

From Bioinorganic Chemistry to Catalysis

June 6, 2017

Faculty of Chemistry, UPV/EHU, Donostia / San Sebastián
http://dipc.ehu.es/ws_presentacion.php?id=160

Organizing Committee

Zoraida Freixa (Ikerbasque, UPV/EHU, Spain)
Luca Salassa (Ikerbasque, DIPC, Spain)
Miguel Huertos (Ikerbasque, UPV/EHU, Spain)
Jon M. Matxain (UPV/EHU – DIPC, Spain)
Eider San Sebastián (UPV/EHU, Spain)

This one-day workshop brought together researchers active in the interconnected fields of molecular catalysis and bioinorganic chemistry, targeting an audience of young master and doctorate students. The aim of the meeting was to create new synergies among researchers working in various research institutes located in Donostia. The workshop also counted with the kind participation of invited scientists coming from IMDEA Nanociencia and the University of Vienna.

Invited speakers

Ana M. Pizarro (IMDEA Nanociencia, Spain)
Alessio Terenzi (University of Vienna, Austria)
Marek Grzelczak (Ikerbasque, CIC biomaGUNE, Spain)
Xabi Lopez (UPV/EHU – DIPC, Spain)
Jon M. Matxain (UPV/EHU – DIPC, Spain)
Arkaitz Correa (UPV/EHU, Spain)
Torrent-Sucarrat Miquel (Ikerbasque, UPV/EHU – DIPC, Spain)
Hartz Sardon (Ikerbasque, UPV/EHU – POLYMAT, Spain)
Fernando López-Gallego (Ikerbasque, CIC biomaGUNE, Spain)
Zoraida Freixa (Ikerbasque, UPV/EHU, Spain)
Luca Salassa (Ikerbasque, DIPC, Spain)
Miguel Huertos (Ikerbasque, UPV/EHU, Spain)

HPC Knowledge Meeting '17

June 15-16, 2017

Miramar Palace, Donostia / San Sebastián
<http://hpckp.org/index.php/annual-meeting/hpckp-17>

The global conference HPC Knowledge Meeting '17 was aimed at sharing expertise and strategies in High Performance Computing, High Performance Data Analysis and Clustering. Some of the most skilled HPC professionals from all over the world were called to be present in this annual meeting where new trending topics and innovations in the HPC world are exposed and discussed with this distinguished public.

The HPCKP project was founded in late 2010 as an initiative of The Reference Network on Theoretical and Computational Chemistry (XRQTC), with the idea of sharing the deep knowledge acquired by people in the HPC field regarding installation and optimization of specific applications in Computational Chemistry. The project has rapidly become an international reference covering several scientific domains.

Since 22 March 2013, HPCNow! supports and manages the HPC Knowledge Portal. HPCNow! was born as a natural evolution of the HPCKP project, and ensures the continuity and sustainability of the HPC Knowledge Portal.

Invited speakers

Rob Farber (TechEnablement.com)	Judit Gimenez (BSC)
Ingrid Barcena (KU Leuven)	Adam Roe (Intel Corporation)
Hussein N. Harake (CSCS)	Albert Valls (IBM)
Todd Gamblin (LLNL)	Carles Fenoy (Roche)
Robert McLay (TACC)	Andrés Díaz-Gil (IFT-CSIC)
Kenneth Hoste (Ghent University)	Alejandro Sanchez (SchedMD)
Jordi Blasco (HPCNow!/NeSI)	Luigi Brochard (Lenovo)
Rosa Filgueira (British Geological Survey, NERC, Edinburgh, UK)	Shahzeb Siddiqui (Pfizer)



13th European Conference on Surface Crystallography and Dynamics (ECSCD-13)

June 19-21, 2017

Miramar Palace, Donostia / San Sebastián

<http://ecscd13.dipc.org/>

Organizing Committee

María Blanco-Rey (UPV/EHU)

Martina Corso (CFM-CSIC-UPV/EHU)

Aran García-Lekue (DIPC)

Celia Rogero (CFM-CSIC-UPV/EHU)

Karmela Alonso Arreche (DIPC)

Scientific Committee

María Blanco-Rey (Universidad del País Vasco UPV/EHU, San Sebastián, Spain)

Giovanni Comelli (University of Trieste; IOM CNR, TASC Lab., Italy)

Ulrike Diebold (Technische Universität Wien, Austria)

Juan de la Figuera (Instituto de Química Física Rocasolano, CSIC, Madrid, Spain)

Axel Groß (Universität Ulm, Germany)

Georg Held (University of Reading, UK)

Pavel Jelinek (Institute of Physics, Czech Academy of Science, Prague, CZ)

Edvin Lundgren (University of Lund, Lund, Sweden)

Katariina Pussi (Lappeenranta University of Technology, Finland)

Karsten Reuter (chair), Technische Universität München, Germany)

Philippe Sautet (CNRS and Ecole Normale Supérieure of Lyon, France)

Hans-Peter Steinrück (Universität Erlangen-Nürnberg, Germany)

Stefan Tautz (Peter Grünberg Institute, Forschungszentrum Jülich, Germany)

D. Phil Woodruff (University of Warwick, UK)

Harold J.W. Zandvliet (University of Twente, Netherlands)

The European Conference on Surface Crystallography and Dynamics (ECSCD) is aimed at discussing the recent advances on the characterization of dynamical processes and structure of surfaces, as well as their interplay, at the atomic length scale. The first edition of the conference took place in 1985 in Erlangen (Germany), and it has become a well established meeting point for the surface science community. In its 13th edition, it will tackle two-dimensional materials, single molecules on surfaces, characterization by LEEM and PEEM, oxides, and other representative topics of present-day surface science. Following the ECSCD tradition, networking between experimentalists and theoreticians will be encouraged, bringing together experienced and young researchers working in the field.



Keynote Speakers

Andrea Locatelli (Elettra Sincrotrone Trieste, Italy)

Jascha Repp (Faculty of Physics, University of Regensburg, Germany)

Daniel Sánchez-Portal (Centro de Física de Materiales CFM/MPC (CSIC-UPV/EHU), Donostia-San Sebastián, Spain)

Invited Speakers

Lucía Aballe (ALBA Synchrotron, Barcelona, Spain)

Cristina Africh (Istituto Officina dei Materiali, CNR-IOM, Trieste, Italy)

Andrey Chuvilin (CIC nanoGUNE, Donostia-San Sebastián, Spain)

Stefan Förster (Martin Luther Universität, Halle-Wittenberg, Germany)

Silvia Gallego (Instituto de Ciencia de Materiales de Madrid, CSIC, Spain)

Andrew Gellman (Chemical Engineering Faculty, Carnegie Mellon University, USA)

Jeppe V. Lauritsen (Interdisciplinary Nanoscience Center, Aarhus, Denmark)

Jorge Lobo-Checa (Instituto de Ciencia de Materiales de Aragón CSIC, Zaragoza, Spain)

Olaf Magnussen (Christian-Albrechts-Universität zu Kiel, Germany)

Philip Moriarty (School of Physics and Astronomy, University of Nottingham, UK)

Tomoko Shimizu (National Institute of Materials Science, Tsukuba, Japan)

Marialore Sulpizi (Institute of Physics, Johannes Gutenberg Universität, Mainz, Germany)

Charles Sykes (Department of Chemistry, Tufts University, USA)



8th International Theoretical Biophysics Symposium (THEOBIO 2017)

June 26-230, 2017

Miramar Palace, Donostia / San Sebastián

<http://theobio17.dipc.org/>

Organizing Committee

Xabier Lopez (UPV/EHU)

Elixabete Rezabal (UPV/EHU)

Elena Formoso (UPV/EHU)

Jon I. Mujika (DIPC)

Rafael Grande-Aztatzi (DIPC)

International Committee:

Carlo Adamo (ENSCP – Chimie ParisTech, France)

Leif A. Eriksson (University of Gothenburg, Sweden)

Maria Joao Ramos (University of Porto, Portugal)

Francesca Mocci (University of Cagliari, Italy)

Nino Russo (University of Calabria, Italy)

Xabier Lopez (UPV/EHU)

Jesus Ugalde (UPV/EHU)

This International Conference focused on state-of-the-art methods and applications on the computational modeling of biochemical and biophysical systems, comprising from all-atom highly accurate electronic structure calculations to the simulation of mesoscopic systems with coarse-grained method. Both methodological developments and applications were welcome.



Plenary Speakers

Anna Peacock (University of Birmingham)

Darrin M. York (Rutgers University, New Jersey)

Felix Goñi (University of the Basque Country and Basque Centre for Biophysics)

Pedro A. Fernandes (Universidade do Porto)

Paolo Carloni (Institute for Advanced Simulations, Jülich)

Oscar Millet (CIC bioGUNE, Derio)

Silvia Osuna (Universitat de Girona)

Invited Speakers

Elena Formoso

Francesca Mocci

Iñaki Tuñon

Irene Maffucci

Jitrayut Jitonnorn

Jaroslav Burda

Jon I. Mujika

José Pedro Cerón-Carrasco

Kwangho Nam

Leif A. Eriksson

Maria João Ramos

Marta Alberto

Natacha Gillet

Nikolay Blinov

Olalla Nieto

Ran Friedman

Sara Capponi

Serdar Durdagi

Software Carpentry

June 28-30, 2017

Elbira Zipitria Center UPV/EHU, Donostia / San Sebastián

<http://iamc.eu/2017-06-28-cfmehu/>

Organizing Committee

Iñigo Aldazabal Mensa (CFM (CSIC-UPV/EHU))

Andrés Diaz-Gil (Instituto de Física Teórica (CSIC-UAM), Madrid)

Mateusz Kuzak (Netherlands eScience Center, Amsterdam)

Helpers

Unai Aseguinolaza, Tineke van den Berg, Brendan Costello, Daniel Franco, Diego Laso,

Irene Monsalve, Sanjeev Nara, David de Sancho, Camila Zugarramurdi

Software Carpentry aims to help researchers get their work done in less time and with less pain by teaching them basic research computing skills. This hands-on workshop will cover basic concepts and tools, including program design, version control, data management, and task automation. Participants will be encouraged to help one another and to apply what they have learned to their own research problems.

Syllabus

The Unix Shell

Programming with Python

Version Control with Git

Introduction to Scientific Python



Frontiers in Quantum Materials and Devices (FQMD)

July 13-14, 2017

Miramar Palace, Donostia / San Sebastián

<http://ciqm.harvard.edu/fqmd-2017-frontiers-in-quantum-materials-and-devices.html>

Organizing Committee

Vitaly Golovach (Ikerbasque, CFM and DIPC)

Naomi Brave (Harvard University)

Robert Westervelt (Harvard University)

Daniel Loss (University of Basel)

DIPC organized jointly with Harvard University the international conference Frontiers in Quantum Materials and Devices (FQMD). The workshop focused on exciting discoveries in Atomic-scale Electronics, Photonics, and Quantum Information Science. Quantum materials offer dramatically new approaches for electronics and photonics, but their characteristics, and the techniques to make devices and interconnected systems are largely unknown. The Frontiers in Quantum Materials and Devices workshops addressed this challenge by bringing together experts in materials growth and characterization, device fabrication and testing, and theoretical modeling. Through interactive talks and discussions, they were able to develop the science and technology needed to advance the science and move toward applications.

Invited Speakers

Tomasso Calarco (Institute of Complex Quantum Systems, Ulm University)

Yoshinori Tokura (Center for Emergent Matter Science RIKEN & University of Tokyo)

Leo Kouwenhoven (Microsoft Station Q and QuTech, Delft University of Technology)

Vidya Madhavan (University of Illinois at Urbana-Champaign)

Seigo Tarucha (University of Tokyo and Center for Emergent Matter Science RIKEN)

Jelena Klinovaja (University of Basel)

Andras Kis (École Polytechnique Fédérale de Lausanne)

Deji Akinwande (University of Texas, Austin)

Masashi Kawasaki (Center for Emergent Matter Science RIKEN & University of Tokyo)

Claudia Felser (Max Planck Institute of Chemical Physics for Solids)

James Analytis (University of California, Berkeley)

Pablo Jarillo-Herrero (Massachusetts Institute of Technology)

Marko Loncar (Harvard University)

Liam McGuinness (Institute for Quantum Optics, Ulm University)

Florian Marquardt (Max Planck Institute for the Science of Light)

Javier Aizpurua (Ctr for Materials Physics & Donostia International Physics Ctr)

Yoshiro Hirayama (Tohoku University)



Nanophotonics of 2D materials, N2D 2017

July 31 - August 3, 2017

Miramar Palace, Donostia / San Sebastián

<http://n2d.dipc.org/>

Organizing Committee

Alexey Nikitin (CIC nanogune, Spain)

Luis Martín-Moreno (ICMA, CSIC Zaragoza, Spain)

Tony Low (University of Minnesota, USA)

Over the past decade, there is a growing research activity on light-matter interactions in atomically thin materials, such as graphene, topological insulators, thin polar and semiconducting layers and other van der Waals materials, including their heterostructures. Nanophotonics of 2D materials (N2D) aims at the exploration of their optical phenomena and in providing a setting where researchers from diverse fields can convene; classical and quantum optics; excitons, phonons and plasmons; far-field and near field spectroscopies; many body optical physics; topological photonics; among many others. Through these interactions, N2D seeks to provide a setting where unifying concepts can form, new ideas inspired, and new frontiers in theoretical and experimental research on 2D materials nanophotonics can emerge.

Invited Speakers

Rainer Hillenbrand (CIC nanoGUNE, Spain)

Mark Rudner (Niels Bohr Institute, Denmark)

Alexey Kuzmenko (Université de Genève, Switzerland)

Gilbert Walker (University of Toronto, Canada)

Javier Garcia de Abajo (ICFO, Spain)

Tony Heinz (Stanford University, USA)

Alexander Grigorenko (University of Manchester, UK)

Andres Castellanos-Gomez (IMDEA, Spain)

Zubin Jacob (Purdue University, USA)

Atac Imamoglu (ETH Zurich, Switzerland)

Sang-Hyun Oh (University of Minnesota, USA)

Stefano Lupi (Sapienza Università di Roma, Italy)

Joshua Caldwell (U.S. Naval Research Laboratory, USA)

Pablo Alonso González (Universidad de Oviedo, Spain)

Grace Xing (University of Notre Dame, USA)

Marco Polini (IIT, Italy)

Ido Kaminer (MIT, USA)

Nuno Peres (Universidade do Minho, Portugal)

Stéphane Kéna-Cohen (Polytechnique Montréal, Canada)

Frank Koppens (ICFO, Spain)

Thomas Taubner (U. RWTH Aachen, Germany)

Cyriaque Genet (U. Strasbourg, France)

James Hone (Columbia University, USA)

Chee Wei Wong (University of California, USA)

Lifa Zhang (University of Nanjing, China)

Jorge Cuadra (Chalmers, Sweden)

Michael Fogler (University of San Diego, USA)

Nathaniel Gabor (University of California, USA)

Roman Krahne (IIT, Italy)

Pablo Merino (ICMM, Spain)

Tobias Stauber (ICMM, Spain)

Yuriy Zakharko (University of Heidelberg, Germany)



Quantum Spintronics at Interfaces (Magnon)

September 4-8, 2017

Miramar Palace, Donostia / San Sebastián

<http://magnon.dipc.org/>

Organizing Committee

Yaroslav Tserkovnyak (University of California, USA)

Vitaly Golovach (CFM CSIC-UPV/EHU and DIPC)

Sebastian Bergeret (CFM CSIC-UPV/EHU and DIPC)

Tineke van den Berg (CFM CSIC)

The workshop focused on novel phenomena occurring at interfaces between metallic conductors and magnetic insulators, including new classes of quantum magnetic materials, which offer a rich playground for Quantum Spintronics. The workshop will bring together leading experts, experimentalists and theorists, working at the crossroads between magnon spintronics and quantum magnetism. We will discuss recent developments in electrical control and detection of spin currents through magnetic insulators, collective spin transport and spin waves, quantum correlations and novel quantum heterostructures for spintronics, bosonic condensation and superfluidity of magnons, topological order and dynamics in quantum magnetic materials. We hope the workshop will foster collaborations in this rapidly developing field, important for the fundamental physics and applications.



Invited Speakers

Christian Back (Regensburg)

Gerrit Bauer (Sendai)

Miguel A. Cazalilla (Hsinchu)

Irene D'Amico (University of York)

Rembert Duine (Utrecht)

Michael Flatté (Iowa)

Benedetta Flebus (Utrecht)

Pietro Gambardella (Zürich)

Francisco Guinea (Madrid/Manchester)

Wei Han (Beijing)

Ewelina Hankiewicz (Würzburg)

Daichi Hirobe (Tohoku)

Mathias Kläui (Mainz)

Takis Kontos (Paris ENS)

Daniel Loss (University of Basel)

Allan MacDonald (UT Austin)

Hector Ochoa (UCLA)

Yoshichika Otani (Tokyo)

Ignacio Pascual (Donostia)

Marco Polini (IIT)

Roberto Raimondi (Univ of Roma Tre)

Christian Rüegg (PSI Villigen)

Nitin Samarth (Penn State)

Eugene Sherman (Bilbao)

Masashi Shiraishi (Kyoto Univ)

Jairo Sinova (Mainz)

Ilya Tokatly (Donostia)

Saul Velez (Donostia)

Giovanni Vignale (Univ of Missouri)

Roland Winkler (Northern Illinois University)

Dominik Zumbühl (Basel)



Summer School

Frontiers of Condensed Matter

September 18-29, 2017

Casimir Research School, Les Houches, France

<https://casimir.researchschool.nl/summer-school-les-houches-france-frontiers-of-condensed-matter-3203.html>

Organizing Committee

Sebastien Bergeret (DIPC, CFM/CSIC, Spain)

Julia Meyer (Université Grenoble Alpes, France)

Tjerk Oosterkamp (Leiden Institute of Physics, Netherlands and Casimir Research School)

This Les Houches international doctoral training session aims at offering Master and PhD students a training program in the area of Condensed Matter Physics. It was organized jointly by the Ecole Doctorale de Physique de Grenoble (France), the Casimir Research School Delft-Leiden (Netherlands), and the Donostia International Physics Center, San Sebastian (Spain).

The program consisted of several courses. The courses were complemented by more specialized research seminars on timely topics. During the sessions, there was time for informal discussions between participants and lecturers. A poster session was organized, including a short oral presentation at the beginning of the sessions enabling the participants to present their research interests to each other.

Invited Speakers

Y. Nazarov (Delft & "Chaire d'excellence" Grenoble)

M. Houzet (Grenoble)

Roman Orus (Mainz)

G. Steele (Delft)

J. Pekola (Aalto & "Chaire d'excellence" Grenoble)

L. Fritz (Utrecht)



Exotic New States in Superconducting Devices: The Age of the Interface

September 25-28th 2017

Mainz, Germany

<https://www.spice.uni-mainz.de/ens-workshop-2017-home/>

Organizing Committee

Sebastian Bergeret (CSIC/DIPC)

Jason Robinson (University of Cambridge)

Kjetil Hals (JGU Mainz)

At the interface between a superconductor and a non-superconducting material such as a ferromagnet, a topological insulator or a semiconductor, a range of electronic states can be induced which are radically different from either constituent material. To be able to probe these states requires a broad range of expertise, spanning basic materials science to fundamental physics modeling of interfaces and transport behaviour.

At this meeting we had the opportunity to bring together scientists working on distinct and overlapping areas, such as superconductivity, magnetism, topological materials, quantum computing, and spin-electronics. This science community enjoyed how these different transport phenomena are linked conceptually and thereby stimulate further understanding particularly with respect to realising useful devices with unique properties for spin-electronics and quantum computing.



Invited Speakers

Jan Aarts (University of Leiden)

Marco Aprili (CNRS-Paris)

Norman Birge (Michigan State University)

Mark Blamire (University of Cambridge)

Silvano De Franceschi (CEA Grenoble)

Matthias Eschrig (Royal Holloway, London)

Mikael Fogelström (Chalmers)

Katharina Franke (Freie Universität Berlin)

Francesco Giazotto (CNR-Pisa)

Sophie Gueron (LPS-Orsay)

Ewelina Hankiewicz (Würzburg Univ.)

Tero Heikkilä (University of Jyväskylä)

Leo Kouwenhoven (Delft)

Yoshi Maeno (University of Kyoto)

Dirk Manske (MPI-Stuttgart)

Julia Meyer (CEA Grenoble)

Oded Millo (University of Jerusalem)

Jagadeesh Moodera (MIT)

Stuart Parkin (MPI, Halle)

Dimitri Roditchev (INSP Paris)

Ilya Tokatly (University of Basque Country)

Javier Villegas (CNRS-Thales)

Felix von Oppen (FU Berlin)

Iberian Vacuum Conference, RIVA-X

October 4-6, 2017

Bilbao, Spain

Organizing Committee

J. Barriga (Tekniker)

E. Ortega (UPV/EHU, DIPC, CFM)

J.A. Martín-Gago (Institute of Materials Science of Madrid-CSIC)

M.F. López (Institute of Materials Science of Madrid-CSIC)

A. López Vazquez de Parga (UAM)

F. Tabarés (CIEMAT)

Carlos Jose Tavares

The Iberian Vacuum Conference, RIVA is a joint meeting of the Spanish Vacuum Society (ASEVA) and the Portuguese Vacuum Society (SOPORVAC), and follows the series started in Braga, Portugal, in 1988, changing alternative the location between Portugal and Spain. The main goal of this conference is to cover the fields of vacuum and its applications, particularly on the fields of Fundamental and Applied Surface Science, Thin Films, Electronics Materials and Processing, Plasma physics, Vacuum Science and technology and Nanometer Scale processes.

The Conference provided a forum where the most relevant and recent results were discussed. We invited scientists and engineers from Spain and Portugal, as well as those from other countries, who took part in this event, especially junior ones.

8th European Topical Conference on Hard Coatings

One of the sessions within Riva-X was devoted to hard coating.



Plenary Speakers

Prof. Lars Montelius (Director General INL, PT)

Prof. Peter J Kelly (Manchester Metropolitan University, UK)

Prof. Marek Rubel (Royal Institute of Technology (KTH), SE)

Dr. Ibon Bustinduy Uriarte (European Spallation Neutron Source Bilbao (ESS), ES)

Invited Speakers

Prof. Osvaldo de Melo (Universidad de La Habana, Cuba)

Prof. Clemens Laubschat (Technische Universität Dresden, DE)

Dr. Carlo Morasso (Laboratory of Nanomedicine and Clinical Biophotonics, IT)

Prof. Tomas Polcar (University of Southampton, UK)

Prof. Jose Ignacio Pascual (Nanogune, ES)

Pedro Salomé (Iberian Nanotechnology Laboratory, INL, PT)

Dr. Michael Foerster (ALBA synchrotron, ES)

Dr. Otmar Zimmer (Fraunhofer IWS, DE)

Yáñez Workshop

October 26, 2017

DIPC, Donostia / San Sebastián

Organizing Committee

Jesus M. Ugalde

Begoña Lecea

Fernando Castaño

Pascual Román

Luis Laín

Alicia Torre

Teófilo Rojo

The Yáñez Workshop, dedicated to the life-time achievements of Prof. Manuel Yáñez, was held on the occasion of the Doctor Honoris Causa Award presentation ceremony to Profs. Manuel Yáñez and Albert Fert. The Yáñez Workshop consisted of 12 lectures arranged in four sessions. The speakers addressed a professional audience however not necessarily experts on the themes of talks. The audience included colleagues as well as friends of Prof. Manuel Yáñez.

Invited Speakers

Venancio Pardo

David de Sancho

Fernando Martín

Elena Formoso

Antonio Largo

Fernando Ruipérez

Gernot Frenking

Enrique Orti

Leticia Gonzalez

David Casanova

Jeremy Harvey

Angel M. Pendas

Ibon Alkorta

Mario Piris

Mariona Sodupe

J. Andres Fernandez

Arvi Rauk

Emergence: Epistemological and Metaphysical Issues

October 26-27 2017

DIPC, Donostia / San Sebastián

<http://www.ehu.es/ehusfera/ink/eemi17/>

Organizing Committee

Javier Cumpa (Universidad de Complutense de Madrid)

Andoni Ibarra (UPV/EHU)

Thomas Mormann (UPV/EHU)

Jaume Navarro (UPV/EHU Ikerbasque)

Iñaki San Pedro (UPV/EHU)

Scientific Committee

Otávio Bueno (Miami)

Javier Cumpa (Universidad de Complutense de Madrid)

Iñaki San Pedro (UPV/EHU)

Jessica Wilson (Toronto)

The aim of the workshop was to discuss issues concerning emergence, ranging from epistemological issues related to the emergence of properties in specific scientific practices—such as physics, computer science or climate change—to metaphysical issues in connection with the nature and ontology of emergent properties.

Invited Speakers

Mark A. Bedau (Reed)

Otávio Bueno (Miami)

Javier Cumpa (U. Complutense Madrid)

Álvaro de Rújula (CERN)

Robin Hendry (Durham)

Paul Humpreys (Virginia)

Iñaki San Pedro (UPV/EHU)

Ferdinando Villa (BC3)

Jessica Wilson (Toronto)



Modern Trends in Molecular Dynamics and Electron Correlations at Surfaces and Interfaces

October 27, 2017

Miramar Palace, Donostia / San Sebastián

<http://modsurf.dipc.org/>

Organizing Committee

Denis Vyalikh (DIPC)

Ricardo Díez Muiño (DIPC and CFM, CSIC-UPV/EHU)

Clemens Laubschat (Technische Universität Dresden)

The program of the workshop included recent examples of research performed in collaboration between groups at Donostia International Physics Center (DIPC) and groups at different German universities. DIPC is a research center whose main goal is to perform and catalyze cutting-edge research in physics and related disciplines, as well as to convey scientific culture to society. DIPC is an international research center, a hub between the local community of scientists and a world-wide network of researchers from other institutions. For this purpose, DIPC holds a strong program of visiting scientists that has brought 2750 visitors to the Center in the period 2000-2016. In this international effort, German research groups have historically played a major role. Germany is the top country in the number of joint publications with DIPC researchers, with 680 articles, as of August 2017.

There are currently several research projects going on that involve scientific collaboration between DIPC groups and German groups at the forefront of research in the fields of condensed matter physics, surface science, and nanoscience, among others. The scientific program of the workshop "Modern Trends in Molecular Dynamics and Electron Correlations at Surfaces and Interfaces" provided an overview of some of these projects, including recent results. The workshop also served as a meeting point for scientists. Future funding opportunities were discussed as well.

Invited Speakers

Ricardo Díez Muiño

Clemens Laubschat

Michael Mößle

Adolfo Morais

Javier Aizpurua

Annemarie Pucci

Björn Trauzettel

F. Sebastián Bergeret

Eugene Krasovskii

Jan Ingo Flege

Denis Vyalikh

Yoav William Windsor

J. Enrique Ortega Anna Makarova

Peter Saalfrank

Iñaki Juaristi

Maite Alducin

Rolf Möller

Nicolás Lorente

Ulrich Höfer

Frederik M. Schiller

Eugene V. Chulkov

Laura Fernández

María Blanco-Rey