



Seminars

2008

- 09/01/2008
ARPES measurements in graphite: role of correlations
Alexander Grueneis, Leibniz Institute, Dresden, Germany
- 10/01/2008
Optical properties of aligned carbon nanotubes
Thomas Pichler, Leibniz Institute, Dresden, Germany
- 17/01/2008
Inelastic Transport through atomic and molecular wires
Magnus Paulsson, University of Kalmar, Sweden
- 23/01/2008
Magnetism from first principles: a multiple scattering approach
Arthur Ernst, Max Planck Institute of Microstructures, Halle, Germany
- 24/01/2008
Density Functional Theory in 2 Dimensions
Malcolm Stott, Queen's University, Kingston, Canada
- 28/01/2008
Ordered and liquid phases in frustrated charge systems
Karlo Penc, Research Institute for Solid State Physics and Optics, Budapest, Hungary
- 13/02/2008
Complex Magnetism in Low Dimensions
Gustav Bihlmayer, IFF-FZ, Forschungszentrum Jülich, Germany
- 14/02/2008
Ultrafast photoemission electron microscopy: imaging light with electrons on femto-nano scale
Hrvoje Petek, University of Pittsburgh, USA
- 15/02/2008
Single adsorbates on simple metal surfaces via the embedding approach
Mario Trioni, CNR, University of Milano-Bicocca, Italy

	22/02/2008 Molecular chemosensors based on nanostructured metal surfaces:sers (raman), seira (infrared) and sef (fluorescence) Concepción Domingo Maroto, Instituto Estructura de la Materia del CSIC, Madrid, Spain	20/06/2008 From single magnetic adatoms to two-dimensional Kondo lattices Wolf-Dieter Schneider, Ecole Polytechnique Fédérale de Lausanne, EPFL, Lausanne, Switzerland
	29/02/2008 Electrical conductance of single atoms and molecules Joerg Kroeger, University of Kiel, Germany	23/06/2008 Optical properties of turbid colloids Rubén G. Barrera, Instituto de Física, UNAM, Mexico
	17/03/2008 Dynamical properties of complex systems Margarita Krutyeva, Universität Leipzig, Germany	27/06/2008 Local optical field mapping in the intermediate field for sub-wavelength optical microscopy, compact spectrometers and sensors Wolfgang Bacsa, CEMES UPR-CNRS, Université Toulouse, France
2008	09/04/2008 Molecular dynamics simulations of polyethylene oxide (PEO) and PEO/PMMA blends Martin Brodeck, IFF-FZ, Forschungszentrum Jülich, Germany	01/07/2008 Quasiparticle calculations of the optical and electronic properties of small metal clusters Hans Christian Schneider, Technische Universität Kaiserslautern, Germany
	17/04/2008 Electrical conductance through a self-assembled molecular layer Philip Hofmann, University of Aarhus Denmark, University of Liverpool, UK	08/07/2008 Energy dissipation in dynamic force microscopy: adhesion hysteresis and capillary interactions Juan José Sáenz Gutiérrez, Universidad Autónoma de Madrid, Spain
	18/04/2008 Resonant electron heating and molecular phonon cooling in single C60 junctions Katharina Franke, Freie Universität Berlin, Germany	11/07/2008 Near field optical microscopy in biology Fritz Keilmann, Max Planck Institute for Biochemistry, Martinsried, Germany
	15/05/2008 Recent applications of laboratory small angle X-ray scattering (SAXS) in soft matter, material science and molecular biology Jan Skov Pedersen, University of Aarhus, Denmark	17/07/2008 Atomic motion observed with sub-Angstrom resolution in the electron microscope Philip Batson, IBM, New York, United States
	23/05/2008 Infrared spectroscopy of metal nanostructures Annemarie Pucci, University of Heidelberg, Germany	18/07/2008 Surface-enhanced Raman scattering with single molecule sensitivity Honxing Xu, Chinese Academy of Sciences, Beijing, China
	26/05/2008 Elaboration of transparent Polycarbonate nanocomposites Virginie Boucher, University of Lille (ENSCL)	04/09/2008 Study of nanoconfined bioprotectant fluids Remi Busselez, Université de Rennes, France
	26/05/2008 Energía y sostenibilidad Cayetano López Martínez, CIEMAT y Universidad Autónoma de Madrid, Spain	01/10/2008 Growth phenomena in mixed amorphous/crystalline silicon nanosystems Luciano Colombo, University of Cagliari and SLACS (INFM-CNR), Italy
	03/06/2008 Fascinating properties of cuprates Adam Kaminski, Iowa State University/Ames Lab, United States	29/10/2008 Does science progress by blind chance or through intelligent design? Sheldon Lee Glashow, Boston University, USA
	17/06/2008 Phonon Anomalies in thin lead films on Cu (111) Peter Toennies, Max Planck Institut für Dynamik und Selbstorganisation, Göttingen, Germany	30/10/2008 DFT-modelling of titania (110) and (011) face Gilberto Teobaldi, University of Liverpool, United Kingdom
	18/06/2008 Photonic structures in the living world Jeanpol Vigneron, Facultés Universitaires Notre-Dame de la Paix, Namur, Belgium	13/11/2008 Conductance of alkanedithiol single-molecule junctions: a molecular dynamics study Magnus Paulsson, University of Kalmar, Sweden
		2008

2009

18/11/2008
Atomistic simulation of propagating fronts: surface processes and MEMS applications
Miguel Angel, Gosalvez Ayuso, Helsinki University of Technology/HUT, Finland

20/11/2008
Charge Transport in Low Dimensional Carbon based Materials -Carbon Nanotubes & Graphene-
Stephan Roche, Institut de Nanosciences et Cryogenie CEA/INAC, Grenoble, France

18/12/2008
Hydrogen storage in nanoporous materials
Julio Alonso Martin, Universidad de Valladolid, Spain

29/01/2009
An orbital-free ab initio simulation scheme
Malcolm Stott, Queen's University, Kingston, Canada

04/02/2009
On the interplay between high-frequency compound properties and
tire-road contact mechanics
Stephan Westermann, Goodyear Technical Center, Luxembourg

12/02/2009
Grazing incidence diffraction of fast atoms: a new tool to probe electronic density and
thermal motion of a crystal surface
Philippe Roncin, Université Paris Sud, France

26-02-2009
Electron propagation along Cu nanowires on Cu(111) surface
Andrey Borissov, Université Paris Sud, France

23/03/2009
Ferroics, multiferroics and nanoferroics
Gustavo Catalán Bernabé, University of Cambridge

01/04/2009
Recent achievements and challenges in the field of superconducting nanostructure
Sebastián Bergeret, Sbarro Universidad Autónoma de Madrid, Spain

02/04/2009
Diluted magnetic semiconductors: GaAs and InAs doped with Mn
Sucismita Chutia, Université Paris-Sud, Orsay, France

02/04/2009
Probing slow molecular motions (1 ms to 1 s time scale) by ^{13}C solid-state NMR spectroscopy:
Application to the subglassy dynamics in poly(ethylenenaphthalene-2,6-dicarboxylate)
Cédric Lorthioir, Université Paris XII, Thiais, France

03/04/2009
Spatially modulated electronic structure: Graphene on Ru(0001)
Amadeo Lopez Vazquez de Parga, Universidad Autónoma de Madrid, Spain

06/04/2009
Electron dynamics at ice metal interfaces
Uwe Bovensiepen, Freie Universität Berlin, Germany

15/04/2009
TU Delft research on materials and environment
Eduard A.B. Koenders, Technische Universiteit Delft, The Netherlands

16/04/2009
Chemistry, environment and sustainability
Luis Oro Giral, Instituto Universitario de Catálisis Homogénea, I.C.M.A.- Facultad de Ciencias
Universidad de Zaragoza-CSIC

20/04/2009
Dispersion, interfacial strength and nanoclay mobility relationships in polymer nanocomposites
Javier Carretero González, Instituto Ciencia y Tecnología de Polímeros, CSIC, Madrid, Spain and
The Alan G. MacDiarmid Nanotech Institute, University of Texas at Dallas, Richardson, USA

21/04/2009
Adsorption and diffusion of atomic and molecular hydrogen on graphene and graphite
Pedro de Andres Rodriguez, Instituto de Ciencia de Materiales de Madrid, CSIC, Spain

04/05/2009
Mixed hybridization systems: beyond the C60
Vincent Huc, Institut de Chimie Moléculaire et des Matériaux d'Orsay, France

27/05/2009
Spin dynamics of complex metallic magnets
Pawel Buczek, Max Planck Institute of Microstructures, Halle, Germany

28/05/2009
Irradiation of clusters and molecules: signals from electrons
Eric Suraud, Université Paul Sabatier, Toulouse, France

12/06/2009
Magnetic deflagration and detonation
Javier Tejada Palacios, University of Barcelona, Spain

16/06/2009
Molecular interaction, conformation and adsorption: The interplay between substrate and molecule
Manfred Matena University of Basel, Switzerland

17/06/2009
Unravelling the mechanism of pressure induced amorphization of phase change materials
Marco Bernasconi, Università di Milano Bicocca, Italy

19/06/2009
Electronic properties of materials for solar cells: which ab initio approaches can we trust?
Silvana Botti, Ecole Polytechnique, Palaiseau, France

2009

	24/06/2009 Quantum confinement and excitonic effects in SiGe nanowires Stefano Ossicini, Universidad de Modena and Reggio Emilia, Italy	14/09/2009 Self-assembled molecular nanowires: growth, electrical properties and applications Yutaka Wakayama, National Institute for Materials Science, Advanced Electronic Materials Center, Tsukuba, Japan
	25/06/2009 Anomalous Hall effect in ferromagnets as an electronic geometric phase Ivo Souza, University of Berkeley, USA	25/09/2009 Coherent effects and sensing in plasmonics Stefan Maier, Imperial College London, United Kingdom
	26/06/2009 Microscopical superfluidity in Helium clusters doped with diatomic molecules Gerardo Delgado Barrio, Instituto de Matemáticas y Física Fundamental CSIC, Madrid, Spain	15/10/2009 Nanocrystal quantum dots: assembly, spectroscopy and applications in photonics Yuri Rakovich, Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN) Trinity College Dublin, Ireland
	03/07/2009 Optical antennas for enhanced light matter interactions Lukas Novotny, The Institute of Optics, University of Rochester, New York, USA	16/10/2009 Poynting theorem and the negative refraction index Rubén Barrera, Instituto de Física, UNAM, México
2009	06/07/2009 The nano gold rush: gold clusters, complexes and nanostructures Ian P. Hamilton, Wilfrid Laurier University, Ontario, Canada	20/10/2009 Activation Strain Model of Chemical Reactivity: Origin of reaction barriers and rational design in chemistry Matthias Bickelhaupt, Scheikundig Laboratorium der Vrije Universiteit, Amsterdam, The Netherlands
	07/07/2009 Nonadiabatic dynamics of electron scattering from adsorbates in surface bands: Possibility to reveal the lifespan of a quasiparticle in ultrafast experiment Branko Gumhalter, University of Zagreb, Croatia	023/10/2009 Physical manifestations of surface chirality: structure, surface stress and roughening María Blanco Rey, University of Cambridge, United Kingdom
	08/07/2009 Talking with Jean Marie Lehn: informal discussion about a life in science Jean Marie Lehn, ISIS-Université Louis Pasteur, Strasbourg, France	011/11/2009 100 years of Mie light scattering: a study of drying microdroplets Maciej Kolwas, Institute of Physics of the Polish Academy of Sciences, Poland
	09/07/2009 Vortex Dissipation in Finite Temperature Bose-Einstein Condensates Eugene Zaremba, Queen's University, Canada	017/11/2009 A life in science Dudley Herschbach, Texas A&M University, USA
	27/07/2009 Defective carbon nanotubes: magnetism, spin transport and gas sensing applications Zelia Zanolli, Université Catholique de Louvain, Belgium	019/11/2009 An introduction to spintronics, and magnetic dynamics of synthetic Fe/Cr antiferromagnets Raúl Villar, Universidad Autónoma de Madrid, Spain
	30/07/2009 Crystal structure prediction using evolutionary algorithm Andriy O. Lyakhov, New York Center for Computational Science, State University of New York at Stony Brook, USA	24/11/2009 Two-dimensional electron gas with spin-orbit disorder Eugene Sherman, Ikerbasque UPV/EHU, Bilbao, Spain
	07/09/2009 Molecular probes for surface plasmons Joachim Krenn, Karl-Franzens-University Graz, Austria	01/12/2009 Vibrational and electronic properties of metal/metal interfaces studied by high-resolution electron energy loss spectroscopy? Antonio Politano, Universidad Autónoma de Madrid, Spain
	10/09/2009 Applications of accelerated molecular dynamics methods in material science Blas Pedro Uberuaga, Los Alamos National Laboratory, USA	22/12/2009 When is a free-electron truly free? New insights on the near-threshold photoemission process from the time dependent momentum imaging Hrvoje Petek, University of Pittsburgh, USA
	14/09/2009 Quantum fluctuations and condensate fraction during the time-of-flight expansion Daw-Wei Wang, National Tsing Hua University, Taiwan	2009