



PASSION FOR KNOWLEDGE
Quantum13

BRANDT RITCHIE WORKSHOP

1-4 OCT2013
CFM CENTRO DE FÍSICA DE MATERIALES
DONOSTIA - SAN SEBASTIAN
BASQUE COUNTRY, SPAIN

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Workshop Program

update 10/09/2013

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		Tuesday 1st OCT.		Wednesday 2nd OCT.	Thursday 3rd OCT.		Friday 4th OCT.
	08:30 - 09:40	Registration & Opening +	09:00 - 11:00	Session Wed_I +	Session Thu_I +	09:00 - 09:30	Divulgative Talk
	09:40 - 11:00	Session Tue_I +				09:30 - 10:30	Poster Presentations +
	11:00 - 11:30	Coffee Break	11:00 - 11:30	Coffee Break	Coffee Break	10:30 - 13:00	Coffee Break and Poster Session
	11:30 - 13:30	Session Tue_II +	11:30 - 13:30	Session Wed_II +	Session Thu_II +		
	21:00				Conference Dinner Branka Restaurant		

Latest version 10 September 2013.

Tuesday 1st OCT.	
08:30	Registration & Opening Pedro Miguel ECHENIQUE, UPV/EHU, San Sebastian Rufus RITCHIE, ORNL, USA Dudley HERSCHBACH, Harvard University, Cambridge - MA, USA
	Session Tue_I
09:40	Tue_I_01 Electronic stopping of slow light ions in metals and insulators Peter BAUER JKU Linz - Austria
10:00	Tue_I_02 Recent progress in Fast Atom Diffraction Helmut WINTER Humboldt University - Germany
10:20	Tue_I_03 Grazing incidence fast atom diffraction from metal surfaces María S. GRAVIELLE Instituto De Astronomía y Física del Espacio (IAFE) - Argentina
10:40	Tue_I_04 Energy loss and charge transfer processes during photoemission from metal clusters and

	adsorbates Natalia E. KOVAL Centro De Física De Materiales and Consejo Superior de Investigaciones Científicas - Spain
11:00	Coffee Break
	Session Tue_II
11:30	Tue_II_01 Challenges in Surface Plasmonics Sir John B. PENDRY Imperial College London, United Kingdom
11:50	Tue_II_02 Inelastic tunneling spectroscopy for magnetic atoms and the Kondo resonance Fernando FLORES Universidad Autónoma de Madrid - Spain
12:10	Tue_II_03 Thermal Fluctuations and Decoherence in Electron Microscopy Archie HOWIE University of Cambridge - United Kingdom
12:30	Tue_II_04 Classical simulations for surface-streaking experiments Christoph LEMELL Vienna University of Technology - Austria
12:50	Tue_II_05 Can the ions be guided with MeV/amu energies? The case of 1 MeV proton microbeam Karoly TOKESI MTA Atomki - Hungary
13:10	Tue_II_06 Electron loss and photoemission spectra in pristine and doped graphene Vito DESPOJA University of Zagreb - Croatia
13:30	End of the Sessions

	Wednesday 2nd OCT.
	Session Wed_I
09:00	Wed_I_01 Electron impact multiple ionization Jorge Esteban MIRAGLIA Instituto De Astronomía y Física del Espacio - Argentina
09:20	Wed_I_02 Electron emission by rare gas ions on Cs coated Al surfaces Raúl Antonio BARAGIOLA University of Virginia - United States
09:40	Wed_I_03 Unoccupied band states and ion induced electron emission Julio FERRÓN Intec Conicet Unl - Argentina
10:00	Wed_I_04 Plasmon excitations in single-walled carbon nanotubes by impact of charged particles Juana GERVASONI Cnea-Conicet - Argentina
10:20	Wed_I_05 Li⁺ neutralization on nanostructures of Au: size effects on the charge exchange process María Luz MARTIARENA Conicet - Argentina
10:40	Wed_I_06 Electromagnetic interaction between relativistic electrons and bounded targets Nerea ZABALA University of the Basque Country UPV/EHU - Spain
11:00	Coffee Break
	Session Wed_II
11:30	Wed_II_01 Giant phonon tsunami caused by energetic ions skipping on a polar surface Amand LUCAS

	University of Namur - Belgium
11:50	Wed_II_02 Computational 29Si NMR in Hydrated Portland Cement Andrés AYUELA Donostia International Physics Center - Spain
12:10	Wed_II_03 Interaction of Slow Highly Charged Ions with Free-Standing 1nm Thick Carbon Nano-membranes Richard A. WILHELM Helmholtz-Zentrum Dresden – Rossendorf, Institute of Ion Beam Physics and Materials Research - Germany
12:30	Wed_II_04 Exchange interaction and its tuning in magnetic binary chalcogenides Maia G. VERGNORI Donostia International Physics Center - Spain
12:50	Wed_II_05 Intermolecular H-Bonding for Porphyrin Molecules on Surfaces Aran GARCÍA-LEKUE Donostia International Physics Center - Spain
13:10	Wed_II_06 Efficient Eley-Rideal reactions with large projectiles made possible: N2 formation by pick-up of N-adsorbates off Ag(111) María BLANCO REY Donostia International Physics Center - Spain
13:30	End of the Sessions

	Thursday 3rd OCT.
	Session Thu_I
09:00	Thu_I_01 Coupled Cluster Calculation of Atomic Mean Excitation Energies John R. SABIN University of Florida - United States
09:20	Thu_I_02 Study of Many-electron Atom Confinement by Padded Open and Closed Boundaries Salvador CRUZ-JIMENEZ Universidad Autónoma Metropolitana - Mexico
09:40	Thu_I_03 Universal scaling behavior for the electronic stopping cross section of protons on atomic and molecular targets Remigio CABRERA-TRUJILLO Instituto de Ciencias Físicas, Unam - Mexico
10:00	Thu_I_04 Coulomb heating behavior of fast light dyclusters through the Si<110> direction: influence of the mean charge state Moni BEHAR Universidade Federal Do Rio Grande Do Sul - Brazil
10:20	Thu_I_05 How do surface energy gaps and image states affect the neutralization of Li+ in the scattering by metal surfaces? Edith GOLDBERG Intec Unl Conicet - Argentina
10:40	Thu_I_06 Co nanodot arrays grown on a ferromagnetic GdAu2 template: substrate/nanodot antiferromagnetic exchange coupling Laura Isabel FERNÁNDEZ Donostia International Physics Center - Spain
11:00	Coffee Break
	Session Thu_II
11:30	Thu_II_01 Acoustic plasmons in extrinsic free-standing graphene Vyacheslav SILKIN Donostia International Physics Center - Spain
11:50	Thu_II_02 Quantum Plasmonics?

	Rosa MONREAL Universidad Autónoma de Madrid - Spain
12:10	Thu_II_03 Emergence of new low-energy plasmons under pressure Aitor BERGARA Condensed Matter Physics Dpt. - University of the Basque Country UPV/EHU - Spain
12:30	Thu_II_04 Effect of quantum tunneling in plasmonics: theory and experiments Rubén ESTEBAN LLORENTE Donostia International Physics Center - Spain
12:50	Thu_II_05 Coulomb explosion of doped helium clusters Andreas HEIDENRICH Kimika Fakultatea, Euskal Herriko Unibertsitatea UPV/EHU - Spain
13:10	Thu_II_06 Electron loss and energy loss Eduardo C. MONTENEGRO Ufrj - Rio de Janeiro - Brazil
13:30	End of the Sessions
21:00	Conference Dinner in Branka Restaurant

	Friday 4th OCT.
09:00	Divulgative Talk Niels Bohr in Manchester. A hundred years of the quantum atom Jaume NAVARRO Department of Logic and Philosophy of Science (UPV/EHU) & IKERBASQUE - Spain
09:30	Poster Presentations
	Po_01 Gap morphology and quantum effects in the optical properties of plasmonic gap nanoantennas Garikoitz AGUIREGABIRIA Donostia International Physics Center - Spain
	Po_02 Magnetic properties of two dimensional metal-organic coordination networks with 3d transition metal atoms Marisa FARAGGI Conicet-lafe - Argentina
	Po_03 Initial Growth of N,N'-Bis (1-EthylPropyl) Perylene-3,4,9,10-TetraCarboxDilimide Films on Cu (100) María Luz MARTIARENA Conicet - Argentina
	Po_04 Characterization and adsorption of herbicides: AMPA molecule on Cu surfaces María Luz MARTIARENA Conicet - Argentina
	Po_05 Long range periodicity of S/Au(111) structures at low and Intermediate coverages María Luz MARTIARENA Conicet - Argentina
	Po_06 1,4-Benzenedimethanethiol lying down film on Au, and Ag surfaces: Crystallography order, work function and Energy loss spectroscopy María Luz MARTIARENA Conicet - Argentina
	Po_07 Energy Loss in Solid-Ion Interactions from TDDFT Simulations Daniel SÁNCHEZ Centro de Física de Materiales and Consejo Superior de Investigaciones Científicas - Spain
	Po_08 Optical properties, transport and sensing in metal-molecular aggregate hybrid

	<p>nanostructures Oiala PÉREZ-GONZÁLEZ University of the Basque Country - Spain</p>
	<p>Po_09 Low-loss electric and magnetic field-enhanced spectroscopy with subwavelength silicon dimers Mohamed Ameen POYLI Donostia International Physics Center and Centro de Física de Materiales - Spain</p>
	<p>Po_10 Quantitative analysis of surfaces and ultra thin layers by Ion Scattering Dietmar ROTH / D. GOEBL Johannes Kepler University Linz - Austria</p>
	<p>Po_11 Role of the van der Waals interaction in the formation of tetrathifulvalene (TTF) 1-D aggregates on Cu(100) Ane SARASOLA Departamento de Física Aplicada I (UPV/EHU) and Donostia International Physics Center - Spain</p>
	<p>Po_12 Spectroscopy of optical magnetic activity on the nanoscale with electron vortex beams Mikolaj SCHMIDT CSIC - UPV/EHU and Donostia International Physics Center - Spain</p>
	<p>Po_13 Optical properties of nickel derived from reflection electron energy loss spectra Karoly TOKESI MTA Atomki - Hungary</p>
	<p>Po_14 Electronic Stopping Power of H in Ge from First Principles Rafi ULLAH Cic nanoGUNE - Spain</p>
	<p>Po_15 Role of the vibrational energy to enhance the dissociative adsorption of N2 on metal surfaces Oihana GALPARSORO Donostia International Physics Center - Spain</p>
	<p>Po_16 An iterative method of calculating EELS of electronic excitations Peter KOVAL Centro de Física de Materiales - Spain</p>
	<p>Po_17 Optics of Au-Ag nanoparticle heteroaggregates with sub-nm gaps Christos TSERKEZIS Donostia International Physics Center and Centro de Física de Materiales - Spain</p>
10:30	Coffee Break and Poster Session
13:00	End of the Sessions

Organizadores



Patrocinadores



Colaboradores



Passion for Knowledge - Quantum 13

30 septiembre - 6 octubre 2013

Basque Country, Spain

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