

Scientific Programme

Tuesday, September 25

Hour	
19:00	Registration
19:30	Registration and Get-together Party
20:00	
20:30	
21:00	

Wednesday, September 26

8:30 – 9:00	Opening
	Carbon Nanostructures I
9:00 – 9:45	A Geim - <i>Graphene: exploring carbon flatland.</i>
9:45 – 10:20	B Verbeck - <i>Fullerene-cubane: X-ray scattering experiments and Monte-Carlo simulations</i>
10:20 – 10:40	J Lopes dos Santos - <i>Graphene bilayer with a twist: electronic structure</i>
10:40 – 11:00	N Peres - <i>Effects of disorder in the electronic properties of graphene</i>
11:00 – 11:30	Coffee Break
	Carbon Nanostructures II
11:30 – 12:10	M Katsnelson - <i>Graphene: New bridge between condensed matter physics and quantum electrodynamics</i>
12:10 – 12:45	J Haruyama - <i>High-Tc superconductivity and one-dimensional electron correlation in carbon nanotubes</i>
12:45 – 13:00	E Castro - <i>Localized states at zigzag edges of bilayer graphene</i>
13:00 – 14:30	Lunch
	Orbital and Charge Ordering I
14:30 – 15:20	L Brey - <i>Charge, orbital and spin order in manganites and their interfaces</i>
15:20 – 16:00	J Kreisel - <i>Raman scattering of rare earth nickelates</i>
16:00 – 16:30	Coffee Break
	Multiferroics
16:30 – 17:15	W Prellier - <i>Magnetic oxides superlattices: a step towards artificially grown multiferroics</i>
17:15 – 18:00	M Kenzelmann - <i>Ferroelectricity in magnetic insulators with competing interactions</i>
18:15 – 20:00	Poster Session

Thursday, September 27

	Theory I
9:00 – 9:40	K Binder - <i>Monte-Carlo simulations of phase transitions in nanosystems</i>
9:40 – 10:20	J Junquera - <i>From 180 degree stripe domains to more exotic patterns of polarization in ferroelectric nanostructures. A first principle view</i>
10:20 – 11:00	X Gonze - <i>First-principles dynamical properties of solids and nanostructures with ABINITO</i>
11:00 – 11:30	Coffee Break

DyProSo XXXI, Porto. Portugal 2007

Theory II	
11:30 – 12:10	M Dove - <i>Dynamics of framework structures</i>
12:10 – 12:40	J M Perez-Mato - <i>Multidegeneracy and sliding mode in high-pressure phases of Cs and Rb</i>
12:40 – 13:00	A Troster - <i>Phase transitions in spin models: new results on obtained from Wang-Landau simulations in Fourier space</i>
13:00 – 14:30	Lunch
High Tc Superconductors I	
14:30 – 15:20	Y Sidis - <i>Magnetic properties of unconventional superconductors and parent materials</i>
15:20 – 15:40	Y Pogorelov - <i>Collapse of quasiparticle spectrum near antinodal points in d-wave superconductors</i>
15:40 – 16:00	L Benfatto - <i>Signature of Kosterlitz-Thouless behavior in layered superconductors: the role of the vortex-core energy</i>
16:00 – 16:30	Coffee Breack
Orbital and Charge Ordering II	
16:30 – 17:20	N Christensen - <i>Quantum dynamics of spins on a square lattice</i>
17:20 – 17:45	J Schlappa - <i>Observation of charge and orbital order in magnetite using resonant soft x-ray diffraction at Fe L_{2,3}-edge</i>
17:45 – 18:10	J Salafranca- <i>Magnetic and transport properties of manganite heterostructures</i>
18:10 – 18:30	A Lopes - <i>Local probe evidences for electrical polarization in charge ordered Pr_{1-x}Ca_xMnO₃ manganites</i>
19:30 – 20:30	Dinner
20:30 – 22:00	Round Table 'Multiferroics'

Friday, September 28

Ferroelectric Relaxors	
9:00 – 9:45	P Gehring - <i>Structure and dynamics of lead-based relaxor ferroelectrics</i>
9:45 – 10:25	J Petzelt - <i>Dielectric response and polar phonon dynamics in relaxor ferroelectrics</i>
10:25 – 11:00	J Hlinka - <i>Dynamics properties of relaxors: waterfall effect in revisited</i>
11:00 – 11:30	Coffee Break
Advances in Experimental Techniques	
11:30 – 12:10	J Kulda - <i>Neutron three-axis spectrometry beyond its conventional limits</i>
12:10 – 12:35	I Fischer - <i>Inelastic X-ray scattering from polycrystalline materials</i>
12:35 – 13:00	V N Strocov - <i>Soft-X-Ray RIXS and ARPES at high resolution: ADRESS beamline at Swiss Light Source</i>
13:00 – 14:30	Lunch
Phase Transitions	
14:30 – 15:00	T Janssen - <i>Phase transitions in aperiodic crystals</i>
15:00 – 15:20	M Fontana - <i>Relation between non linear optical properties and the structure of defects in doped LiNbO₃</i>
15:20 – 15:40	M Kempa - <i>High pressure lattice dynamics of PbTiO₃</i>
15:40 – 16:00	P Vilarinho - <i>Doping and oxygen partial pressure effects on the improper ferroelastic phase transition in SrTiO₃</i>
16:00 – 16:30	Coffee Breack
High Tc Superconductors II	
16:30 – 17:15	D Manske - <i>Spin fluctuation theory for high-Tc cuprates: a status report</i>
17:15 – 18:00	M Shi - <i>ARPES on High Tc superconductors</i>
18:00 – 18:35	E Cappelluti - <i>High-Tc superconductivity in unbalanced systems</i>
20:00 – 23:00	Conference Dinner

DyProSo XXXI, Porto. Portugal 2007

Saturday, September 29

	Nanosciences I
9:00 – 9:45	J Scott - <i>Dynamics of ferroelectric nanostructures</i>
9:45 – 10:20	E Lacaze - <i>Ordering on a crystalline substrate: from the monolayer to the liquid crystal bulk</i>
10:20 – 10:40	B Toudic - <i>Self-organization and structural instabilities in nanoporous aperiodic crystals</i>
10:40 – 11:00	W Schranz - <i>Glass transition of salol in nanoporous confinement</i>
11:00 – 11:30	Coffee Break
	Nanosciences II
11:30 – 12:10	P Ghosez - <i>Unexpected coupling between ferroelectric and antiferrodistortive instabilities in PbTiO₃/SrTiO₃ multilayers</i>
12:10 – 12:35	D Twarog - <i>Surface waves and resonances in auxetic materials. Effect of Surface Layers</i>
12:35 – 13:00	S. Ciuchi - <i>Dynamics of electrons at organic/dielectric interfaces: the physics of organic transistors</i>
13:00 – 13:15	Closing
13:30 – 14:30	Lunch

15:00 – 18:00	City guided tour (Depending on participants' number)
19:00 – 22:00	Dinner cruise (Depending on participants' number)