

Workshop on Structure and Magnetism in Multiferroics

7-8-9 February 2011

Meeting Room 163 – first floor

Programme

Monday, 7th February

13:30 - 14:20	<i>Registration in the ILL entrance</i>	
14:20 – 14:30	Opening address	
Chairperson: Patrick Bruno		
14:30 - 15:00	Multiferroic Oxides and Fluorides: New RRAM Devices	James F. Scott University of Cambridge, UK
15:00 – 15:30	Dynamical Magnetoelectric Interaction in Multi-orbital Mott Insulators	Maxim Mostovoy University of Groningen, The Netherlands
15:30 – 15:45	Imaging Multiferroic Domains using X-ray Polarization-enhanced Topography	Helen Walker ESRF, Grenoble, France
15:45 – 16:00	X-ray Resonant Magnetic Scattering of Strain Induced Multiferroic EuTiO ₃ Films	Philip Ryan Argonne National Laboratory, USA
16:00 – 16:30	<i>Coffee Break in the ILL entrance hall</i>	
Chairperson: Julio C. Cezar		
16:30 – 17:00	Structural Competitions in Bi-based Multiferroics Under High-pressure	Jens Kreisel CNRS/ Minatec, Grenoble, France
17:00 – 17:30	Multiferroicity due to Charge Ordering	Jeroen van den Brink IFW Dresden, Germany
17:30 – 17:45	Multiferroic Cupric Oxide: Also a Model System to Explain High-T _c Superconductivity?	Valerio Scagnoli Paul Scherrer Institute, Villigen, Switzerland
17:45 – 18:00	Probing Ferroelectricity in PbZr _{0.2} Ti _{0.8} O ₃ with Polarized Soft X-rays	Gerrit van der Laan Diamond Light Source, Didcot, UK
19:30	<i>Workshop Dinner in Grenoble</i>	

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Tuesday, 8th February

Chairperson: Luigi Paolasini		
15:30 – 16:00	Towards an Electric Control of Spintronics Devices	Agnès Barthélémy CNRS – Thales Group, Palaiseau, France
16:00 – 16:30	Switchable Magnetization and Polarization using Multiferroics	Josep Fontcuberta Institut de Ciència de Materials de Barcelona, Spain
16:30 – 17:00	<i>Coffee Break in the ILL entrance hall</i>	
17:00 – 17:30	Soft X-ray Scattering from Multiferroic Manganites	Stuart Wilkins Brookhaven National Laboratory, USA
17:30 – 17:45	Hard X-ray Dichroisms Studies of Multiferroic GaFeO ₃ Crystals	Andrei Rogalev ESRF, Grenoble, France
17:45 – 18:00	<i>Poster Clip Session</i>	
18:00 – 19:50	<i>Joint Poster Session & Cocktail in the Marquee</i>	
19:50	<i>UM Dinner in the ESRF/ILL restaurant</i>	

Wednesday, 9th February

Chairperson: Nick Brookes		
14:00 – 14:30	Antiferromagnetic and Ferrimagnetic Oxides to Generate Spin Induced Ferroelectrics	Antoine Maignan CNRS/ENSICAEN, Caen, France
14:30 - 15:00	Magnetoelectric Manganese Phosphorus Trisulfide MnPS ₃ : a New Candidate for Ferrotoroidicity ?	Eric Ressouche CEA, Grenoble, France
15:00 - 15:15	X-ray Diffraction with <i>In-situ</i> Electric Polarisation Measurements: Magneto-electric Coupling in Multiferroics	Roger D. Johnson University of Oxford, UK
15:15 – 15:45	<i>Coffee Break in the ILL entrance hall</i>	
Chairperson: Virginie Simonet		
15:45 – 16:15	Electromagnons in TbMnO ₃ : The Structural Origin of the Polar Activity	Maximilien Cazayous Université Paris Diderot, France
16:15 – 16:45	Investigation of Multiferroic Compounds in High Magnetic Field using Non-resonant X-ray Diffraction	Jörg Stropfer HASYLAB/Desy, Hamburg, Germany
16:45 – 17:00	Magnetic and Magnetoelectric Properties of Pyroxene Materials ACrX ₂ O ₆ : from Low Dimensionality to Magnetic Frustration	Gwilherm Nénert ILL, Grenoble, France