Functional Materials for Electronics Workshop 3 to 5 February 2014, ESRF Auditorium

09:00 - 09:15	Registration	
09:15 - 09:35	Welcome	
09.15 - 09.35		
	Session 1: X-Ray spectroscopy - Chaired by Nick Brookes	
09:35 - 10:05	Recent progress in EuS-based multilayers for room temperature spintronics	P. Poulopoulos University of Patras - Greece
10:05 - 10:35	Zinc Oxide - From Dilute Magnetic Doping to Spin Transport	M. Opel Walther-Meissner-Institut - Germany
10:35 - 11:05	Coffee break	
11:05 - 11:35	Probing nano- and interface magnetism in hybrid systems by nuclear resonant scattering	M. J. Van Bael KU Leuven - Belgium
11:35 - 11:55	XAS/XMCD studies of Ga ⁺ ions irradiation driven magnetization changes in ultrathin cobalt films	P. Mazalski University of Białystok - Poland
11:55 - 12:15	XMCD study of magnetoelectricity in L10 FePd ultrathin films	F. Bonell Osaka University - Japan
12:15 - 14:00	Lunch	
	Session 2: Devices: Structure and Strain -	- Chaired by Tobias Schülli
14:00 - 14:30	Strain field determination in micro and nanotechnologies using sub-micronic X-ray beams	P. Gergaud CEA-LETI, Grenoble - France
14:30 - 15:00	Shedding light on silicon solar cells	T. Lafford ESRF, Grenoble - France
15:00 - 15:30	Getting electronic materials ready for technology by Synchrotron research: In-operando and in-line characterization needs	T. Schroeder IHP Frankfurt/Oder -Germany
15:30 - 16:00	Coffee Break	
16:00 - 16:30	Perfect crystals grown on highly mismatched interfaces investigated by submicron diffraction	M. Meduna Masaryk Univ., Brno - Czech republic
16:30 - 16:50	In-situ nanofocused X-ray diffraction in combination with atomic force microscopy for in- situ mechanical testing of nanostructures	T.W. Cornelius Université Aix-Marseille - France
16:50 - 17:20	Strain and Defects in Epitaxial Graphene on a Metal Investigated by Diffraction Experiments	J. Coraux CNRS Grenoble – France
17:20 - 17:40	Imaging of Strain and Lattice Orientation by Quick Scanning X-ray Microscopy combined with 3D reciprocal	G. Chahine ESRF, Grenoble - France

Tuesday 4 th February 2014			
08:30 - 12:30	Users Meeting Plenary Session		
12:35 - 14:00	Lunch		
Parallel Session			
14:00 - 15:00	Beamline News, Structure of Materials Group	ESRF scientists and group leader	
15:00 - 15:30	Orbital reconstruction and interface magnetism in SrTiO3 based heterostructures	M. Salluzzo CNR-Naples - Italy	
15:30 - 16:00	Response of polar materials to electric fields studied by X-ray absorption spectroscopy	V. Ney J. Kepler University, Linz - Austria	
16:00 -16:30	Coffee Break		
16:30 - 16:50	Beamline News, Electronic Structure and Magnetism group	ESRF scientists and group leader	
16:50 - 17:15	Applying the K-mapping technique to determine the spatial lattice tilt, strain and composition distribution in SiGe buffer layers	M. H. Zoellner IHP Frankfurt/Oder - Germany	
17:15 – 17:40	Probing atomic charges at the electrochemical interface through Resonant Surface X-Ray diffraction	Y. Gründer University of Liverpool - UK	
17:40 – 18:05	Arrays of preformed Pt clusters on graphene in epitaxy on Ir(111)	S. Linas Institut Lumière Matière Université de Lyon 1, CNRS - France	
18:05 – 19:30	User Meeting Poster Session		

Wednesday 5 th February 2014			
08:30 - 12:30	Users Meeting Plenary Session		
12:35 - 14:00	Lunch		
	Session 3: In Situ Techniques - chaired by Chiara Maurizio		
14:00 - 14:30	Insight into functional modulated structures based on transition metal doped nitrides through synchrotron-based characterization	A. Bonanni Johannes Kepler Univ. Linz - Austria	
14:30 - 14:50	Full Field Monochromatic Diffraction Imaging of Silicon based Structures with a Fresnel Lens	O. Balmes ESRF, Grenoble - France	
14:50 - 15:10	Coherent X-ray imaging of single Au/Ag and GaN nanowires	M-I. Richard Université. Aix-Marseille - France	
15:10 - 15:40	In Situ X-ray Studies of the Synthesis of Wide Bandgap Semiconductors	P. Fuoss Argonne National Lab - USA	
15:40 - 16:10	Coffee Break		
16:10 - 16:40	Interface structure and ultrafast domain dynamics in epitaxial ferroelectric superlattices	P. Evans University of Wisconsin, Madison -USA	
16:40 - 17:00	Final Discussion		
17:00 - 17:20	Concluding Remarks by Thomas Schroeder		