



TO-BE Spring Meeting Program

Monday, March 30, 2015			
10:40	12:40	Registration + Core group meeting (close doors)	
12:40	13:40	Lunch	
13:40	14:00	Registration	
14:00	14:20	Welcome address	
14:20	15:00	Plenary Talk I - PI-01 - Elvira Fortunato - <i>Towards oxide based electronics</i> - Auditorium	
15:00	16:50	Symposium I - Auditorium Invited talk I-01 - <u>Van Der Marel</u> - <i>Fermi liquid behaviour in strongly correlated metals</i> O-01 - <u>Lorenz</u> - Novel amorphous and crystalline oxides for semiconducting electronic devices with state of the art performance O-03 - <u>Mattoni</u> - Imaging the Metal-Insulator Transition in NdNiO ₃ O-05 - <u>Ovsyannikov</u> - Superconducting and magnetic proximity effects at oxide cuprate/manganite interface O-07 - <u>Ghosez</u> - Interplay between lattice, spin, orbital and charge orders in bulk and layered ABO ₃ perovskites	Symposium III - Room A Invited talk - I-02 - <u>Alexe</u> - <i>Electronic effects in Photoferroelectrics</i> O-02 - <u>Fina</u> - Relation between short-circuit photocurrent and ferroelectric retention in BaTiO ₃ thin films O-04 - <u>McGilly</u> - Controlling domain wall motion in ferroelectric thin films O-06 - <u>Crassous</u> - Controlled formation of charged domain walls with metallic-like conductivity in ferroelectric thin films O-08 - <u>Plodinec</u> - Giant persistent photoconductivity in BaTiO ₃ /TiO ₂ heterostructures
16:50	17:10	Coffee break	
17:10	18:10	WG1 Organizational meeting - Room A	Poster Session I - Room B
18:10	18:30	Poster Session I - Room B	



Tuesday, March 31, 2015				
09:00	09:40	Plenary Talk II - PI-02 - Arie Zaban - <i>All-Oxide Photovoltaics: A Combinatorial Material Science Study</i> - Auditorium		
09:40	10:30	Symposium I - Auditorium		Symposium III - Room A
	09:40 10:10	Invited talk - I-03 - <u>Buechner</u> - <i>Tunable sub-THz ESR spectroscopy of complex transition metal oxides</i>		Invited talk - I-04 - <u>Weidenkaff</u> - <i>Perovskite-type semiconductors for solar energy conversion</i>
	10:10 10:30	O-09 - <u>Bianconi</u> - Controlling and X-ray imaging nanoscale phase separation for transition metal oxides functionality		O-10 - <u>Burriel</u> - Transforming La _{0.8} Sr _{0.2} MnO ₃ into a good mixed ionic-electronic conductor through nanoengineering: grain boundaries as oxygen diffusion highways
10:30	10:50	Coffee break		
	10:50 11:10	O-11 - <u>Maritato</u> - Characterization of defect states in electron doped Sr _{1-x} LaxCuO ₂ cuprate thin films by near-edge x-ray absorption spectroscopy		O-12 - <u>Manca</u> - Reversible oxygen vacancies doping in (La _{0.7} Sr _{0.3})MnO ₃ microbridges by combined self-heating and electromigration
	11:10 11:30	O-13 - <u>Schmitt</u> - Probing the ground state oxygen holes and the metal-insulator transition in strained rare earth nickelate films with Resonant Inelastic X-ray Scattering		O-14 - <u>Yang</u> - Nanoscale electrochemical investigation on SDC thin films for μ -SOFCs applications
11:30	12:00	Horizon 2020 - Marta Candeias and Sofia Azevedo, Gabinete de Promoção do Programa-Quadro (GPPQ) - Auditorium		
12:00	13:00	WG0 Meeting - Room A		
13:00	14:20	Lunch		
14:20	15:50	Industry - Auditorium	Symposium II - Room A	14:20 15:50
	14:20 14:50	Invited talk - I-05 - <u>Benvenuti</u> - <i>Chemical Beam Epitaxy</i>	Invited Talk - I-06 - <u>Dabkowska</u> - <i>Trends in Crystal Growth of Magnetic Oxide</i>	14:20 14:50
	14:50 15:20	Invited talk - I-07 - <u>Dekkers</u> - <i>SolMateS' new PLD platform; the lab-to-fab stepping stone for applications of functional thin films</i>	O-15 - <u>Vecchione</u> - Crystal growth and low-temperature magnetic phases of the non-centrosymmetric Ba ₂ CuGe ₂ O	14:50 15:10
	15:20 15:50	Invited talk - I-08 - <u>Rogers</u> - <i>ZnO: from the Laboratory to Commercialisation</i>	O-16 - <u>Gajovic</u> - Preparation and properties of TiO ₂ based one dimensional nanostructures decorated by Ag and modified in	15:10 15:30
			O-17 - <u>Kalska-Szostko</u> - Role of iron oxides on magnetic properties of nanoparticles	15:30 15:50
15:50	16:10	Coffee break		
16:10	17:10	WG2 Organizational meeting - Room A	Poster Session II - Room B	
17:10	18:10	Poster Session II - Room B		
19:00	00:00	Social Program		



Wednesday, April 1, 2015				
09:00	09:40	Plenary Talk III - PI-03 - Jeroen Van Den Brink - <i>Resonant Inelastic X-ray Scattering on high T_c cuprates and magnetic iridate:- Auditorium</i>		
09:40	11:00	<div>Symposium I - Auditorium</div> <div>Symposium II - Room A</div>		
	09:40 10:10	Invited talk - I-09 - <u>Bibes</u> - <i>Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces</i>	Invited talk - I-10 - <u>Farokhipoor</u> - <i>Functional properties of domain walls in BiFeO₃ and TbMnO₃ thin films</i>	
	10:10 10:30	O-18 - <u>Coke</u> - Electron Transport at the ZnMgO – ZnO Interface	O-19 - <u>Komissinskiy</u> - Epitaxial thin-film Ba _x Sr _{1-x} TiO ₃ ferroelectric varactors with highly-conducting oxide SrMoO ₃ electrodes	
	10:30 10:50	O-20 - <u>Skiadopoulos</u> - Spin and lattice excitations of BiFeO ₃ ceramics and thin films	O-21 - <u>Munoz-Rojas</u> - Spatial Atomic Layer Deposition (SALD): fast, atmospheric & large-area “printing” of functional oxides. Application in new generation solar cells	
11:00	11:20	Coffee break		
11:20	11:50	Industry Plenary Talk - PI-04 - Jean Fompeyrine - <i>Oxides for photonics</i> - Auditorium		
11:50	12:50	<div>Symposium I - Auditorium</div> <div>Symposium III - Room A</div>		
	11:50 12:10	O-22 - <u>Solmaz</u> - Domain Engineering in BiFeO ₃ Thin films by Modifying the SrTiO ₃ Substrate Termination	Invited talk - I-11 - <u>Levy</u> - <i>Oxide Nanoelectronics On Demand</i>	11:50 12:20
	12:10 12:30	O-23 - <u>Hallstensein</u> - Interface coupling in (111)-oriented epitaxial heterostructures of ferromagnetic La _{0.7} Sr _{0.3} MnO ₃ and antiferromagnetic LaFeO ₃ on Nb:SrTiO ₃ (111)	Invited talk - I-12 - <u>Garcia</u> - <i>Memristors based on ferroelectric tunnel junctions</i>	12:20 12:50
	12:30 12:50	O-24 - <u>Monteiro</u> - Giant negative magnetoresistance driven by spin-orbit coupling at the LaAlO ₃ /SrTiO ₃ interface		
12:50	14:00	Lunch		
14:00	16:00	<div>Symposium I - Auditorium</div> <div>Symposium II - Room A</div>		
	14:00 14:20	O-25 - <u>Koitzsch</u> - Universal electronic structure of polar/nonpolar oxide heterointerfaces from x-ray spectroscopy	Invited talk - I-13 - <u>Varela</u> - <i>Competition between covalent bonding and charge transfer at ferromagnetic/superconducting oxide interfaces</i>	14:00 14:30
	14:20 14:40	O-26 - <u>Koelle</u> - Imaging electric conductivity at the LaAlO ₃ /SrTiO ₃ interface: evidence for highly conductive twin boundaries and their electric field-induced generation in conducting SrTiC ₂	O-27 - <u>Mechin</u> - Free-standing La _{0.7} Sr _{0.3} MnO ₃ thin films on silicon for uncooled bolometers	14:30 14:50
	14:40 15:00	O-28 - <u>Smink</u> - Advances in top-gating LaAlO ₃ -SrTiO ₃ heterointerfaces	O-29 - <u>Rastogi</u> - Tailoring the magnetism in LaMnO ₃ thin film+F41s	14:50 15:10
	15:00 15:20	O-30 - <u>Gunkel</u> - Transport limits in defect-engineered LaAlO ₃ /SrTiO ₃ bilayers	O-31 - <u>Rubio Zuazo</u> - Interface role on the magnetic and electric dead layer on La _{0.7} Ca _{0.3} MnO ₃ thin films	15:10 15:30
	15:20 15:40	O-32 - <u>Di Gennaro</u> - Photoresponse dynamics in amorphous-LaAlO ₃ /SrTiO ₃ interfaces	O-33 - <u>Rivadulla</u> - Room temperature ferromagnetism in thin films of LaMnO ₃ deposited by a chemical method over large areas	15:30 15:50
	15:40 16:00	O-34 - <u>Chen</u> - Charge transfer induced modulation doping at complex oxide interfaces	O-35 - <u>Benvenuti</u> - Nano 3D-printing of multi-functional materials	15:50 16:10
16:10	16:30	Coffee break		
16:30	17:50	WG3 Organizational meeting - Room A		
17:50	18:30	Free discussion Time		



Thursday, April 2, 2015				
09:00	09:40		Plenary talk IV - PI-05 -Patrik Schmuki - <i>Anodic growth and use of highly aligned metal-oxide nanostructures</i> - Auditorium	
09:40	11:10		Symposium I - Auditorium	Symposium II - Room A
	09:40	10:10	Invited talk - I-14 - <u>Picozzi</u> - <i>Coupling ferroelectricity with spin-valley physics in oxide heterostructures</i>	Invited talk - I-15 - <u>Leca</u> - <i>Closing the circle: d-wave order parameter symmetry in the electron doped $Sr_{1-x}La_xCuO_2$</i>
	10:10	10:30	O-36 - <u>De Luca</u> - Coexisting Ferro- and Antiferro-Magnetic orders in multiferroic BiMnO ₃ epitaxial films	O-37 - <u>Sambri</u> - The role of plume expansion dynamics in the LaAlO ₃ /SrTiO ₃ thin films stoichiometry
	10:30	10:50	O-38 - <u>Barone</u> - Jahn-Teller distortions as a novel source of multiferroicity	O-39 - <u>Aurino</u> - Mechanisms of metal-insulator transition in Ar ⁺ ion irradiated LaAlO ₃ /SrTiO ₃ two-dimensional electron gas
10:50	11:10		Coffee break	
11:10	11:50	11:10 11:30	O-40 - <u>Santamaria</u> - Tunneling devices based on confined electronic states at ferroelectric domain walls	O-41 - <u>Goswami</u> - Nanoscale Electrostatic Confinement at Oxide Interfaces
		11:30 11:50	O-42 - <u>Woerdenweber</u> - Anisotropically Compressive and Tensile Strained Epitaxial Ferroelectric Films	O-43 - <u>Castro</u> - Bottom-up nanopatterning of BiFeO ₃ for advanced electronic applications
11:50	12:20		Closing remarks - Auditorium	
12:30	14:00		Lunch	