

PROGRAM WORKSHOP UFOX

UNIVERSITY OF SALERNO 7-8 JULY 2016

Thursday, July 7th, 2016		
08:45		Opening and Welcome: Prof. R. Scarpa, Director of the Department of Physics and Dr. A. Vecchione, Deputy Director of CNR-SPIN Salerno
09:00	Chair F. Miletto Granozio	Invited M. Bibes "Interfaces between strongly correlated oxides: controlling charge transfer and induced magnetism by hybridization"
09:30		Invited G. Sangiovanni "First-order topological phase transitions with correlated electrons"
10:00		Oral A. Sambri "LaAlO ₃ thin films grown in high pressures regimes: the role of plasma dynamics on cations off-stoichiometry"
10:20	Coffee break	
10:50	Chair M. Cuoco	Invited C. Giannetti "Probing the local charge and spin dynamics in correlated materials via the coupling with high-energy electronic excitations"
11:20		Invited M. Salluzzo "Tunable spin polarized and superconducting 2D-electron gas at engineered oxide interfaces"
11:50		Oral C. Fatuzzo "Synchrotron spectroscopic experiments on ruthenates"
12:10		Oral A. Avella "Defects, disorder, and strong electron correlations in orbital degenerate, doped Mott Insulators"
12:30		Oral C. Autieri "Interface control of electronic transport across the magnetic phase transition in SrRuO ₃ /SrTiO ₃ heterointerface"
12:50	Lunch	

13:45	Poster Session	
14:30	Chair <i>A. Vecchione</i>	Invited E. Pomjakushina "High oxygen pressure synthesis and crystal growth of transition metal complex oxides"
15:00		Oral N. Manca "Growth and lithographic processing of ultrathin SrIrO ₃ films for magnetotransport experiments"
15:20		Oral N. Gauquelin "Determining the structure/property relation at oxide interfaces by means of advanced TEM spectroscopy and imaging"
15:40		Oral R. Citro "Meissner to vortex phase transition in spin-orbit coupled ladders"
16:00	Coffee break & Poster discussion	
16:30	Chair <i>W. Brzezicki</i>	Invited G. Khaliullin "Soft-spins, excitonic magnetism, and the Higgs mode in ruthenates"
17:00		Oral F. Forte "Spin-orbital nature of the high-field magnetic state in the Sr ₄ Ru ₃ O ₁₀ "
17:20		Oral D. Vaz "Metal-induced interfacial conductivity at LaAlO ₃ /SrTiO ₃ interfaces"
17:40		Oral S. Fatale "Ti L ₃ edge RIXS investigation of ferroelectric BaTiO ₃ "
19:30	Social Dinner	

Friday, 8th July, 2016

09:00	Chair F. Miletto Granozio	Invited H. Hilgenkamp "Tunable transport in oxide thin films and heterostructures"
09:30		Invited K. Wohlfeld "Is charge and spin degree of freedom effectively decoupled in the 2D Hubbard model? "
10:00		Oral A. Galdi "Carrier confinement in p-doped homometallic heterostructures based on strongly correlated oxides"
10:20		Oral E. Maniv "Strong correlations elucidate the electronic structure and the phase diagram of LaAlO ₃ /SrTiO ₃ interface"
10:40	Coffee break & Poster discussion	
11:00	Chair C. Noce	Invited F. Parmigiani "Non-Equilibrium-Mott-like electronic excitations in high-temperature cuprate superconductors"
11:30		Invited M. Capone "Noncentrosymmetric metals, strong correlations and the design of a high-temperature multiferroic"
12:00		Oral V. Pomjakushin "Magnetic structure determination from the combined use of representation analysis and magnetic crystallographic symmetry"
12:20		Oral P. Gentile "Edge states and topological insulating phases generated in non-uniform Rashba spin-orbit nanostructures"
12:40		Oral A. Guarino "Disorder-sensitive pump-probe measurements on Nd _{1.83} Ce _{0.17} CuO _{4±d} films"
13:00	Lunch	

14:30	Chair A. Vecchione	Invited A.M. Oles "Modifications of spin-orbital order in hybrid d^4-d^3 and d^4-d^2 oxides"
15:00		Invited A. Bombardi "Magnetoelastic symmetry breaking in multiferroic BiFeO_3 films"
15:30		Oral S. K. Myana "Pulsed Laser deposition $\text{Sr}_2\text{FeMoO}_6$ thin films grown on spark plasma sintered Sr_2MgWO_6 polycrystalline substrates"
15:50		Oral P. Marra "Manipulating Majorana edge states via amplitude-modulated magnetic fields"
16:10	Coffee break	
16:30	Chair M. Cuoco	Invited Y. Maeno "Superconductivity in Antiperovskite Dirac-metal Oxide Sr_3SnO "
17:00		Oral Y. Dagan "From 2D to 1D: new oxide interfaces"
17:20		Oral A. Di Bernardo "p-wave triggered superconductivity in single layer graphene on an electron-doped oxide superconductor"
17:40		Oral P. Graziosi "Spin gapless semiconductor oxides: the case of doped PbPdO_2 "
18:00	Closing Remarks	