Programme

Sunday, September 15, 2013

18:00 Registration19:00 Welcome reception

IX Update: 09/11/13, 10:27

dyProSo XXXIV, September 15-19, 2013 Faculty of Physics, University of Vienna, Austria Monday. September 16. 2013

	Monday, September 10, 2015
08:30	Registration
08:45	Opening Multiforming
00.00	Multiferroics I
09:00	Nicola Spaldin Cosmic strings in multiferroics
09:40	Pierre Tolédano Magnetoelectric effects in antiferromagnets, weak ferromagnets and
10:20	magnetic monopole-like systems Annette Bussmann-Holder
	EuTiO₃: an almost multiferroic material with surprising novel strong spin- lattice coupling at elevated temperatures
10.45	Coffee break
	Phonons, magnons and electromagnons
11:15	Standa Kamba
	Electromagnons: Electrically active spin excitations
11:55	Przemyslaw Piekarz
	Lattice dynamics in the rare-earth crystals and nanostructures
12:20	Lunch
14:00	Jirka Hlinka
	Unfolded phonon dispersion of antiferroelectric PbZrO₃
14:25	Istvan Kezsmarki
	Novel optical phenomena in multiferroics
14:50	Peter Babkevich
	LiErF₄ : a model dipolar-coupled antiferromagnet
15:15	Alexandre Ivanov
	Phonon dispersion in symmetry related crystal structures: metallic phases
	in Sn
15:40	Coffee break
	Materials at extreme pressure
16:10	Sergio Speziale
10110	The elastic anisotropy of dense materials at extreme conditions:
	Experimental approaches and implications for deep Earth geophysics
16:50	Mael Guennou
	Combined instabilities of perovskites under pressure: BiMnO₃ and related
	Bi-based perovskites
17:30	J. Agostinho Moreira
	Unraveling the effect of high pressure in rare-earth manganites
17:55	Andreas Tröster
	High Pressure Landau Theory Applied to Strontium Titanate
18:30	Wine/Beer Poster session

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Tuesday, September 17, 2013

	Tuesday, September 17, 2013
08:30	Registration
	Amorphous, liquid and soft matter
09:00	Gerhard Gruebel
	Local Order in Liquids and Glasses
09:40	Leif Eric Hintzsche
	Defect states at c-Si/a- Si₃N _x H _y interfaces
10:05	Bogdan Sepiol
	Atomic diffusion in network-forming glasses studied with X-ray photon
10:30	correlation spectroscopy Vasily Artemov
10.50	Proton dynamics in liquid water and ice
	Froton dynamics in aquid water and ice
10:55	Coffee break
. 0.00	SST, GC STCSIX
	Relaxors
11:25	Francesco Cordero
	Polar and antiferrodistortive modes and their coupling in PZT by dielectric
	and anelastic measurements
12.05	Lunch
12:05	Lunch
14:00	Marco Deluca
1 1100	Raman spectroscopy of lead-free relaxor ceramics
14:40	Rasa Pirc
	From lattice model to quantitative theory of relaxor ferroelectrics
15:05	Anna Böhmer
	Nematic susceptibility of hole- and electron-doped BaFe ₂ As ₂ iron-based
45.20	Superconductors
15:30	Jan Petzelt Broadband dielectric spectroscopy of Ba(Zr,Ti)O₃: dynamics of relaxors and
	diffuse ferroelectrics
	ujjuse jerioetectrics
15:55	Coffee break
	Carbon-based materials I
16:25	Brian LeRoy
47.05	Imaging local electronic properties of graphene
17:05	Janina Maultzsch
17:45	Resonance behavior of defect-induced Raman modes in carbon nanotubes Miro Haluška
17.45	Monitoring the fabrication process flow of SWCNT field effect transistors
	using Raman spectroscopy
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18:30 Advisory Board Meeting

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Wednesday, September 18, 2013

	wednesday, September 18, 2013
08:30	Registration
	Phonons, magnons and electromagnons II
09:00	Alois Loidl
	Electromagnons
09:40	Uladzislau Dziom
	Optical activity of electromagnon in multiferroic manganite
10:05	Laura Chaix
	THz Magnetoelectric Atomic Rotations in the Chiral Compound
	Ba ₃ NbFe ₃ Si ₂ O ₁₄
10:30	Coffee break
11.00	
11:00	Michael Leitner
	Temperature-dependent phonons in Fe: Implications on thermodynamics
44.05	and diffusion
11:25	Björn Wehinger
44.50	Lattice dynamics of silica polymorphs
11:50	Piotr Zielinski
	Dynamics of curved surfaces. True and leaky surface waves in cylindrical cavities
12:15	Cene Filipic
12.13	Polarons in crystalline perfluorotetradecanoic acid monohydrate
	Totalons in crystatine perftablocetradecanoic acid mononyarate
12:40	Lunch
12.10	Editori
	Advances in experimental techniques and theory
14:20	Kai Rossnagel
	Shooting electronic structure movies with time-resolved photoemission
15:00	Michael A. Carpenter
	Elastic and anelastic relaxations associated with phase transitions in ferroic
	and multiferroic perovskites
15:40	Georg Kresse
	Methods beyond DFT: current status and future developments
16:20	Coffee break
46.50	Carbon-based materials II
16:50	Ludger Wirtz
	Graphene and graphite intercalation compounds: dependence of the
17.20	phonon dispersion on the environment
17:30	Jannik Meyer Evolution low dimensional page carbon materials by high secolution
	Exploring low-dimensional nano-carbon materials by high-resolution
	microscopy
20:00	Conference dinner
20.00	Com er ence diffiner

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dyProSo XXXIV, September 15-19, 2013 Faculty of Physics, University of Vienna, Austria **Thursday, September 19, 2013**

	Superconductors	
09:00	Philippe Bourges Novel magnetism in high-Tc copper oxides superconductors	
09:40	Jitae Park Resonant magnetic excitations in iron-based superconductors	
10:20	Christoph Meingast Thermodynamic study of the magneto-structural and superconducting transitions in Co-doped BaFe ₂ As ₂	
10:45	Coffee break	
11:15	Jozef T. Devreese Mechanisms of superconductivity in strontium titanate and in a LaAlO ₃ - SrTiO ₃ heterostructure Vladimir Kozhevnikov	
	Nonlocal effect and dimensions of Cooper pairs in Pippard superconductors	
12:05	Refreshments	
Multiferroics II		

Multiferroics II		
13:00	Manfred Fiebig	
	Extended magnetoelectric functionalities in improper ferroelectrics	
13:40	Rui Vilarinho Silva	
	Competing magnetic interactions and Spin-Phonon Coupling in	
	Magnetoelectric Y-Substituted GdMnO₃	
14:05	Markus Braden	
	Neutron scattering studies on chiral multiferroics	
14:45	Ekhard K. H. Salje	
	Noise and Pattern Formation in Ferroic Materials	

15:30 Closing

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