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2nd International Conference and Exhibition on

Mesoscopic and Condensed Matter Physics

October 26-28, 2016 Chicago, Illinois, USA

Scientific Program

Day 1 October 26, 2016

Hall

conferenceseries.com 08:30-08:55 Opening Ceremony

Keynote Forum		
08:55-09:00	Introduction	
9:00-9:30	Title: In-situ electron paramagnetic resonance studies of paramagnetic point defects in superconducting microwave resonators Nathan Newman, Arizona State University, USA	
9:30-10:00	Title: Photonic applications with a protein complex D V G L N Rao, University of Massachusetts, USA	
10:00-10:30	Title: Theory of thermal expansion of magnetic superconductors Rikio Konno, Kindai University Technical College, Japan	
	Networking & Refreshment Break 10:30-10:50	
Sessions: Condensed Matter Physics Bio-Physics and New Dimension in Technology Statistical Machanics of Condensed Matter Systems		
Session Chair	: Himanshu Verma, University of South Florida, USA	
Session Co-ch	air: Igor Tralle, University of Rzeszow, Poland	
	Session Introduction	
10:50-11:10	Title: Scanning tunneling microscopy across a superconductor/topological insulator interface	
10.00-11.10	Stuart Tessmer, Michigan State University, USA	
11:10-11:30	Title: Braiding of majorana fermions and topological quantum computation	
11.10-11.50	Louis H Kauffman, University of Illinois at Chicago, USA	
11:30-11:50	Title: Electronic and magnetic behaviors of 2D atom-thin layers: Graphene, black phosphorus, hexagonal boron-nitride and MoS2	
	Junji Haruyama , Aoyama Gakuin University, Japan	
11:50-12:10	Title: Quantum entanglement in electron ballistic transport and jaynes-cummings model Igor Tralle, University of Rzeszow, Poland	
12:10-12:30	Title: Mott-insulators vs. bipolaronic insulators in a deformable lattice and their transitions to metallic ground states by tuning the deformation potential	
	Gayan Prasad Hettiarachchi, Osaka University, Japan	
12:30-12:50	Title: The phase transition in cerium metal studied by an LDA + Gutzwiller method	
12.30-12.30	Haifeng Song, Institute of Applied Physics and Computational Mathematics, China	
12:50-13:10	Title: Melting and transport properties of aluminium at high pressure from ab initio molecular dynamics simulations	
	S C Wang, Institute of Applied Physics and Computational Mathematics, China	
	Lunch Break 13:10-14:00	
14:00-14:20	Title: The properties of α and β -UH ₃ under extreme conditions (stretching and compressing strains): An ab initio study	
	Hongzhou Song, Institute of Applied Physics and Computational Mathematics, People's Republic of China	

Panel Discussion

Sessions: Solid State Physics and Crystallography | Quantum Physics in Condensed Matter and Mesoscopic Physics

Session Chair: C S Ting, University of Houston, USA			
Session Co-chair: Rita John, University of Madras, India			
14:20-14:40	Title: Novel electronic properties of hydrogenated grapheme: The first principles calculations		
	C S Ting, University of Houston, USA		
14:40-15:00	Title: Theoretical investigation on 2D materials: graphene, silicene, germanene, and stanene		
	Rita John, University of Madras, India		
15:00-15:20	Title: The collective effect of magnetic holes of different dimensions in superparamagnetic continnum		
	subjected to gradient magnetic field: A bireferengence study		
	P M Trivedi, Bhavan's Sheth R A College of Science, India		
15:20-15:40	Title: Improved electrochromic performance of WO3/PPy thin films		
	Anamika Vitthal Kadam, D Y Patil College of Engineering and Technology, India		
15:40-16:00	Title: Topological quantum states visulized by ARPES: From topological kondo insulator to Weyl semimetal		
13:40-10:00	Nan Xu, Paul Scherrer Institut, Switzerland		
Networking and Refreshments 16:00-16:20			
16:20-16:40	Title: Numerical modeling of exciton-light coupling in quantum wells		
	Pavel Belov, Saint Petersburg State University, Russia		
16:40-17:00	Title: Quantum computation with fibonacci anyons		
10:40-17:00	Claire Levaillant, University of California at Santa Barbara, USA		
17:00-17:20	Title: Study of radiation effects on photoelectric and luminescence parameters of two-barrier structures		
	based on silicon		
	F P Abasov, Institute of Radiation Problems of NAS of Azerbaijan, Azerbaijan		
17:20-17:40	Title: The thermodynamic and optical properties of diamond: A first-principles study		
	Qili Zhang, Institute of Applied Physics and Computational Mathematics, China		
Video Presentation			
17:40-18:00	Title: Degeneracy and interference quantum effects in phase space distribution functions: Path integral		
	A S Larkin, Joint Institute for High Temperatures-RAS, Russia		
Panel Discussions			
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Day 2 October 27, 2016		
	Hall	
Keynote Forum		
08:45-09:15	Title: Exploration of intermediate phases of matter on surfaces	
	Michael W Roth, Northern Kentucky University, USA	
09:15-09:45	Title: Topological phase transitions and a two-dimensional Weyl superconductor in a superconductor/half-metal	
	heterostructure	
	C S Ting, University of Houston, USA	
Session:		
Nano and Mesoscopic Scale		
Session Chair: Elie. A Moujaes, Federal University of Rôndonia, Brazil		
Session Co-chair: Yuko Ichiyanagi, Yokohama National University, Japan		
	Session Introduction	
09:45-10:05	Title: Fundamental mechanisms that determine the loss tangent and temperature coefficient of resonant	
	frequency ($ au$ f) in modern microwave ceramic dielectrics	
	Nathan Newman, Arizona State University, USA	
10:05-10:25	Title: Strongly localized isoelectronic impurities for synthesizing novel semiconductor alloys	
	Kington Albert, Martinez Develophile, France, Jack Street, 1984	

Kirstin Alberi, National Renewable Energy Laboratory, USA

10:25-10:45Title: Local structure analysis and biomedical applications of multifunctional magnetic nanoparticles
Yuko Ichiyanagi, Yokohama National University, Japan

	Networking & Refreshment Break 10:45-11:05
	Title: Magnetization of ultrathin [Fe1-cNic]n alloy nanojunctions between Fe or Co leads using an EFT-MFT
11:05-11:25	model
	Elie A Moujaes, Federal University of Rôndonia, Brazil
11:25-11:45	Title: Electronic structure of graphene wormhole and graphitic nanocone
	Jan Smotlacha, Joint Institute for Nuclear Research, Russia
	Title: Synthesis and characterization of Zn-substituted lithium cobalt ferrite using sol-gel autocombustion for
11:45-12:05	a cathode material in lithium ion batteries
	Mukhtar Ahmad, COMSATS Institute of Information Technology, Pakistan
10.05 10.05	Title: Transport properties of "man-made" crystalline: Semiconductor superlattice
12:05-12:25	M Kofoworola Awodele, Ladoke Akintola University of Technology, Nigeria
	Title: Nanosensors based on single and multiple metal oxide nanostructures
12:25-12:45	Tonezzer Matteo, The Istituto dei Materiali per l'Elettronica ed il Magnetismo-CNR, Trento, Italy
	Title: Enhancement of sensitivity in gas chemiresistors based on carbon nanotube surface functionalized
12:45-13:05	with substituted phthalocyanines
	Anshul Kumar Sharma, Guru Nanak Dev University, India
	Lunch Break 13:05-14:00
	Title: AFM controlled studies of nanoscale polymeric spheres on a Si substrate
14:00-14:20	Himanshu Verma, University of South Florida, USA
14:20-14:40	Title: Emission, structure and aging of silver doped ZnO nanorod films
	T V Torchynska, Instituto Politécnico Nacional, México
	Panel Discussion
Session:	Panel Discussion
Meta Materia	Panel Discussion Is and Magnetic Materials
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Day 3 October 28, 2016		
	Hall	
Sessions:		
	ivity and Superfluidity Organic Electronics Theoretical and Experimental study of Soft Matter	
Session Chair: Ranjan Chaudhury, S N Bose National Center For Basic Sciences, India		
Session Co-ch	nair: Myung Joon Han, KAIST Institute for interdisciplinary research, Korea	
	Session Introduction	
09:30-09:50	Title: The rich landscape of organic molecules on graphitic surfaces: What molecular dynamics shows	
07.00-07.00	Michael W Roth, Northern Kentucky University, USA	
	Title: Reduced dimensionality and emerging material property in perovskite oxide superlattices: A first-	
09:50-10:10	principles study	
	Myung Joon Han, Korea Advanced Institute of Science and Technology, Korea	
10:10-10:30	Title: Spin superfluidity in the frustrated two-dimensional anisotropic XY model	
	Leonardo dos Santos Lima, Centro Federal de Educação Tecnológica de Minas Gerais, Brazil	
	Networking & Refreshment Break 15:40-16:00	
10:50-11:10	Title: Functional oxide nanoarchitectures for emerging energy and clinical technologies	
	Oomman K Varghese, University of Houston, USA	
	Title: Effect of metal-ions (Sn and Li) doping on the structural, optical and gas sensing properties of $\ln_2 O_3$	
11:10-11:30	nanocrystalline thin films	
	S N Pandey, Motilal Nehru National Institute of Technology, India	
11:30-11:50	Title: Local properties study of substituted Sr-Ca-Cu-O superconducting structur	
	A Sklyarova, Nagaoka University of Technology, Japan	
11 50 10 10	Title: Microscopic understanding of high temperature superconductivity and its possible role towards	
11:50-12:10	enhancement of critical temperature Ranjan Chaudhury, S N Bose National Center For Basic Sciences, India	
	Title: Dielectric relaxation study and molecular interaction of amides in 1, 4-dioxane by using time domain	
12.10-12.30	reflectometry	
12.10-12.00	Gajanan Ramrao Mahajan, Shri Datta Arts, Commerce and Science College, India	
	Title: Morphological studies of virgin and ion irradiated nanostructured Baf2 thin films surfaces	
12:30-12:50	S N Pandey, Motilal Nehru National Institute of Technology, India	
	Title: Electron-phonon interaction in nanostructures at sub-Kelvin temperaturese	
12:50-13:10		
	Horia Hulubei, Romania	
	Lunch Break 13:10-14:00	

Bookmark your dates

Awards and Closing Ceremony

3rd International Conference and Exhibition on

Condensed Matter Physics and Materials

October 16-18, 2017 Atlanta, USA

4th International Conference and Exhibition on

Theoretical and Condensed Matter Physics

November 6-7, 2017 Toronta, Canada

e-mail: condensedmatter@physicsconferences.org; condensedmatterphysics@conferenceseries.net Website: condensedmatterphysics.conferenceseries.com/

Panel Discussion