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3rd International Conference and Exhibition on Condensed Matter Physics 2017

Theoretical and Condensed Matter Physics

October 19-21, 2017 New York, USA

Tentative Scientific Program

Note: Date and Timings in this Tentative Program are subject to change

Day 1
October 19, 2017

07:30-08:30	**Registrations**
08:30-08:55	**Opening Ceremony**
	Keynote Forum
08:55-09:00	**Introduction**
09:00-09:30	**Title:** Memristors – A New Technology Paradigm **Mehdi Anwar,** University of Connecticut, Storrs, USA
09:30-10:00	**Title:** Transport Theory in Condensed Matter Physics-Metamaterial is Phase Transition **Woon Siong Gan,** Acoustical Technologies Singapore Pte Ltd, Singapore
10:00-10:30	**Title:** Proposed link between the periodic table and The standard model **John O Roberts,** University of Liverpool, UK
10:30-11:00	**Title:** The History of Spin Fluctuation Theory in Itinerant Electron Systems **Rikio Konno,** Kindai University Technical College, Japan
	Networking & Refreshment Break 11:00-11:20
Track 1: Condensed Matter Physics	
	Session Introduction
Session Chair: Yshai Avishai, Ben Gurion University, Israel	
Session Co-Chair: YTD	
11:20-11:40	**Title:** Universal and system-specific charge density wave features in 2H-transition metal dichalcogenides **Utpal Chatterjee,** University of Virginia, USA
11:40-12:00	**Title:** Spin-Orbit Interaction and Topological States in Spin 3/2 Cold Atomic Gas **Yshai Avishai,** Ben Gurion University, Israel
12:00-12:20	**Title:** Inspired by Photonics - unconventional electron flow across 2-D P-N junctions **Avik Ghosh,** University of Virginia, USA
12:20-12:40	**Title:** Structural and Optical Properties of the MoTe2-WTe2 Alloy System **Patrick M Vora**, George Mason University, USA
12:40-13:00	**Title:** Model of Classical Thermodynamics Based on Partition Theory, Earth Attraction, and Semiclassical Asymptotics **V P Maslov,** National Research University Higher School of Economics, Russia
	Lunch Break 13:00-14:00
14:00-14:20	**Title:** Absorption processes and their relationship with the transport processes in semiconductors **Ceballos Garzón Ricardo** and **Carrillo Guerrero Sergio**, National University of Colombia, Colombia
14:20-14:40	**Title:** Phonon interference and emergence of energy wave packets **Anant Raj,** North Carolina State University, USA
14:40-15:00	**Title:** Effect of phase transition on spin transport in quantum frustrated antiferromagnets **Leonardo dos Santos Lima,** Centro Federal de Educação Tecnológica de Minas Gerais, Brazil
15:00-15:20	**Title:** Environmental heat conversion into usable energy as a quantum effect of the matter-field dynamics **Eliade Stefanescu,** Advanced Studies in Physics Centre of the Romanian Academy, Romania
	Speaker Opportunity Available
	Session Discussion
Session Chair: YTD	
Session Co-Chair:	
Track 2: Theoretical Physics	
15:20-15:40	**Title**: Fundamental Physics Experiment Reveals Origin Construct Of DNA **Manuel S Morales,** USA
15:40-16:00	Title: Gab-less Semiconductor Model for Relativistic Particles **Holger Bech Nielsen,** Niels Bohr Institute, Denmark
	Networking & Refreshment Break 16:00-16:20
16:20-16:40	**Title**: Pseudobosons and Quasiphonons: the hidden side of Bogoliubov collective excitations **Loris Ferrari,** University of Bologna, Italy
16:40-17:00	**Title**: Quantum Physics as Dynamic Space-Time Differential Calculus **Eugene Machusky,** National Technical University of Ukraine, Ukraine
17:00-17:20	**Title:** Synthesis of graphene-Fe magnetic nanofluid for enhancement of water thermal conductivity **Mohamed İbrahim,** Süleyman Demirel University, Turkey
17:20-17:40	**Title:** First Principle Calculation of Lattice Constants and Formation Energy for Generalized Quasirandom Structures of InGaN Alloy **Rohin Sharma,** Kathmandu University, Nepal
17:40-18:00	**Title:** Structural, optical and gas sensing properties of swift heavy ions irradiated metal oxide thin films **Azher M Siddiquia,** Jamia Millia Islamia University, India
18:00-18:20	**Title**: SnO2/TiO2 Nanohexagon Arrays Heterojunction Photoanode Based Dye-Sensitized Solar Cells with Enhanced Performance **Hafiz Muhammad Asif Javed,** University of Agriculture Faisalabad, Pakistan

	Session Discussion
	Speaker Opportunity Available
	Cocktails Sponsored by : Journal of Material Sciences and Engineering
	Day 2 **October 20, 2017**
	Keynote Forum
09:00-09:30	**Title:** Atomic Dynamics in Liquid in Real Space and Time: Toward the Liquid-State-Physics **Takeshi Egami,** University of Tennessee, USA
09:30-10:00	**Title:** Environmental heat conversion into usable energy as a quantum effect of the matter-field dynamics **Eliade Stefanescu,** Advanced Studies in Physics Centre of the Romanian Academy, Romania
10:00-10:30	**Title:** Electronic Structure of Inverse Opal- and Nanoparticulate- TiO2 Electrodes **Taro Toyoda,** The University of Electro-Communications, Japan
10:30-11:00	**Title: The interplay between off-stoichiometry and intrinsic point defects in quaternary compound semiconductors** **Susan Schorr,** Freie University, Germany
	Networking & Refreshment Break 11:00-11:20
Track 1 : Condensed Matter Physics Physics	
	Session Introduction
Session Chair: YTD	
Session Co-Chair:	
11:20-11:40	**Title:** Strongly correlated electrons in two-dimensional quantum world **Sergey V Kravchenko,** Northeastern University, USA
11:40-12:00	**Title:** Density matrix in description of the collision of atomic particle with solid film **Gennadiy Filippov**, Chuvash State Agricultural Academy, Russia
12:00-12:20	**Title:** A Diatomic chain with a mass impurity **Ming B Yu,** USA
12:20-12:40	**Title:** Theory of Thermal Expansion of Localized Paramagnons **Rikio Konno,** Kindai University Technical College, Japan
12:40-13:00	**Title:** Influence of multiorbital and anisotropic Coulomb interactions on isotope effect coefficient in doped Fe-based superconductors **Luxmi Rani,** Physical Research Laboratory, India
	Lunch Break 13:00-14:00
14:00-14:20	**Title:** First principles calculations on the effect of addition of X (Co, Rh, Ir) on TiPd **Rita John,** University of Madras, India
14:20-14:40	**Title:** On the Possibility of Refining the Gravitational Constant and Solving the Task of Integrating the Gravitational and Electromagnetic Fields **Valentyn A Nastasenko,** V A Kherson State Maritime Academy, Ukraine
14:40-15:00	**Title:** Quantum Simulation of (1+1)D U(1) lattice gauge-Higgs model by using cold atoms in one-dimensional optical lattice **Yoshihito Kuno,** Kyoto University, Japan
	Speaker Opportunity Available
Track 3: Meta Materials and Magnetic Materials **Track 4: Nanotechnology and Mesoscopic Scale** **Track 5: Quantum Physics and High Energy Physics**	
	Session Introduction
Session Chair:	
Session Co-Chair: YTD	
15:00-15:20	**Title:** Efficient numerical integrator based on Fer expansion: Application to solid-state NMR experiments **Eugene Stephane Mananga,** The City University of New York, USA
15:20-15:40	**Title:** Magnetic and transport properties in Mn doped III-V semiconductor: the cases of GaAs and InP **Georges Bouzerar,** Centre National de la Recherche Scientifique, France
15:40-16:00	**Title:** A non-equilibrium approach regarding hot metals **Juan-Luis Domenech-Garret,** Madrid Technical University, Spain
	Coffee Break 16:00-16:20
16:20-16:40	**Title:** Some progress concerning the use of Magnetic Barkhausen Noise for magnetic materials characterization **Jose Alberto Perez Benitez,** Instituto Politécnico Nacional, Mexico
16:40-17:00	**Title:** Characterization and Theranostics Application of Pluralistic Ferrite Nanoparticles **Yuko Ichiyanagi,** Yokohama National University, Japan
17:00-17:20	**Title:** Study of structural and magnetic properties of manganese doped cobalt ferrite nanoparticles for high frequency and sensor applications **Feroz A Khan,** Bangladesh University of Engineering and Technology, Bangladesh
17:20-17:40	**Title:** Ballistic Transport of Spin Waves in ultrathin disordered [Fe1-cNic]n alloy nanojunctions between Co leads using an EFT-PFMT formalism **Elie A Moujaes,** Federal University of Rondônia, Brazil
	Speaker Opportunity Available
	Cocktails Sponsored by : Journal of Pure and Applied Physics

Day 3 October 21, 2017	
Keynote Forum	
09:00-09:30	**Title:** On-Chip Plasmonic Modulator **M A Swillam,** The American University in Cairo, Egypt
09:30-10:00	**Title:** Negative partial density of states in mesoscopic systems **P. Singha Deo,** S. N. Bose National Centre for Basic Sciences, India
Track 5: Superconductivity and Superfluidity **Track 9: Theoretical and Experimental study of Soft Matter**	
	Session Introduction
Session Chair:	
Session Co-Chair:	
10:00-10:20	**Title:** BCS-Bose crossover extended with hole Cooper pairs **I Chavez,** Instituto De Investigaciones En Materiales, Mexico
10:20-10:40	**Title:** Topological Excitations In Low Dimensional Magnetic Systems **Ranjan Chaudhury,** S.N. Bose National Centre For Basic Sciences, India
	Networking & Refreshment Break 10:40-11:00
11:00-11:20	**Title**: Initial Model of Ether Describing Electromagnetic Phenomena, Including Gravity **Ioan Has,** Nicolae Balcescu Land Forces Academy, Romania
11:20-11:40	Single Crystal Rutile TiO2 (001), (110), and (111) Surfaces **Taro Toyoda,** The University of Electro-Communications, Japan
Poster Presentations 11:40-12:20	
CMP-001	**Title:** Equivalence between Floquet-Magnus and Fer expansions to Investigate the Dynamics of a Spin System in the Three-Level System **Eugene Stephane Mananga,** The City University of New York, USA
CMP-002	**Title:** Introduction in the Band Theory of Liquid Dielectrics **Alexander Shimkevich,** NRC Kurchatov Institute, Russia
CMP-003	**Title:** Python Script in the processing of electrochemical impedance spectroscopy and current transient measurements for the determination of the chemical capacitance **Daniel Andres Triana Camacho,Industrial University of Santander**, Colombia
Video Presentations	
12:20-12:30	**Title:** Treatment of the 'sing problem' by pair phase space pseudopotential **Vladimr Filinov,** Joint Institute for High Temperatures of the Russian Academy of Sciences, Russia
12:30-12:40	**Title:** Scaling of Thermocapillary Molten Pool Shape during Laser Melting **Peng-Sheng Wei,** National Sun Yat-Sen University, Taiwan
12:40-12:50	**Title:** The decomposition of the solution during phase transition **Alex Guskov,** Institute of Solid State Physics of RAS, Russia
Speaker Opportunity Available	
12:50-13:00	**Closing Ceremony**
	Lunch Break 13:00-14:00