

Program for EMN Dubrovnik Meeting & Plasma Physics & CCPTS 2018

14:00-17:00

**Monday May 7
Onsite registration & Sign up**

Tuesday May 8

Session: Quantum I Chair: Maia Garcia Vergniory

08:00-08:25

A01: Few-layer transition metal dichalcogenides as semiconductor quantum wells

Vladimir Falko
The University of Manchester, UK

08:25-08:50

A02: Uncertainty relations for some central potentials in N-dimensional space

Sami M. AL-Jaber
An-Najah National University, Palestine

08:50-09:15

A03: QUANTUM EFFECTS IN THE O + O₂ COLLISIONS

Pascal Honvault
ICB, CNRS/Université de Bourgogne
Franche-Comté, Dijon, France

09:15-09:40

A04: Quantum Collapse as an Interpreting Tool

Yehuda Roth
Oranim Academic College, Israel

09:40-10:00

Session Break

Session: Probability Theory and Statistics I

Chair: Sanjoy K. Sinha

10:00-10:25

A05: Individual Ergodic Theorems for Perturbed Alternating Regenerative Processes

Dmitrii Silvestrov
Stockholm University, Sweden

10:25-10:50

A06: Bayesian inference and conditional likelihood functions in psychometrics

Clemens Draxler
University for Health and Life Sciences,
Hall, Austria

10:50-11:15

A07: Beyond the Hotelling's T Square Test

Anuradha Roy
The University of Texas at San Antonio,
USA

11:15-11:40

A08: Limit theorems for additive statistics on random permutations

Eugenijus Manstavicius
Vilniaus Universitetas, Lithuan

11:40-12:05

A09: Some key issues when using statistical tools applied to financial time series, in particular for mutual funds and portfolio management performance and related risk measures

Alain Ruttiens
ESCP (Paris) & NEURON sàrl,
Luxembourg

12:05

Lunch Break

Tuesday May 8		
Session: Plasma Physics I Chair: HongYoung Chang		
13:30 -13:55	A10: Quarks, Gluons and Preons: Exotic Plasmas inside Hypercompact Astrophysical Objects?	Zoran Pazameta Eastern Connecticut State University, USA
13:55 -14:20	A11: Observations of X-ray emission from thin-thermal plasmas in supernova remnants	Satoru Katsuda Saitama University, Japan
14:20-14:45	A12: The Development of Intelligent Robotic System for Plasma Processing of Medical Products with Complex Shape	Darya Alontseva D. Serikbayev East Kazakhstan State Technical University, Kazakhstan
14:45-15:10	A13: Full diagnostics of an ICP device – input section of an RF ion thruster	Valentin Riaby Moscow Aviation Institute, Russia
15:10-15:35	A14: Dynamic Collapses of Astrophysical Plasmas	Yu-Qing Lou Tsinghua University, China
15:35-15:55	Session Break	
Session: Probability Theory and Statistics II& Big data Chair: Dmitrii Silvestrov		
15:55-16:20	A15: Joint modeling of longitudinal and time-to-event data with covariates subject to limits of detection	Sanjoy K. Sinha Carleton University, Canada
16:20-16:45	A16: The duality of entropy/extropy, and its relevance to scored sequential forecasting	Frank Lad University of Canterbury (UC), New Zealand
16:45-17:10	A17: Bayesian Multiple Testing under Sparsity	Malay Ghosh University of Florida, USA
17:10-17:35	A18: Large deviations for general multivariate random walks, with the focus on heavy tails	Harri S Nyrhinen University of Helsinki, Finland
17:35-18:00	A19: Big data: a new way for better drugs	Jaroslawn Polanski University of Silesia in Katowice, Poland
18:00-18:25	A20: Geometric integration of multivariate distributions	Wolf-Dieter Richter Institut für Mathematik, Universität Rostock, Germany
18:30	Dinner Social	

Wednesday May 9

Session: Quantum II Chair: Sami M. AL-Jaber

08:20-08:45	A21: Fractional charge in interacting disordered graphene nanoribbon	S.-R. Eric Yang Korea University, Korea
08:45-09:10	A22: The twin physics view on spin	Anna Backerra Gualtherus Sylvanusstraat 2, 7412 DM Deventer, The Netherlands
09:10-09:35	A23: Fabrication of Polycrystal Silver Nanowire Transparent conductive film by Organic Precursor Splay Painting Reduction method	Yamato HAYASHI Tohoku university, Japan
09:35-10:00	A24: Preparation of Fluoroalkyl End-Capped Vinyltrimethoxysilane Oligomeric Silica Nanocomposites Containing Gluconamide Units Possessing Superamiphobic, Highly Oleophobic/Superhydrophilic and Superoleophilic/Superhydrophobic Characteristics on the Modified Surfaces	Shinsuke Katayama Hirosaki University, Japan and Kanto Denka Kogyo, Japan
10:00-10:20	Session Break	
Session: Quantum III Chair: S.-R. Eric Yang		
10:20-10:45	A25: A34: TBD	Maia Garcia Vergniory Donostia International Physics Center, Spain
10:45-11:10	A26: Signal processing in Time reversal (TR) violating –Nonlinear Electric Wave System (NEWS) and E. Cartan’s Supersymmetry	Sadataka Furui Teikyo University, Japan
11:10-11:35	A27: Towards quantum simulations of many-body systems using 2D arrays of cold Rydberg atoms	Hikaru Tamura University of Electro-Communications, Japan
11:35-12:00	A28: Entanglement-based wavelength multiplexed quantum communication network	Soeren Wengerowsky Universität Wien, Austria
12:00	Lunch Break	

Wednesday May 9		
Session: Carbon Nanostructures		Chair: Saliha Dinç
13:30 -13:55	A29: Biosensing Properties of Carbon Dots Extracted from Sugar Beet Molasses	Saliha Dinç Selcuk University, Turkey
13:55 -14:20	A30: Preparation and Applications of Fluoroalkyl End-Capped Oligomer/Boron Nitride Nanocomposites	Hideo Sawada Hirosaki University, Japan
14:20-14:45	A31: Facet dynamics and friction in multiwalled carbon and h-BN nanotubes	Roberto Guerra UNIVERSITÀ DEGLI STUDI DI MILANO, Italy
14:45-15:10	A32: Synthesis and in-depth characterization of electrospun carbon nanofibers covered with Pt nanoparticles	Nejc Hodnik National Institute of Chemistry, Slovenia
15:10-15:35	A33: Synthesis of carbon dots from yoghurt and its application in cell imaging	Meryem KARA Selcuk University, Turkey
15:35-16:00	Poster Session	
Session: Plasma Physics II		Chair: Zoran Pazameta
16:00-16:25	A34: A role of ATM Plasma for CO ₂ Conversion	HongYoung Chang Korea Advanced Institute of Science and Technology KAIST, Korea
16:25-16:50	A35: Absorbing layers in fluid and plasma simulations	Tomo Tatsuno University of Electro-Communications, Japan
16:50-17:15	A36: Increased static pre-compression for laser shock experiments	Noaz Nissim Applied Physics Department, Soreq NRC, Israel
17:15-17:40	A37: Experimental plasma simulation for Space mission activities	Piero Diego Institute for Space Astrophysics and Planetology, INAF, Italy
17:40-18:05	A38: Interface- and Discontinuity-aware Numerical Schemes for 3-T Radiation Diffusion in Two and Three Dimensions	William Wenlong Dai Los Alamos National Laboratory, USA
18:30	Dinner Social	

Poster Session		
Wednesday May 9 15:35-16:00		
P01	Microwave Absorbance of Multi-Layer Laminates of Glass Fiber Composite Containing Carbon Black and Carbon Fiber Composite	Sung-Soo Kim Chungbuk National University, Korea
Thursday, May 10		
One-Day Excursion: Nature, Culture, and Collaboration		