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EURO PHYSICS 2018

Scientific Program

5th World Congress on Physics

July 17-18, 2018 Prague, Czech Republic



Conference Series LLC Ltd

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Bohemia 1

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09:20 - 09:30

Opening Ceremony

Keynote Forum

- 09:30-10:15 **Title: Physics and Prague**
Stefan Zajac, Czech Technical University, Czech Republic
- 10:15-11:00 **Title: Topological study of the H_3^{++} molecular system: H_3^{++} as a cornerstone for building molecules during the Big Bang**
Michael Baer, The Hebrew University of Jerusalem, Israel

Group Photo and Refreshment Break 11:00 - 11:15 @ Foyer

- 11:15-12:00 **Title: Fast reactor with liquid U-Pu fuel, its application and fuel cycle**
Leonid Ponomarev, A.A.Bochvar High Technology Institute of Inorganic Materials, Russia
- 12:00-12:45 **Title: Faraway particles have a strong and fast effect on molecular behavior**
Andreas Pfennig, University of Liège, Belgium

Lunch Break 12:45- 13:45 @ Mezzo Restaurant

Sessions: Applied Physics | Condensed Matter Physics | Plasma Physics | Theoretical Physics | Advanced Materials and Functional Devices

Session Chair: Leonid Ponomarev, A.A.Bochvar High Technology Institute of Inorganic Materials, Russia

Session Co-chair: Loris Ferrari, University of Bologna, Italy

Session Introduction

- 13:45-14:15 **Title: Vacuons and quasi-phonons: The hidden side of Bogoliubov collective excitations**
Loris Ferrari, University of Bologna, Italy
- 14:15-14:45 **Title: High-power short-pulsed microwave impingement on a high-pressure plasma ball in acoustic spherical resonance**
Gilles Courret, University of Applied Sciences of Western Switzerland, Switzerland
- 14:45-15:15 **Title: Designs of a reciprocal optical diode in silicon waveguide**
Zhongyuan Yu, Beijing University of Posts and Telecommunications, China
- 15:15-15:45 **Title: Structure of Electron, Proton and Neutron**
M. J. Faraji, Saleh research centre, Iran

Networking & Refreshments Break 15:45- 16:00 @ Foyer

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- 16:00-16:30** **Title: Theory of unidirectional and bidirectional forces and violation of third law of motion**
Debjyoti Biswadev Sengupta, Smt. Sulochanadevi Singhanian School, India
- 16:30- 17:00** **Title: Theoretical approaches to saturation and relaxation of congestion in TASEP (Totally Asymmetric Simple Exclusion Process) network with junctions with density-dependent rules**
Takahiro Tannai, The University of Tokyo, Japan
- 17:00-17:30** **Title: Ultra-broadband near-perfect solar absorber in the visible and near-infrared region**
Yumin Liu, Beijing University of Posts and Telecommunications, China
- 17:30-18:00** **Title: Exploring the unusual electronic and magnetic properties of the heterostructures based on 2D materials**
Xiao-Qing Tian, Shenzhen University, China
- 18:00-18:30** **Title: Nonlinear quantum mechanics: A necessary result of development of quantum mechanics**
Pang Xiao Feng, University of Electronic Science and Technology of China, China

Panel Discussion

Awards and Closing Ceremony

Day 2 July 18, 2018

Networking 13:00-14:00 @ Mezzo Restaurant