

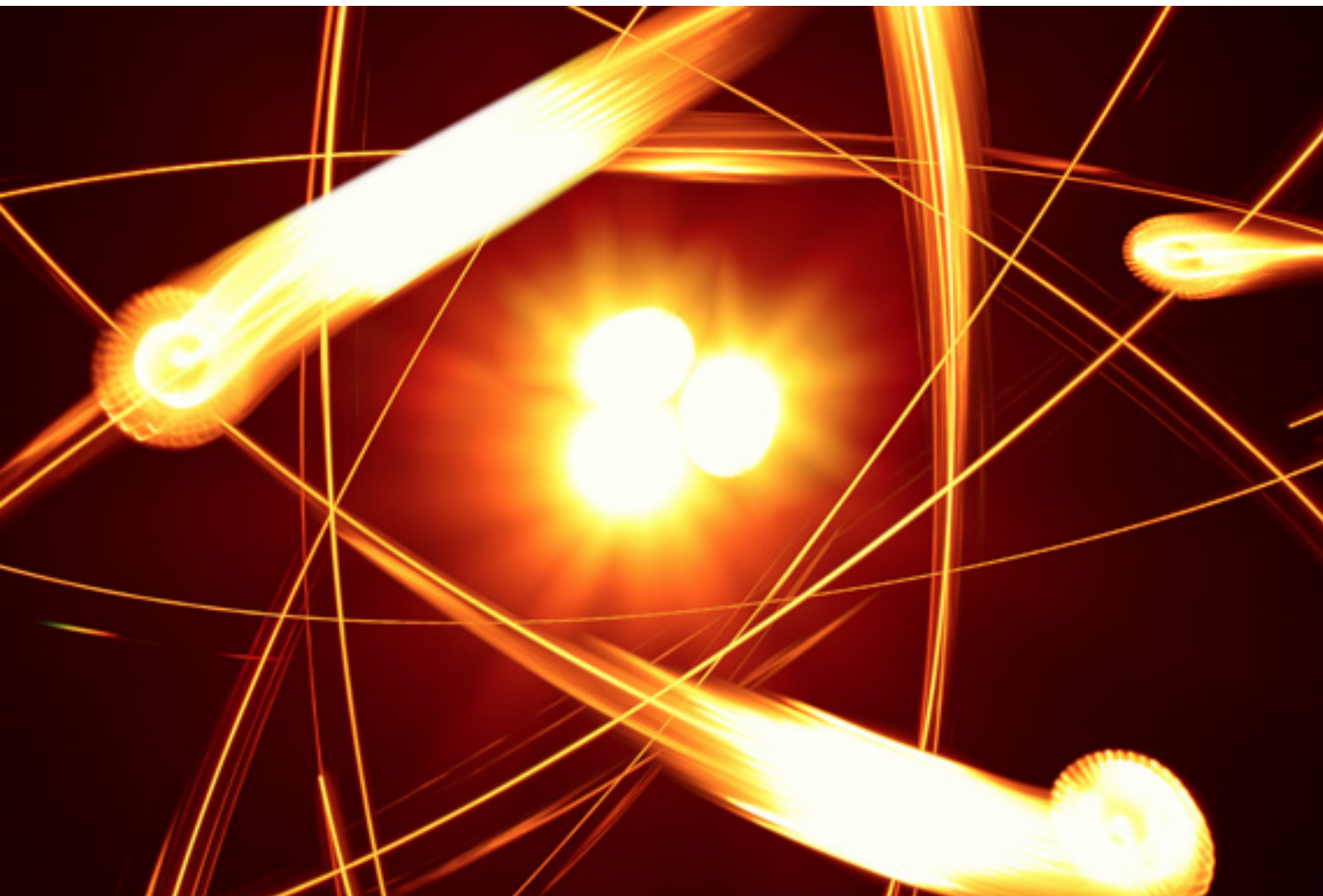
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1115th Conference

Scientific Program

2nd International Conference on

Physics

August 28-30, 2017 Brussels, Belgium



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conference**series**.com 09:00-09:25

Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-10:05 **Title: Multidimensional solitons in dispersive complex media: structure and stability**
Vasily Yu Belashov, Kazan Federal University, Russia

10:05-10:40 **Title: Dynamic properties of particles**
Georgi Shpenkov, University of Science and Technology in Bydgoszcz, Poland

Group Photo

Networking and Refreshments Break 10:40-11:00 @ Veranda

Plenary Talk

11:00-11:35 **Title: Tritium permeation mechanism in fusion reactor fuel systems**
Takumi Chikada, Shizuoka University, Japan

Sessions: Classical Physics | Applied Physics | Plasma Physics

Session Chair: Vasily Yu Belashov, Kazan Federal University, Russia

Session Co-chair: Álvaro Q Valenzuela, University of Chile, Chile

Session Introduction

11:35-12:00 **Title: A hypothetical pre-fermion particle theory of everything**
Michael Jefferson Lawrence, Maldwyn Centre for Theoretical Physics, UK

12:00-12:30 **Title: Mathematical models versus physical mechanisms**
Hans Deyssenroth, Germany

12:30-12:55 **Title: XRF measurements of heavy elements in some archaeological samples collected from different parts of Saudi Arabia**
K S Al Mugren, Princess Nourah Bint Abdul Rahman University, Saudi Arabia

Lunch Break 12:55-13:55 @ Restaurant

13:55-14:20 **Title: Protection against pseudoscientific swindlers is necessary to the Science**
Vladislav Cherepennikov, Newton Society, Russia

14:20-14:45 **Title: Theoretical confirmation of the gravitation new origin having a dipolar electrical nature with Coulomb's law corrected**
Ioan Has, Nicolae Balcescu Land Forces Academy, Romania

Panel Discussion

Sessions: Particle and Nuclear Physics | Atomic, Molecular and Optic Physics | Condensed Matter Physics

Session Chair: Eliade Stefanescu, Advanced Studies in Physics Centre of the Romanian Academy, Romania

Session Co-chair: Eliza Wajch, Siedlce University of Natural Sciences and Humanities, Poland

Session Introduction

14:45-15:10 **Title: Strongly-correlated electrons in two dimensions**
Sergey Kravchenko, Northeastern University, USA

15:10-15:35 **Title: Evolution of solitary waves in complex media with variable dispersion**
Vasily Yu Belashov, Kazan Federal University, Russia

Networking and Refreshments Break 15:35-15:55 @ Veranda

- 15:55-16:20 **Title: Boscovich unified field theory and atomism**
Roger J Anderton, UK
- 16:20-16:45 **Title: Investigation of conditions for electron equilibrium establishing in thermoluminescent dosimeter**
Keyhandokht Karimi Shahri, University of Birjand, Iran
- 16:45-17:10 **Title: Unusual irreversible magnetic behavior in three unrelated systems**
Israel Felner, Hebrew University of Jerusalem, Israel

Panel Discussion

Day 2 August 29, 2017

Consulate

Special Session

- 09:30-10:10 **Title: Discovery of a substantial mathematical and physical error in Albert Einstein's paper 1904 entitled "On the general molecular theory of heat" and calculating the new order of magnitude of the radiation wavelengths (black-body radiation)**
M Khoshnevisan, Ajman University, UAE

Plenary Talk

- 10:10-10:45 **Title: Nonlinear resonance analysis**
Elena Tobisch, J Kepler University Linz, Austria

Networking and Refreshments Break 10:45-11:05 @ Veranda

Sessions: Quantum Physics | Nanotechnology | Computational Physics

Session Chair: Vladislav Cherepennikov, Newton Society, Russia

Session Chair: Elena Tobisch, J Kepler University Linz, Austria

Session Introduction

- 11:05-11:30 **Title: Classical interpretation of quantum phenomena**
Álvaro Q Valenzuela, University of Chile, Chile
- 11:30-11:55 **Title: Electromagnetic field, spin and gravitation, as characteristics of a charged quantum particle wave function**
Eliade Stefanescu, Advanced Studies in Physics Centre of the Romanian Academy, Romania
- 11:55-12:20 **Title: Numerical study of interaction of vortex structures in plasmas and fluid**
Vasily Yu Belashov, Kazan Federal University, Russia
- 12:20-12:45 **Title: Three-dimensional self-modulated beam dynamics of a non-laminar, ultra-relativistic beam in a non-relativistic cold plasma**
Tahmina Akhter, Universita di Napoli Federico II, Italy

Lunch Break 12:45-13:45 @ Restaurant

- 13:45-14:10 **Title: Playing with time definition**
Dominique Ausserré, CNRS & Le Mans University, France
- 14:10-14:35 **Title: Computation within models of ZF minus the postulate of infinity**
Eliza Wajch, Siedlce University of Natural Sciences and Humanities, Poland
- 14:35-15:00 **Title: Making magnetic monopole out of ordinary fields**
Anatoly Shabad, University of Moscow, Russia

Panel Discussion

Networking and Refreshments Break 15:00-15:20 @ Veranda

Young Researchers Forum

- 15:20-15:40** Title: **T-invariance and mechanisms of the many particle multistep nuclear reactions and fission**
Pavel V Kostryukov, Voronezh State University, Voronezh, Russia
- 15:40:16:00** Title: **Liquid-liquid phase transition behaviour of 2,6-dimethylpyridine-water system with alkali halides**
Kamoladdin Egamberdiev Bakhodirovich, Institute of Ion-Plasma and Laser Technologies - UzAS, Uzbekistan
- 16:00-16:20** Title: **Vibrations of atoms around their equilibrium sites due to the interaction with neighbor atoms**
Said Talbaoui, University Soultan Moulay Slimane, Morocco

Video Presentations 16:20-17:00

- 16:20-16:40** Title: **Is the essence of a quantum game captured completely in the original classical game?**
Colin Benjamin, National Institute of Science Education and Research, India
- 16:40-17:00** Title: **Surface electromagnetic waves: past, present, future**
Vladimir Datsko, Institute of Applied Geophysics, Russia

Panel Discussion

Awards & Closing Ceremony

Day 3 August 30, 2017

Networking Lunch 12:30-13:30 @ Restaurant

