



Scientific Program

4th International Conference on

Physics

September 17-18, 2018 | Berlin, Germany

UK: Conference Series llc LTD

47 Churchfield Road, London, W3 6AY

Toll Free: +1-800-014-8923



DAY-1

September 17, 2018

Meeting Hall: **Slyt 3**

08:00-09:00 Registrations

Opening Ceremony **09:00-09:25**

KEYNOTE FORUM

09:25-09:30 Introduction

09:30-10:00 **Title: Main decay modes of super heavy nuclei**
D N Poenaru, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

10:00-10:30 **Title: Intersection of science & technology at the Thomas Jefferson National Accelerator Facility**
J P Draayer, Louisiana State University, USA

GROUP PHOTO 10:30- 10:40 @ SLYT 3

Networking & Refreshments 10:40 -11:00 @ Sylt Foyer

11:00-11:30 **Title: Exploring the limits: From halo nuclei to super heavy elements - basic research and new medical applications**
Gottfried Münzenberg, GSI Helmholtz Centre for Heavy Ion Research, Germany

11:30-12:00 **Title: The realistic interpretation of quantum mechanics**
Gui Lu Long, Tsinghua University, China

SPECIAL SESSION

12:00-13:00 **Title: Principles of a second quantum mechanics constructed bottom-up**
Mioara Mugur Schachter, University of Reims, France

Lunch Break 13:00 - 14:00 @ Restaurant Rienäcker

Sessions: High Energy Nuclear Physics | Quantum Science & Technology | Classical & Modern Physics | Atomic, Molecular & Optical Physics

Chair: Laszlo P. Csernai, University of Bergen, Norway

Co-Chair: Eliade Stefanescu, Institute of Mathematics of the Romanian Academy, Romania

SPEAKER FORUM

- 14:00-14:20** **Title: Sustainable development, energy and entropy**
Laszlo P Csernai, University of Bergen, Norway
- 14:20-14:40** **Title: Star physics in above- and under-ground nuclear physics laboratory**
Livius Trache, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania
- 14:40-15:00** **Title: Determination of the first ionization potentials of heavy actinides based on an atom at a time scale**
Yuichiro Nagame, Japan Atomic Energy Agency, Japan
- 15:00-15:20** **Title: Quaternions for singlet states of quantum particles**
Lidia Obojska, Siedlce University of Natural Sciences and Humanities, Poland
- Networking & Refreshments 15:20-15:40 @ Sylt Foyer**
- 15:40-16:00** **Title: Problems on quasi-sets in quantum mechanics**
Eliza Wajch, Siedlce University of Natural Sciences and Humanities, Poland
- 16:00-16:20** **Title: An immanent-logical analysis of the foundations of SRT**
Bernardo Gut, Volkshochschule beider Basel, Switzerland
- 16:20-16:40** **Title: A mass-energy equivalence law as $E = \frac{1}{2} mc^2$**
Musa D Abdullahi, Umaru Musa Yar'adua University, Nigeria
- 16:40-17:00** **Title: Duality quantum computing and its application**
Xiang yu Kong, Tsinghua University, China

Panel Discussion

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DAY-2

September 18, 2018

Meeting Hall: **Slyt 3**

KEYNOTE FORUM

- 09:00-09:30** **Title: Pair interaction of vortical structures in continuous media: Criterion of stability**
Vasily Yu Belashov, Kazan Federal University, Russia
- 09:30-10:00** **Title: New materials for radiation sources in the mid-infrared region**
Alessandra Toncelli, Nanoscience Institute-CNR, Italy
- 10:00-10:30** **Title: Matter dynamics in a unitary relativistic quantum theory**
Eliade Stefanescu, Institute of Mathematics of the Romanian Academy, Romania

Networking & Refreshments 10:30-10:50 @ Sylt Foyer

Sessions: Material Physics | Nano-Technology | Electromagnetism and Electronics | Condensed Matter Physics | Applied Physics

Chair: Dragos Victor Anghel, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

Co-Chair: Paul E Wagner, University of Vienna, Austria

INTRODUCTION

- 10:50-11:10** **Title: Flux flow instability for testing superconducting materials in view of applications**
Gaia Grimaldi, CNR – SPIN Institute, Italy
- 11:10-11:30** **Title: Direct experimental determination of contact angles and line tensions on the nano-scale**
Paul E Wagner, University of Vienna, Austria
- 11:30-11:50** **Title: Radiation technique to control the atomic composition and physical properties of thin film materials for different super conductive and other functional nano-elements production**
K E Prikhodko, National Research Centre “Kurchatov Institute”, Russia
- 11:50-12:10** **Title: Semiempirical quantum transport model for SOIFETs and FinFETs**
Ulrich Wulf, Brandenburg University of Technology Cottbus-Senftenberg, Germany
- 12:10-12:30** **Title: Peculiarities of the BCS theory of superconductivity**
Dragos Victor Anghel, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania
- 12:30-12:50** **Title: A biophysics problem: Computational difficulties and their solution**
L. Gr. Ixaru, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania
- Lunch Break 12:50-13:50 @ Restaurant Rienäcker**
- 13:50-14:10** **Title: Canonical relativistic quantization of electromagnetic field in the presence of an anisotropic conductor magneto-dielectric medium**
Majid Amooshahi, University of Isfahan, Iran
- 14:10-14:30** **Title: New sight at the nature of superconductivity phenomenon: Simple explanation**
Vasily Yu Belashov, Kazan Federal University, Russia

Sessions: Astro-Particle Physics & Cosmology | Plasma Science

Chair: Vasily Belashov, Kazan Federal University, Russia

- 14:30-14:50** **Title: Analysis of Type Ia supernovae light curves in observed bands**
Herman Holushko, Independent Researcher, Canada
- 14:50-15:10** **Title: The GEMS (Gravity Electro Magnetism Super) unification theory – a theory of the unification of the four forces of nature**
John E Brandenburg, Morningstar Applied Physics, USA
- 15:10-15:30** **Title: Fragmentation of the northeastern Paleo-Indian oceanic domain by a creeping lithospheric current: Evidence from the ontong java plateau**
Carl Strutinski, Germany

Networking & Refreshments 15:30-15:50 @ Sylt Foyer

15:50-16:10

Title: Transformation properties of electromagnetic field strength quantities under local gauge U(1) symmetry described in two-spinor language and induced zitterbewegung (trembling motion) in spin 1/2 particles

J Buitrago, University of La Laguna, Spain

16:10-16:30

Title: Nonlinear dynamics of the solitary vortices and the wave structures in the complex media

Khatuna Chargazia, Ivane Javakhishvili Tbilisi State University, Georgia

POSTER PRESENTATIONS 16:30-17:00

Poster Judge: Livius Trache, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

Panel Discussion

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Awards & Closing Ceremony

Bookmark your Dates

5th International Conference on **Physics**

March 01-02, 2019 | Vienna, Austria

E: physics@physicsconferences.org, physics@internationalmeets.com

Website: europe.physicsmeeting.com

Bookmark your Dates

6th International Conference on **Physics**

September 18-19, 2019 | Rome, Italy

E: physics@physicsconferences.org, physics@internationalmeets.com

Website: physics.conferenceseries.com