Tentative Program

5th International Conference on
Theoretical and Applied Physics
July 02-03, 2018 Vienna, Austria

Interactive Sessions  Keynote Lectures  Plenary Lectures  Workshops
Exhibitors  B2B Meetings

***For available speaker slots***

appliedphysics@annualconferences.org

http://appliedphysics.physicsmeeting.com/
# 5th International Conference on Theoretical and Applied Physics

**July 02-03, 2018 Vienna, Austria**

## Program at a Glance

| Day 1 | Time | General Session |
|-------|------|-----------------|
| 08.00-09.00 | Reception/Registration |
| 09.00-09.15 | Inaugural Address |
| 09.15-09.45 | Keynote/Plenary Talk 1 |
| 09.45-10.15 | Keynote/Plenary Talk 2 |
| 10.15-10.45 | Keynote/Plenary Talk 3 |

| Day 1 | Least of 3 Keynote/Plenary Talks |
|-------|----------------------------------|
| 10.45-11.00 | Coffee/Tea Break 10.45-11.00 (Networking) |
| 11.00-12.40 | 5 Speakers (20 Mins Each) |
| 12.35-13.25 | Lunch Break 12.40-13.30 |
| 13.30-15.30 | 6 Speakers (20 Mins Each) |
| 15.45-17.25 | Coffee/Tea Break 15.30-15.45 (Networking) |
| Lunch Break 12.35-13.25 | 5 Speakers (20 Mins Each) |
| 09.00-10.40 | 5 Speakers (20 Mins Each) |
| 10.55-12.35 | Lunch Break 12.35-13.25 |
| 13.25-15.05 | 5 Speakers (20 Mins Each) |
| 15.20-17.00 | Poster Sessions |
| Coffee/Tea Break 15.05-15.20 (Networking) | 5 Speakers (20 Mins Each) |

## Call for Abstract:
[http://appliedphysics.physicsmeeting.com/call-for-abstracts.php](http://appliedphysics.physicsmeeting.com/call-for-abstracts.php)

## Registration:
[http://appliedphysics.physicsmeeting.com/registration.php](http://appliedphysics.physicsmeeting.com/registration.php)

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Conference Highlights

- Theory of Relativity
- Quantum Field Theory
- Unconventional Superconductivity
- Many Body Systems
- Lasers and Optics
- Semiconductor Devices
- Graphene and its Applications
- Spintronics
- Nanophotonics and Nanodevices
Plan your trip to Vienna

Belvedere Palace

City Hall

hofburg imperial palace

Karlskirche

Schoenbrunn palace

St. Stephens Cathedral Church

Vienna State Opera House

Wiener prater park

http://appliedphysics.physicsmeeting.com/
Day 1  August 28, 2017

Registrations

Consulate

Opening Ceremony

Keynote Forum

Introduction
Title: Multidimensional solitons in dispersive complex media: structure and stability
Vasily Yu Belashov, Kazan Federal University, Russia

Title: Dynamic properties of particles
Georgi Shpenkov, University of Science and Technology in Bydgoszcz, Poland

Group Photo

Plenary Talk

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

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

Title: Mathematical models versus physical mechanisms
Hans Deyssenroth, Germany

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

Title: Protection against pseudoscientific swindlers is necessary to the Science
Vladislav Cherepennikov, Newton Society, Russia

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

Title: Strongly-correlated electrons in two dimensions
Sergey Kravchenko, Northeastern University, USA

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

Networking and Refreshments Break
### Panel Discussion

**Title:** Boscovich unified field theory and atomism  
Roger J Anderton, UK

**Title:** Investigation of conditions for electron equilibrium establishing in thermoluminescent dosimeter  
Keyhandokht Karimi Shahri, University of Birjand, Iran

**Title:** Unusual irreversible magnetic behavior in three unrelated systems  
Israel Felner, Hebrew University of Jerusalem, Israel

### Day 2    August 29, 2017

#### Consulate

**Special Session**

**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

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

### Networking and Refreshments Break

### Sessions: Quantum Physics | Nanotechnology | Computational Physics

**Session Chair:** Vladislav Cherepennikov, Newton Society, Russia  
**Session Chair:** Elena Tobisch, J Kepler University Linz, Austria

**Session Introduction**

**Title:** Classical interpretation of quantum phenomena  
Álvaro Q Valenzuela, University of Chile, Chile

**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

**Title:** Numerical study of interaction of vortex structures in plasmas and fluid  
Vasily Yu Belashov, Kazan Federal University, Russia

**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

**Title:** Playing with time definition  
Dominique Ausserré, CNRS & Le Mans University, France

**Title:** Computation within models of ZF minus the postulate of infinity  
Eliza Wajch, Siedlce University of Natural Sciences and Humanities, Poland

**Title:** Making magnetic monopole out of ordinary fields  
Anatoly Shabad, University of Moscow, Russia

### Panel Discussion

### Networking and Refreshments Break

### Young Researchers Forum
Title: T-invariance and mechanisms of the many particle multistep nuclear reactions and fission
Pavel V Kostryukov, Voronezh State University, Voronezh, Russia

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

Title: Vibrations of atoms around their equilibrium sites due to the interaction with neighbor atoms
Said Talbaoui, University Soltan Moulay Slimane, Morocco

Video Presentations

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

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

Bookmark your dates

3rd International Conference on

Physics

September 17-18, 2018  Berlin, Germany

E-mail: physics@physicsconferences.org  Website: physics.conferenceseries.com
Day 1  June 27, 2016

Salon 3

**Opening Ceremony**

### Keynote Forum

**Introduction**

**Title:** The invention of high efficient blue LEDs and future lighting  
**Shuji Nakamura,** University of California Santa Barbara, USA

**Title:** Masses of black hole merger for the gravitational waves, GW150914  
**Yukio Tomozawa,** University of Michigan, USA

**Title:** Spectral characterization techniques applied to artworks belonging to the historic and cultural heritage  
**Alejandro Martin Sanchez,** University of Extremadura, Spain  
**Title:** Scientific philosophy to unified physics  
**Chong Wei Xu,** Verizon Communications, USA

**Group Photo**

**Networking & Refreshment Break**

**Track 1: Physics**

**Track 2: Condensed Matter Physics**

**Session Chair:** Shuji Nakamura, University of California Santa Barbara, USA  
**Session Co-Chair:** Guang-Lin Zhao, Southern University and A&M College, USA

**Session Introduction**

**Title:** Revival of the phase-amplitude description of a quantum-mechanical wave function  
**George Rawitscher,** University of Connecticut, USA

**Title:** The puzzle of anomalous isotope effect in High and Low Tc superconductors  
**Guang-Lin Zhao,** Southern University and A&M College, USA

**Title:** Effect of triboluminescent and thermographic phosphor powders on the thermal, mechanical, and optical properties of elastomeric composite materials  
**Firouzeh Sabri,** University of Memphis, USA  
**Title:** Thick is Good  
**Li Ping Lu,** University of Exeter, United Kingdom

**Session Discussion**

**Lunch Break**

**Reception @ Dillard University**

Day 2  June 28, 2016

Salon 3

**Keynote Forum**

**Title:** Single-molecule chemistry and spectroscopy on insulating films with STM  
**Yousoo Kim,** RIKEN, Japan  
**Title:** Spectral computational methods  
**George Rawitscher,** University of Connecticut, USA

**Title:** Trends of nano science and nano technologies now and then  
**Abdalla M Darwish,** Dillard University, USA  
**Title:** Tomorrow’s Science: Fractional calculus view of complexity  
**Bruce J West,** US Army Research Office, USA

**Special Session by Chong Wei Xu on “Horizons of Unified Physics”**  
- First Horizon of Unified Physics | Quantum Physics  
- Second Horizon of Unified Physics | Macroscopic Densities and Thermodynamics  
- Third Horizon of Unified Physics | Electromagnetism, General Relativity and Gravitation
Session Discussion

Track 3: Advanced Physics
Track 4: Applied Physics
Track 5: Particle and Nuclear Physics

Session Chair: Rob L Allen, Sam Houston State University, USA
Session Co-Chair: Chong Wei Xu, Verizon Communications, USA

Title: Basic equations calculate forces, many physical constants, and properties of particles that include masses
Rob L Allen, Sam Houston State University, USA

Title: 1D electron confinement in a graphene nano wrinkle
Yousoo Kim, RIKEN, Japan

Title: GOD doesn’t play dice
Manish Kumar, Indian Institute of Technology(BHU), India

Title: Finite element analysis and optimization of cylindrical resonant photoacoustic cell
Madhusoodanan Mannoor, Dong-A University, Republic of Korea(South)

Session Discussion

Poster presentations

Networking & Refreshment Break

Session Discussion

Track 6: Astrophysics
Track 7: Optical Physics

Session Chair: Yukio Tomozawa, University of Michigan, USA
Session Co-Chair: Abdalla M Darwish, Dillard University, USA

Title: Double pulse laser deposition of polymer nanocomposite films for optical sensors and light emitting applications
Abdalla M Darwish, Dillard University, USA

Title: Acceleration, deceleration and finishing of universe expansion
Yukio Tomozawa, University of Michigan, USA

Title: Principles and applications of optical switching assisted imaging and structuring schemes
David Köhne, Laser-Laboratorium Göttingen e.V., Germany

Title: Ammonia sensor based on polymer-inorganic nano-composite thin film upconversion light emitter prepared by double-beam pulsed laser deposition
Aziz Muhammad & Deonte Alexander, Dillard University, USA

Session Discussion

Day 3 June 29, 2016

Salon 3

Track 8: Geophysics
Track 9: Quantum Physics
Track 10: Physics in Different Sciences
Track 11: Chemical Physics

Session Chair: Eugene Stephane Mananga, The City University of New York, USA
Session Co-Chair: Alejandro Martin Sanchez, University of Extremadura, Spain

Title: Generalization of framework of analytic mechanics and unified description of quantum and classical physics
Tomoi Koide, Federal University of Rio de Janeiro, Brazil

Title: Some preliminary results obtained when indoor radon mitigation methods are applied
Alejandro Martin Sanchez, University of Extremadura, Spain

Title: Application of the pulsed fast/thermal neutron method for soil elemental analysis
Galina Yakubova, USDA/ARS National Soil Dynamics Laboratory, USA

Networking & Refreshment Break

Title: On Fer and Floquet-Magnus expansions: Application in solid-state nuclear magnetic resonance and physics
Eugene Stephane Mananga, The City University of New York, USA

Title: GOD’s diagnostic tool is the mathematics and prescription is physics
Manish Kumar, Indian Institute of Technology(BHU), India

Title: Magnetic current and new modifications of Maxwell’s equations
Mehdi Nosrati, University of Alberta, Canada

Session Discussion

Awards & Closing Ceremony
Scientific Program

International Conference on

Atomic and Nuclear Physics

November 17-18, 2016   Atlanta, USA
Keynote Forum

Introduction

Title: Ion-impact ionization of atoms and molecules
M S Pindzola, Auburn University, USA

Group Photo and Networking & Refreshment Break

Title: Detecting nothing with anti-electrons
Marc H Weber, Washington State University, USA

Sessions:
Atomic and Molecular Physics | Atomic Collisions

Session Chair: Moni Behar, Universidade Federal do Rio Grande do Sul, Brazil
Session Co-chair: Xiaoxing Zhang, Wuhan University, P R China

Session Introduction

Title: Coulomb heating behavior of fast light diclusters channeled into Si (110) direction
Moni Behar, Universidade Federal do Rio Grande do Sul, Brazil
Title: Influence of spin-orbit interaction on magnetic properties of fullerenes
Elena V Orlenko, Peter the Great St. Petersburg Polytechnic University, Russia
Title: Random unitary evolution model of dissipation, dephasing and quantum Darwinism
Nenad Balaneskovic, University of Technology Darmstadt, Germany

Lunch Break

Title: Encyclopedia micro-array traps for storing electrons or positrons – A first step towards antimatter as a source of energy
Marc H Weber, Washington State University, USA
Title: TBA
Allen L Landers, Auburn University, USA
Title: Recent progress in the development of nanomaterials-based sensors for applications in SF₆ insulated equipment monitoring
Xiaoxing Zhang, Wuhan University, P R China
Title: Study on the structural evolution of thiolate-protected gold clusters by means of ¹⁹⁷Au Mössbauer spectroscopy
Norimichi Kojima, Toyota Physical and Chemical Research Institute, Japan

Networking & Refreshment Break

Plenary Talk

Title: Counter-intuitive results in atomic and molecular physics
Eugene Oks, Auburn University, USA
Title: Positron scattering by lithium atom with electron exchange
Elena V Orlenko, Peter the Great St. Petersburg Polytechnic University, Russia
Title: On spl (5, 5) super-symmetric Eigen vectors of the 5D discrete Fourier transform
Natig Atakishiyev, Universidad Nacional Autónoma de México, México

Panel Discussion

Day 2 November 18, 2016
Conference Hall

Keynote Forum

Title: Determination of nuclear charge radii using atomic laser spectroscopic measurements
William A Van Wijngaarden, York University, Canada
Title: Quantum simulation of thermodynamic and transport properties of the quark gluon plasma
Vladimir Filinov, Joint Institute for High Temperatures-Russian Academy of Sciences, Russia
Sessions:

Experimental Methods | Nuclear Physics | Current Frontiers of Nuclear and Atomic Physics

Session Chair: Mohamed Hamdi, Sup’Com, Elgazala Technopark, Tunisia
Session Co-chair: Xiaodong Li, National University of Defense Technology, P R China

Session Introduction

Title: On the role of bremsstrahlung in electron-nucleus collisions
Doris Jakubassa-Amundsen, Ludwig Maximilian University of Munich, Germany

Title: Accurate first-principle calculations of the spectra of diatomic molecules in planetary atmospheres
John Morrison, University of Louisville, USA

Title: To understand atomic nucleus from a new nuclear structure model
Xiaodong Li, National University of Defense Technology, P R China

Title: Atomic energy is the source of power which is another form of electrical energy
Manish Kumar, Indian Institute of Technology- BHU, India

Lunch Break

Title: Atomic power and cryptography: opportunities, challenges and achievements
Mohamed Hamdi, Sup’Com, Elgazala Technopark, Tunisia

Title: Cooperative radiation between blocks of three radiators through single- and two-photon mutual interactions
Nicolae A Enaki, Institute of Applied Physics of Academy of Sciences of Moldova, Moldova

Title: Spin radiation effects in classical and quantum electrodynamics: New look at an old experiment
S L Lebedev, Surgut State University, Russia

Title: Quantum description and dynamics of computer bits
Chidiebere Anigbo Alphonsus, Institute of Technology and Management-Ugep, Nigeria

Poster Presentations 15:30-16:10

ANP-01
Title: Quasi-classical chemisorption study about hydrogen molecule storage on Cu$_{13}$ and Pd$_{13}$ atomic clusters
Nada Elzein Eisa Omer, University of Dammam, KSA

ANP-02
Title: Attractor spaces of dissipative dephased random unitary evolution and quantum Darwinism
Nenad Balaneskovic, University of Technology Darmstadt, Germany

ANP-03
Title: X-ray irradiation-induced changes in (PVA–PEG–Ag) polymer nano-composites films
M M Abutalib, King Abdulaziz University, Saudi Arabia

ANP-04
Title: Nanocrystalline Cu$_2$O/p-Si solar light-responsive Schottky photodiode
Asmaa A Hendi, King Abdulaziz University, Saudi Arabia

Panel Discussion

Awards & Closing Ceremony

Networking & Refreshment Break

Bookmark Your Dates

2nd International Conference on Atomic and Nuclear Physics
November 02-03, 2017  Las Vegas, USA