International Conference on

Atomic and Nuclear Physics

November 17-18, 2016  Atlanta, USA

Scientific Program

Hostling Organization: Conference Series LLC
2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Conference Series Ltd
57 Ullswater Avenue, West End, Southampton Hampshire, United Kingdom
SO18 3QS, Toll Free: +1-800-216-6499
Email: atomic@physicsconferences.org; atomicphysics@conferenceseries.net

conferenceseries.com
816th Conference
Keynote Forum

10:00-10:05  Introduction

10:05-10:45  Title: Ion-impact ionization of atoms and molecules  
M S Pindzola, Auburn University, USA

Group Photo and Networking & Refreshment Break 10:45-11:05

11:05-11:45  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

11:45-12:10  Title: Coulomb heating behavior of fast light diclusters channeled into Si (110) direction  
Moni Behar, Universidade Federal do Rio Grande do Sul, Brazil

12:10-12:35  Title: Influence of spin-orbit interaction on magnetic properties of fullerenes  
Elena V Orlenko, Peter the Great St. Petersburg Polytechnic University, Russia

12:35-13:00  Title: Random unitary evolution model of dissipation, dephasing and quantum Darwinism  
Nenad Balaneskovic, University of Technology Darmstadt, Germany

Lunch Break 13:00-14:00

14:00-14:25  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

14:25-14:50  Title: TBA  
Allen L Landers, Auburn University, USA

14:50-15:15  Title: Recent progress in the development of nanomaterials-based sensors for applications in SF$_6$ insulated equipment monitoring  
Xiaoxing Zhang, Wuhan University, P R China

15:15-15:40  Title: Study on the structural evolution of thiolate-protected gold clusters by means of $^{197}$Au Mössbauer spectroscopy  
Norimichi Kojima, Toyota Physical and Chemical Research Institute, Japan

Networking & Refreshment Break 15:40-16:00

16:00-16:30  Title: Counter-intuitive results in atomic and molecular physics  
Eugene Oks, Auburn University, USA

16:30-16:55  Title: Positron scattering by lithium atom with electron exchange  
Elena V Orlenko, Peter the Great St. Petersburg Polytechnic University, Russia

16:55-17:20  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

09:30-10:10  Title: Determination of nuclear charge radii using atomic laser spectroscopic measurements  
William A Van Wijngaarden, York University, Canada

10:10-10:50  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

Networking & Refreshment Break 10:50-11:10

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

Session Chair: William A Van Wijngaarden, York University, Canada
Session Co-chair: Xiaodong Li, National University of Defense Technology, P R China

11:10-11:35  Title: On the role of bremsstrahlung in electron-nucleus collisions  
Doris Jakubassa-Amundsen, Ludwig Maximilian University of Munich, Germany

11:35-12:00  Title: Accurate first-principle calculations of the spectra of diatomic molecules in planetary atmospheres  
John Morrison, University of Louisville, USA

12:00-12:25  Title: To understand atomic nucleus from a new nuclear structure model  
Xiaodong Li, National University of Defense Technology, P R China

12:25-12:50  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 12:50-13:50

13:50-14:15  Title: Atomic power and cryptography: opportunities, challenges and achievements  
Mohamed Hamdi, Sup’Com, Elgazala Technopark, Tunisia

14:15-14:40  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

14:40-15:05  Title: Spin radiation effects in classical and quantum electrodynamics: New look at an old experiment  
S L Lebedev, Surgut State University, Russia

Poster Presentations 15:05-16:05

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 16:05-16:25

Bookmark Your Dates

2nd International Conference on

Atomic and Nuclear Physics

November 02-03, 2017  Las Vegas, USA