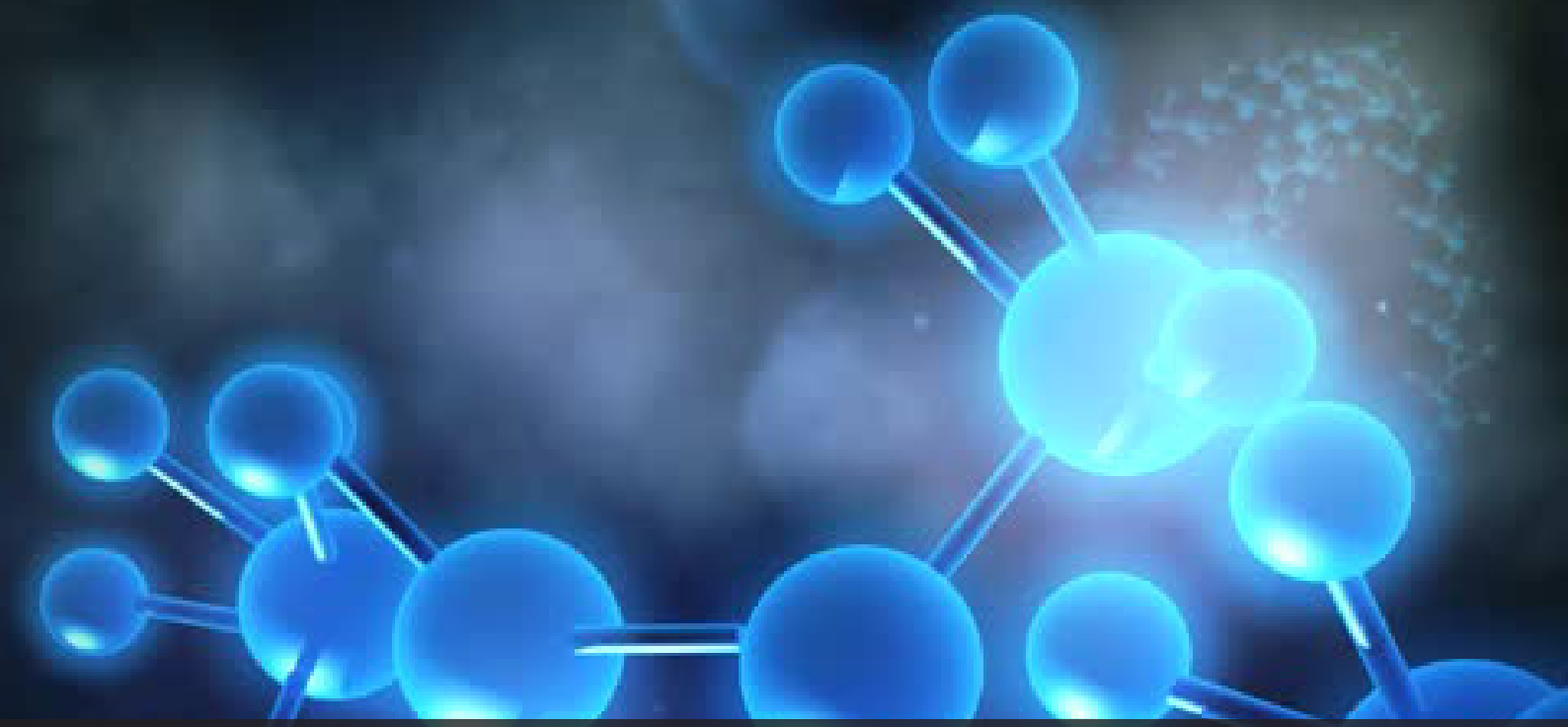
Tentative Program

2nd International Conference on

ATOMIC AND NUCLEAR PHYSICS

November 08-09, 2017 Las Vegas, USA

Theme: Outlining the future aspects of Atomic and Nuclear physics



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Atomic Physics 2017

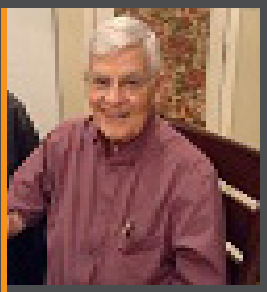
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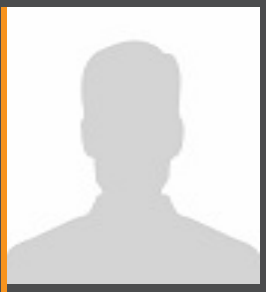
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Professor
A.A.Bochvar High Technology Institute of Inorganic Materials, Russia



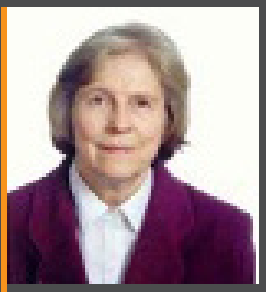
Alain Ghizzo
Professor
University of Lorraine, France



Xiaodong Li
Professor
National University of Defense Technology
China



Donald Robson
Professor
Florida State University
USA



Erna Gailite-Karule
Professor
University of Latvia
Latvia

Keynote Talks @ Atomic Physics 2017



Generalizing the harmonic oscillator and Fourier analysis: An infinite family of mutually unbiased bases

Donald J Kouri
Professor, University of Houston, USA

Modeling tokamak boundary plasma turbulence and its role in setting divertor heat flux widths



Xueqiao Xu
Principal Physicist, Lawrence Livermore National Laboratory, USA



Siegert's Curse and Redemption: Taming and Domesticating Divergent Wave Functions

Peter Winkler
Professor, University of Nevada at Reno, USA

Nuclear Power as an Energy Source



Leonid I Ponomarev
Professor, A.A. Bochvar High Technology Research Institute of Inorganic Materials, Russia



Non-particle Vlasov codes: key issues and impact on plasma turbulence modeling for thermonuclear fusion

A.Ghizzo
Professor, University of Lorraine, France

Research Activity on Experimental Nuclear Physics Aided by Atomic Physics



Masayoshi Tanaka
Professor, Kobe Tokiwa University, Japan



What Does an Atomic Nucleus Look Like?

Xiaodong Li
Professor, National University of Defense Technology, China

Program at a Glance

Day 1

Morning Sessions / Evening Session

Reception/Registration	08.00-09.00	
	Time	**General Session**
Keynote Sessions	09.00-09.15	Inaugural Address
	09.15-09.45	Slot Available
	09.45-10.15	Slot Available
	10.15-10.45	Slot Available
Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)		
11.00-12.40	5 Speakers (20 Mins Each)	
Lunch Break 12.40-13.30		
13.30-15.30	6 Speakers (20 Mins Each)	
Coffee/Tea Break 15.30-15.45 (Networking)		
15.45-17.25	5 Speakers (20 Mins Each)	

19 Speakers for **Day 1**

Day 2

Evening Sessions Morning Sessions

	Time	**Session 1**	**Session 2**
09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Coffee/Tea Break 10.40-10.55 (Networking)			
10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Lunch Break 12.35-13.25			
13.25-15.05		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Awards & Closing Ceremony			

30 Speakers on **Day 2**

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details PS: http://atomic-nuclearphysics.conferenceseries.com/

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Keynote Talks

Title: Generalizing the Harmonic Oscillator and Fourier Analysis: An Infinite Family of Mutually Unbiased Bases
Donald J. Kouri, *University of Houston, USA*

Title: Modeling tokamak boundary plasma turbulence and its role in setting divertor heat flux widths
Xueqiao Xu, *Lawrence Livermore National Laboratory, USA*

Title: Siegert's Curse and Redemption: Taming and Domesticating Divergent Wave Functions
Peter Winkler, *University of Nevada at Reno, USA*

Title: Nuclear Power as an Energy Source
Leonid I Ponomarev, *A.A. Bochvar High Technology Research Institute of Inorganic Materials, Russia*

Title: Non-particle Vlasov codes: key issues and impact on plasma turbulence modeling for thermonuclear fusion
A. Ghizzo, *University of Lorraine, France*

Title: Research Activity on Experimental Nuclear Physics Aided by Atomic Physics
Masayoshi Tanaka, *Kobe Tokiwa University, Japan*

Title: What Does an Atomic Nucleus Look Like?
Xiaodong Li, *National University of Defense Technology, China*

Featured Speakers

Title: Applications of the proton induced x-ray emission (PIXE) technique for elemental analysis of materials
Gregory Lapicki, *East Carolina University, USA*

Title: Generalizing the Harmonic Oscillator and Fourier Analysis: An Infinite Family of Mutually Unbiased Bases
Donald J. Kouri, *University of Houston, USA*

Title: Optical control of electron emission at the attosecond timescale
G. M. Laurent, *Auburn University, USA*

Title: To Understand Atomic Nucleus from a New Nuclear Structure Model
Xiaodong Li, *National University of Defense Technology, China*

Title: Kinetic waves induced by electron trapping in stimulated Raman scattering in laser-plasma interaction
A. Ghizzo, *University of Lorraine, France*

Title: Source velocity at relativistic beams of 4He
Sergej P. Avdeyev, *Joint Institute for Nuclear Research, Russia*

Title: Progress in creation of hyperpolarized nuclei for highly sensitive MRI
Masayoshi Tanaka, *Kobe Tokiwa University, Japan*

Title: Effect of the electron-electron interaction on the Raman scattering in quantum rings
Alexander V. Chaplik, *Rzhanov Institute of Semiconductor Physics, Russia*

Title: Fast Neutron Reactor with Liquid U-Pu fuel
Leonid I.Ponomarev, *A.A.Bochvar High Technology Institute of Inorganic Materials, Russia*

Title: Zeeman spectra of Ti I in a facing target sputtering system
Nobuo Nishimiya, *Tokyo Polytechnic University, Japan*

Title: Isotope shift of Ti spectrum in a facing target sputtering system
Shinji Kobayashi, *Tokyo Polytechnic University, Japan*

Title: Atomic spectroscopy of sibolidium narcosum at negative temperature
Arn Olds Ikkema, *FAS Institute, Finland*

Title: The ENEA Neutron Active Interrogation System for Suspect Materials Characterization
Alessandro Dodaro, *ENEA, Italian National Agency for New Technologies, Italy*

Title: A Point-Wise Implicit Method for Slowly Evolving Reactor Thermal-Hydraulics Applications
Samet Y. Kadioglu, *Yildiz Technical University, Turkey*

Title: Slowing down fission chain reaction in fast reactor to improve nuclear safety
G.G.Kulikov, *National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Russia*

Title: The feasibility to convert the uranium dioxide core of an advanced PWR (AP 1000TM) in a thorium uranium mixed oxide core
Giovanni Laranjo de Stefani, *Nuclear and Energy Research Institute, Brazil*

Title: The energy of lattice of partly ionic crystals and it covalent part
Pakhomov E. P, *Joined Institute for High Temperature of the Russian Academy of Sciences, Russia*

Title: A electrostatic model of atom and the "metallic" hydrogen
Pakhomov E.P, *Joined Institute for High Temperature of the Russian Academy of Sciences, Russia*

Title: Calculations with parametric CI-MBPT method of properties of complex atoms
IgorM. Savukov, *Los Alamos National Laboratory, USA*

Title: Measurements of the Reactor Neutron Power in Absolute Units
G V Lebedev, *Russian Research Centre Kurchatov Institute, Russia*

Title: Specific features for magnetic and chiral bands in nuclei
A. A. Raduta, *Bucharest University and Institute of Physics and Nuclear Engineering, Romania*

Title: Phenomena observed during intense irradiation by braking gamma quanta with threshold energy up to 23MeV of Me - D2(H2) systems and in pure gases D2, H2 also in He and Xe, in CuBe2 and 1H18N9T high pressure chambers, up to 4kbar
Roland Wisniewski, *Physics Faculty of Warsaw University of Technology, Poland*

Title: Quantum simulation of interaction between atom and light
Masao Hirokawa, *Hiroshima University, Japan*

Title: Solar flares, solar neutrinos and ν_e-induced β-decays
Oleg Boyarkin, *Belorussian State University, Belarus*

Title: Investigate the possibility of using thorium as a fertile material in the PWR to get rid of Plutonium
Ahmed abdelghafar khedr galahom, *Higher Technological Institute, Egypt*

Title: Nuclear Physics with exotic beams
Elí Francisco Aguilera-Reyes, *Instituto Nacional de Investigaciones Nucleares, México*

Title: Ionization of Atom Exposed to Laser Field by Bohmian Trajectories
Ali Mohamed Osman, *Northwest Normal University, China*

Title: Liquid drop model of nuclei with account of viscosity
Azamat Khokonov, *Kabardino-Balkarian State University, Russia*

Title: Mid-infrared emission spectroscopy of laser generated carbon plasmas
Laszlo Nemes, *Research Center for Natural Sciences, Hungary*
Ei Ei Brown, *Hampton University, USA*
S.C. Yang Clayton, *Brimrose Corp.,Loveton Center, Sparks, USA*
Uwe Hommerich, *Hampton University, USA*

Title: On three three-dimensional charged quantum particles scattering problem with attraction in pair subsystems
S.B.Levin, *St.-Petersburg State University, Russia*

Title: Test results of a new design of the thick gas electron multiplier
V. l. Razin, *Moscow Institue of Nuclear Research, Russia*

Title: Radioactivity represented by rare events
Zlokazov V.B, *Joint Institute for Nuclear Research (JINR), Russia*

Title: Density matrix in description of the collision of atomic particle with solid film
Gennadiy Filippov, *Chuvash State Agricultural Academy, Russia*

Title: Few-body physics of quasi-one dimensional atomic gases
Shahpoor Saeidian, *Institute for Advanced Studies in Basic Sciences, Iran*

Title: Applications of the Variation Monte Carlo Method to Helium and Lithium Atoms in Strong Magnetic Field
Salah Badawi Doma, *Alexandria University, Egypt*

Title: Interatomic potentials, atom energy and screening constants
Alexander N. Zinoviev, *Ioffe Institute, St. Petersburg, Russia*

Title: Atomic characterization of hydrogen within microstructure by Atom Probe Tomography
Yi-Sheng Chen, *University of Oxford, UK*

Title: Environmental, legislative and technological aspects of the methodology for selecting non-aqueous working fluids for power plants
Andrey A Sukhikh, *National Research University "MPEI", Russia*
Granchenko Pavel Pavlovich, *National Research University "MPEI",Russia*
Igor M Mazurin, *National Research University "MPEI",Russia*
Strgey P Kolotukhin, *National Research University "MPEI",Russia*
Roman L Gerasimov, *National Research University "MPEI",Russia*

Title: Vacuum entanglement via electron pairs at the ELI-NP research facility
Andrei T. Patrascu, *ELI-NP research facility, Romania*

Title: Evaluating RNA exosome function in non-coding RNA metabolism at 3D nuclear space
Pankaj Kumar Giri, *Columbia University, New York*

Title: Long term Beam Dynamics and Ion Kinetics in Ultra-Low Energy Storage Rings
Alexander Papash, *Karlsruhe Institute of Technology, Germany*

Title: Description of the spectroscopic properties of the isobars 33P and 33S
Mouna Bouhelal, *University Larbi Tebessi, Algeria*

Title: Introduction of concept of an Accelerator-Driven Advanced Nuclear Energy System
Lei Yang, *Institute of Modern Physics Chinese Academy of Sciences, China*

Title: Neutron yield as a measure of achieving a successful nuclear fusion in the burning plasma produced by ultraintense laser
Ahmed Youssef, *Sohag University, Egypt*

Title: The charge carriers responsible for the photoelectric effect and photovoltaic effect in zns crystals of the cubic modification
R. M. Magomadov, *The Chechen state University, Russia*

Title: Radionuclides release behaviors unique to the Fukushima Daiichi Nuclear Power Plants accident
Akihide Hidaka, *Japan Atomic Energy Agency, Japan*

Title: Computer simulations of few-body atomic, nuclear, and hypernuclear systems
Branislav Vlahovic, *North Carolina Central University, USA*

Title: From free electron lasers toward the first gamma laser
Branislav Vlahovic, *North Carolina Central University, USA*

Title: Development of Ultra-Fine-Grain 316L steel with 1.0 - 2.0 wt% TiC for nuclear reactor materials
Mititaka Terasawa, *Laboratory of Advanced Science and Technology for Industry, Japan*

Title: Two-dimensional localized states in competing cubic-quintic nonlinear lattices
Jianhua Zeng, *Xi'an Institute of Optics and Precision Mechanics of CAS, China*

Title: **Bootstrapping Massive Theories in d>=3**
Revant Nayar, *Princeton University, USA*

Title: **An Atomistic View of the Universe**
Manuel Bautista, *Western Michigan University, USA*

Title: **A new regime of sound attenuation in a super uid**
Alice Sinatra, *Laboratoire Kastler Brossel, France*

Title: **Dozy-chaos nature of molecular quantum transitions and theory of the optical band shapes in polymethine dyes**
Vladimir V. Egorov, *Photochemistry Center Russian Academy of Sciences, Russia*

Title: **Finger Texture Biometric Verification Exploiting Multi-scale Sobel Angles Local Binary Pattern Features and Score-based Fusion**
R. R. O. Al-Nima, *Newcastle University, UK*

Title: **New type of cooperative non-linear emission of excited radiators (molecules, atoms, nuclei) and its applications in processing of information**
Nicolae Enaki, *Institute of Applied Physics, Academy of Sciences of Moldova, Moldova*

Title: **The OXB double mode conversion process in overdense plasma**
Shirin Adlparvar, *Azad university north Tehran branch, Iran*

Title: **Transition from mesoscopy of low levels of the liquid-drop model of nucleus to macroscopy of critical mass of uranium and plutonium with regard to partition theory**
V.P.Maslov, *National Research University, Russia*

Title: **Relativistic calculations of atomic properties**
Jasmeet Kaur, *Guru Nanak Dev University, India*

Title: **Mechanical self-assembly of highly-folded graphene oxides for ultralarge deforming actuators**
Zengyong Chu, *National University of Defense Technology, China*

Title: **Erosion of Tungsten Surface under Combined Steady-State and Transient ITER-like Plasma Impact**
Oleksii Girka, *V.N.Karazin Kharkiv National University, Ukraine*

12 Speaker slots & 2 Keynote slots available

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About Las Vegas

Las Vegas is the most populous city in Nevada, the seat of Clark County, and an internationally renowned major resort city for gambling, shopping and fine dining. Las Vegas, which bills itself as The Entertainment Capital of the World, is famous for the number of casino resorts and associated entertainment. A growing retirement and family city, it is the 31st most populous city in the United States.

It is situated within Clark County in an arid basin on the desert floor, surrounded by dry mountains. The Spring Mountains lie to the west. Much of the landscape is rocky and dusty; the environment is dominated by desert vegetation and some wildlife, and the area is subject to torrential flash floods. Within the city there are many lawns, trees, and other greenery. Due to water resource issues, there is now a movement to encourage xeriscapes. Another part of the water conservation efforts include scheduled watering groups for watering residential landscaping. Las Vegas' climate is a subtropical, hot desert climate typical of the Mojave Desert in which it lies. The city enjoys abundant sunshine year-round: it has an average of about 300 sunny days per year with more than 3,800 hours of sunshine.

The city is home to several museums including the Neon Museum home to many of the historical signs from the valley, The Las Vegas Museum of Organized Crime and Law Enforcement, the Las Vegas Natural History Museum, Lied Discovery Children's Museum National Atomic Testing Museum, and the Old Las Vegas Mormon State Historic Park.

Las Vegas' climate is a subtropical, hot desert climate typical of the Mojave Desert in which it lies. The city enjoys abundant sunshine year-round; it has an average of about 310 sunny days per year. It is virtually free of tornadoes and ice storms. The summer months of June through September are very hot and mostly dry, with a July daily average temperature of 92.5 °F (33.6 °C), while night time temperatures often remain above 80 °F (27 °C). Las Vegas' winters are short and the season is generally mild. December, the coolest month, averages 47.7 °F (8.7 °C). The mountains surrounding Las Vegas accumulate snow during the winter, but snow is rare in the Las Vegas Valley itself.



Best Tourist Destinations in Las Vegas



Bellagio



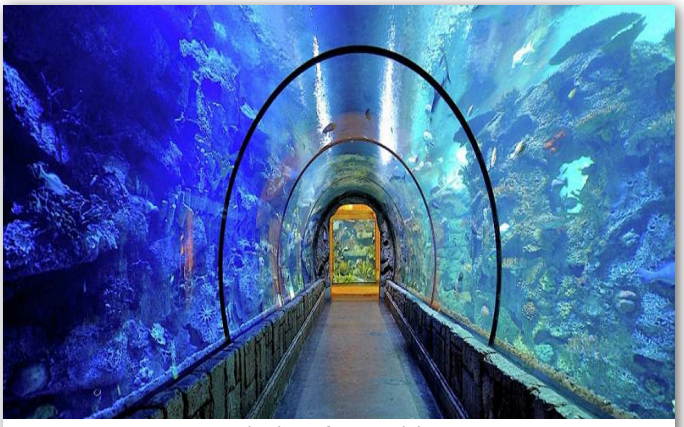
Downtown Container Park.



Discovery Children's Museum



Mirage



Shark Reef at Mandalay Bay



Stratosphere Tower

Glimpses of Atomic Physics 2016











