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Tentative Program

2nd International Conference on

Quantum Physics and Quantum Technology

September 25-26, 2017 Berlin, Germany

Theme: "Chronicling the Progressions from Definitive Quantum Theories to the Advanced Technologies"



For Available Speaker Slots

quantumphysics@physicsconferences.org

19+ Interactive Sessions

15+ Keynote Lectures

75+ Plenary Lectures

5+ Workshops

Conference Secretariat

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

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http://quantumphysics.conferenceseries.com/scientific-program/

Quantum Physics 2017

Program At A Glance

Day 1

Morning Sessions

Reception/Registration	08.00-09.00	
	Time	**General Session**
Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
	09.15-09.45	Keynote/Plenary Talk 1
	09.45-10.15	Keynote/Plenary Talk 2 (slot available)
	10.15-10.45	Keynote/Plenary Talk 3 (slot available)
Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)		
Keynote Slots available		
11.00-12.40		5 Speakers (20 Mins Each)
(Speaker slots available)		
Lunch Break 12.40-13.30		
13.30-15.30		6 Speakers (20 Mins Each)
(Speaker slots available)		
Coffee/Tea Break 15.30-15.45 (Networking)		
15.45-17.25		Workshop and 5 Speakers (20 Mins Each)

Evening Sessions

Day 2

Morning Sessions

	Time	**Session 1**	**Session 2**
09.00-10.40		Keynote Forum	5 Speakers (20 Mins Each)
Keynote Slots available			
Coffee/Tea Break 10.40-10.55 (Networking)			
10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
(Speaker slots available)			
Lunch Break 12.35-13.25			
13.25-15.05		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
(Poster Sessions)			
Coffee/Tea Break 15.05-15.20 (Networking)			
15.20-17.00		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)

Evening Sessions

Awards & Closing Ceremony

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

For more Details PS: http://quantumphysics.conferenceseries.com/

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Glimpses of Quantum Physics Conferences














Glimpses of Quantum Physics Conferences

























Major Scientific Sessions

- Quantum Science
- Quantum States
- Quantum Field Theory
- Theory of Everything: String Theory
- Flow of Time
- Quantum Physics and the Universe
- Quantum Information and Quantum Computing
- Quantum Optics
- In-Depth Quantum Mechanics
- Quantum Mechanics Interpretations
- Quantum Transport and Dissipation
- Physical Mathematics
- Quantum Technology

Best Poster Award



- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
quantumphysics@physicsconferences.org

Conference Venue

Berlin, Germany

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Quantum Physics 2017
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Best Tourist Destinations in Berlin, Germany


7 Great Day Trips from Berlin


10 Top Tourist Attractions in Berlin

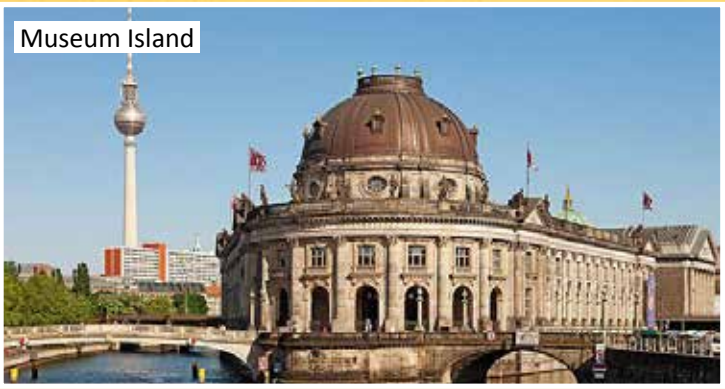

Brandenburg Gate



Check Point Charlie


Holocaust Memorial


Memorial Church


Museum Island


Potsdamer Platz


Reichstag


Tiergarten

About Berlin

Berlin is the capital of Germany, and one of the 16 states of Germany with a population of 3.5 million people and is Germany's largest city. It is the second most populous city proper and the seventh most populous urban area in the European Union. Located in north-eastern Germany on the banks of Rivers Spree and Havel, it is the centre of the Berlin-Brandenburg Metropolitan Region, which has about six million residents from over 180 nations. Due to its location

in the European Plain, Berlin is influenced by a temperate seasonal climate. Around one-third of the city's area is composed of forests, parks, gardens, rivers and lakes.

Berlin is a world city of culture, politics, media, and science. Its economy is based on high-tech firms and the service sector, encompassing a diverse range of creative industries, research facilities, media corporations, and convention venues. Berlin serves as a continental hub for air and rail traffic and has a highly complex public transportation network.

The metropolis is a popular tourist destination. Significant industries include Graphics, Animation, Game Art, Gamer hub and Media & Film Festivals.

Berlin you have one of the world's greatest film festivals, the Berlin International Film Festival, the International Leipzig Festival for Documentary and Animated Film, the Festival of Animated Film Stuttgart and the Bitfilm Festival.



Scientific Program

International Conference on
Quantum Physics and Nuclear Engineering

March 14-16, 2016 London, UK



OMICS International Conferences

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Scientific Program

Day 1

Monday March 14, 2016

Registrations

Opening Ceremony

Keynote Forum

Introduction

Yukio Tomozawa
University of Michigan, USA

Manijeh Razeghi
Northwestern University, USA

Kazuhisa Kakurai
QuBS, JAEA & CEMS, RIKEN, Japan

Group Photo

Networking & Refreshments Break

Track 1: Quantum Science

Session Chair: Manijeh Razeghi, Northwestern University, USA
Session Co-chair: Ian O' Driscoll, Cork Institute of Technology and Tyndall National Institute, Ireland

Session Introduction

Title: Evidence for a dark matter particle
Yukio Tomozawa, University of Michigan, USA
Title: Silicon photonics: generation of entangled photon pairs
Labonté Laurent, University of Nice Sophia Antipolis, France
Title: Gaussian quantum discord and the entangling power of a beamsplitter
Natalia Korolkova, University of St. Andrews, UK
Title: StarDriver: A highly flexible laser driver for inertial confinement fusion
David Eimerl, EIMEX, USA

Networking & Lunch Break

Title: Cavity-mediated collective heating in opaque sonoluminescing bubbles
Almut Beige, University of Leeds, UK
Title: High performance InAs-based type-II superlattice infrared photo-detectors
Jianxin Chen, Chinese Academy of Sciences, China
Title: Protocols for concentration of entanglement in multipartite quantum states
Binayak S Choudhury, Indian Institute of Engineering Science and Technology, India
Title: NV centers in diamond - quantum coherence, noise and nanoscale MRI
Nir Bar-Gill, Hebrew University, Israel
Title: Blue-green luminescence of Ce-doped ZnO thin films
Manuel García-Méndez, CICFIM de la FCFM-UANL, México

Networking & Refreshments Break

Track 1: Quantum Science
Track 2: In Depth Quantum Mechanics

Session Chair: Yukio Tomozawa, University of Michigan, USA
Session Co-chair: Waseem Bakr, Princeton University, USA

Title: Photo-induced topological phase transitions in ultracold fermions
Norio Kawakami, Kyoto University, Japan

Title: Ultrashort optical pulse generation in quantum dot lasers
Ian O' Driscoll, Cork Institute of Technology and Tyndall National Institute, Ireland
Title: Logical stochastic resonance with a coulomb-coupled quantum dot rectifier
Fabian Hartmann, Universität Würzburg, Germany
Title: Pair condensation in a spin-imbalanced two-dimensional Fermi gas
Waseem Bakr, Princeton University, United States

Panel Discussion

Day 2

Tuesday March 15, 2016

Guggenheim

Track 3: Quantum States
Track 4: Quantum Mechanics Interpretation
Track 5: Strings in Quantum Physics

Session Chair: Kazuhisa Kakurai, QuBS, JAEA & CEMS, RIKEN, Japan
Session Co-chair: Alexander Kubanek, Ulm University, Germany

Session Introduction

Title: Importance and applications of infinite dimensional non-orthogonal quantum state
Osamu Hirota, Tamagawa University, Japan
Title: Generation of non-classical states of light using photonic crystal fibres
N Y Joly, University of Erlangen-Nürnberg, Germany
Title: Fundamental phenomena of quantum mechanics studied in matter-wave optics: Quantum Cheshire-cat and uncertainty relations
Yuji Hasegawa, TU-Wien Atominstitut der Österreichischen Universitäten, Austria

Networking & Refreshments Break

Title: Neutron scattering investigations on quantum spin systems
Kazuhisa Kakurai, QuBS, JAEA & CEMS, RIKEN, Japan
Title: Towards an optimal quantum SWAP gate
Colin Wilmott, Nottingham Trent University, UK
Title: Nonlinear interferometer for shaping the spectrum of bright squeezed vacuum
Maria Chekhova, Max-Planck Institute for the Science of Light, Germany
Title: A consistent account of brain function reinterprets the evidence on which quantum mechanics is based
Michael T Deans, Freelance Scientist, United Kingdom
Title: Applications of induced coherence without induced emission
Gabriela Barreto Lemos, Institut für Quantenoptik und Quanten information, Austria

Networking & Lunch Break

Track 9: Nuclear Science
Track 10: Interaction and Maintenance

Session Introduction

Session Chair: Ekmel Ozbay, Bilkent University, Turkey
Session Co-chair: Colin Wilmott, Nottingham Trent University, UK

Title: Quantum Optics with color center in diamond
Alexander Kubanek, Ulm University, Germany
Title: Metamaterial based nanobiosensors and nanophotodetectors
Ekmel Ozbay, Bilkent University, Turkey
Title: Alignment of atomic inner shell vacancies-A detailed study
Ajay Sharma, Chitkara University, India

Panel Discussion

Networking & Refreshments Break

Poster presentations

Title: High-power hybrid fiber amplifiers with pumping power recycling mechanism
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
Title: Berry curvature in topologically non-trivial quantum systems
Georgios Konstantinou, University of Cyprus, Cyprus
Title: Topological electric currents in nonadiabatic quantum systems
Kyriakos Kyriakou, University of Cyprus, Cyprus
Title: Exploring the scaling of graphene for radiation detection
Zachary Shollar, Purdue University, United States

Day 3

Wednesday March 16, 2016

Guggenheim

Track 6: Quantum Physics Formulation
Track 7: Quantum Field Theory
Track 8: Quantum Transport and Dissipation
Track 11: Latest Technologies, Innovations and Instruments

Keynote Forum

Shien-Kuei Liaw
National Taiwan University of Science and Technology, Taiwan

C Wei Xu
Virtumanity, USA

Networking & Refreshments Break

Session Introduction

Session Chair: Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
Session Co-chair: Yuji Hasegawa, TU-Wien Atominstitut der Österreichischen Universitäten, Austria

Title: Quantum and classical dynamics in hilbert spaces of states
Alexey Kryukov, University of Wisconsin Colleges, USA
Title: Optical signatures of states bound to vacancy defects in monolayer transition metal dichalcogenides
Michael Leuenberger, University of Central Florida, USA
Title: Plasmonic response of partially gated field effect transistors
G Rupper, Army Research Laboratory, USA
Title: On coupled wave scattering of structures involving flexible boundaries
Rab Nawaz, COMSATS Institute of Information Technology Islamabad, Pakistan
Title: Unified theory for all physics and beyond
C Wei Xu, Verizon Communications, USA

Panel Discussion

Networking & Lunch Break

Closing Ceremony

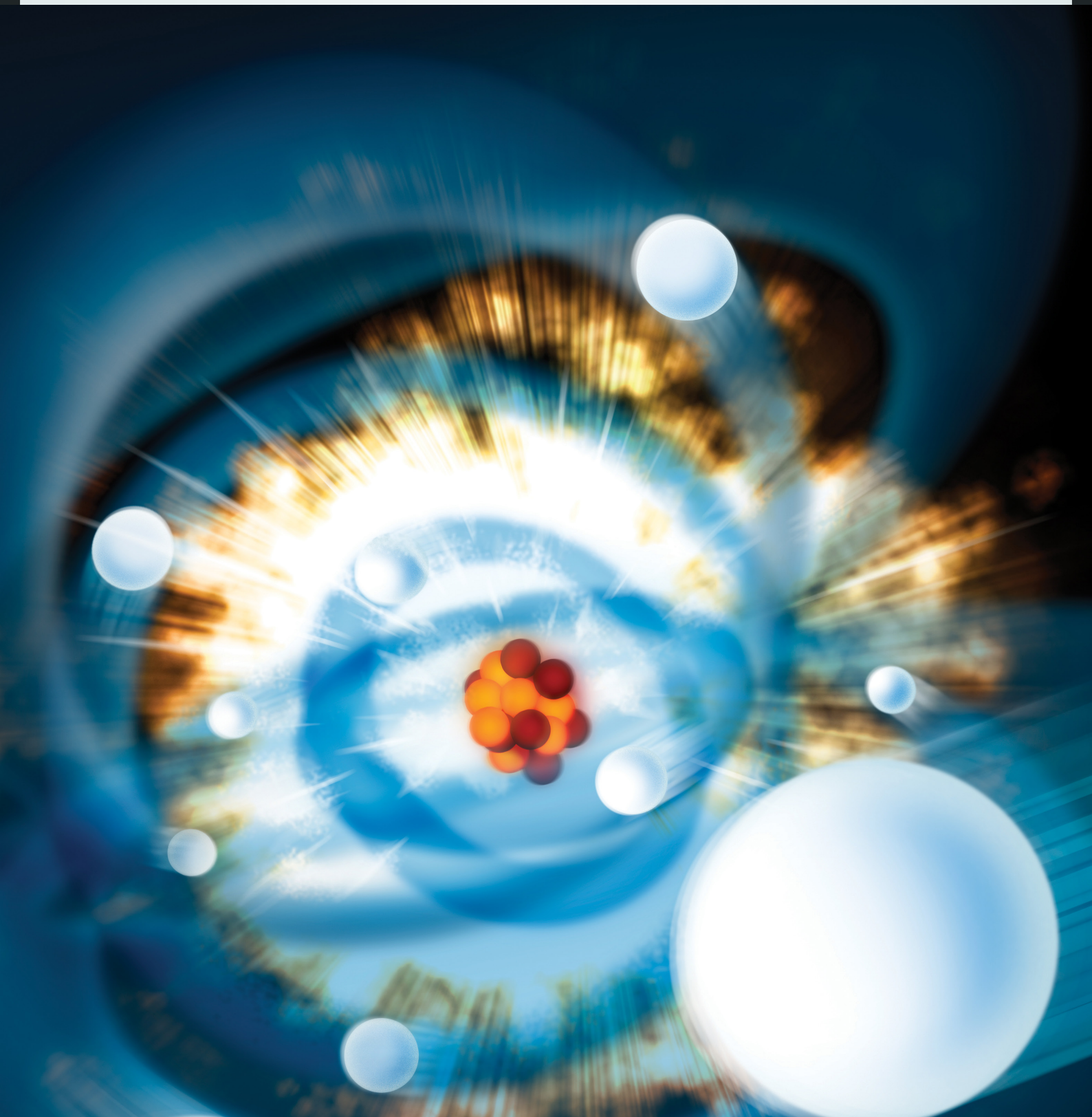
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2nd International Conference and Exhibition on

Mesoscopic and Condensed Matter Physics

October 26-28, 2016 Chicago, Illinois, USA

Scientific Program



Day 1 October 26, 2016

Registrations

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Opening Ceremony

Keynote Forum

Introduction

Title: In-situ electron paramagnetic resonance studies of paramagnetic point defects in superconducting microwave resonators
Nathan Newman, Arizona State University, USA
Title: Photonic applications with a protein complex
D V G L N Rao, University of Massachusetts, USA

Title: Theory of thermal expansion of magnetic superconductors
Rikio Konno, Kindai University Technical College, Japan

Networking & Refreshment Break

Sessions:
Condensed Matter Physics | Bio-Physics and New Dimension in Technology | Statistical Machanics of Condensed Matter Systems

Session Chair: Himanshu Verma, University of South Florida, USA

Session Co-chair: Igor Tralle, University of Rzeszow, Poland

Session Introduction

Title: Scanning tunneling microscopy across a superconductor/topological insulator interface
Stuart Tessmer, Michigan State University, USA
Title: Braiding of majorana fermions and topological quantum computation
Louis H Kauffman, University of Illinois at Chicago, USA
Title: Electronic and magnetic behaviors of 2D atom-thin layers: Graphene, black phosphorus, hexagonal boron-nitride and MoS2
Junji Haruyama, Aoyama Gakuin University, Japan
Title: Quantum entanglement in electron ballistic transport and jaynes-cummings model
Igor Tralle, University of Rzeszow, Poland
Title: Mott-insulators vs. bipolaronic insulators in a deformable lattice and their transitions to metallic ground states by tuning the deformation potential
Gayan Prasad Hettiarachchi, Osaka University, Japan
Title: The phase transition in cerium metal studied by an LDA + Gutzwiller method
Haifeng Song, Institute of Applied Physics and Computational Mathematics, China
Title: Melting and transport properties of aluminium at high pressure from ab initio molecular dynamics simulations
S C Wang, Institute of Applied Physics and Computational Mathematics, China

Lunch Break

Title: The properties of α and β-UH_3 under extreme conditions (stretching and compressing strains): An ab initio study
Hongzhou Song, Institute of Applied Physics and Computational Mathematics, People's Republic of China

Panel Discussion

Sessions:
Solid State Physics and Crystallography | Quantum Physics in Condensed Matter and Mesoscopic Physics

Session Chair: C S Ting, University of Houston, USA

Session Co-chair: Rita John, University of Madras, India

Title: Novel electronic properties of hydrogenated grapheme: The first principles calculations
C S Ting, University of Houston, USA

Title: Theoretical investigation on 2D materials: graphene, silicene, germanene, and stanene
Rita John, University of Madras, India
Title: The collective effect of magnetic holes of different dimensions in superparamagnetic continnum subjected to gradient magnetic field: A bireferengence study
P M Trivedi, Bhavan's Sheth R A College of Science, India
Title: Improved electrochromic performance of WO3/PPy thin films
Anamika Vitthal Kadam, D Y Patil College of Engineering and Technology, India
Title: Topological quantum states visulized by ARPES: From topological kondo insulator to Weyl semimetal
Nan Xu, Paul Scherrer Institut, Switzerland

Networking and Refreshments

Title: Numerical modeling of exciton-light coupling in quantum wells
Pavel Belov, Saint Petersburg State University, Russia
Title: Quantum computation with fibonacci anyons
Claire Levaillant, University of California at Santa Barbara, USA
Title: Study of radiation effects on photoelectric and luminescence parameters of two-barrier structures based on silicon
F P Abasov, Institute of Radiation Problems of NAS of Azerbaijan, Azerbaijan
Title: The thermodynamic and optical properties of diamond: A first-principles study
Qili Zhang, Institute of Applied Physics and Computational Mathematics, China

Video Presentation

Title: Degeneracy and interference quantum effects in phase space distribution functions: Path integral approach
A S Larkin, Joint Institute for High Temperatures-RAS, Russia

Panel Discussions

Day 2 October 27, 2016

Hall

Keynote Forum

Title: Exploration of intermediate phases of matter on surfaces
Michael W Roth, Northern Kentucky University, USA
Title: Topological phase transitions and a two-dimensional Weyl superconductor in a superconductor/half-metal heterostructure
C S Ting, University of Houston, USA

Session:
Nano and Mesoscopic Scale
Session Chair: Elie. A Moujaes, Federal University of Rôndonia, Brazil
Session Co-chair: Yuko Ichiyanagi, Yokohama National University, Japan

Session Introduction

Title: Fundamental mechanisms that determine the loss tangent and temperature coefficient of resonant frequency (τf) in modern microwave ceramic dielectrics
Nathan Newman, Arizona State University, USA
Title: Strongly localized isoelectronic impurities for synthesizing novel semiconductor alloys
Kirstin Alberi, National Renewable Energy Laboratory, USA
Title: Local structure analysis and biomedical applications of multifunctional magnetic nanoparticles
Yuko Ichiyanagi, Yokohama National University, Japan

Networking & Refreshment Break

Title: Magnetization of ultrathin [Fe1-cNic]n alloy nanojunctions between Fe or Co leads using an EFT-MFT model
Elie A Moujaes, Federal University of Rôndonia, Brazil
Title: Electronic structure of graphene wormhole and graphitic nanocone
Jan Smotlacha, Joint Institute for Nuclear Research, Russia
Title: Synthesis and characterization of Zn-substituted lithium cobalt ferrite using sol-gel autocombustion for a cathode material in lithium ion batteries
Mukhtar Ahmad, COMSATS Institute of Information Technology, Pakistan

Title: Transport properties of "man-made" crystalline: Semiconductor superlattice
M Kofoworola Awodele, Ladoke Akintola University of Technology, Nigeria
Title: Nanosensors based on single and multiple metal oxide nanostructures
Tonezzer Matteo, The Istituto dei Materiali per l'Elettronica ed il Magnetismo-CNR, Trento, Italy
Title: Enhancement of sensitivity in gas chemiresistors based on carbon nanotube surface functionalized with substituted phthalocyanines
Anshul Kumar Sharma, Guru Nanak Dev University, India

Lunch Break

Title: AFM controlled studies of nanoscale polymeric spheres on a Si substrate
Himanshu Verma, University of South Florida, USA
Title: Emission, structure and aging of silver doped ZnO nanorod films
T V Torchynska, Instituto Politécnico Nacional, México

Panel Discussion

Session:
Meta Materials and Magnetic Materials
Session Chair: Roberto Zivieri, University of Ferrara, Italy
Session Co-chair: Rikio Konno, Kindai University Technical College, Japan

Session Introduction

Title: 2D ferromagnetic nanostructures: A new class of metamaterials
Roberto Zivieri, University of Ferrara, Italy
Title: Theory of thermal expansion of heavy fermion systems
Rikio Konno, Kindai University Technical College, Japan
Title: New types of composite metamaterials
Paweł Zięba, University of Rzeszow, Poland

Networking & Refreshment Break

Title: Impact of CuZn on structural, morphological and magnetic properties of spinel nanocrystalline ferrites for variety of applications
Majid Niaz Akhtar, COMSATS Institute of Information Technology, Pakistan
Title: Titanium doped semiconductor microring laser on optical fibers
Muhammad Maqbool, Ball State University, USA

Video Presentation

Title: Large-scale Bose-Einstein condensation in a vapor of sodium atoms at normal temperature (T=343K)
Pei Lin You, Guangdong Ocean University, China

Day 3 October 28, 2016

Hall

Sessions:
Superconductivity and Superfluidity | Organic Electronics | Theoretical and Experimental study of Soft Matter
Session Chair: Ranjan Chaudhury, S N Bose National Center For Basic Sciences, India
Session Co-chair: Myung Joon Han, KAIST Institute for interdisciplinary research, Korea

Session Introduction

Title: The rich landscape of organic molecules on graphitic surfaces: What molecular dynamics shows
Michael W Roth, Northern Kentucky University, USA
Title: Reduced dimensionality and emerging material property in perovskite oxide superlattices: A first-principles study
Myung Joon Han, Korea Advanced Institute of Science and Technology, Korea
Title: Spin superfluidity in the frustrated two-dimensional anisotropic XY model
Leonardo dos Santos Lima, Centro Federal de Educação Tecnológica de Minas Gerais, Brazil

Networking & Refreshment Break

Title: Functional oxide nanoarchitectures for emerging energy and clinical technologies

Oomman K Varghese, University of Houston, USA

Title: Effect of metal-ions (Sn and Li) doping on the structural, optical and gas sensing properties of In_2O_3 nanocrystalline thin films

S N Pandey, Motilal Nehru National Institute of Technology, India

Title: Local properties study of substituted Sr-Ca-Cu-O superconducting structur

A Sklyarova, Nagaoka University of Technology, Japan

Title: Microscopic understanding of high temperature superconductivity and its possible role towards enhancement of critical temperature

Ranjan Chaudhury, S N Bose National Center For Basic Sciences, India

Title: Dielectric relaxation study and molecular interaction of amides in 1, 4-dioxane by using time domain reflectometry

Gajanan Ramrao Mahajan, Shri Datta Arts, Commerce and Science College, India

Title: Morphological studies of virgin and ion irradiated nanostructured Baf2 thin films surfaces

S N Pandey, Motilal Nehru National Institute of Technology, India

Title: Electron-phonon interaction in nanostructures at sub-Kelvin temperaturese

Dragos Victor Anghel, Institutul National de Cercetare-Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei, Romania

Lunch Break

Panel Discussion

Awards and Closing Ceremony