Tentative Program

4th International Conference on Quantum Physics and QuantumTechnology

October 18-19, 2018 Rome, Italy



Interactive Sessions

Keynote Lectures

Plenary Lectures

Workshops

Exhibitors

B2B Meetings

For available speaker slots

quantumphysics@annualconferences.org

4th International Conference on Quantum Physics and Quantum Technology

October 18-19, 2018 Rome, Italy

Program at a Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
		09.00-09.15	Inaugural Address
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
Evening Sessions	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

	Time	Session 1	Session 2
Morning Sessions	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		
Evening Sessions	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)
	Closing Cermony		
	NOTE: Program Shedule is subject to change with final allotment of the speaker slots		

30 Speakers on Day 2

Call for Abstract: https://quantumphysics.conferenceseries.com/call-for-abstracts.php

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Conference Highlights

- Quantum Science
- Quantum Field Theories
- Quantum Mechanics
- String Theory & Quantum Gravity
- Quantum Chromodynamics
- Quantum Condensed Matter Physics
- Quantum Transport
- Quantum Optics
- Quantum Information & Quantum Computing
- Quantum Technology



Plan your trip to Italy



Altare della Patria



Baroque Fountain



Castel Sant'Angelo



Colosseum



Piazza Venezia



St. Peter's Square



The Leaning Tower of Pisa



The Roman Forum

conferenceseries.com
1227th Conference

Scientific Program

2nd International Conference on

QUANTUM PHYSICS AND QUANTUM TECHNOLOGY

September 25-26, 2017 Berlin, Germany



UK: Conference Series llc LTD
47 Churchfield Road, London, W3 6AY
Phone:+44 8000148923, Fax: +44 2030041517

Day 1 September 25, 2017

Registrations

v. Kleist

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Opening Ceremony

Special Sessions

Introduction

Title: A new approach to quantum mechanics

Yakir Aharonov, Chapman University, USA

Keynote: The transition path time distribution - quantum mechanics, vanishing tunneling flight times and special relativity

Eli Pollak, Weizmann Institute of Science, Israel

Networking and Refreshments Break

Keynote: Quantum master equation for Fermions and a unitary relativistic quantum theory

Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania

Keynote: The Shell-Nodal structure of the atoms

George P Shpenkov, USTB, Poland

Sessions: Quantum Science | Quantum States | Quantum Field Theory | Theory of Everything: String Theory | Flow of Time | Quantum Physics and the Universe

Session Chair: Ozhigov Yuri Igorevich, Moscow State University, Russia

Session Co-chair: Eli Pollak, Weizmann Institute of Science, Israel

Session Introduction

Title: Electromagnetically induced transparency in circuit quantum electrodynamics with nested polariton states

David Pappas, NIST, USA

Title: Correlated motion in atomic and molecular three-particle systems

Hazel Cox, University of Sussex, UK

Lunch Break

Title: On some unknown features of the Bose-Einstein statistics

Aleksey Ilyin, Moscow Institute of Physics and Technology, Russia

Title: Weak and strong non-linear effects in Josephson junction chains

Wiebke Guichard, Institut NEEL CNRS, France

Title: Finite dimensional models of QED

Ozhigov Yuri Igorevich, Moscow State University, Russia

Title: Quantum wave mixing and resolving photonic classical and non-classical coherent states

Vladimir Antonov, Royal Holloway University of London, UK

Networking and Refreshments Break

Title: Experimental probing of quantum criticality at the superconductor-insulator quantum phase transition

Aviad Frydman, Bar-Ilan University, Israel

Title: 3025 - Science in fiction

Tina Matzat, CEO and Founder of Qbit Films, Germany

Title: Proposed link between the periodic table and the standard model

John Roberts, University of Liverpool, UK

Title: Excited S states of two electron atoms

Adam Baskerville, University of Sussex, UK

Panel Discussion

Day 2 September 26, 2017

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Special Sessions

Introduction

Keynote: Quantum electronic transport and conductance anomaly in quasi-1D systems

Mukunda Das, Australian National University, Australia

Title: Universal quantum laws, health and well-being

Menas Kafatos, Chapman University, USA

Networking and Refreshments Break

Title: Revision of abstract quantum computer: Why do we need and how to build it?

Ozhigov Yuri Igorevich, Moscow State University, Russia

Sessions: Quantum Information and Quantum Computing | Quantum Optics | In Depth Quantum Mechanics | Quantum Mechanics Interpretations | Quantum Transport and Dissipation | Physical Mathematics | Quantum Technology

Session Chair: Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania

Session Co-Chair: Hazel Cox, University of Sussex, UK

Session Introduction

Title: New principles of solving the problem of combining the gravitational and electromagnetic fields

V A Nastasenko, Kherson State Maritime Academy, Ukraine

Title: Quantum key distribution networks and their applications for blockchain-based technologies

Aleksey Fedorov, Russian Quantum Center, Russia

Lunch Break

Title: Vibrational state control of BECs using stochastic webs

Nathan Welch, University of Nottingham, UK

Title: On the motion of macroscopic bodies in quantum theory

Alexey Kryukov, University of Wisconsin Colleges, USA

Title: Unified quantum metric

Eugene A Machusky, NTU University, Ukraine

Title: Information entropy of quantum dynamics

Dmytro Progonov, NTU University, Ukraine

Title: X-ray quantum optics

Adriana Palffy, Max Planck Institute for Nuclear Physics, Germany

Networking and Refreshments Break

Title: Iterative generation of non-classical states of light

Rosa TUALLE-BROURI, Université Paris Sud, France

Title: Many particle interactions in the integer quantum Hall effect regime

Josef Oswald, Montanuniversität Leoben, Austria

Title: Coherent observers for linear quantum systems

Nina H Amini, Laboratoire des Signaux et Systèmes (L2S), France

Panel Discussion

Awards & Closing Ceremony

Scientific Program

International Conference on
Quantum Physics and Nuclear Engineering

March 14-16, 2016 London, UK



UK: Conference Series llc LTD
47 Churchfield Road, London, W3 6AY
Phone:+44 8000148923, Fax: +44 2030041517

Scientific Program

Day 1

Monday March 14, 2016

Registrations

Guggenheim

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

QP101	**Title: High-power hybrid fiber amplifiers with pumping power recycling mechanism** **Shien-Kuei Liaw,** National Taiwan University of Science and Technology, Taiwan
QP102	**Title: Berry curvature in topologically non-trivial quantum systems** **Georgios Konstantinou,** University of Cyprus, Cyprus
QP103	**Title: Topological electric currents in nonadiabatic quantum systems** **Kyriakos Kyriakou,** University of Cyprus, Cyprus
QP104	**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