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

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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

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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