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Scientific Program

2nd International Conference on

QUANTUM PHYSICS AND QUANTUM TECHNOLOGY

September 25-26, 2017 Berlin, Germany



UK: Conference Series IIc LTD

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v. Kleist

conferenceseries.com 08:30-08:55

Opening Ceremony

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	Special Sessions	
08:55-09:00		
09:00-10:00	Title: A new approach to quantum mechanics	
	Yakir Aharonov, Chapman University, USA	
10:00-10:45	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 10:45-11:05 @ Foyer	
	Keynote: Quantum master equation for Fermions and a unitary relativistic quantum	
11:05-11:50		
	Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania	
	Keynote: The Shell-Nodal structure of the atoms	
11:50-12:35	·	
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		
	Ozhigov Yuri Igorevich, Moscow State University, Russia	
	air: Eli Pollak, Weizmann Institute of Science, Israel	
Session Introduction		
	Title: Electromagnetically induced transparency in circuit quantum electrodynamics with	
12:35-13:00	nested polariton states	
	David Pappas, NIST, USA	
13:00-13:25	Title: Correlated motion in atomic and molecular three-particle systems	
13.00-13.23	Hazel Cox, University of Sussex, UK	
	Lunch Break 13:25-14:25 @ Restaurant Theodor's	
14:25-14:50 14:50-15:15	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	
15:15-15:40	Ozhigov Yuri Igorevich, Moscow State University, Russia	
	Title: Quantum wave mixing and resolving photonic classical and non-classical	
15:40-16:05	coherent states	
	Vladimir Antonov, Royal Holloway University of London, UK	
	Networking and Refreshments Break 16:05-16:25 @ Foyer	
	Title: Experimental probing of quantum criticality at the superconductor-insulator	
16:25-16:50	quantum phase transition	
	Aviad Frydman, Bar-Ilan University, Israel	
16:50-17:15	Title: 3025 - Science in fiction	
	Tina Matzat, CEO and Founder of Qbit Films, Germany	
17:15-17:40	Title: Proposed link between the periodic table and the standard model	
	John Roberts, University of Liverpool, UK	
17:40-18:05	Title: Excited S states of two electron atoms	
17.70-10.03	Adam Baskerville, University of Sussex, UK	
	Panel Discussion	

	Day 2 September 26, 2017	
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	Special Sessions	
	Introduction	
09:00-09:45	Keynote: Quantum electronic transport and conductance anomaly in quasi-1D systems	
	Mukunda Das, Australian National University, Australia	
09:45-10:45	Title: Universal quantum laws, health and well-being	
	Menas Kafatos, Chapman University, USA	
	Networking and Refreshments Break 10:45-11:05 @ Foyer	
11:05-12:05	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		
	Quantum Mechanics Interpretations Quantum Transport and Dissipation Physical	
	Quantum Technology : Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania	
	nair: Hazel Cox, University of Sussex, UK	
	Session Introduction	
12:05-12:30	Title: New principles of solving the problem of combining the gravitational and	
	electromagnetic fields	
	V A Nastasenko, Kherson State Maritime Academy, Ukraine	
12:30-12:55	Title: Quantum key distribution networks and their applications for blockchain-based technologies	
	Aleksey Fedorov, Russian Quantum Center, Russia	
	Lunch Break 12:55-13:55 @ Restaurant Theodor's	
13:55-14:20	Title: Vibrational state control of BECs using stochastic webs	
	Nathan Welch, University of Nottingham, UK	
14:20-14:45	Title: On the motion of macroscopic bodies in quantum theory	
	Alexey Kryukov, University of Wisconsin Colleges, USA	
14:45-15:10	Title: Unified quantum metric	
	Eugene A Machusky, NTU University, Ukraine	
15:10-15:35	Title: Information entropy of quantum dynamics	
	Dmytro Progonov, NTU University, Ukraine	
15:35-16:00	Title: X-ray quantum optics	
	Adriana Palffy, Max Planck Institute for Nuclear Physics, Germany	
	Networking and Refreshments Break 16:00-16:20 @ Foyer	
16:20-16:45	Title: Iterative generation of non-classical states of light	
	Rosa TUALLE-BROURI, Université Paris Sud, France	
16:45-17:10	Title: Many particle interactions in the integer quantum Hall effect regime	
	Josef Oswald, Montanuniversität Leoben, Austria	
17:10-17:35	Title: Coherent observers for linear quantum systems	
	Nina H Amini, Laboratoire des Signaux et Systèmes (L2S), France	
	Panel Discussion	

Panel Discussion

Awards & Closing Ceremony