

Moscow time

March 30

15-30 - 16-00 Introductory word, Y.I.Ozhigov (1),(2), (1) Moscow State University of M.V.Lomonosov, (2) K.A.Valiev Institute of physics and technology RAS,  
16-00 - 16-30 What are Quantum Temporal Correlations ? Hai Wang and Junde Wu, School of Mathematical Sciences, Zhejiang University, Hangzhou 310027, PR China  
16-30 - 17-00 Multi-stages iterative process for conservative economical finite-difference schemes realization for the problems of nonlinear laser pulse interaction with a medium, V.A. Trofimov (1), M.M. Loginova (2), V.A. Egorenkov (2) (1) South China University of Technology, Guangzhou, China, (2) Lomonosov Moscow state University, faculty VMK  
17-00 - 17-30 Social Laser, A. Yu. Khrennikov, Linnaeus University, Vaxjo, Sweden,  
17-30 - 18-00 Quality of control in Tavis-Cummings-Hubbard model, Raffael Duell (1), Zheng Keli (2), Alexei Kulagin (2), Miao Huei-huei (2), Wanshun Lee (2) , Yuri Ozhigov, (2), (3), (1) Munich Technical University, Munich, Germany, (2) Moscow State University of M.V.Lomonosov, VMK Faculty, (3) K.A.Valiev Institute of physics and technology RAS,  
18-30 - 19-00 Quantum nonlocality and control on the distributed computations, Y.I.Ozhigov (1), (2), I.Pluzhnikov, (1), (1) Moscow State University of M.V.Lomonosov, (2) K.A.Valiev Institute of physics and technology RAS,

March 31

16-00 - 16-30 Quantum Algorithms for Constructing Text from Dictionary Problem, K.R. Khadiev (1) (2), V. S. Remidovskii (1), (1) Kazan Federal University, Kazan, Russia, (2) Kazan E. K. Zavoisky Physical-Technical Institute, Kazan, Russia,  
16-30 – 17-00 Coffee break  
17-00 - 17-30 Clustering by quantum annealing on three level quantum elements - qutrits, V.E. Zobov, I. S. Pichkovskiy, Kirensky Institute of Physics Federal Research Center KSC Siberian Branch Russian Academy of Sciences.  
17-30 -18-00 Qudit-based quantum information processing, E.O. Kiktenko (1),(2), A.S. Nikolaeva (1),(2), A.K. Fedorov (1),(2), (1) Russian Quantum Center,(2) Moscow Institute of Physics and Technology,  
18-00 - 18-30 Tri-state Quantum Information Model, Ed Gerck, Planalto Research, CA, USA,  
18-30 - 19-00 On The Physical Representation Of Quantum Systems, Ed Gerck, Planalto Research, CA, USA,  
19-00 - 19-30 Indistinguishability of quantum states and rotation counting, Dmitri V. Averin, Department of Physics and Astronomy, Stony Brook University, SUNY, Stony Brook, NY, USA.

April 1

16-00 - 16-30 Algorithm for quantum computer that simulates multiple quantum NMR dynamics in systems of particles with spin 1/2, A.A. Belova (1), A.V. Fedorova (2), E. I. Kuznetsova (2), (1) Lomonosov Moscow state University, Faculty of Fundamental Physical and Chemical Engineering, (2) Institute of Problems of Chemical Physics, Russian Academy of Sciences,  
16-30 - 17-00 Full-stack software solution for the currently developed quantum computer, G. I. Struchalin (1), (2), A. D. Moiseevskiy (1), (2), F. I. Medvedev (2), I. V. Kondratyev (1), (2), and S. P. Kulik (1), (2), (1) Lomonosov Moscow State University, Faculty of Physics, (2) MSU Quantum Technology Centre,  
17-00 - 17-30 Unambiguous state discrimination attack on a quantum key distribution line, D. B.

Horoshko, S. Ya. Kilin, B. I. Stepanov Institute of Physics, NASB, Belarus,  
17-30 - 18-00 Spectral properties of a photonic molecule designed from one-dimensional chain of coupled Fabry-Perot cavities under mechanical control, A.V. Tsukanov (1), Y.V. Garev (2), (1) Valiev Institute of Physics and technology, Russian Academy of Sciences, (2) Moscow Institute of Physics and Technology, School of Electronics, Photonics and Molecular Physics,  
18-00 - 18-30 Diamond photonic molecule with mechanical tuning of the spectrum by a mobile microdisk, M.S. Rogachev, A.V. Tsukanov, I.Yu. Kateev, Valiev Institute of Physics and Technology, Russian Academy of Sciences,  
18-30 - 19-00 On some modifications of finite-dimensional QED models, Vitali Afanasiev (1), Zheng Keli (1), Alexei Kulagin (1), Miao Huei-huei (1), Wanshun Lee (1), Yuri Ozhigov, (1), (2), Nadezda Victorova (3), (1) Moscow State University of M.V.Lomonosov, VMK Faculty, (2) K.A.Valiev Institute of physics and technology RAS, (3) Russian State University for the Humanities.

April 2

16-00 - 16-30 Uncertainty relation "precision of wave function - complexity", Y.I.Ozhigov (1),(2), (1) Moscow State University of M.V.Lomonosov, (2) K.A.Valiev Institute of physics and technology RAS,  
16-30 - 17-00 Jordan-Wigner qubits with nontrivial exchange rule, Alexander Yu.Vlasov (1), (2), (1) P.V. Ramzaev Research Institute of Radiation Hygiene, Federal Radiology Center, Russia, (2) Alexander Friedmann Laboratory for Theoretical Physics,  
17-00 - 17-30 Quantum register cannot be real, A.V. Nikulov, Institute of Microelectronics Technology, Russian Academy of Sciences,  
17-30 - 18-00 Funny mistake of Richard Feynman, A.V. Nikulov, Institute of Microelectronics Technology, Russian Academy of Sciences.  
18-00 - 18-30 Simulation of PT-symmetric systems, Minyi Huang, Department of Mathematical Sciences, Zhejiang Sci Tech University, Hangzhou, China  
18-30 - 19-00 Pseudostochastic representation of quantum dynamics, E.O. Kiktenko (1),(2),(3), V.I. Yashin (1),(2),(3), D.A. Kulikov (1),(2), A.S. Mastiukova (1),(2), A.K. Fedorov (1),(2), (1) Russian Quantum Center, (2) Moscow Institute of Physics and Technology, (3) Steklov Mathematical Institute of Russian Academy of Sciences,

April 3

16-00 - 16-30 Average skew information-based coherence and its typicality for random quantum states, Zhaoqi Wu (1),(4), Lin Zhang (2),(4), Shao-Ming Fei (3),(4), Xianqing Li-Jost (4), (1) Department of Mathematics, Nanchang University, Nanchang, China, (2) Institute of Mathematics, Hangzhou Dianzi University, Hangzhou, China, (3) School of Mathematical Sciences, Capital Normal University, Beijing, China, (4) Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany,  
16-30 - 17-00 Finite-dimensional optical interpretation of charge and field dynamics, Zheng Keli (1), Yuri Ozhigov (1),(2), (1) Moscow State University of M.V.Lomonosov, (2) K.A.Valiev Institute of physics and technology RAS.  
17-00 - 17-30 Tighter Monogamy Relations in Multiqubit Systems, Kai Zheng (1), Yuan-Hong Tao (1),(2), (1) Department of Mathematics, College of Sciences, Yanbian University, Yanji, China, (2) Department of Big Data, School of Science, Zhejiang University of Science and Technology, Hangzhou, China  
17-30 - 18-00 Photon statistics for metrology applications: imaging and linear optical circuits characterisation, K. G. Katamadze(1),(2), B. I. Bantysh(2), G. V. Avosopiants(1), A. V. Romanova(1), Yu. I. Bogdanov(2), S. P. Kulik(1), (1) Lomonosov Moscow state University, Faculty of Physics, Quantum Technology Centre, (2) Valiev Institute of Physics and technology,

Russian Academy of Sciences,

18-00 - 18-30 Quantum tomography benchmarking, Chernyavskiy A. Yu., Bantysh B. I., Bogdanov Yu. I., Valiev Institute of Physics and technology, Russian Academy of Sciences,

18-30 - 19-00 Robust quantum tomography protocols for ion-based qudits, Bantysh B. I., Bogdanov Yu. I., Valiev Institute of Physics and technology, Russian Academy of Sciences,

19-00 - 19-30 Study of the coherence of multimode states of Schrodinger's cats, D.V. Fastovets, Yu.I. Bogdanov, N.A. Bogdanova, V.F. Lukichev, Valiev Institute of Physics and technology, Russian Academy of Sciences.

April 4

16-00 - 16-30 Duistermaat–Heckman measure and the mixture of quantum states, Lin Zhang (1), Yixin Jiang (1), and Junde Wu (2),

(1) Institute of Mathematics, Hangzhou Dianzi University, Hangzhou, China, (2) School of Mathematical Sciences, Zhejiang University, Hangzhou, China,

16-30 — 17-00 The limits of scaling of Grover search algorithm on a asynchronous atomic excitations, A.Kulagin (1), Y.Ozhigov (1),(2), (1) Moscow State University of M.V.Lomonosov, (2) K.A.Valiev Institute of physics and technology RAS.

17-00 - 17-30 On quantum neural networks, A.A. Ezhov, State Research Center of Russian Federation, Troitsk institute for innovation and fusion research

17-30 - 18-00 Mathematical Models of Quantum Nanoplasmonics Accounting for the Non-local Effect, Yu.A. Eremin, Lomonosov Moscow State University, faculty VMK

18-00 – 18-30 Semiclassical Model of Quantum Computing for Solid State NMR, M.M. Kucherov, Siberian Federal University, School of Space and Information Technologies, Russia,

18-30 - 19-00 Round table discussion, virtual banquet.