Scientific Program

International Webinar on

Quantum Physics and Nuclear Technology

Monday July 26, 2021

	Day 1 - July 26, 2021 - British Time	
11.00 - 11.10	Introduction	
	Keynote Presentations	
11:10 - 11:45	Resonant Light Scattering by Subwavelength Particles:New effects Michael I. Tribelsky, Lomonosov Moscow State University, Russia	
Oral Presentations		
11:45 - 12:10	Seamless frequency-connection quantum network of solid spins through diamond optomechanical cavity Ying Gu, Peking University, China	
12:10 - 12:35	Design and synthesis of new superconductors and topological quantum catalysts Huixia Luo, Sun Yat-Sen University, China	
12:35 - 13:00	Simultaneous measurement of polarization and orbital angular momentum of optical signals Ziyao Lyu, Shanghai Jiao Tong University, China	
Lunch (13:00 - 13:30)		

Keynote Presentations		
13:30 - 14:05	A Four Red and Green Channel Using Multi slot-waveguide Technology Dror Malka, Holon Institute of Technology (HIT), Israel	
Oral Presentations		
14:05 - 14:30	Magnon superfluidity at room temperature Yury Bunkov, M-Granat, Russian Quantum Center, Russia	
14:30 - 14:55	Electrochemical growth of CoFe ₂ O ₄ nanowires with high internal magnetic field Nabil Labchir , University of Lyon, France	
14:55 - 15:20	Superinsulators a new Topological Phase of Matter Maria Cristina Diamantini, University of Perugia, Italy	
15:20 - 15:45	Deep Unity of Quantum and Newtonian Gravitation Field Theories at the Space Thermostat Presence with Finite Temperature Ivanov Mikhail Jakovlevich, Central Institute of Aviation Motors, Russia	
15:45 - 16:10	When laser methods encounter porphyrin derivatives to create multifunctional thin layers destined for corrosion inhibition and sensor devices FAGADAR-COSMA Eugenia, Institute of Chemistry "Coriolan Dragulescu", Romania	
16:10 - 16:35	The Gauss-Newton Quantum-Relativity (GNQR) Benedykt Michal Josef Campbell Bieżanek, United Kingdom	
16:35 - 17:00	Effect of Reaction Volume and Metal Concentration on the Morphology and Magnetic Properties of Iron-Nickel Alloy Norhan Nady, SRTA-City, Egypt	
17:00 - 17:25	Kaushal and Gravity Kaushal Prashant, University of Glasgow, United Kingdom	
17:25 - 17:50	Silicone Gel-encased Bonding Wire Deformation Measurement Using a LF-OCT system Zhiyi Zhao, University of Liverpool, United Kingdom	

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17:50 - 18:15	Magnetic flux observations using a Ferrolens Timm Vanderelli, Primary Investigator, Ferrocell USA	
18:15 - 18:40	Two-Dimensional Silicon Carbide:Bridging Theory and Experiment Sakineh Chabi, University of New Mexico, USA	
18:40 - 19:05	William Brown, Colorado State University - Pueblo, USA	
19:05 - 19:30	About one vector becon with twice electron mass	
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Tuesday July 27, 2021

Day 2 - July 27, 2021 - British Time

	Keynote Presentation
11:00 - 11:35	Conformal Coatings for Laser Applications Adriana Szeghalmi, Friedrich Schiller University Jena, Germany
	Oral Presentations
11:35 - 12:00	Uniform Beam Diffraction:A blue print for poling quality of Quasi-Phase-Matching devices
	Prashant Povel Dwivedi, Manipal University Jaipur, India
12:00 - 12:25	Overcoming the asymmetry of the electron and hole doping for magnetic transitions in bilayer Crl3 Sukanya Ghosh, Abdus Salam International Centre for Theoretical Physics, Italy
12:25 - 12:50	Astronomical Evidence of Magnetic Monopoles and Its Implication-Mechanism of Supernova explosion and Challenge to Black Hole Models Qiu-He Peng, Nanjing University, China
12:50 - 13:15	Paramagnetic effects in biological systems under exposure to low intensity electromagnetic fields Emanuele Calabrò, University of Messina, Italy
	Lunch (13:15 - 13:55)
13:55 - 14:20	High-entropy alloys and their potential toward magnetic applications Magdalena Wencka, Jozef Stefan Institute, Slovenia and Institute of Molecular Physics, Poland
14:20 - 14:45	Thermo-responsive core/shell SPION and their drug release properties Halima Alem, Universite de Lorraine, France
14:45 - 15:10	Magnetoresistive Superferromagnetic Sensors V.N. Kondratyev, tBLTP, JINR, Russia
15:10 - 15:35	Quantum Dynamics of Ultracold Atoms under Tunable Trap Utpal Roy, Indian Institute of Technology, India

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15:35 - 16:00	Gauge Invariance in Counting and Combinatorics and its Applications to Quantum Mechanics and General Relativity Koustubh Ajit Kabe, Mumbai University, India
	Keynote Presentation
16:00 - 17:00	Creating materials with a desired refraction coeffecient Alexander G. Ramm, Kansas State University, USA
	Oral Presentations
17:00 - 17:25	A Turiyam set to deal human cognition and its quantum state Prem Kumar Singh, Gandhi Institute of Technology and Management, India
17:25 - 17:50	Quantum-classical mechanics: Principles, applications, and prospects Vladimir Valentinovich Egorov, Russian Academy of Sciences, Russia
	Poster Presentations
17:50 - 18:05	Exchange mechanisms in a class of molecular magnets M. Georgiev, Bulgarian Academy of Sciences, Bulgaria
	Video Presentations
18:05 - 18:20	Adaptive Laser Soldering Technology Based on Commercial CW 450 nm Diode Lasers Hristo Iliev, Sofia University St."Kliment Ohridski", Bulgaria
	End of Day 2 Sessions