

Scientific Program

2nd International Webinar on

Quantum Physics and Nuclear Technology

Monday
November 15, 2021

Day 1 - November 15, 2021

11:00 - 11:15 Introduction

Oral Presentations

11:15 - 11:40 Characterization, Compensation and Monitoring of Imperfections in Optical Coherent Transceivers

Junpeng Liang, ZTE Corporation, China

Keynote Presentations

11:40 - 12:10 Quantum Collapse: Exact Results

Michael I Tribelsky, Lomonosov Moscow State University, Russia

Oral Presentations

12:10 - 12:35 Soft magnetic nanostructured Fe-Co and Fe-Mn based alloys

J.J. Suñol, University of Girona, Spain

12:35 - 13:00 In-Depth practical study of length metrology with laser interferometers applying different techniques

Ihab, Taibah University, Saudi Arabia

13:00 - 13:25 The ratio of uncertainties in the mathematical description of AC electric machines is the principle of improving power generation

Vladimir Kodkin, South Ural State University, Russia

Lunch Break (13:25 - 14:00)

14:00 - 14:25 Is our mathematics suitable for understanding quantum mechanics?

Stefan Freundt, Humboldt University of Berlin, Germany

14:25 - 14:50 Sodium isocyanide: helium potential energy surface and astrophysical applications

Chaima Gharbi, Laboratoire de Spectroscopie et Dynamique Moléculaire, Université de Tunis, Tunisia

14:50 - 15:15 New Quantum Approach for Evaluation of Transmission Coefficients in Nuclear Processes

Cristiana Oprea, Joint Institute for Nuclear Research, Russia

15:15 - 15:40 Magnetic behavior of an advanced TWIP steel microalloyed with boron in the as-cast condition

A.E. Salas-Reyes, Departamento de Ingeniería Metalúrgica, Facultad de Química, UNAM, Mexico

15:40 - 16:05 Detecting magmatic-derived fluids using pyrite chemistry: the importance of LA-ICP-MS analyses for metallogenic models and exploration

Lucie Mathieu, Université du Québec à Chicoutimi (UQAC), Canada

16:05 - 16:30 Magnetic materials for the recovery of oil spilled at sea

Yolanda M. Vargas-Rodríguez, Universidad Nacional Autónoma de México, Mexico

16:30 - 16:55 Magnetic Nanomedicine: Advances in Treating COVID, Infection, Inflammation, Cancer and Bone Growth

Thomas J. Webster, Interstellar Therapeutics, USA

Scientific Program

2nd International Webinar on

Quantum Physics and Nuclear Technology

Poster Presentations

- 16:55 - 17:10 Fractal Analysis of Surface Roughness of TiO₂ Nanofilms Grown by Reactive DC Magnetron Sputtering
H. Cristina Vasconcelos, NOVA University Lisbon, Portugal
- 17:10 - 17:25 Advances in Quantum Metrology for Precise Measurement
Arunava Majumder, Indian institute of technology Kharagpur, India
- 17:25 - 17:40 An Approach for Unity Field theory with new Quantum Vacuum Energy Aether Concept
Stephane Neuville, Le Plessis-Belleville , France

End of Day 1

Tuesday
November 16, 2021

Day 2 - November 16, 2021

Keynote Presentations

- 11:00 - 11:30 Is there a force system in the universe that opposes supergravity, quantum gravity, strong force, weak force and universal gravity? A Big Attempt to Open up A New World of Physics
Li Zongcheng, Soochow University, China

Oral Presentations

- 11:30 - 11:55 Evolution of 3D/4D Printing and Laser Additive Manufacturing
Shamoon Al Islam, China University of Geosciences, China
- 11:55 - 12:20 New Diode Laser Lithotription Technique Based On Optothermal Converter
Evgeny Grebenkin, Privolzhsky Research Medical University, Russia
- 12:20 - 12:45 Study Magnetics & electronics Proprieties of EuNbO₃ Perovskites: DFT+U, mBJ
Khaoula Djabri, University USTO-MB Oran, Algeria
- 12:45 - 13:10 Bohmian dynamics of positrons channeling through a chiral carbon nanotube
M. Ćosić, Vinča Institute of Nuclear Sciences -National Institute of Serbia
- 13:10 - 13:35 Conservation laws in the modern string theory for force fields and nuclear matter
Ivanov Mikhail Jakovlevich, Central Institute of Aviation Motors, Russia

Lunch Break (13:35 - 14:00)

- 14:00 - 14:25 Improving the Reliability Design of Mechanical Systems such as Refrigerator
Seongwoo Woo, Ethiopian Technical University, Ethiopia
- 14:25 - 14:50 Quantum Chronoentropics: A Gauge Model for Time and Entropy Explaining the Relationship Between the Time Asymmetry and the Entropic Thermodynamic Arrow
Koustubh Ajit Supriya Kabe, Mumbai University, India
- 14:50 - 15:15 Optical investigations of the sub-structural nano-formations in ferrite-garnet thin films
Vadim Koronovskyy, Taras Shevchenko Kyiv National University, Ukraine

Scientific Program

2nd International Webinar on

Quantum Physics and Nuclear Technology

Tuesday
November 16, 2021

15:15 - 15:40 On the interconnection of a black hole and dark
Boris E. Meierovich, Kapitza Institute, Russia

15:40 - 16:05 Effect of voxel size on detection of fenestration, dehiscence and furcation defects using
cone-beam computed tomography
Masoumeh Eftekhari, School of Dentistry, Iran

Recorded Video Presentations

16:05 - 16:25 Establishment of new synthetic route for next-generation magnetic material using
microwave
Takayuki Tsuchida, Tohoku University, Japan

16:25 - 16:45 Earth's Inner Core is a Dipolar Magnet
Subhasis Sen, Retired Scientist, India

End of Day 2