

# Scientific Program

## 3<sup>rd</sup> Online International Conference on Quantum Physics and Nuclear Technology

Wednesday  
April 13, 2022

### Day 1 - April 13, 2022

11:00 - 11:15 Introduction

#### Oral Presentation

11:15 - 11:45 Variation of Acoustic Metamaterial Structures from Pentamode to Bandgap  
**Qi Li**, Dalian Maritime University, China

11:45 - 12:15 After NISQ Computing It Is Time also for PISQ Computing  
**Koen Bertels**, University of Porto and Leuven, Belgium

12:15 - 12:45 Exploring the Nuclear Physics of Factorizing the Planck Length  
**Erik Cerven**, Sweden

12:45 - 13:15 Quantum Theory from Conceptual Variables  
**Inge S. Helland**, University of Oslo, Norway

13:15 - 13:45 Improving the Reliability Design of Mechanical Systems such as Refrigerator  
**Seongwoo Woo**, Ethiopian Technical University, Ethiopia

13:45 - 14:15 The SPEKTRO Project: Development of A New Activity Measurement System for Industrial and Medical Applications based on A Self-diagnostics Algorithm  
**Mahsa Farasat**, National Institute for Nuclear Physics, Italy

#### Lunch (14:15 - 14:45)

14:45 - 15:15 The Gauss's, Theorema Egregium  
**Peter G. Gyarmati**, European Hungary Society, Hungary

15:15 - 15:45 Magnetocaloric Effect in  $\text{Sm}_2\text{Fe}_{17}$  Compound  
**Amany Adel**, Helwan university, Egypt

15:45 - 16:15 Quantum Dissonance as A Good Indicator for Predicting Quantum Correlations Behavior  
**Fatima-Zahra Siyouri**, Mohamed V University, Morocco

#### Poster Presentation

16:15 - 16:30 MEOSPS Powered by MEAMOMU  
**Gregory Spaulding**, Magnetic Voltage Source, USA

16:30 - 16:45 A New Nanostructured Material Hybrid based on Phosphonate Grafting into A Nanomaterial Zinc-Aluminum Layered Double Hydroxide by Ion Exchange  
**El. H. EL Khattabia**, Hassan 2 University, Morocco

#### Keynote Presentation

16:45 - 17:25 Shifting The Dark Matter Paradigm at The Quantum Level  
**Sinziana Paduroiu**, QOOSP Lab, USA

End of Day 1

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Thursday  
April 14, 2022

Day 2 - April 14, 2022

### Oral Presentations

- 11:00 - 11:30 Acoustic Black Hole – A Metamaterial Approach to Enhance Vibro-acoustic Comfort in Composite Structures  
**Julio-Cesar De Luca**, IRT Jules Verne, France
- 11:30 - 12:00 Out-of-time-order Correlation and Detection of Phase Structure in Floquet Transversely Spin System  
**Rohit Kumar Shukla**, Institute of Technology (Banaras Hindu University), India
- 12:00 - 12:30 Hybrid Quantum-Classical Chaotic Nems  
**Abhishek Kumar Singh**, Institute of Technology (Banaras Hindu University), India
- 12:30 - 13:00 The Fourth Order Wave Particle Duality  
**Jun Steed Huang**, Carleton University, Canada

### Poster Presentations

- 13:00 - 13:15 Thermodynamical Properties of QGP in the presence of magnetic field  
**Pooja Kumari**, Madan Mohan Malaviya University of Technology, India
- 13:15 - 13:30 Thermodynamical properties of Hadron Gas in the presence of external magnetic field  
**Akanksha Tripathi**, Madan Mohan Malaviya University of Technology, India
- 13:30 - 13:45 Quark Matter in The NJL Model with Vector Interaction and The Structure of Compact Stars  
**Grigor Alaverdyan**, Yerevan State University, Armenia
- 13:45 - 14:00 Role of The Short Range Potential in (e,2e) Processes for Atomic and Molecular Targets  
**Khatir Tarek**, University Sétif, Algeria

Lunch (14:00 - 14:30)

### Oral Presentations

- 14:30 - 15:00 Precise Magnetometry in Donor-Acceptor Conjugated Polymers with Controlled Diradical Character  
**Daniel J. Adams**, The University of Southern Mississippi, USA
- 15:00 - 15:30 A New Classical Realm and its Quantization  
**John Klauder**, University of Florida, USA
- 15:30 - 16:00 Nonlocal Properties of Quasicrystals  
**Sinziana Paduroiu**, QOOSP Lab, USA

End of Day 2