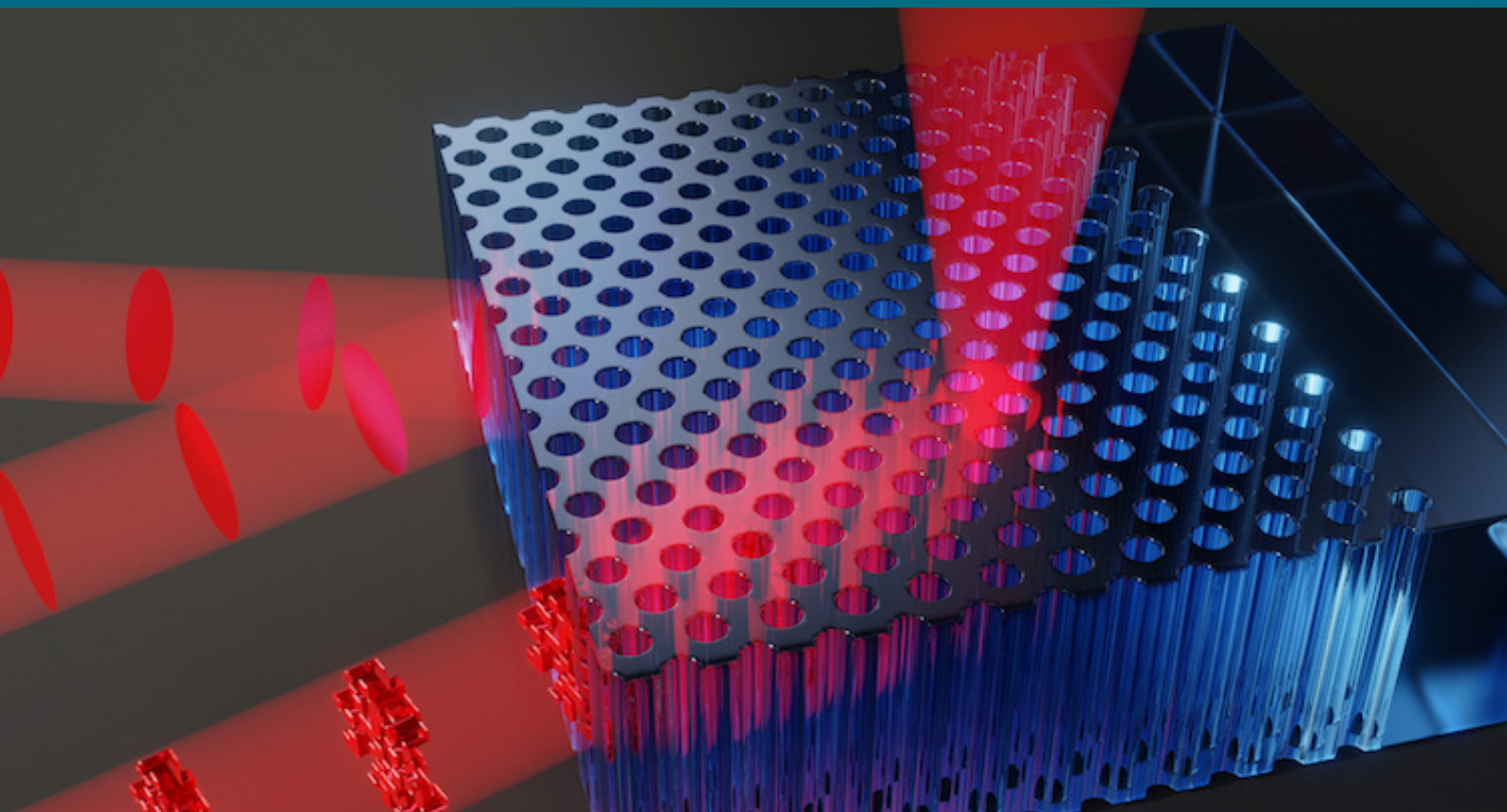


International Webinar on

META MATERIALS AND PHOTONIC CRYSTALS

April 13 - 14, 2022 | Virtual Conference



Coalesce Research Group

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Scientific Program

International Webinar on Meta Materials and Photonic Crystals

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

Scientific Program

International Webinar on Meta Materials and Photonic Crystals

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