Session Program

Sep 23 – 24, 2021

First LaPMET Workshop

Quantum Materials and Quantum Technologies

Fri, September 24

9:00 AM

Quantum Materials and Quantum Technologies

Session |
Location: https://videoconf-colibri.zoom.us/j/89034433548?pwd=Qm83ajdSZWt1SC8wQWdIN2FJMXJrQT09 |
Convener: Pedro Ribeiro

9:00 – 9:10 AM **Probing spin-waves in individual ferromagnetic nanoelements**

Speaker
Gleb Kakazei

9:10 – 9:20 AM
Ultrafast Magnetization Dynamics in Multilayered Films Down to the Few-cycle Regime

Speaker
Ana S. Silva

9:20 – 9:30 AM
Materials science aspects of quantum colour center creation in diamond by means of ion implantation

Speaker
Ulrich Wahl

9:30 – 9:40 AM **Conducting bilayer salts (CNB-EDT-TTF)4A**

Speaker
Sandra Rabaca

9:40 – 9:50 AM **Symmetry-induced even/odd parity in charge and heat pumping**

Speaker
Prof. Miguel A. N. Araújo

9:50 – 10:00 AM **The importance of incommensurability in twisted bilayer graphene**

Speaker
Miguel Gonçalves

10:00 – 10:10 AM
What can Computers Tell us about the Quantum Mechanics of Disordered Electrons?

Speaker
João Pedro dos Santos Pires

10:10 – 10:20 AM **Quantum electrodynamics with polaritons in 2D materials**

Speaker
Bruno Amorim

10:20 – 10:25 AM
Detecting phase transitions in- and out-of-equilibrium via single-particle covariance matrices

Speaker
Miguel Oliveira

10:25 – 10:30 AM

Quantum digital simulation of the time evolution of quantum systems in the NISQ era

Speaker
José Diogo Costa Guimarães

10:30 AM