

Lightning talk - Session 2 (Thu 15/09)

The presentation order of the lightning talk will obey the following sequence, noting that all speakers of the session should be present at the beginning of the session and give in advance the slide presentation. Please, read the Lightning Talk Format page at the beginning of the abstract book.

1. Michel Rodrigues Andrade Universidade Federal do Ceará “*Hyperbolic surface exciton-polaritons at superlattices of 2D materials*”

2. Juan Pablo Ramos-Andrade Universidad de Antofagasta “*Kondo effect in a quantum dot embedded between topological superconductors*”

3. Gusthavo Brizolla ITA “*Investigation of electrically controlled charge Qubit in van der Waals*”

4. Sjoerd C. P. van Kooten Instituto de Física - USP “*Ultrafast Excitation Dynamics of Spin Polarons*”

5. Marcelo Gomes Rua LabSem/CETUC - Pontifícia Universidade Católica “*Development and optimization of the anti-reflective layer for SWIR devices*”

6. Kevin Johnmar Urcia Vidarte Universidade Federal do Rio de Janeiro “*High-energy Landau levels in graphene beyond first nearest-hopping processes: Corrections to the effective Dirac Hamiltonian*”

7. Diana M. N. Thomen Instituto Tecnológico de Aeronáutica “*Anisotropic excitonic effects on 2D black phosphorus: an ab initio approach considering the DFT-1/2 method*”

8. Camila Cavalini Federal University of São Carlos (UFSCAR) “*Quantum emitters in monolayer WSe₂ on nano-roughness glass substrates*”

9. Victor Gabriel Morele Duarte Aeronautics Institute of Technology “*Efficient and extensible tight-binding model for twisted bilayer graphene*”

10. Sergio Levy Nobre dos Santos Universidade Federal do Ceará “*Valley-current filter in bilayer graphene based on Magnus Hall effect*”