



# First LaPMET Workshop

## Friday 24 September 2021

### Quantum Materials and Quantum Technologies (Posters) (09:00 - 10:30)

-Conveners: Eduardo Castro; Joao Seixas; Pedro Ribeiro

time	[id] title	presenter
09:00	[90] Memristors coupling neurons	DIAS, Catarina
09:05	[80] Phase sequence and dielectric properties of $K_{0.5}Na_{0.5}NbO_3$ ceramics sintered by different methods	GOMES, Mariana
09:10	[37] Highly sensitive transparent piezoionic materials and their applicability as printable pressure sensors	FERNANDES, Liliana
09:15	[7] Spectrum of very excited flux tubes in SU(3) gauge theory	SHARIFIAN, Alireza
09:20	[4] Quantum dot PL emission control through a nearby graphene layer	CUNHA, Diogo
09:25	[95] Sputtered topological insulators for Spinorbitronics logic devices	SOARES FERREIRA NUNES TEIXEIRA, Sofia Luisa
09:30	[85] Strain-induced effects of topological deformed graphene	SILVA, Estelina
09:40	[86] First-Principles Calculations of Electric Field Gradients in Hf-Based Perovskites: a Tool to Identify Transition Pathways	SILVA, Estelina
09:41	[84] Ca <sub>2</sub> MnO <sub>4</sub> structural path: Following the negative thermal expansion at the local scale	DA ROCHA RODRIGUES, Pedro Miguel
09:51	[68] Localized solutions of the nonlinear Schrödinger equation: application to optics, condensed matter and cold atoms	BLUDOV, Yuliy
10:00	[109] Ab initio calculations on cadmium-based multiferroics	Dr MARCONDES, Michel L.
10:01	[67] Connecting Stochastic Optimization with Schrödinger Evolution with respect to non-Hermitian Hamiltonians	COUTO, Carlos
10:10	[118] Anisotropic scaling for 3D topological models	RUFO, Sabrina Dr CONTINENTINO , Mucio Dr LOPES, Nei
10:11	[98] Statistical Analysis of Photoluminescence Decay Kinetics in QD ensembles	BERNARDO, César VASILEVSKIY, Mikhail MARTINS, João
10:15	[117] Effects of anisotropic correlations in fermionic zero-energy bound states of topological phases	RUFO, GRIFFITH Dr CALDAS, Heron Caldas