

## **Session Program**

**6 December 2022**

### **MAP-Fis PhD Students Assessment - University of Minho**

### ***MAP-Fis PhD Students Assessment Presentations***

Auditório A1/Ed.1

## Tuesday 6 December

09:30

### MAP-Fis PhD Students Assessment Presentations

**Session** | **Location:** Auditório A1/Ed.1

09:30–10:00

#### NATURALLY LAYERED PEROVSKITE HETEROSTRUCTURES

**Speaker**

Bruna Silva

10:00–10:30

#### Muti-ferroic bilayer composites for coupled magnetic -electric -optical functionalization

**Speaker**

Joao Peixoto Oliveira

10:30–11:00

#### Transparent thermoelectric titanium dioxide - based thin films for thermal energy harvesting

**Speaker**

Joana Ribeiro

11:00–11:15

#### Coffee Brak

11:15–11:45

#### Microfluidics for size controlled cationic liposome DNA complexes:going beyond the universal transfection curve

**Speaker**

Celso Joel Ferreira

11:45–12:15

#### Excitons in two-dimensional materials and van der Waals Heterostructures

**Speaker**

Mauricio Quintela

12:15

14:00

### MAP-Fis PhD Students Assessment Presentations

**Session** | **Location:** Auditório A1/Ed.1

14:00–14:30

#### Quantum Many-Body Ground States via Digital Quantum Simulation

**Speaker**

Bruno Murta

14:30–15:00

#### Understanding limitations of linear-optical quantum computation

**Speaker**

Carlos Diogo Monteiro Fernandes

15:00–15:30

#### Development of nanoplasmonic thin film Biosensors with enhanced sensitivity for detection of Ochratoxin-A

**Speaker**  
Diana Meira

15:30-16:00

**Developmeny of optical (T-LSPR) biosensors, based in nanoplasmonic thin films for fast legionella pneumophia detection in patients and environmental samples**

**Speaker**  
Diogo Emanuel Carvalho Costa

16:00-16:15 **Coffee Break**

16:15-16:45

**Multiplex detection of circulating tumor DNA using graphene electrolyte-gate field-effect transistors**

**Speaker**  
Telma Domingues

16:45-17:15 **Single Photons On Demand from a 2D Material Heterostructure**

**Speaker**  
Tiago Queirós

17:15-17:45

**DEVELOPMENT OF MULTIFUNCTIONAL SUPRAMOLECULAR MAGNETOGELS FOR MULTIMODAL CANCER THERAPY**

**Speaker**  
Sérgio Veloso

17:45