

## **Session Program**

**28 April 2023**

### **MAP-Fis Essays Workshop**

### ***MAP-Fis Essays Presentations***

Zoom Video Conference Room  
Zoom Video Conference Room

## Friday 28 April

09:30

### MAP-Fis Essays Presentations

**Session** | **Location:** Zoom Video Conference Room, Zoom Video Conference Room

09:30–09:55

#### **Nanoprinted light cage interfaced with optical fiber: a platform for sensing applications**

**Speaker**

Ms Diana Sofia Antunes Pereira

09:55–10:20

#### **Galaxies Rotation Curve and Dark Matter in the Context of Non-Minimal Coupled Theories of Gravity**

**Speaker**

Mr Luís Felipe Martins de Almeida Morena Reis

10:20–10:45

#### **Theory and modelling of two-dimensional materials and hybrid structures for nanophotonics**

**Speaker**

Mr Diogo Filipe Pinto Cunha

10:45

14:00

### MAP-Fis Essays Presentations

**Session** | **Location:** Zoom Video Conference Room, Zoom Video Conference Room

14:00–14:25

#### **Innovative physics-informed machine learning algorithms to improve wind energy forecasting**

**Speaker**

Mr Nuno Manuel Rocha Monteiro

14:25–14:50

#### **Future Climate Wildfire Modelling using the Atmosphere-Fire coupled model WRF-SFIRE under different Landscape management scenarios**

**Speaker**

Mr Ricardo Jorge Santos Vaz

14:50–15:15

#### **Color centers in diamond for neuronal signaling studies**

**Speaker**

Mr João Paulo Silva

15:15