

# **Kickoff Meeting on the Machine Learning Group of the Workshop on Compact Objects, Gravitational Waves and Deep Learning**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Overview

*Friday 23 September 2022 08:30 (30 minutes)*

**Presenter:** Prof. CRESPO, Helder (Universidade do Porto)

**Session Classification:** Optics and Photonics

Contribution ID: 1

Type: **not specified**

# Signal Pulse Distortion Induced by Stimulated Raman Scattering in High Power Double-Clad Fiber Amplifiers

*Friday 23 September 2022 09:00 (15 minutes)*

**Presenter:** Dr MELO, Miguel (Universidade do Porto)

**Session Classification:** Optics and Photonics

Contribution ID: 2

Type: **not specified**

# Ultrafast graphene carrier dynamics and nonlinear properties

*Friday 23 September 2022 09:15 (15 minutes)*

**Presenter:** Dr SILVA, Francisco (Universidade do Porto)

**Session Classification:** Optics and Photonics

Contribution ID: 3

Type: **not specified**

## **Simultaneous compression and characterization of ultrashort laser pulses**

*Friday 23 September 2022 09:30 (15 minutes)*

**Presenter:** MIRANDA, Miguel (Universidade do Porto)

**Session Classification:** Optics and Photonics

Contribution ID: 4

Type: **not specified**

**Talk 4**

Contribution ID: 5

Type: **not specified**

## Overview

*Friday 23 September 2022 10:15 (30 minutes)*

**Presenter:** Prof. COSTA, Miguel (Universidade do Porto)

**Session Classification:** Gravitation, Cosmology and Particle Physics

Contribution ID: 6

Type: **not specified**

## n-DBI Gravity

*Friday 23 September 2022 10:45 (15 minutes)*

**Presenter:** Dr SOUSA COELHO, Flávio (Universidade de Aveiro)

**Session Classification:** Gravitation, Cosmology and Particle Physics



Contribution ID: 7

Type: **not specified**

## Conformal Regge Theory

*Friday 23 September 2022 11:00 (15 minutes)*

**Presenter:** Dr GONÇALVES, Vasco (Universidade do Porto)

**Session Classification:** Gravitation, Cosmology and Particle Physics

Contribution ID: 8

Type: **not specified**

**Talk 3**

Contribution ID: 9

Type: **not specified**

**Talk 4**

Contribution ID: **10**

Type: **not specified**

## Overview

*Friday 23 September 2022 13:30 (30 minutes)*

**Presenter:** Prof. DUBERT, Jesus (Universidade de Aveiro)

**Session Classification:** Meteorology and Oceanography

Contribution ID: 11

Type: **not specified**

## **A high-resolution modeling study of the Western Iberian Margin mean and seasonal upper ocean circulation**

*Friday 23 September 2022 14:00 (15 minutes)*

**Presenter:** PIRES, Dra. Ana Cordeiro (Universidade de Aveiro)

**Session Classification:** Meteorology and Oceanography

Contribution ID: 12

Type: **not specified**

**Talk 2**

Contribution ID: 13

Type: **not specified**

**Talk 3**

Contribution ID: 14

Type: **not specified**

**Talk 4**



Contribution ID: 15

Type: **not specified**

## **Tracking the emergence of cooperation in complex networked populations**

*Friday 23 September 2022 11:45 (15 minutes)*

**Presenter:** Dr PINHEIRO, Flávio (Universidade do Minho)

**Session Classification:** Physics of Complex Networks

Contribution ID: 16

Type: **not specified**

**Talk 2**

Contribution ID: 17

Type: **not specified**

## Overview

*Friday 23 September 2022 14:15 (30 minutes)*

**Presenter:** Prof. ALMEIDA, Bernardo (Universidade do Minho)

**Session Classification:** Advanced Materials Science

Contribution ID: **18**

Type: **not specified**

**(no title)**

Contribution ID: 19

Type: **not specified**

## **EFFECT OF LA SUBSTITUTION ON TB<sub>5</sub>SI<sub>2</sub>GE<sub>2</sub> COMPOUND: STRUCTURAL AND MAGNETIC PROPERTIES**

*Friday 23 September 2022 15:00 (15 minutes)*

**Presenter:** Dr HORTA BELO, João (Universidade do Porto)

**Session Classification:** Advanced Materials Science

Contribution ID: 20

Type: **not specified**

## **Probing Electrostructural Coupling on Magnetoelectric CdCr<sub>2</sub>S<sub>4</sub>**

*Friday 23 September 2022 14:45 (15 minutes)*

**Presenter:** Dr OLIVEIRA, Gonçalo (Universidade do Porto)

**Session Classification:** Advanced Materials Science

Contribution ID: 21

Type: **not specified**

**Talk 4**

Contribution ID: 22

Type: **not specified**

## Invited Talk

*Friday 23 September 2022 17:15 (30 minutes)*

**Presenter:** Prof. FREITAS, Paulo (INL)

**Session Classification:** Final Remarks and Closure



Contribution ID: 23

Type: **not specified**

## Final Remarks

*Friday 23 September 2022 17:45 (30 minutes)*

**Presenter:** Prof. SCHMOOL, David (Universidade do Porto)

**Session Classification:** Final Remarks and Closure

Contribution ID: 24

Type: **not specified**

# Welcome

*Friday 23 September 2022 10:00 (15 minutes)*

**Session Classification:** Opening Session

Contribution ID: 26

Type: **not specified**

## Overview Talk

*Friday 23 September 2022 11:15 (30 minutes)*

**Presenter:** Prof. GOLTSEV, Alexander (Universidade de Aveiro)

**Session Classification:** Physics of Complex Networks

Contribution ID: 27

Type: **not specified**

## **Hematite nanowires for solar water splitting: development and structure optimization**

*Friday 23 September 2022 16:15 (15 minutes)*

**Presenter:** Dr AZEVEDO, João (Universidade do Porto)

**Session Classification:** Advanced Materials Science

Contribution ID: 28

Type: **not specified**

## **Ordered arrays of electrodeposited nanowires and nanotubes: comparing magnetic properties**

*Friday 23 September 2022 16:00 (15 minutes)*

**Presenter:** PROENÇA, Dra. Mariana (Universidade do porto)

**Session Classification:** Advanced Materials Science

Contribution ID: 29

Type: **not specified**

## **Critical behaviour of a three-dimensional hardcore cylinders composite system**

*Friday 23 September 2022 16:30 (15 minutes)*

**Presenter:** Dr SILVA, Jaime (Universidade do Minho)

**Session Classification:** Advanced Materials Science

Contribution ID: **30**

Type: **not specified**

## **Dynamic Electronic Interactions at Nanoscopic Scale**

*Friday 23 September 2022 16:45 (15 minutes)*

**Presenter:** Dr BARBOSA, Marcelo (Universidade do Porto)

**Session Classification:** Advanced Materials Science

Contribution ID: 31

Type: **not specified**

## **Exchange coupled donor dimers in nanocrystal quantum dots**

*Friday 23 September 2022 17:00 (15 minutes)*

**Presenter:** Dr ALMEIDA, António José (Universidade de Aveiro)

**Session Classification:** Advanced Materials Science



Contribution ID: 32

Type: **not specified**

## **Measurement of the third cumulant of electromagnetic field fluctuations**

**Presenter:** Dr GOUVEIA, José (Universidade de Aveiro)

Contribution ID: 33

Type: **not specified**

## Hawking Radiation for Proca field