

MAP-Fis Essays Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

Invited Talk

Presenter: Prof. FREITAS, Paulo (INL)

Contribution ID: 1

Type: **not specified**

Final Remarks

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

Contribution ID: 5

Type: **not specified**

Palestra 3/Talk 3

Contribution ID: **10**

Type: **not specified**

Welcome

Friday 28 April 2023 09:15 (10 minutes)

Summary

Presenter: Prof. LOPES DOS SANTOS, João (Universidde do Porto)

Session Classification: Opening Session

Contribution ID: 16

Type: **not specified**

Hematite nanowires for solar water splitting: development and structure optimization

Presenter: Dr AZEVEDO, João (Universidade do Porto)

Contribution ID: 19

Type: **not specified**

Exchange coupled donor dimers in nanocrystal quantum dots

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

Contribution ID: 20

Type: **not specified**

Palestra de Introdução/Overview Talk

Contribution ID: **21**

Type: **not specified**

Palestra 1/Talk 1

Contribution ID: 22

Type: **not specified**

Palestra 2/Talk 2

Contribution ID: 28

Type: **not specified**

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

Friday 28 April 2023 09:55 (25 minutes)

Supervisor: Orfeu Bertolami Neto

Evaluation Panel: Antonio Onofre

Summary

Presenter: Mr MARTINS DE ALMEIDA MORENA REIS, Luís Felipe

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 32

Type: **not specified**

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

Friday 28 April 2023 14:00 (25 minutes)

Supervisor: David Carvalho

Evaluation Panel: Antonio Onofre

Summary

Presenter: Mr MANUEL ROCHA MONTEIRO, Nuno

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 36

Type: **not specified**

Synergistic effect between photothermal and radiotherapy using plasmonic nanoparticles as photo-absorbing agents and radiosensitizers (SYNPhoRad) towards higher-efficiency colorectal cancer treatments

Friday 28 April 2023 11:25 (25 minutes)

Supervisor: Célia Tavares de Sousa, João Horta Belo, José Azevedo

Evaluation Panel: Elisabete Coutinho, Pedro Teles

Summary

Presenter: Ms CARVALHO LOPES DE FREITAS, Sara Alexandra

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 37

Type: **not specified**

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

Friday 28 April 2023 09:30 (25 minutes)

Supervisor: Marta Sofia dos Anjos Ferreira, Markus A. Schmidt

Evaluation Panel: Manuel Joaquim, Mike Belsley

Summary

Presenter: Ms SOFIA ANTUNES PEREIRA, Diana

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 39

Type: **not specified**

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

Friday 28 April 2023 10:20 (25 minutes)

Supervisor: Mikhail Igorevich Vasilevskiy

Evaluation Panel: Yuli Bludov, Joao Lopes dos Santos

Summary

Presenter: Mr FILIPE PINTO CUNHA, Diogo

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 40

Type: **not specified**

Electrochemical sensors based on hybrid nanostructures for water monitoring

Friday 28 April 2023 11:00 (25 minutes)

Supervisor: Nuno Santos

Evaluation Panel: Bernardo Almeida, Célia Tavares

Summary

Presenter: Mr ALEXANDRE PERES MOURA, Tiago

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 45

Type: **not specified**

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

Friday 28 April 2023 14:25 (25 minutes)

Supervisor: David João da Silva Carvalho

Evaluation Panel: Alfredo Rocha

Summary

Presenter: Mr JORGE SANTOS VAZ, Ricardo

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 46

Type: **not specified**

Color centers in diamond for neuronal signaling studies

Friday 28 April 2023 14:50 (25 minutes)

Supervisor: Jana Nieder, Paulo Marques

Evaluation Panel: Marta Ferreira

Summary

Presenter: Mr PAULO SILVA, João

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 47

Type: **not specified**

Reconstructing the AdS spacetime

Friday 28 April 2023 15:30 (25 minutes)

Evaluators: Miguel Costa, João Caetano

Supervisors: Miguel Costa, Carlos Martins

Presenter: GOMES FERREIRA SOUZA, Renato

Session Classification: Post Essay Workshop (June 23rd, 2023)

Contribution ID: 48

Type: **not specified**

Exploring the conformal bootstrap at higher points

Friday 28 April 2023 15:55 (25 minutes)

Evaluators: Vasco Gonçalves, João Caetano

Supervisors: Vasco Gonçalves

Summary

Presenter: FERNANDES, Bruno

Session Classification: Post Essay Workshop (June 23rd, 2023)

Contribution ID: 49

Type: **not specified**

Astrophysical tests of gravitational physics

Friday 28 April 2023 16:20 (20 minutes)

Evaluators: Joao Lopes dos Santos, Antonio Onofre

Supervisors: Carlos Martins, Filipe Mena

Presenter: ANDREI, Ilaria

Session Classification: Post Essay Workshop (June 23rd, 2023)