

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

Tuesday 21 January 2025 09:00 (15 minutes)

Summary

Presenters: ONOFRE, Antonio (Universidade do Minho/CFUMUP,LIP); Prof. CASTRO, Eduardo (University of 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**

Properties of topological matter lacking translational invariance

Tuesday 21 January 2025 09:40 (25 minutes)

Supervisor: Eduardo Filipe Vieira de Castro (UP)

Evaluation Panel: Eduardo Filipe Vieira de Castro, Miguel Araújo (University of Évora)

Summary

Presenter: SANTOS SILVA, João (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 37

Type: **not specified**

Non-linear optical response

Tuesday 21 January 2025 09:15 (25 minutes)

Supervisor: João Manuel Viana Parente Lopes (UP)

Evaluation Panel: João Manuel Viana Parente Lopes, Yuliy Bludov (UM)

Summary

Presenter: PINHO, João (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 39

Type: **not specified**

Study of the magnetic and vibrational properties of NdFeO₃

Tuesday 21 January 2025 10:05 (25 minutes)

Supervisor: Estelina Lora Silva, Joaquim Agostinho Moreira (UP)

Evaluation Panel: Estelina Lora Silva, Bernardo Almeida (UM)

Summary

Presenter: AASIM, Muhammad (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 50

Type: **not specified**

Superconductivity in quasiperiodic moiré materials

Tuesday 21 January 2025 10:30 (25 minutes)

Supervisor: Eduardo V. Castro (UP)

Evaluation Panel: Eduardo V. Castro, António T. Costa (INL)

Summary

Presenter: OLIVEIRA, Ricardo (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 58

Type: **not specified**

Dusty Atmospheric Rivers: relationship between intense transport of water vapour and aerosols in the Iberian Peninsula

Tuesday 21 January 2025 10:40 (25 minutes)

Supervisor: Carla Maria dos Santos Gama da Silva, Irina Gorodetskaya

Evaluation Panel: Carla Maria dos Santos Gama da Silva (UA), José Castaneira (UA)

Summary

Presenter: LUÍS, Diogo (University of Aveiro)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 59

Type: **not specified**

Impactos das alterações climáticas na formação de Cold Air Pools na Região Demarcada do Douro

Tuesday 21 January 2025 11:05 (25 minutes)

Supervisor: David João da Silva Carvalho, João Carlos Andrade Santos, António Graça

Evaluation Panel: David João da Silva Carvalho (UA), Alfredo Rocha (UA)

Summary

Presenter: TEIXEIRA, Marta (University of Aveiro)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: **60**

Type: **not specified**

TO BE DETERMINED

Tuesday 21 January 2025 11:30 (25 minutes)

Supervisor:

Evaluation Panel:

Summary

Presenter: CHIAHA, SHEDRACH (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: **61**

Type: **not specified**

Emergence of novel properties at the interfaces in oxide heterostructures and superlattices

Tuesday 21 January 2025 13:30 (25 minutes)

Supervisor: Luis Silvino Alves Marques (UM)

Evaluation Panel: Luis Silvino Alves Marques, José Coutinho (UA)

Summary

Presenter: SILVA, Alexandre (University of Minho)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 62

Type: **not specified**

Naturally Layered Ruddlesden-Popper Ferroelectrics towards Energy Efficient Materials

Tuesday 21 January 2025 13:55 (25 minutes)

Supervisor: Armandina Lima Lopes (UP)

Evaluation Panel: Armandina Lima Lopes, José Pedro Basto (UM)

Summary

Presenter: CESÁRIO, António (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: **63**

Type: **not specified**

Biofunctional Cyclic Dipeptide Nanofibers for Energy Harvesting and Nonlinear Optical Conversion

Tuesday 21 January 2025 14:20 (25 minutes)

Supervisor: Bernardo Almeida (UM)

Evaluation Panel: Bernardo Almeida, André Pereira (UP)

Summary

Presenter: SANTOS, Daniela (University of Minho)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: **64**

Type: **not specified**

Spatially and temporally modulated active patch for skin cancer treatment

Tuesday 21 January 2025 14:45 (25 minutes)

Supervisor: Clarisse Marta de Oliveira Ribeiro (UM)

Evaluation Panel: Clarisse Marta de Oliveira Ribeiro, Marlene Lúcio (UM)

Summary

Presenter: BOGAS, Diana (University of Minho)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 65

Type: **not specified**

Remediação ambiental

Tuesday 21 January 2025 15:10 (25 minutes)

Supervisor: Senentxu Lanceros-Méndez (UM)

Evaluation Panel: Senentxu Lanceros-Méndez, Mario Rui Pereira (UM)

Summary

Presenter: BOANO, Paulo (University of Minho)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 71

Type: **not specified**

Combined local probe technique and ab-initio calculation on layered Perovskites

Tuesday 21 January 2025 15:50 (25 minutes)

Supervisor: João Pedro Esteves Araújo (UP)

Evaluation Panel: João Pedro Esteves Araújo, António Luís Ferreira (UA)

Summary

Presenter: SILVA DE SOUSA, Pedro Alexandre (University of Porto)

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 72

Type: **not specified**

Understanding anomalies in liquid water with upconversion thermometry

Tuesday 21 January 2025 16:15 (25 minutes)

Supervisor: Luís António Ferreira Martins Dias Carlos (UA)

Evaluation Panel: Luís António Ferreira Martins Dias Carlos, Joel Borges (UM)

Summary

Presenter: FILHO, Ramon

Session Classification: MAP-Fis Essays Presentations

Contribution ID: 73

Type: **not specified**

Advanced Photoelectrodes in Photoelectrochemical Cells for Solar Water Splitting and Green Hydrogen Generation

Tuesday 21 January 2025 16:40 (25 minutes)

Supervisor: Arlete Ondina Alves da Silva Apolinário (UP)

Evaluation Panel: Arlete Ondina Alves da Silva Apolinário, Luís Carlos (UA)

Summary

Presenter: GONÇALVES, Sofia (University of Porto)

Session Classification: MAP-Fis Essays Presentations