

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

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 6 December 2022 09:15 (10 minutes)

Summary

Presenters: ONOFRE, Antonio (Universidade do Minho); LOPES DOS SANTOS, João (Universidade do Porto)

Session Classification: Opening Session

Contribution ID: **13**

Type: **not specified**

NATURALLY LAYERED PEROVSKITE HETEROSTRUCTURES

Tuesday 6 December 2022 09:30 (30 minutes)

Supervisor: Bernardo Almeida, Armandina Lopes, J.P. Araújo

Evaluation Panel: Bernardo Almeida, Anabela Rolo, Antonio Onofre

Summary

Presenter: SILVA, Bruna

Session Classification: MAP-Fis PhD Students Assessment Presentations

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: 37

Type: **not specified**

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

Tuesday 6 December 2022 11:15 (30 minutes)

Supervisor: Bruno Fernando Brás Da Silva (INL), Maria Elisabete da Cunha Dias Real Oliveira

Evaluation Panel: Elisabete Oliveira, Diana Pinho, Antonio Onofre

Summary

Presenter: JOEL FERREIRA, Celso

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 39

Type: **not specified**

Understanding limitations of linear-optical quantum computation

Tuesday 6 December 2022 14:30 (30 minutes)

Supervisor: Ernesto Galvão, Nuno Peres

Evaluation Panel: Ernesto Galvão, Leonardo Novo, Antonio Onofre

Summary

Presenter: DIOGO MONTEIRO FERNANDES, Carlos

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 43

Type: **not specified**

Muti-ferroic bilayer composites for coupled magnetic -electric -optical funcionalization

Tuesday 6 December 2022 10:00 (30 minutes)

Supervisor: Bernardo Almeida, Leonard Francis (INL)

Evaluation Panel: Bernardo Almeida, Anabela Rolo, Antonio Onofre

Summary

Presenter: PEIXOTO OLIVEIRA, Joao

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 44

Type: **not specified**

Quantum Many-Body Ground States via Digital Quantum Simulation

Tuesday 6 December 2022 14:00 (30 minutes)

Supervisor: Joaquin Rossier (INL), Nuno Peres

Evaluation Panel: Joaquin Rossier, Ernesto Galvao, Antonio Onofre

Summary

Presenter: MURTA, Bruno

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 45

Type: **not specified**

Transparent thermoelectric titanium dioxide –based thin films for thermal energy harvesting

Tuesday 6 December 2022 10:30 (30 minutes)

Supervisor: Carlos Tavares, Torben Boll

Evaluation Panel: Carlos Tavares, Bernardo Almeida, Antonio Onofre

Summary

Presenter: RIBEIRO, Joana

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 46

Type: **not specified**

Excitons in two-dimensional materials and van der Waals Heterostructures

Tuesday 6 December 2022 11:45 (30 minutes)

Supervisor: Nuno Peres

Evaluation Panel: Mikhail Vasilevskiy, Nuno Peres, Antonio Onofre

Summary

Presenter: QUINTELA, Mauricio

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 47

Type: **not specified**

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

Tuesday 6 December 2022 15:00 (30 minutes)

Supervisor: FilipeVaz, Joel Borges

Evaluation Panel: FilipeVaz, Joel Borges, Antonio Onofre

Summary

Presenter: MEIRA, Diana

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 48

Type: **not specified**

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

Tuesday 6 December 2022 15:30 (30 minutes)

Supervisor: Filipe Vaz, Ana Carvalho, Graça Minas

Evaluation Panel: FilipeVaz, Joel Borges, Antonio Onofre

Summary

Presenter: EMANUEL CARVALHO COSTA, Diogo

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 49

Type: **not specified**

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

Tuesday 6 December 2022 16:15 (30 minutes)

Supervisor: João Pedro Alpuim

Evaluation Panel: João Pedro Alpuim, Lais Lopes, Mikhail Vasilevskiy

Summary

Presenter: DOMINGUES, Telma

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 50

Type: **not specified**

Single Photons On Demand from a 2D Material Heterostructure

Tuesday 6 December 2022 16:45 (30 minutes)

Supervisor: Jana Nieder(INL), João Pedro Alpuim

Evaluation Panel: João Pedro Alpuim, Bruno Romeira, Mikhail Vasilevskiy

Summary

Presenter: QUEIRÓS, Tiago

Session Classification: MAP-Fis PhD Students Assessment Presentations

Contribution ID: 51

Type: **not specified**

DEVELOPMENT OF MULTIFUNCTIONAL SUPRAMOLECULAR MAGNETOGELS FOR MULTIMODAL CANCER THERAPY

Tuesday 6 December 2022 17:15 (30 minutes)

Supervisor: Elisabete Coutinho, Paula Ferreira, Miguel A. Correa-Duarte

Evaluation Panel: Mikhail Vasilevskiy, Ana Rita Rodrigues, Elisabete Coutinho

[**Due to unavoidable constraints, this evaluation happened 15 Dec. 2022 11:30,
https://videoconf-colibri.zoom.us/j/94763137348****]

Summary

Presenter: VELOSO, Sérgio

Session Classification: MAP-Fis PhD Students Assessment Presentations