



SECȚIUNEA 13 - DF

FIZICĂ

Sesiune în format fizic

Sala BN134

13.05.2025

Ora 13:30

Comisia de examinare

Prof. dr. Mona Mihăilescu – președinte
Prof. dr. Doina Luminița Mănăilă-Maximean - membru
CS I Ștefan G. Stanciu - membru
Conf. dr. Mihai Stafe - secretar

- 1. Influence of cells malignancy on optical properties and pores formation**
PhD student: Raluca Daniela Negoita
Supervisor: Prof. M. Mihăilescu
- 2. Targeted Neuroregulation: The Role of Brain Mapping and BCI in Modulating Psychological Symptomatology**
PhD student: Costin Damasarau
Supervisors: Prof. A. Cernian, Prof. M. Mihăilescu
- 3. Comparative study of high-performance MPPT algorithms for BIPV applications**
PhD student: Ana-Maria Badea
Supervisor: Prof. D. L. Mănăilă-Maximean
IN MEMORY OF PROFESSOR LAURENTIU FARA

- 4. Analysis of fractal characteristics of the eur/usd markets**
PhD student: Lucian Postelnicu
Supervisor: Prof. D. L. Mănăilă-Maximean
IN MEMORY OF PROFESSOR VIOREL PAUN
- 5. Conical Coil Focusing of Laser-Plasma Accelerated Proton Beam for Applications**
PhD student: Laura Anamaria Nalbaru
Supervisor: Prof. Gh. Cata-Danil
- 6. Development of a beam profiler for spatial distribution measurements at the TANDEM - FN 9MV accelerator at IFIN-HH**
PhD student: Alexandru STOICA, Daniel Vasile MOSU
Supervisor: Prof. Gh. Cata-Danil
- 7. Initial dosimetry results in high - power laser-driven experiments at ELI-NP**
PhD student: Mara-Georgiana POPOVICI
Supervisor: Prof. Gh. Cata-Danil
- 8. Mapping ^{129}I in Romanian waters through advanced mass spectrometry techniques**
PhD student: Melania Istrati
Supervisor: Prof. C. Stan
- 9. 3D scaffolds made by two photon polymerization for cancer research**
PhD student: Alexandra Bran
Supervisor: CSI S. G. Stanciu
- 10. Bioactive molecules with skin-rejuvenating potential and real-time assessment of therapeutic effects by point-of-care AI-powered microscopy**
PhD student: Andrei Botescu
Supervisor: CSI S. G. Stanciu
- 11. Liquid crystal light beam modulation**
PhD student: Stefan Postelnicu
Supervisor: Prof. C. Stan
- 12. Surface interaction energy in liquid crystal cell**
PhD student: Ana Dondera
Supervisor: Prof. C. Stan
- 13. Application of Supervised Regression Techniques for Aerosol Source Identification at European Monitoring Sites**
PhD student: Andrei Dandocsi
Supervisor: Prof. C. Stan

14. Image Analysis Security – optimizing the detection algorithm using physical terms to improve biometric authentication

PhD student: Calin Togan

Supervisor: Prof. M. Mihăilescu

15. Passive Analysis of Wireless Signals for Security and Human Activity Monitoring Using Artificial Intelligence

PhD student: Mihai Danila

Supervisor: Prof. M. Mihăilescu

16. Revolutionizing Antimicrobial Susceptibility Testing Through Ultra-Rapid Optical Detection

PhD student: Roxana Totu (fosta Buga)

Supervisor: S. G. Stanciu