






## PhD student day

 **Location:** University Center Ajdovščina, Amphitheater Room  
 **Date:** Tuesday, May 26. 2026  
 **Time:** 9:00-

## Program

### 9:00 Welcome and Introduction

#### Session I chair: Sandra Gardonio

**9:10 - Firas Chahed:** Effect of Au Nanoparticles on the charge transport in Organic Field-Effect Transistors (*mentor: Egon Pavlica*)

**9:30 - Ranin Ismail:** Synthesis of Functional Metal–Organic Frameworks for Electrocatalytic Applications (*mentor: Saim Emin*)

**9:50 - Anjali:** Effect of Photothermal nanoparticle Distribution and light wavelenght on the Photothermal Properties of PT-Active Iron Oxide–SiO<sub>2</sub> Monoliths (*mentor: Blaž Belec*)

**10:10 - Petra Makorič:** Comparison of online (Xact) and offline (ICP-MS) measurements for trace elements in particulate matter in several sampling sites across Europe (*mentors: Griša Močnik, Iain White*)

**10:30 - Aarti Gupta:** Application of photothermal techniques for characterization of metal oxide based photocatalytic materials (*mentor: Dorota Korte*)

**10:50 - Dorotea Dobrić:** Development of airway biomarkers for assessing exposure to air pollution and associated biological effects (*mentor: Iain White*)

**11:10 - Edin Živalj:** Bi<sub>3</sub>Ru<sub>3</sub>O<sub>11</sub>-Based Catalytic Hypochlorite Decomposition: Selectivity Meets Efficiency (*mentor: Matjaž Valant*)

### Coffe break

#### Session II chair: Griša Močnik


**12:00 - Shubhashree Bandyopadhyay:** Exploring B20 Ni<sub>2</sub>AlSi: Weyl/Multifold Fermions Driving Catalysis and Superconductivity (*mentor: Sandra Gardonio*)


**12:10 - Rokaya Osama:** Studying the Dynamics of the Electrons of Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene Using Time-Resolved Photoemission Spectroscopy (*mentor: Barbara Ressel*)


**12:30 - Lakshmi Rajan:** Effect of ions on charge transport in organic semiconductors (*mentor: Egon Pavlica*)



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**12:50 - Diana Alexandra Martin Rojas:** Impact of metal ions on the evolution of wine aroma composition (*mentors: Guillaume Antalick / Iain White*)

**13:10 - Sangita Gautam:** Light absorption and atmospheric heating rates of black carbon and mineral dust aerosols in the western Mediterranean sites (*mentor: Griša Močnik*)

**13:30 Ahmad Shahzeb:** Focused e-beam induced heating as a tool for local modification of materials: recent developments on patterning capabilities (*mentor: Mattia Fanetti*)

### Catering

### Instructions for PhD Presentation Day

Participants are requested to arrive sufficiently early to allow enough time for uploading/checking presentations before the event begins. Please bring the final version of your presentation on a USB drive.

Presenters should prepare their presentation in PowerPoint format (.ppt or .pptx). Microsoft PowerPoint is the highly recommended software in order to avoid compatibility issues.

Each PhD student will have **12 minutes** for the presentation, followed by 8 minutes reserved for questions and discussion. Please respect the allocated time in order to ensure a smooth schedule for all participants.

All participants are expected to attend the entire event, not only their own presentation slot. Active participation in discussions is considered an important part of the PhD day.

Mentors are also kindly requested to attend the event and participate in the discussions in order to ensure balanced and constructive scientific feedback.