



Materials Research Laboratory

University of Nova Gorica, Slovenia



VIII. Open Seminar Day of Materials Research Laboratory

Day: Wednesday, 17. 9. 2019

Venue: University Center Ajdovščina, Auditorium

Program

9:00 Intro: *Matjaž Valant*

9:10 – 9:40 **Invited talk; Jože Grdadolnik** – 2D-Fast Infrared Spectroscopy: a New Challenge for Experimental and Computational Science

Session I - Chairman: *Sandra Gardonio*

9:40 – 10:00 **Blaž Belec** – Synthesis of adsorbent-free ultrathin Bi_2Se_3 Topological Insulator Platelets and Their Inherent Surface Properties

10:00 – 10:20 **Zipporah Benher** – Uncovering topological electronic properties of the Bi_2Se_3 - Bi_2S_3 system

10:20 - 10:40 **Akansha** – Design of carbon quantum dots and their nanocomposites for multifunctional photocatalytic activity: An Effective material for tackling the critical environmental problems.

10:40 - 11:00 **Saim Emin** – Iron phosphide electrocatalysts for water splitting studies

11:00 - 11:20 **Thanveer Thajudeen** – Can oxygen vacancies in CeO_2 be luminescence quenchers?

Coffee break

Session II - Chairman: *Mattia Fanetti*

12:00 - 12:20 **Luigi Giacomazzi** – First-principles investigations of P-doped silica and P_2O_5 glasses

12:20 – 12:40 **Artem Badasyan** – Thermodynamics and kinetics of DNA-nanotube hybridization

12:40 – 13:00 **Urška Žvab** – Capabilities of hydrogen-producing green algae *Chlamydomonas reinhardtii* for copper bioremediation in wastewaters

13:00 – 13:20 **Danijel Stojković** – Extracellular copper accumulation in *Chlamydomonas reinhardtii*

13:20 – 13:40 **Matjaž Valant** – Storing grid electricity in solid matter

13:50 group photo and lunch