



Materials Research Laboratory

University of Nova Gorica, Slovenia



VII. Open Seminar Day of Materials Research Laboratory

Day: Wednesday 13. 9. 2017

Venue: University Center Ajdovščina, Auditorium

Program

9:00 Intro: *Matjaž Valant*

Session I - Chairman: *Layla Martin-Samos*

9:10 – 9:40 **Invited talk; doc. dr. Tadej Rojac** – Identification of charged defects as the missing piece for explaining domain-wall conduction in ferroelectric BiFeO₃« (*Nature Mat.* **16**, 322–327, 2017)

9:40 – 10:00 **Mattia Fanetti** – Morphology and chemistry of initial growth of Au on Bi₂Se₃

10:00 – 10:20 **Katja Ferfolja** – Room-Temperature Solid-State Reaction at the Ag/Bi₂Se₃ Interface

10: 20 - 10:40 **Sandra Gardonio** – Reactivity of H₂O and O₂ molecules on different crystalline surfaces of magnesium

10:40 - 11:00 **Nicolas Salles** – Atomistic Modelling of desoxidation processes in SiO₂-based OXRAM

11:00 - 11:20 **Andraž Mavrič** – The electrochemical synthesis of dendritic polymethylsilane

Coffee break

Session II - Chairman: *Artem Badasyan*

12:00 - 12:20 **Blaž Belec** – Synthesis of composite nanoparticles with different core nanoparticles coated with a magnetic shell

12:20 – 12:40 **Luigi Gaicomazzi** – Color centers in P-doped and Yb-doped silica optical fibers: a first-principles investigation

12: 40 – 13:00 **Blaž Winkler** – Radiation induced attenuation in rare-earth codoped optical fibers

13:00 – 13:20 **Saim Emin** – Transformation of tungsten to tungsten carbides and their use in water splitting studies

13:20 – 13:40 **Matjaž Valant** – Visible-Light Photoactivity of Fe-Containing Bi-Pyrochlores

13:50 group photo

14:00 group lunch