

VIRTUAL / REACTOR CENTRE JSI, 19. May 2021

Conference opening

8:30 – 8:45 *Conference opening*

I. Research reactors and nuclear data



8:45 – 9:15 Calculation of gamma and neutron dose field inside the JSI TRIGA Mark II reactor hall – **Anže JAZBEC** (*invited lecture*)

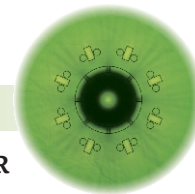
9:15 – 9:30 Development of RAPID extension for TRIGA reactor 3D burnup calculations – **Anže PUNGERČIČ**

9:30 – 9:45 First-Principles Study of ZrH – **Ingrid ŠVAJGER**

9:45 – 10:00 Modelling of OPEN100 Reactor with Serpent-2 – **Anže MIHELČIČ**

10:00 – 10:15 *coffee break*

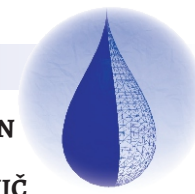
II. Fusion reactor physics



10:15 – 10:30 Computation of Lithium Hydride Neutron and Gamma Ray Attenuation – **Andrej ŽOHAR**

10:30 – 10:45 Water activation experiment: PhD thesis topic overview – **Domen Kotnik**

III. Experimental thermal-hydraulics



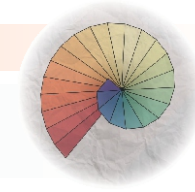
10:45 – 11:00 PIV measurements of single- and two-phase turbulent flows in a vertical pipe – **Jan KREN**

11:00 – 11:15 Measurement of turbulent flow over backward facing step with PIV – **Nejc KOSANIČ**

11:15 – 11:30 Flow boiling in horizontal annulus – visualization and bubble size distributions – **Boštjan ZAJEC**

11:30 – 12:30 *lunch break*

IV. Nuclear technology



12:30 – 13:00 Rosatom projects worldwide and technical characteristics of VVER technology – **Alexandra OVCHARENKO, Alexander RENEV** (*invited lecture*)

V. Severe accidents

13:00 – 13:15 Overview report on the accident at the Fukushima Daiichi NPP (summary of known facts - 10 years later) – **Kaja ZUPANČIČ**

13:15 – 13:30 Pool scrubbing simulations of SCRUPOS experiment – **Matic KUNŠEK**

13:30 – 13:45 Assessment of premixed layer formation model on experimental results – **Janez KOKALJ**

13:45 – 14:00 Computation of kinf from Monte-Carlo generated cross sections – **Jan Malec**

14:00 – 14:15 *Closing remarks and coffee break*

14:15 – 15:00 **NSS Young generation network meeting**

