

**May 27, 2020**

## **Session V**

# **NUCLEAR POWER ENGINEERING**

**Committee: prof. Ing. Márius Pavlovič, PhD. – Chair**

**Ing. Bradislav Vrban, PhD.**

**Ing. Patrik Novák, PhD.**

**09:00 - 11:00**

**1. The function of hydrogen ions ranges in steels approximation based on material density**

Adam Jakabovič and Vladimír Slugeň

**2. LaBr<sub>3</sub>(Ce) detectors in gamma spectrometry**

Branislav Stríbrnský and Róbert Hinca

**3. Methodology of the neutron flux distribution calculation in VVER-440 reactor components**

Michal Šnírer, Kristína Krištofová, Gabriel Farkas, Peter Hausner and Vladimír Slugeň

**4. Determination of ex-core detector spatial weighting functions for reactor VVER-440**

Peter Hausner, Katarína Kaprinayová and Michal Šnírer

**5. Calculation of ex-core detector spatial weighting functions for reactor VVER-440**

Katarína Kaprinayová and Peter Hausner

**6. Comparison of various deterministic codes with MCNP in the field of radiation protection optimization during**

Dávid Bednár, Martin Lištjak and Vladimír Nečas

**Announcement of Award Winning Papers**