



PhD seminary 2026

IEP SAS

Thursday, June 18, 2026

Aula, Watsonova 47, Košice



8:30 – 8:40	Opening and actual information about PhD study
8:40 – 9:30	1st year:
8:40 – 8:50	Ján VILLIM (Informatics) <i>Methods of implementation and computational optimization of models in cosmic ray physics and geophysics</i>
8:50 – 9:00	Levente FABER (CMP) <i>Superconducting properties of V_2Ga_5 single crystals</i>
9:00 – 9:10	Hajnalka HANESZOVÁ (NP) <i>Development of transport software for neutrino telescopes of the KM3NeT experiment and its implementation into the general simulation framework of the experiment</i>
9:10 – 9:20	Tomáš SUŠKO (BP) <i>Targeting Amyloid Aggregation of Proteins: Exploring Small Molecule and Peptide-Based Inhibitors for Neurodegenerative Diseases</i>
9:20 – 9:30	Peter ZIMOVČÁK (BP) <i>Protein stability and aggregation in biocompatible organic solvents</i>
9:30 – 9:50	Coffee break
9:50 – 11:20	2nd year:
9:50 – 10:05	Muhammad Faisal ASHRAF (CMP) <i>Substitutional compounds of novel multiferroic functional materials with distorted perovskite structure</i>
10:05 – 10:20	Tomáš BÍRÓ (BP) <i>Amyloid paradigm: From pathological structures to functional bionanomaterials</i>
10:20 – 10:35	Valentín JEDINÁK (AM) <i>Multifunctional magnetic nanomaterials for use in medicine</i>
10:35 – 10:50	Silvia KOSTÁROVÁ (NP) <i>Study of space weather influence on Earth's interface to space</i>
10:50 – 11:05	Yevhen PETRENKO (CMP) <i>Calorimetry of superconductors</i>
11:05 – 11:20	Paula PILLÁROVÁ (AM) <i>Nanomaterials for medical application – functionalization and physicochemical characterization of magnetic nanoparticles based on iron oxides</i>
11:20 – 11:35	3rd year:
11:20 – 11:35	Hanan KAREEM ABDUL (BP) <i>Misfolding proteins in amyloid diseases and their prevention/therapy</i>
11:35 – 12:35	4th year:
11:35 – 11:50	Barbora BOROVSÁKÁ (BP) <i>Formation and inhibition of self-assembly of protein amyloid structures - impact on amyloid diseases</i>
11:50 – 12:05	Viktória REĽOVSKÁ (FEDOROVÁ) (BP) <i>Structural, functional and dynamic features of protein amyloid structures</i>
12:05 – 12:20	Ivana GARČÁROVÁ (BP) <i>Evaluation of the Importance of Hydrophobic Interactions in Functional and Structural Integrity of Supramolecular Protein Assemblies</i>
12:20 – 12:35	Ravneet KAUR (AM) <i>Study of the atomic structure of materials with a high degree of disorder</i>

12:40 Short session of supervisors, guarantees and members of Scientific Council IEP SAS

Explanatory notes:

- AM - Advanced Materials (FS UPJS, guarantee: I. Škorvánek)
- BP - Biophysics (FS UPJS, guarantee: Z. Gažová)
- CMP - Condensed Matter Physics (FS UPJS, guarantee: P. Samuely)
- NP - Nuclear Physics (FS UPJS, guarantee: I. Králik)