



IEP SAS



Thursday, June 23, 2022

Aula, Watsonova 47, Košice

8:00 – 8:15	Opening and actual information about PhD study
8:15 - 8:30	Marek Kuzmiak (PEAM, 3 rd year) Superconductivity in strongly disordered systems
8:30 – 9:30	1 st year:
8:30 - 8:40	Kamil Goliaš (CMP) Classical to quantum crossover in mechanical resonators
8:40 – 8:50	Filip Košuth (CMP) Study of induced superconductivity in topological materials
8:50 – 9:00	Dmytro Miakota (PEAM) Memory effect in 5CB liquid crystal based composites
9:00 – 9:10	O'ga Parmar (BP) The influence of different interaction partners on the amyloid aggregation of proteins
9:10 – 9:20	Radka Sobotová (M) Synthesis and physicochemical characterization of nanomaterials based on iron oxides for medical applications
9:20 – 9:30	Kristina Zolochevska (PEAM) Biomedical and biotechnological applications of magnetic nanoparticles (including magnetoferritin)

9:30 – 10:00 Coffee break

10:00 – 10:30 2nd year:

10:00 - 10:15	Július Bačkai (PEAM)
	Angle-resolved magnetoresistance in metallic quantum magnet TmB ₄
	Oleksandr Podopryhora (CMP)
	Superfluid ³ He-B as a model system for Q-bits

10:30 – 11:15 3rd year:

 10:30 – 10:45 Maksym Karpets (PEAM) Impact of magnetic and electric field on structure of magnetic fluids
10:45 – 11:00 Limpat Nulandaya (AM) Ni₂ FeGa: Master Alloy and Microwire

11:00 – 11:15 Barbora Borovská (BP)

Formation and inhibition of self-assembly of protein amyloid structures - impact on amyloid diseases

11:15 – 11:30 4th year:

11:15 – 11:30 Martin Kovalik (M)

Colloidal stability and chemical resistance of doped manganites

11:30 Short session of supervisors, guarantees and members of Scientific Council IEP SAS

Explanatory notes:

- AM Advanced Materials (FS UPJŠ, guarantee: I. Škorvánek)
- BP Biophysics (FS UPJŠ, guarantee: A. Musatov)
- CMP Condensed Matter Physics (FS UPJŠ, guarantee: P. Samuely)
- M Materials (FMMR TUKE, guarantee: M. Mihalik)
- PEAM Physical Engineering of Advanced Materials (FEI TUKE, guarantee: S. Gabáni)