

PHD THESIS FINAL REVIEWS
(Summer session 2023)

PhD Program	Date	Preliminary Time	PhD Student	Supervisor(s)	Thesis Title	Room in campus & Online link
Mathematics and Mechanics		11:10	Yulia Kuzminova	Igor Shishkovsky; Stanislav A. Evlashin	Properties and characteristics of the CrFeCoNi high-entropy alloys and its modifications produced by additive manufacturing techniques	E-R2-2030; online link (TBA)
		12:20	Radmir Karamov	Ivan Sergeichev; Stepan Lomov (KU Leuven); Yentl Swolfs (KU Leuven)	Machine learning enhancement of micro-CT based micromechanics of composite materials	
		14:30	Stanislav Chernyshikhin	Igor Shishkovsky	Tailoring the functional properties of NiTi shape memory alloy by high-resolution laser powder bed fusion	
		15:40	Konstantin Makarenko	Igor Shishkovsky	Microstructural, Mechanical, and Thermal Properties Evaluation of Functionally Graded Fe-Cu Structures after Direct Energy Deposition	
Materials Science and Engineering		10:10	Vahid Ramezankhani	Stanislav Fedotov	Design of potassium-ion batteries using organic and polyanionic electrode materials	E-R3-2007; online link (TBA)
		11:30	Nikita Akhmetov	Alexei Buchachenko	Development of lithium-conducting polymer-ceramic membranes for lithium-metal hybrid flow batteries	
		12:50	Mohammad Owais	Sergey Abaimov	Design and characterization of thermally conductive polymer nanocomposites with tunable electrical resistivity	
Petroleum Engineering		10:00	Alexandra Scherbakova	Alexey Cheremisin	Investigation of Alkyl Ether Carboxylate Surfactants Performance in Carbonate Reservoirs	E-R3-2007; online link (TBA)
		11:20	Victor Duplyakov	Andrei Osiptsov	Machine Learning on Field Data for Hydraulic Fracturing Design Optimization	
		13:40	Pavel Afanasiev	Alexey Cheremisin	In situ hydrogen generation within hydrocarbon reservoirs	
Physics		10:10	Julijana Cvjetinovic	Gorin Dmitry; Korsunsky Alexander	Optical and mechanical properties of nanostructured microparticles based on diatom algae	E-R2-2030; online link (TBA)
		11:10	Ivan Gnusov	Lagoudakis Pavlos; Alyatkin Sergey	Spinor and vorticity control in polariton condensates	
		12:10	Maksim Mokrousov	Gorin Dmitry	Bimodal fluorescence and optoacoustic contrast agents based on nanostructures containing J-aggregates	
		14:30	Mariia Pogodaeva	Drachev Vladimir Levchenko Sergey	Spin-dependent dielectric function of metals from the first principles	
		15:30	Igor Salimon	Mailis Sakellaris	Laser synthesis and modification of nanomaterials	
Engineering Systems		TBA	Davalos Fernando	Federico Martin Ibanez	Supercapacitor Energy Storage System based on Modular Multilevel Converter with embedded self-balance control	E-R3-2007; online link (TBA)
		TBA	Mitrovic Mile	Petr Vorobev	Data-Driven Stochastic AC-OPF using Gaussian Processes	
		TBA	Farshad Sabah	Clement Fortin	Improving Collaborative Engineering Design and Learning through Feedback Systems in the Era of Digitalization	
Life Sciences		TBA	Nikita Shepelev	Dontsova Olga	Some aspects of functioning of telomerase complex in yeast and human	E-R2-2030; online link (TBA)
		TBA	Dmitrii Smirnov	Khrameeva Ekaterina	Investigation of the role of SIRT6 in molecular mechanisms of gene expression regulation, metabolism and aging	
		TBA	Bogdan Kirillov	Panov Maxim	Uncertainty Quantification and Neural Network Interpretation in studying CRISPR mechanics	
Materials Science and Engineering		10:10	Ilya Novikov	Albert Nasibulin	Assembling networks of single-walled carbon nanotubes for electronic and optical applications	E-R3-2007; online link (TBA)
		11:30	Vadim Sotskov	Alexander Shapeev	Design of potassium-ion batteries using organic and inorganic electrode materials	
CDSE		TBA	Sergey Osipenko	Yury Kostyukovich	Machine learning based prediction of chromato-mass-spectrometric small molecule characteristics to increase annotation efficiency in untargeted analysis	E-R2-2030; online link (TBA)