

**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;
		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;
		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
		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	Ivan Gnusov	Lagoudakis Pavlos; Alyatkin Sergey	Spinor and vorticity control in polariton condensates	E-R2-2030
		11:10	Igor Salimon	Mailis Sakellaris	Laser synthesis and modification of nanomaterials	
		12:10	Julijana Cvjetinovic	Gorin Dmitry; Korsunsky Alexander	Optical and mechanical properties of nanostructured microparticles based on diatom algae	
		14:30	Maksim Mokrousov	Gorin Dmitry	Bimodal fluorescence and optoacoustic contrast agents based on nanostructures containing J-aggregates	
Petroleum Engineering		10:00	Anna Shevtsova	Sergey Stanchits	Laboratory study of fracture behavior and improvement of hydraulic fracture efficiency, induced by injection of liquids with modified rheological parameters	E-R3-2007;
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;
		TBA	Mitrovic Mile	Petr Vorobev	Data-Driven Stochastic AC-OPF using Gaussian Processes	
Life Sciences		13:00	Nikita Shepelev	Dontsova Olga	Some aspects of functioning of telomerase complex in yeast and human	E-R2-2030; online link: <a href="https://vc.skoltech.ru/b/ele-bfe-vju-5jx">https://vc.skoltech.ru/b/ele-bfe-vju-5jx</a>
		14:30	Dmitrii Smirnov	Khrameeva Ekaterina	Investigation of the role of SIRT6 in molecular mechanisms of gene expression regulation, metabolism and aging	
		16:00	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		12:00	Sergey Osipenko	Yury Kostyukevich	Machine learning based prediction of chromato-mass-spectrometric small molecule characteristics to increase annotation efficiency in untargeted analysis	E-R2-2030; online link (TBA)