

	<p>GLYBOVSKI, Stanislav B. Candidate of Science</p>
<p>Research interests</p>	<p>Antennas, electrodynamics of periodic structures, metamaterials, measurements in the microwave range, microwave devices, MRI coils</p>
<p>Features of the PhD program</p>	<p>A research project will combine a strong fundamental background with relevant simulation and measurement techniques, collaboration with leading researchers and industrial partners. 2 journal papers per year is expected research output.</p>
<p>List of the supervisor's research projects (participation/supervision)</p>	<ul style="list-style-type: none"> ✓ Experimental demonstration of Huygens' surfaces in the THz range, Russian Science Foundation, 2019/06 – now (supervisor) ✓ Smart antennas for 6G Priority 2023 program, Ministry of Science and higher Education of the Russian Federation, 2022/01 – now (supervisor) ✓ Waves in medical systems, Ministry of Science and Education of Russian Federation (supervisor) ✓ Wireless devices for MRI, Ministry of Science and Education of Russian Federation (member) ✓ Application of advanced knowledge in the field of physics of artificial materials in the new wireless devices for MRI development, Ministry of Science and Education of Russian Federation (member) ✓ Development and production of the compact omnidirectional antenna for 2400 MHz WI-FI standard, AO Kaspersky Lab (member) ✓ Combined GNSS/5G antennas Topcon Positioning Systems, 2020/03 - 2022/02 Role: leader Development of combine multi-element antennas for positioning and communication (supervision) ✓ Tunable metasurfaces for wireless technologies Russian Science Foundation, 2021/01 – now Role: principal research member ✓ Intelligent reflective surfaces for 5G, Huawei
<p>List of potential thesis topics</p>	<ul style="list-style-type: none"> ✓ Spatially-nonuniform and spatially dispersive metasurfaces ✓ SatCom metasurface based antennas ✓ MIMO antennas
<p>Publications in the last five years</p>	<p>91 (Scopus / Web of Science / RSCI)</p>
<p>Key publications</p>	<p>1. Oleh Yermakov, Vladimir Lenets, Andrey Sayanskiy, Juan Domingo Baena, Enrica Martini, Stanislav Glybovski, Stefano Maci Surface Waves on Self-Complementary Metasurfaces All-Frequency Hyperbolicity, Extreme Canalization, and TE-TM Polarization Degeneracy // Physical Review X – 2021. DOI: 10.1103/physrevx.11.031038</p>

	<p>2. Georgiy Solomakha, J. T. Svejda, C. van Leeuwen, A. Rennings, A. J. Raaijmakers, Stanislav Glybovski, D. Erni A self-matched leaky-wave antenna for ultrahigh-field magnetic resonance imaging with low specific absorption rate // Nature Communications – 2021. DOI: 10.1038/s41467-020-20708-w</p> <p>3. Marine A. C. Moussu, Luisa Ciobanu, Sergej Kurdjumov, Elizaveta Nenasheva, Boucif Djemai, Marc Dubois, Andrew Webb, Stefan Enoch, Pavel Belov, Redha Abdeddaim, Stanislav Glybovski Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics // Advanced Materials – 2019. DOI: 10.1002/adma.201900912</p> <p>4. Rustam Balafendiev, Georgiy Solomakha, Marc Dubois, Redha Abdeddaim, Stefan Enoch, Constantin Simovski, Stanislav Glybovski an Antenna Based on Three Coupled Dipoles with Minimized E-field for Ultra-high-field MRI // IEEE Transactions on Antennas and Propagation – 2022. DOI: 10.1109/tap.2022.3195515.</p> <p>5. Vsevolod Vorobyev, Alena Shchelokova, Alexander Efimtcev, Juan D. Baena, Redha Abdeddaim, Pavel Belov, Irina Melchakova, Stanislav Glybovski Improving homogeneity in abdominal imaging at 3 T with light, flexible, and compact metasurface // Magnetic Resonance in Medicine – 2021. DOI: 10.1002/mrm.28946</p>
Supervisor’s specific requirements	<ul style="list-style-type: none"> ✓ Good knowledge of basic electromagnetics and electric circuits ✓ Skills of antennas and RF engineering will be beneficial
Code of the subject area of the PhD program	<p>1.3.4 Radio Physics</p> <p>2.2.14 Antennas, Microwave Equipment and Related Technology</p>