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platonov.serge@gmail.com

1 Education and qualifications

Graduated from high school *2006*
B.Sc. with Honours *2006-2010*
Moscow Institute of Physics and Technology (State University) GPA = 4.87 out of 5
Applied Physics and Mathematics Department **M.Sc. with Honours** *2010-2012*
Moscow Institute of Physics and Technology (State University) GPA = 4.92 out of 5
Applied Physics and Mathematics Department **PhD** *2012-current*
Ludwig-Maximilians University
Fakultt fr Physik Center for Nanoscience Munich

2 Data processing skills

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Computer Languages	C/C++, MATLAB
Software & Tools	HTML, LaTeX, Excel, Gerris, Mathematica, ASPEN Plus, Tecplo
Programming languages	C/C++, Python (Matplotlib, Scipy, Numpy data analysis libraries), S

MathSoft & Matlab, Maple, Mathcad, Mathematica
Latex, MS Powerpoint,MS Excel, MS Word, MS Access

3 Engineering techniques

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Cryogenic physics dilution fridges, He3 systems
High-vacuum systems rotarypumps, leaktesting
Low excitation voltage measurements (automated by LabView)
HF (¡20 GHz) designed experiments (simulated with Sonnet)
Optical lithography EBL lythography (Raith E-line)
Technical drawings with Solidworks, AutoCad, Eagle

4 Experience

4.1 IRE RAS Moscow

September 2009 July 2010Undergraduate Research

Experimental research of acoustic waves parametric excitation in nanostructured films of TbCo 2 /FeCo near the spin reorientation transition.

Section secretary of MIPT scientific conference in Dolgoprudny, Russia.

Theoretical study of surface magnetostatic wave propagation in 2D magnetic multi-layered structure Publications: Book of Abstract European Conference PHYSICS OF MAGNETISM, Poznan, Poland, June 27- July 1, 2011

4.2 IRE RAS Moscow

July 2010 June 2012Graduate Research

Experimental study of anomolous Hall effect of magnons in ferromagnetic periodic structures.

Publications: Anomolous Hall effect in magnonic crystals, Book of Abstract Advanced Electromagnetic Symposium AES 2012, Paris, April 16- 19, 2012

4.3 LMU Munich

September 2012 December 2015 PhD student

Experimental and theoretical study of the Electron Transport Manipulation in Mesoscopic Semiconductor Structures.

Making lab-course for 5-6 semester Thermoelectrics

Making exercises for the lecture Advanced Solid State Physics by Alex Högele

Publications: Lissajous Rocking Ratchet: Realization in a Semiconductor Quantum Dot, Phys. Rev. Lett. 115, 106801, 2015

4.4 PDI Berlin

December 2015 currentPhD student

Publications: Gaussian Beam Electron Optics with Quantum Point Contacts, German-Japanese Meeting on the Science of Hybrid Quantum Systems , Berlin, 10-11 November 2016

5 Academic Achievements

Candidate to Belarus team on International Physics Olimpiad (IPho) in Singapore, 2006
Winner of the research works contest on 54th MIPT scientific conference , 2011
Fellowship of Foundation of non-commercial Programs Dynasty for students, 2011-2012

6 Relevant Courses

Core Courses
Fluid Mechanics & its applications
Thermodynamics
Heat Transfer & its applications
Mass Transfer & its applications
Transport Phenomena (ongoing)

Other Courses
Computational Methods in Engineering
Fundamental of Computing
Probability and Statistics
Calculus & Linear Algebra
Introduction to Mechanics