

YULIA KRASNIKOVA

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Moscow Institute of Physics and Technology, P. L. Kapitza Institute for Physical Problems RAS
Higher School of Economics – National Research University,

EDUCATION

Moscow Institute of Physics and Technology (MIPT)

Master of Science in Applied Physics and Mathematics July 2016

- GPA: 9.0/10.0
- Major in low-temperature physics
- Master of science thesis: “Magnetic resonance in spin ladders and non-collinear antiferromagnets”

Bachelor of Science in Applied Physics and Mathematics July 2014

- GPA: 8.0/10.0
- Major in low-temperature physics
- Bachelor of science thesis: “ESR study of the spin ladder magnets”

Higher School of Economics – National Research University

- PhD program in physics

Current

RESEARCH and WORK EXPERIENCE

Research assistant, Spin dynamics laboratory P. L. Kapitza Institute for Physical Problems RAS, scientific advisor: Dr. Vasilij Glazkov 2013 – current

- Key research area: low-dimensional magnets
- Key research directions: spin dynamics of magnetically ordered systems

High School Physics teacher assistant, 179 High School, Moscow 2014 – 2016

High School Physics teacher, 179 High School, Moscow 2016 – current

PRACTICAL SKILLS

- Low temperature techniques: working with cryoliquids (helium, nitrogen), operating helium-3 and helium-4 vapor pumping cryostats, working with magnetic fields up to 12 T
 - ESR techniques: operating homemade ESR-spectrometers at 9 GHz-150 GHz
 - Programming: basic skills with MatLab and LabView
 - Languages: Russian (native), English (fluent), French (advanced)
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PUBLICATIONS

- V. Glazkov, T. Soldatov, Yu. Krasnikova, "Numeric Calculation of Antiferromagnetic Resonance Frequencies for Noncollinear Antiferromagnet", *Appl Magn Reson*, 47,1069 (2016)
- V. N. Glazkov, Yu. V. Krasnikova, D. Huvonen, A. Zheludev, "Formation of the S=1 paramagnetic centers in the bond-diluted spin-gap magnet", *J. Phys.: Condens. Matter* 28, 206003 (2016)

- V.N. Glazkov, M. Fayzullin, Y. Krasnikova, G. Skoblin, D. Schmidiger, S. Muhlbauer, A. Zheludev, "ESR study of the spin ladder with uniform Dzyaloshinskii-Moria interaction", Phys. Rev. B 92, 184403 (2015)
 - K. Yu. Povarov, W. E. A. Lorenz, F. Xiao, C. P. Landee, Y. Krasnikova, A. Zheludev, "The tunable quantum spin ladder $\text{Cu}(\text{Qnx})(\text{Cl}_{1-x}\text{Br}_x)_2$ ", Journal of Magnetism and Magnetic Materials, 370, 62 (2014)
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HONORS

Acknowledgement of youth scientific competition winner, XVIII Youth Scientific School "Actual problems of magnetic resonance and its application", Kazan 2015

Diploma of youth scientific competition winner, XIX Youth Scientific School "Actual problems of magnetic resonance and its application", Kazan 2016

POSSIBLE REFEREE

Dr. Vasiliy Glazkov, Kapitza Institute for Physical Problems, glazkov@kapitza.ras.ru

HOBBIES and INTERESTS

Gliding, snowboarding, debates, urban development
