

CURRICULUM VITAE

Sergey Ryabchun

Date of birth: July 5, 1981
Place of birth: Moscow region, Russia

Education: 2003, specialist degree, Moscow State Pedagogical University
2009, Ph.D., Moscow State Pedagogical University

Professional Experience

2001–2004 Research Assistant, the Radio physics Research and Education Centre,
Moscow State Pedagogical University
2004–2007 Predoctoral Fellow, the Harvard-Smithsonian Center for Astrophysics
2008–2009 Specialist, Scontel
2008–2011 Technician, the Division of General and Experimental Physics, Moscow
State Pedagogical University
2011– Director, the Spectroscopy Centre, Moscow State Pedagogical University
Associate Professor, the Division of General and Experimental Physics,
Moscow State Pedagogical University
2012–2017 Associate Professor, Moscow Institute of Electronics and Mathematics,
Higher School of Economics
2017– Invited teacher, Department of Foreign Languages, Higher School of
Economics

Awards

Preddoctoral Fellowship (2004), Harvard-Smithsonian Center for Astrophysics
Van Duzer Prize (2010) (shared), IEEE Council on Superconductivity

General fields of interest

Quantum mechanics, condensed-matter theory, superconductivity, physics of nano-structures, instruments of radio astronomy, English grammar and phonetics, teaching

Bibliography

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Articles in Refereed Journals

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2. Kardakova, A., Shishkin, A., Semenov, A., Goltsman, G.N., Ryabchun, S., Klapwijk, T.M., Bousquet, J., Eon, D., Sacépé, B., Klein, Th., Bustarret, E., Relaxation of the resistive superconducting state in boron-doped diamond films, Physical Review B - Condensed Matter and Materials Physics, 93 (6), 064506
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4. Ryabchun S., Goltsman G., Tong E., Blundell R., Trifonov A. Probing the stability of HEB mixers with microwave injection // IEEE Transactions on Applied Superconductivity. 2015. Vol. 25. No. 3. P. 01-05.
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6. I.V. Pentin, A.V. Smirnov, S.A. Ryabchun, R.V. Ozhegov, G.N. Gol'tsman, V.L. Vaks, S.I. Pripolzin, D.G. Pavel'ev, Yu. I. Koshurinov, A.S. Ivanov, Semiconducting superlattice as a solid-state terahertz local oscillator for NbN hot-electron bolometer mixers, Technical Physics 57 (7), 971-974 (2012).
7. A.V. Smirnov, A.M. Baryshev, P. de Bernardis, V.F. Vdovin, G.N. Gol'tsman, N.S. Kardashev, L.S. Kuz'min, V.P. Koshelets, A.N. Vystavkin, Yu. V. Lobanov, S.A. Ryabchun, M.I. Finkel, D.R. Khokhlov, The current stage of development of the receiving complex of the millimetron space observatory, Radiophysics and Quantum Electronics, January 2012, pp.1-12.
8. Ivan Tretyakov, Sergey Ryabchun, Matvey Finkel, Anna Maslennikova, Natalia Kaurova, Anastasia Lobastova, Boris Voronov, and Gregory Gol'tsman, Low noise and wide bandwidth of NbN hot-electron bolometer mixers, Applied Physics Letters, 98, p. 033507 (2011).
9. Ivan Tretyakov, Sergey Ryabchun, Matvey Finkel, Sergey Maslennikov, Anna Maslennikova, Natalia Kaurova, Anastasia Lobastova, Boris Voronov, Gregory Goltsman, Ultrawide noise bandwidth of NbN hot-electron bolometer mixers with in situ gold contacts, IEEE Transactions on Applied Superconductivity, 21(3), pp. 620 – 623 (2011).
10. I.V. Tretyakov, S.A. Ryabchun, N.S. Kaurova, P.A. Larionov, A.A. Lobastova, B.M. Voronov, M.I. Finkel, G.N. Gol'tsman, Optimum absorbed heterodyne

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11. S. A. Ryabchun, I. V. Tretyakov, I. V. Pentin, N. S. Kaurova, V. A. Seleznev, B. M. Voronov, M. I. Finkel, S. N. Maslennikov and G. N. Gol'tsman, Low-noise wide-band hot-electron bolometer mixer based on an NbN film, *Journal Radiophysics and Quantum Electronics*, Issue Volume 52, Number 8, August, 2009, pp. 576-582.
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15. I.V. Pentin, A.V. Smirnov, S.A. Ryabchun, G.N. Gol'tsman, V.L. Vaks, S.I. Pripolzin, D.G. Paveliev, Heterodyne source of THz range based on semiconductor superlattice multiplier, proceedings of the 36th International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz), 2011.
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18. S. A. Ryabchun, I. V. Tretyakov, M. I. Finkel, S. N. Maslennikov, N. S. Kaurova, V. A. Seleznev, B. M. Voronov, and G. N. Gol'tsman, NbN Phonon-Cooled Hot-Electron Bolometer Mixer with Additional Diffusion Cooling, in the Proceedings of the 20th International Symposium on Space Terahertz Technology, Charlottesville, 20-22 April 2009, pp. 151-154.
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- Conference “Fundamental Problems of High-Temperature Superconductivity,” Zvenigorod, Russia: 2008, pp. 284-285.
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