

NIKITA N. SENIK

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EDUCATION

- 2018 *Ph.D. in Mathematical Physics*
Saint Petersburg State University
Thesis: "Homogenization for periodic and locally-periodic elliptic operators"
Advisor: T. A. Suslina, D.Sc.
- 2013 *M.S. in Physics with Honors*
Saint Petersburg State University
Thesis: "Homogenization for a periodic elliptic operator in a strip with various boundary conditions"
Advisor: T. A. Suslina, D.Sc.
- 2011 *B.S. in Physics with Honors*
Saint Petersburg State University
Thesis: "Homogenization for a second order periodic elliptic operator in a strip"
Advisor: T. A. Suslina, D.Sc.

CONFERENCE PRESENTATIONS

- 2018 International Conference on Differential Equations and Dynamical Systems • Suzdal, Russia

Days on Diffraction • St. Petersburg, Russia
- 2017 International Conference on Differential and Functional Differential Equations • Moscow, Russia

St. Petersburg Conference in Spectral Theory Dedicated to the Memory of M. Sh. Birman • St. Petersburg, Russia

Days on Diffraction • St. Petersburg, Russia
- 2016 Trilateral German–Russian–Ukrainian Summer School: Spectral Theory, Differential Equations and Probability • Mainz, Germany
- 2015 St. Petersburg Conference in Spectral Theory Dedicated to the Memory of M. Sh. Birman • St. Petersburg, Russia

Days on Diffraction • St. Petersburg, Russia
- 2014 International Conference on Differential and Functional Differential Equations • Moscow, Russia
- 2013 Days on Diffraction • St. Petersburg, Russia

Mathematical Methods for Spectral Problems: Applications to Waveguides, Periodic Media and Metamaterials • Helsinki, Finland
- 2012 Trilateral French–German–Russian Workshop: Asymptotic Analysis and Spectral Theory on Non-Compact Structures • Mainz, Germany

St. Petersburg Conference in Spectral Theory Dedicated to the Memory of M. Sh. Birman • St. Petersburg, Russia

Days on Diffraction • St. Petersburg, Russia

AWARDS AND HONORS

- 2016 Rokhlin Grant
- 2015 Young Russian Mathematics Award
RF Government Grant
- 2014 Rokhlin Grant
- 2013 Deich Memorial Prize

PUBLICATIONS

- 2017 N. N. Senik, *Homogenization for non-self-adjoint locally periodic elliptic operators*, preprint, arXiv:1703.02023 [math.AP]

N. N. Senik, *On homogenization for non-self-adjoint locally periodic elliptic operators*, *Funct. Anal. Appl.*, 51 (2017), pp. 152–156

N. N. Senik, *Homogenization for non-self-adjoint periodic elliptic operators on an infinite cylinder*, *SIAM J. Math. Anal.*, 49 (2017), pp. 874–898
- 2016 N. N. Senik, *On homogenization for non-self-adjoint periodic elliptic operators on an infinite cylinder*, *Funct. Anal. Appl.*, 50 (2016), pp. 71–75
- 2014 N. N. Senik, *Homogenization for a periodic elliptic operator in a strip with various boundary conditions*, *St. Petersburg Math. J.*, 25 (2014), pp. 647–697
- 2012 N. Senik, *On homogenization for periodic elliptic second order differential operators in a strip*, *Days on Diffraction* (2012), pp. 215–220

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