

Ari Laptev
PUBLICATIONS

Journals

101. (jointly A.Hassannezhad) *Eigenvalue bounds of mixed Steklov problems*, accepted by Communications in Contemporary Mathematics.
100. (jointly with R.L.Frank), *Bound on the number of negative eigenvalues of two-dimensional Schrödinger operators on domains*, accepted by Algebra and Analysis.
99. (jointly with A.Ilyin), *Berezin--Li--Yau inequalities on domains on the sphere*, submitted.
98. (jointly with A.Ilyin), *Lieb--Thirring inequalities on the sphere*, accepted by Algebra&Analysis.
97. (jointly with J.Dolbeault, M.J.Esteban and M.Loss), *Magnetic ring*, Journal of Mathematical Physics **59**, 2018.
96. (jointly with J.Dolbeault, M.J.Esteban and M.Loss), *Interpolation inequalities and spectral estimates for magnetic operators*, Annales Henri Poincaré, **19** (5) (2018) 1439--1463.
95. (jointly with M.Ruzhansky and N. Yessirkegenov) *Hardy inequalities for Landau Hamiltonian and for Baouendi-Grushin operator with Aharonov-Bohm type magnetic field, Part I*, accepted by Mathematica Scandinavica.
94. (jointly with A.Velicu), *Bound States of operators with Heisenberg sub-Laplacian*, EMS Series of Congress Reports, 381-387 (2018).
93. (jointly with F. Ferrulli and O.Safronov), *Eigenvalues of the bilayer graphene operator with a complex valued potential*, accepted by Analysis and Mathematical Physics.
92. (jointly with E. Korotyaev), *Trace formulae for discrete Schrödinger operators with complex-valued potentials*, Bull. Math. Sci. (2018) **8**:453--475.
- 91.(jointly with A.Peicheva and A.Shlapunov), *Finding eigenvalues and eigenfunctions of the Zaremba problem for the circle*, Complex Anal. Oper. Theory, **11**, no. 4, (2017). 895--926.
90. (jointly with S. Maad), *Perturbations of embedded eigenvalues for a magnetic Schrödinger operator on a cylinder*, J. Math. Phys. **58**, no. 1 (2017), 17 p.
89. (jointly with E. Korotyaev), *Trace formulas for a discrete Schrödinger operator*, Funct. Anal. Appl. **51**, no 3 (2017), 225--229.

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87. (jointly with L. Kapitanski), *On continuous and discrete Hardy inequalities*, J. Spectr. Theory, **6**, no. 4 (2016), 837--858.
86. (jointly with R.Frank and O. Safronov), *On the number of eigenvalues of Schrödinger operators with complex potentials*, J. Lond. Math. Soc., II. Ser. **94**, no. 2 (2016), 377--390.
85. (jointly with L. Schimmer and L. Takhtajan), *Weyl-type asymptotics and bounds for the eigenvalues of functional-difference operators for mirror curves*, Geom. Funct. Anal., **26** (2016) 288--305.
84. (jointly with A. Ilyin), *Lieb-Thirring inequalities on the torus*. (English. Russian original) Sb. Math. **207**, no. 10 (2016), 1410--1434; translation from Mat. Sb. **207**, No. 10 (2016), 56--79.
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82. (jointly with A.Iljin and S.Zelik), *Sharp Interpolation Inequalities for Discrete Operators*, ISSN 1064-5624, Doklady Mathematics, **91**, no. 2 (2015), 215--219.
81. (jointly with A.Iljin, M.Loss and S.Zelik), *One-dimensional interpolation inequalities, Carlson—Landau inequalities and magnetic Schrödinger operators*, Int. Math. Res. Notices, **4** (2016), 1190--1222.
80. (jointly with Th. Hoffmann-Ostenhof), *Hardy inequalities with homogenous weights*, J. Funct.Anal., **268** (2015) 3278--3289.
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78. (jointly with A. Ilyin and S. Zelik), *Sharp interpolation inequalities for discrete operators and applications*, Bull. Math. Sci. **5**, no. 1 (2015), 19—57.
77. (jointly with J. Dolbeault, M.J. Esteban and M. Loss), *One-dimensional Gagliardo-Nirenberg-Sobolev inequalities: Remarks on duality and flows*, J. Lond. Math. Soc., II. Ser. **90**, (2014) no. 2, 525--550.
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34. (jointly with T.Weidl) *Recent results on Lieb-Thirring inequalities*, "Equations aux derivees partielles", Saint-Jean-De-Monts, 2000.
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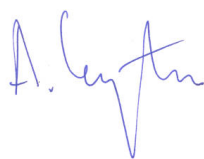
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