

Ari Laptev
PUBLICATIONS

Journals

98. (jointly A.Hassannezhad) *Eigenvalue bounds of mixed Steklov problems*, submitted.
97. (jointly with R.L.Frank), *Bound on the number of negative eigenvalues of two-dimensional Schrödinger operators on domains*, accepted by Algebra and Analysis.
96. (jointly with A.Ilyin), *Berezin--Li--Yau inequalities on domains on the sphere*, submitted.
95. (jointly with J.Dolbeault, M.J.Esteban and M.Loss), *Magnetic ring*. submitted.
94. (jointly with J.Dolbeault, M.J.Esteban and M.Loss), *Interpolation inequalities and spectral estimates for magnetic operators*, accepted by Annales Henri Poincare.
93. (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*, submitted.
92. (jointly with A.Velicu), *Bound States of operators with Heisenberg sub-Laplacian*, accepted.
91. (jointly with F. Ferrulli and O.Safronov), *Eigenvalues of the bilayer graphene operator with a complex valued potential*, submitted.
90. (jointly with E. Korotyaev), *Trace formulae for discrete Schrödinger operators with complex-valued potentials*, accepted by Bulletin Of Mathematical Sciences.
89. (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.
- 88 (jointly with M.Ashbaugh, F.Gesztesy, M.Mitrea and S.Sukhtaiev), *A Bound for the Eigenvalue Counting for Krein--von Neumann and Friedrichs Extensions*, Adv. Math. **304** (2017), 1108--1155.
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.
83. (jointly with H.Kovarik and T. Ekholm), *Hardy inequalities for p -Laplacians with Robin boundary conditions*, Nonlinear Analysis, **128** (2015), 365--379.
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.
79. (jointly with F.Gesztesy, M. Mitrea and S.Sukhtaev), *A bound for the eigenvalue counting function for higher-order Krein Laplacians on open sets*, Proceedings of QMATH12, Berlin, 2013.
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.
76. (jointly with J. Dolbeault, M.J. Esteban and M. Loss), *Spectral properties of Schrödinger operators on compact manifolds: rigidity, flows, interpolation and spectral estimates*, C. R., Math., Acad. Sci. Paris, **351**, (2013) no. 11-12, 437--440.
75. (jointly with P. Exner and M. Usman), *On some sharp spectral inequalities for Schrödinger operators on semi-axis*, Commun. Math. Phys. **326**, (2014) no. 2, 531--541.
74. (jointly with J. Dolbeault and M.J. Esteban), *Spectral estimates on the sphere*, Analysis & PDE, **7**, (2014) no. 2, 435--460.
73. (jointly with J.-C. Cuenin and C.Tretter), *Eigenvalue estimates for non-selfadjoint Dirac operators on the real line*, Ann. Henri Poincare, **15**, (2014) no. 4, 707--736.
72. && (jointly with M.Solomyak), *On spectral estimates for two-dimensional Schrödinger operators*, J. Spectr. Theory, **3**, (2013) no. 4, 505-515.
71. (jointly with H.Kovarik), *Hardy inequalities for Robin Laplacians*, JFA, **262**, (2012) no. 12, 4972-4985.
70. (jointly with M.Solomyak), *On the negative spectrum of the two-dimensional Schrödinger operator with radial potential*, CMP, **314** (2012), no.1, 229-241.

69. *Spectral inequalities for Partial Differential Equations and their applications*, Proceedings of ICCM2010 in Beijing, AMS/IP Studies in Advanced Mathematics, **51**, pt.2, (2012) 629-643.
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67. (jointly with L. Aersmark), *Hardy's inequality for the Grushin operator with a magnetic field of Aharonov-Bohm type*, Algebra i Analiz **23** (2011), no. 2, 1-8.
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64. (jointly with R. Frank and R. Seiringer) *A Sharp Bound on Eigenvalues of Schrödinger Operators on the Half-line with Complex-valued Potentials*, Operator Theory: Advances and Applications, Vol. 214 (2010), 39-44.
63. (jointly with F. Avkhadiev), *On a sharp Hardy inequality for convex domains*, Around the research of Vladimir Maz'ya. I. Function Spaces. Dordrecht: Springer; International Mathematical Series (New York) **12**, (2010) 1-12.
62. Nina N. Uraltseva. *On the occasion of her 75th birthday*, Problems in mathematical analysis. no. 40. J. Math. Sci. (N. Y.) **159** (2009), no. 1, 1-3.
61. (jointly with O. Safronov), *Eigenvalue estimates for Schrödinger operators with complex potentials*, Comm. Math. Phys. **292** (2009), no. 1, 29-54.
60. (jointly with R. Frank), *Spectral inequalities for Schrödinger operators with surface potentials*, Spectral theory of differential operators, Amer. Math. Soc. Transl. Ser. 2, **225**, Amer. Math. Soc., Providence, RI (2008) 91-102.
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30. (jointly with Yu. Netrusov), *On the Negative eigenvalues of a class of Schrödinger operators*, AMS Transl. (2), **189**, (1999) 173-186.
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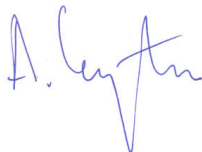
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2018-02-16
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