

List of publications of Alexander A. Shlapunov

1. Shlapunov A.A. **On the Cauchy problem for the Laplace equation.** Siberian Math. Journal, V.33, N. 3 (1992), p. 205–215.
2. Shlapunov A.A., Tarkhanov N.N. **On the Cauchy problem for holomorphic functions of Lebesgue class L^2 in domain.** Siberian Math. Journal, V.33, N. 5 (1992), p. 914–922.
3. Shlapunov A.A., Tarkhanov N.N. **Bases with double orthogonality in the Cauchy problem for systems with injective symbols.** Dokl. Ross. AN., V. 326, N. 1 (1992), p. 45–49; English Transl. in Russian Ac. Sci. Dokl. Math., V. 46, N. 2 (1993), p. 255–230.
4. Aizenberg L.A., Karepov O.V., Shlapunov A.A. **On the property of uniqueness and existence of a limit in Carleman's formulae.** Trudy MIRAN, V. 203, (1994), p. 1–8; English Transl. in Proc. of the Steklov Inst. of Math. N. 3 (1995), p. 1–9.
5. Shlapunov A.A. **On iterations of Green type integrals for matrix factorizations of the Laplace operator.** Rend. Mat. Acc. Linc., S. 9, V. 5, N. 2 (1994), p. 103–116.
6. Shlapunov A.A., Tarkhanov N.N. **Bases with double orthogonality in the Cauchy problem for systems with injective symbols.** The Proceedings of the London Mathematical Society. Ser. 3, V. 71, (1995), p. 1–52.
7. Shlapunov A.A., Tarkhanov N.N. **A stability set in the Cauchy problem for elliptic systems.** Operator Theory: Advances and Applications (78), Birkhäuser, 1995, p. 353–355.
8. Shlapunov A.A. **Spectral decomposition of Green's integrals and existence of $W^{s,2}$ -solutions of matrix factorizations of the Laplace operator in a ball.** Rend. del Seminario Mat. dell'Università di Padova, V.96 (1996), p. 237–256.
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10. Shlapunov A.A. **On the Cauchy Problem for the Lamé system.** ZAMM (Zeitschrift für Angewandte Mathematik und Mechanik) V. 76, N. 4 (1996), p. 215–221.
11. Shlapunov A.A. **Green's integrals and their applications to elliptic systems.** Tesi di perfezionamento (ed. E. Vesentini), Scuola Normale Superiore, 1996, 162 pp.
12. Shlapunov A.A. **On the Cauchy Problem for some elliptic systems in a shell in \mathbb{R}^n .** ZAMM, V. 77, N. 11, (1997), p. 849–859.
13. Nacinovich M., Shlapunov A.A., Tarkhanov N.N. **Duality in the spaces of solutions of elliptic systems.** Ann. Scuola Norm. Sup. Pisa, Cl. Sci. (4), Vol. XXVI (1998), p. 207–232.
14. Shlapunov A.A. **Iterations of self-adjoint operators and their applications to elliptic systems.** Math. Nachrichten, 218 (2000), p. 165–174.
15. Shlapunov A.A. **On a solvability condition to a system with injective symbol in terms of iterations of double layer potentials.** Siberian Math. Journal, V. 42, N. 4 (2001), p. 952–963.

16. Shlapunov A.A. **Duality in spaces of solutions to elliptic systems.** Siberian Math. Journal, V. 43, N. 4 (2002), p. 948–958.
17. Shlapunov A.A. **On a duality in spaces of polyharmonic functions.** Izvestiya VUZ. Mathematics, N. 8 (483), 2002, p. 79–81.
18. Shlapunov A.A., Tarkhanov N.N. **Duality by reproducing kernels.** International Journal of Math. and Math. Sciences, **6** (2003), 78pp.
19. Shlapunov A.A. **On the Cauchy problem for some elliptic complexes with constant coefficients.** "Vestnik KrasGU", Krasnoyarsk State University, Krasnoyarsk, 2003, Ser. Phys.-Mat. nauk., N. 1, p. 62–72.
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21. Schulze B.-W., Shlapunov A.A., Tarkhanov N.N. **Green integrals on manifolds with cracks.** Annals of Global Analysis and Geometry, Vol. 24, 2003, p. 131–160.
22. Tarkhanov N.N., Shlapunov A.A. **Green Integrals in Complex Analysis.** Journ. of Math. Sciences, April 2004, V. 120 (6), p. 1868-1900.
23. Shlapunov A.A. **Regularization of the Cauchy problem for elliptic complexes.** "Vestnik KrasGU", Krasnoyarsk State University, Krasnoyarsk, 2004, Ser. Phys.-Mat. nauki, N. 2, p. 163–170.
24. Shlapunov A.A. **Decomposition in Sobolev spaces with the use of the tangential and normal part of the section.** "Vestnik KrasGU", Krasnoyarsk State University, Krasnoyarsk, 2005, Ser. Phys.-Mat. nauki, N. 1, p. 174–179.
25. Shlapunov A.A. **On some solvability conditions for overdetermined systems of differential equations in Sobolev spaces.** Izvestiya VUZ. Mathematics, N. 4, 2005, p. 70–80.
26. Shlapunov A.A., Tarkhanov N.N. **Mixed problems with a parameter.** Russian Journ. Math. Phys., V.12, N. 1, 2005, p. 97–124.
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30. Shlapunov A.A., Fedchenko D.P. **On the Cauchy problem in Hölder spaces for the multi-dimensional Cauchy-Riemann operator.** "Vestnik KrasGU", Krasnoyarsk State University, Krasnoyarsk, 2006, Ser. Phys.-Mat. nauki, N. 9., p. 100–110.
31. Shlapunov A.A. **On the Cauchy problem for the Cauchy-Riemann operator in Sobolev spaces.** Contemporary Math. 2008, **445**, 333–347.
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33. Fedchenko D.P., Shlapunov A.A. **On the Cauchy problem for the multi-dimensional Cauchy-Riemann operator in Lebesgue space L^2 in a domain.** Matem. Sbornik, 2008, **199**, N 11, 141-160.
34. Shestakov V.I., Shlapunov A.A. **Negative Sobolev Spaces In the Cauchy problem for the Cauchy-Riemann operators.** Journal of SFU, Math. and Phys., Krasnoyarsk, 2009, N. 1, 17-32.
35. Shestakov V.I., Shlapunov A.A. **On the Cauchy problem for operators with injective symbols in Lebesgue space L^2 in a domain.** Siberian Math. J., **50**:3, 2009, 687-702.
36. Shlapunov A.A., Tarkhanov N.N. **A Homotopy Operator for Spencer's Sequence in the C^∞ -case.** Siberian Adv. in Math., 2009, V. 19, N.2, 75-109.