

List of Publications

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1. *Gerver, M. L. and Kudryavtseva, E. A.* (1995): A theorem on precedence relations generated by completely positive kernels. *Matem. Sbornik* **186** (N. 9), 19-44 (in Russian). Transl. *Sbornik Mathematics* **186** (N. 9), 1241-1269.
2. *Gerver, M. L. and Kudryavtseva, E. A.* (1996): On the solution set boundary in the travel-time inversion problem. *Dokl. Russian Acad. Sci. Earth Sci. Sect.* **346** (No. 5), 672-674 (in Russian). Transl. *Dokl. Russian Acad. Sci. Earth Sci. Sect.* **347** (N.2), 262-264.
3. *Gerver, M. L. and Kudryavtseva, E. A.* (1997): On extremal properties of waveguides with a finite number of layers in the hodograph inversion problem. *Dokl. Russian Acad. Sci. Earth Sci. Sect.* **356** (N. 1), 25-28 (in Russian).
4. *Gerver, M. L. and Kudryavtseva, E. A.* (1997): Universal sequence in the classical hodograph inversion problem. *Matem. Sbornik* **188** (N. 4), 3-56 (in Russian). Transl. *Sbornik Mathematics* **188** (N. 4), 483-536.
5. *Gerver, M. L. and Kudryavtseva, E. A.* (1997): A new proof of theorems on a universal sequence and extremal properties of discrete measures. *Uspekhi Matem. Nauk* **52**, N. 6(318), 153-154 (in Russian). Transl. *Russian Math. Surveys* **52**, no. 6, 1298-1299.
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7. *Gerver, M. L. and Kudryavtseva, E. A.* (1998): On extremal properties of discrete measures and the duality principle. *Dokl. Russian Acad. Sci. Earth Sci. Sect.* **363** (No. 5), 586-589 (in Russian).
8. *Kudryavtseva, E. A.* (1998): Generalization of geometric Poincaré theorem for small perturbations. *Regular and Chaotic Dynamics* **3** (No. 2), 46-66.
9. *Kudryavtseva, E. A.* (1998): Stable invariants of conjugacy of Hamiltonian systems on two-dimensional surfaces. *Dokl. Acad. Nauk* **361** (N. 3), 314-317 (in Russian).
10. *Kudryavtseva, E. A.* (1998): Stable topological and smooth invariants for conjugacy of Hamiltonian systems on surfaces. In: *Topological methods in theory of Hamiltonian systems*. Eds. Fomenko, A.T. and Bolsinov, A.V. (Moscow: Factorial), 147-202 (in Russian).
11. *Brailov, Yu. A. and Kudryavtseva, E. A.* (1999): Stable topological nonconjugacy of Hamiltonian systems on two-dimensional surfaces. *Vestnik Moskov. Univ. Ser. I Mat. Mekh.* **No. 2**, 20-27, 72 (in Russian). Transl. *Moscow Univ. Math. Bull.* **54** (no. 2), 20-27.
12. *Kudryavtseva, E. A.* (1999): Realization of smooth functions on surfaces as height functions. *Matem. Sbornik* **190** (No. 3), 29-88 (in Russian). Transl. *Sbornik Mathematics* **190** (No. 3-4), 349-405.

13. *Kudryavtseva, E. A.* (1999): Periodic motions of a planetary system with double planets. The generalized Hill problem. *Vestnik Moskov. Univ. Ser. I Mat. Mekh.* **No. 4**, 59-61 (in Russian). Transl. *Moscow Univ. Math. Bull.* **54** (no. 4), 39-41.
14. *Kudryavtseva, E. A.* (1999): Reduction of Morse functions on surfaces to canonical form by smooth deformation. *Regular and Chaotic Dynamics* **4** (No. 3), 53-60.
15. *Kudryavtseva, E. A.* (1999): Canonical form of Reeb graph for Morse functions on surfaces. Inversion of 2-sphere in 3-space. *International Journal of Shape Modeling* **5** (No.1), 69-80.
16. *Hayat-Legrand, C., Kudryavtseva, E., Wang, S., and Zieschang, H.* (2001): Degrees of self-mappings of Seifert manifolds with finite fundamental groups. Dedicated to the memory of Marco Reni. *Rendiconti Istit. Mat. Univ. Trieste Supp.* **32**, 131-147.
17. *Gonçalves, D.L., Kudryavtseva, E., and Zieschang, H.* (2001): Intersection index of curves on surfaces and applications to quadratic equations in free groups. Dedicated to the memory of Professor M. Pezzana (Italian). *Atti Sem. Mat. Fis. Univ. Modena, Supp.* **IL**, 339-400.
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25. *Bogatyı, S.A., Kudryavtseva, E.A., and Zieschang, H.* (2004): On coincidence points of mappings of the torus into a surface. *Proc. Moscow Math. Inst. Steklov* **247**, 15-34.

26. *Gonçalves, D.L., Kudryavtseva, E., and Zieschang, H.* (2005): An algorithm for minimal number of intersection points of curves on surfaces. Proc. Seminar on Vector and Tensor Analysis **26**, 139-167.
27. *Kudryavtseva, E.A., Saidak, F., and Zvengrowski, P.* (2005): Riemann and his zeta function. Morfismos **9**, no. 2, 1-48.
28. *Kudryavtseva, E.A. and Lakshitanov, E.L.* (2006): Classification of singularities and bifurcations of critical points of even functions. In: Topological Methods in the Theory of Integrable Systems. Eds. Bolsinov, A.V., Fomenko, A.T., and Oshemkov, A.A.; Cambridge Scientific Publishers, Springer, 173-214.
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31. *Kudryavtseva, E.A., Nikonov, I.M., and Fomenko, A.T.* (2008): Maximally symmetric cell decompositions of surfaces and their coverings. Matem. Sbornik **199** (N. 9), 3-96 (in Russian). Transl. Sbornik Mathematics **199** (N. 9), 1263-1359.
32. *Kudryavtseva E.A., Varadarajan K., Zvengrowski P.* (2008): Stable inverses of vector bundles and K -theory. JP J. Geom. Top. **8** (N. 2), 129-150.
33. *Kudryavtseva, E.A.* (2009): Uniform Morse lemma and isotopy criterion for Morse functions on surfaces. Vestnik Moskov. Univ. Ser. I Mat. Mekh. **No. 4**, 13-22 (in Russian). Transl. Moscow Univ. Math. Bull. **64** (no. 4), 12-20.
34. *Andrica D., Funar L. and Kudryavtseva E.A.* (2009): On the minimal number of critical points of smooth maps between closed manifolds. Russian Journal of Mathematical Physics **16** (N. 3), 401-410.
35. *Kudryavtseva, E.A., Nikonov, I.M., and Fomenko, A.T.* (2009): Symmetric and irreducible abstract polyhedra. Contemporary Problems of Mathematics and Mechanics, V.A.Sadovnichiy Anniv. Coll. Articles, Vol. III, N. 2, 58-97.
36. *Kudryavtseva, E.A. and Permyakov, D.A.* (2010): Framed Morse functions on surfaces. Matem. Sbornik **201** (N. 4), 33-98 (in Russian). Transl. Sbornik Mathematics **201** (N. 4), 501-567.
37. *Kudryavtseva, E.A. and Lepskiy, T.A.* (2011): Topology of Lagrangian foliations of integrable systems with hyperelliptic Hamiltonians. Matem. Sbornik. **202** (N. 3), 69-106 (in Russian), Transl. Sbornik Mathematics **202** (N. 3), 373-411.
38. *Kudryavtseva, E.A. and Lepskiy, T.A.* (2011): Topology of foliation and the Liouville theorem for integrable systems with incomplete flows. Sbornik Trudov Sem. Vekt. Tenz. Analizu (in Russian), 43 p., to appear.
39. *Kudryavtseva, E.A. and Lepskiy, T.A.* (2011): Integrable Hamiltonian systems with incomplete flows and Newton's polygons. Sbornik Trudov Konfer. Metrich. Geom. Poverhn. i Mnogogr. (in Russian), 20 p., to appear. arXiv:1107.1911v1

40. *Kudryavtseva, E.A.* (2011): Connected components of spaces of Morse functions with fixed critical points. Vestnik Moskov. Univ. Ser. I Mat. Mekh., 12 p. To appear. arXiv:1007.4398.
41. *Bogataya S.I., Bogatyi S.A., and Kudryavtseva E.A.* (2011): The inverse of a theorem on “economical” mappings. Matem. Sbornik, 14 p. To appear.
42. *Zagryadskii O.A., Kudryavtseva E.A., and Fedoseev D.A.* (2011): The generalization of a problem of Bertrand to surfaces of revolution. Matem. Sbornik, 38 p. To appear.
43. *Kudryavtseva, E.A.* (2012): Special framed Morse functions on surfaces. Vestnik Moskov. Univ. Ser. I Mat. Mekh., 8 p. To appear. arXiv:1106.3116v1

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45. *Gerver, M. L. and Kudryavtseva, E. A.* (1995): On the Boundary of the set of Solutions in travel Time Inversion and on Extremal Properties of Waveguides With a Finite Number of Layers. IUGG XXI General Assembly. Abstracts. Week B. Boulder, Colorado, July 2-14, 1995, p. B10 (UB31B-7).
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48. *Kudryavtseva E.A.* (2001): Periodic solutions of the N -body problem and applications to planet systems with satellites. International conference “Differential equations and related topics” dedicated to the Centenary Anniv. of Ivan G. Pterovskii. XX joint session of Petrovskii Seminar and Moscow Math. Soc. Book of abstracts. Moscow, May 22-27, 2001. Moscow M.V.Lomonosov State University, V.A.Steklov Mathematical Institute RAS. P. 221-222.
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50. *Kudryavtseva E.A.* (2011): On the topology of the spaces of Morse functions on surfaces. International conference “Differential equations and related topics” dedicated to Ivan G. Pterovskii. XXIII joint session of Petrovskii Seminar and Moscow Math. Soc. Book of abstracts. Moscow, May 30 - June 4, 2011. Moscow M.V.Lomonosov State University, V.A.Steklov Mathematical Institute RAS. P. 69-71.