

Sergei Yakovenko

Complete Publications List from MathSciNet

Published papers and books

(until May 28, 2017, in the reverse chronological order)¹

- [1] S. Yakovenko, *Geometry of Polynomial Differential Equations*, European Mathematical Society Newsletter **99** (March, 2016), 26–35, available at <https://yakovenko.files.wordpress.com/2016/02/geometry.pdf>. MR3468642
- [2] S. Tanny and S. Yakovenko, *On Local Weyl Equivalence of Higher Order Fuchsian Equations*, Arnold Mathematical Journal **1** (May 8, 2015), no. 2, 141–170, DOI 10.1007/s40598-015-0014-6, available at <http://arxiv.org/abs/1412.7830>.
- [3] A. L. Seigal and S. Yakovenko, *Local dynamics of intersections: V. I. Arnold's theorem revisited*, Israel J. of Mathematics **201** (2014), no. 2, 813–833, DOI 10.1007/s11856-014-1065-4, available at <http://arxiv.org/abs/1303.0472>.
- [4] G. Binyamini, D. Novikov, and S. Yakovenko, *Quasialgebraic functions*, Algebraic Methods in Dynamical Systems (T. Crespo and Z. Hajto, ed.), Banach Center Publications, vol. 94, 2011, DOI 10.4064/bc94-0-3, (to appear in print), available at <http://arxiv.org/abs/1108.1847>. MR2882613
- [5] G. Binyamini, D. Novikov, and S. Yakovenko, *On the number of zeros of Abelian integrals: A constructive solution of the infinitesimal Hilbert sixteenth problem*, Inventiones Mathematicae **181** (2010), no. 2, 227–289, DOI 10.1007/s00222-010-0244-0, available at <http://arxiv.org/abs/0808.2952>. MR2657426 (2011m:34089)

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- [8] S. Yakovenko, *Oscillation of linear ordinary differential equations: on a theorem of A. Grigoriev*, J. Dyn. Control Syst. **12** (2006), no. 3, 433–449, available at <http://arxiv.org/abs/math/0409198>. MR2233029 (2007b:34083)
- [9] S. Yakovenko, *Quantitative theory of ordinary differential equations and the tangential Hilbert 16th problem*, On finiteness in differential equations and Diophantine geometry, CRM Monogr. Ser., vol. 24, Amer. Math. Soc., Providence, RI, 2005, pp. 41–109, available at <http://arxiv.org/abs/math/0104140>. MR2180125 (2006g:34062)
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- [11] D. Anosov, V. Arnold, A. Glutsyuk, A. Gorodetski, V. Kaloshin, A. Katok, A. Khovanskii, S. Lando, A. Sossinsky, M. Tsfasman, and S. Yakovenko, *Yulij S. Ilyashenko*, Mosc. Math. J. **5** (2005), no. 1, front matter. MR2153463
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Some unpublished manuscripts and theses written under my supervision

- [1] S. Yakovenko, *Selected commentaries to Arnol'd problems*, extracted from [Arnol'd Problems](#), 2nd edition, Springer (Berlin) and Phasis (Moscow), 2004.
- [2] M. Roitman, *Critical points of the period function for the Newtonian system with a polynomial potential*, M. Sc. thesis, Weizmann Institute of Science, 1995. (Advisor: S. Yakovenko).
- [3] D. Novikov, *Oscillation of functions defined by systems of ordinary differential equations*, Ph. D. thesis (extended introduction), Weizmann Institute of Science, 1998. (Advisor: S. Yakovenko).
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