

## Publication List, Sergey Tikhomirov

1. *Gurevich P., Tikhomirov S.* Rattling in spatially discrete diffusion equations with hysteresis, submitted, <http://arxiv.org/abs/1601.05728>
2. *Curran M., Gurevich P., Tikhomirov S.* Recent advances in reaction-diffusion equations with non-ideal relays. *Control of Self-Organizing Nonlinear Systems*, Springer-Verlag, 2016, 211-234.
3. *Gurevich P., Tikhomirov S.* Spatially discrete reaction-diffusion equations with discontinuous hysteresis, submitted, <http://arxiv.org/abs/1504.02385>
4. *Gan S., Li M., Tikhomirov S.* Oriented shadowing property and  $\Omega$ -stability for vector fields // *J. Dynam. Differential Equations* 28 (2016), no. 1, 225-237.
5. *Tikhomirov S.* An example of a vector field with the oriented shadowing property. // *Journal of Dynamics and Control Systems*, 21 (2015), no. 4, 643-654.
6. *Tikhomirov S.* Shadowing in linear skew products // *Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. (POMI)*, 432 (2015), 261-273.
7. *Tikhomirov S.* Holder Shadowing on Finite Intervals.// *Ergodic Theory and Dynamical Systems*, 35 (2015), no. 06, pp. 2000-2016.
8. *Gurevich P., Tikhomirov S.* Systems of reaction-diffusion equations with spatially distributed hysteresis. // *Mathematica Bohemica* 139 (2014), No. 2, pp. 239-257.
9. *Osipov A. V., Tikhomirov S.* Shadowing in actions of finitely-generated groups. // *Dyn. Syst.* 29 (2014), no. 3, 337-351.
10. *Kryzhevich S., Tikhomirov S.* Partial hyperbolicity and central shadowing. // *Discrete and Continuous Dynamical Systems – A* 33 (2013), 2901-2909.
11. *Gurevich P., Shamin R., Tikhomirov S.* Reaction-diffusion equations with spatially distributed hysteresis.// *SIAM J. Math. Anal.* 45 (2013), no. 3, 1328-1355.
12. *Gurevich P., Tikhomirov S.* Uniqueness of transverse solutions for reaction-diffusion equations with spatially distributed hysteresis. // *Nonlinear Analysis* 75 (2012) 6610-6619.
13. *Palmer K.J., Pilyugin S. Yu., Tikhomirov S.* Lipschitz shadowing for Flows. // *J. Differential Equations* 252 (2012) 1723-1747.
14. *Gurevich P., Tikhomirov S.* Symmetric periodic solutions of parabolic problems with hysteresis. // *Journal of Dynamics and Differential Equations* 23 (2011) 923-960.
15. *Pilyugin S. Yu., Tikhomirov S.* On Lipschitz Shadowing and structural stability. // *Nonlinearity* 23 (2010) 2509-2515.
16. *Pilyugin S. Yu., Osipov A. V., Tikhomirov S.* Periodic Shadowing and  $\Omega$ -stability. // *Regul. Chaotic Dyn.* 15 (2010), no. 2-3, 404-417.
17. *Pilyugin S. Yu., Tikhomirov S.* Vector fields with the oriented shadowing property // *J. Diff. Eq.* 2010 Vol. 248. pp. 1345-1375.
18. *Pilyugin S. Yu., Tikhomirov S.* Sets of vector fields with various shadowing properties of pseudotrajectories // *Doklady RAN.* 2008. Vol. 422. N. 1. p. 30-31.
19. *Tikhomirov S.* Interiors of sets of vector fields corresponding to some classes of reparametrizations // *Vestnik St. Peterburg Univ. Math. Ser.* 1, 2008, N4, p. 90-97.

20. *Tikhomirov S.* A method for investigation of a neighborhood of a nontransverse homoclinic point of a two-dimensional diffeomorphism // Diff. Equat. and Control Processes. 2006, N1, p. 48-77.
21. *Pilyugin S. Yu., Tikhomirov S.* Shadowing in actions of some Abelian groups // Fund. Math. 2003 Vol. 179. pp. 83-96.