

**LIST OF PUBLICATIONS**  
**of the professor Mikhail Korobkov**

- [1] Jean Bourgain, Mikhail V. Korobkov, Jan Kristensen: On the Morse–Sard property and level sets of  $W^{n,1}$  Sobolev functions on  $\mathbb{R}^n$ , *Journal für die reine und angewandte Mathematik (Crelles Journal)* (Online first), DOI: <http://dx.doi.org/10.1515/crelle-2013-0002>, March 2013.
- [2] J. Bourgain, M.V. Korobkov and J. Kristensen: On the Morse–Sard property and level sets of Sobolev and BV functions, *Rev. Mat. Iberoam.* **29**, no. 1 (2013), 1–23.
- [3] M.V. Korobkov, J. Kristensen: On the Morse–Sard theorem for the sharp case of Sobolev mappings, to appear in *Indiana Univ. Math. J.*, <http://www.iumj.indiana.edu/IUMJ/Preprints/5431.pdf>.
- [4] M.V. Korobkov, K. Pileckas and R. Russo: Solution of Leray’s problem for stationary Navier–Stokes equations in plane and axially symmetric spatial domains, to appear in *Annals of Math.*, <http://annals.math.princeton.edu/articles/8861>
- [5] M.V. Korobkov, K. Pileckas and R. Russo, On the flux problem in the theory of steady Navier–Stokes equations with nonhomogeneous boundary conditions, *Arch. Rational Mech. Anal.* **207** (2013), 185–213.
- [6] M.V. Korobkov, K. Pileckas and R. Russo: Steady Navier–Stokes system with nonhomogeneous boundary conditions in the axially symmetric case, arXiv:1110.6301, to appear in *Ann. Scuola Norm. Sup. Pisa Cl. Sci.* (2015), DOI Number: 10.2422/2036-2145.201204\_003
- [7] M.V. Korobkov, K. Pileckas and R. Russo: The existence of a solution with finite Dirichlet integral for the steady Navier–Stokes equations in a plane exterior symmetric domain, *J. Math. Pures. Appl.* **101** (2014), 257–274. DOI: <http://dx.doi.org/10.1016/j.matpur.2013.06.002>
- [8] M.V. Korobkov, K. Pileckas and R. Russo, Steady Navier–Stokes system with nonhomogeneous boundary conditions in the axially symmetric case, *Comptes rendus – Mécanique* **340** (2012), 115–119.
- [9] Korobkov, M. V. Bernoulli law under minimal smoothness assumptions. *Dokl. Math.* **83** (2011), no.1, 107–110
- [10] Korobkov, M. V. Properties of  $C^1$ -smooth functions whose gradient range has topological dimension 1. *Dokl. Math.* **81** (2010), no.1, 11–13.

- [11] Korobkov, M. V. Properties of  $C^1$ -smooth mappings with a one-dimensional gradient range. *Sib. Math. J.* **50** (2009), no. 5, 874-886.
- [12] Korobkov, M. V. A criterion for the unique determination of domains in Euclidean spaces by the metric of the boundary induced by the intrinsic metric of the domain. *Siberian Advances in Math.* **20** (2010), no. 4, 256-284.
- [13] Korobkov, M. V. Necessary and sufficient conditions for the unique determination of plane domains. *Sib. Math. J.* **49** (2008), no. 3, 436-451.
- [14] Korobkov, M. V. An example of a  $C^1$ -smooth function whose gradient range is an arc with no tangent at any point. *Sib. Math. J.* **49** (2008), no. 1, 109-116.
- [15] Korobkov, M. V. Necessary and sufficient conditions for the unique determination of plane domains. *Dokl. Math.* **76** (2007), no. 2, 722-723.
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