

Опубликованные научные статьи в рецензируемых журналах:

- (1) *Исчисление Шуберта и многогранники Гельфанда-Цетлина*, (совместно с Кириченко В.А. и Смирновым Е.Ю.), Успехи математических наук, 2012. Т. 67. No. 4. С. 89–128
- (2) *Cores of topological polynomials* (joint with A. Blokh, L. Oversteegen, R. Ptacek), to appear in the Proceedings of the international conference “Frontiers of Complex Dynamics” celebrating John Milnor’s 80th Birthday, Princeton University Press
- (3) *Captures, matings and regluing* (joint with I. Mashanova), to appear in the Annales de Toulouse
- (4) *Planarizations and linear webs of conics*, to appear in the Mathematical Research Letters.
- (5) *Powerful facets* (joint with Dusa McDuff and Susan Tolman), an Appendix to *Polytopes with mass linear functions, part I*, by D. McDuff and S. Tolman, Int. Math. Res. Notes **8** (2010), pp. 1506–1574
- (6) *Многогранники и уравнения* (совместно с Хованским А.Г.), Математическое просвещение. Сер. 3, **14** (2010) с. 30–57
- (7) *Topological regluing of rational functions*, Inventiones mathematicae, **179** (2009) Vol. 3. pp. 461–506
- (8) *The external boundary of M_2* , Fields Institute Communications Vol. **53** (2008): “Holomorphic Dynamics and Renormalization, A Volume in Honour of John Milnor’s 75th Birthday”, 225–267
- (9) *Rectifiable pencils of conics*, Moscow Mathematical Journal **7** (2007), no. 3, 561–570
- (10) *On binary quadratic forms with semigroup property*, (joint with Francesca Aicardi), Proceedings of Steklov Institute **258** (2007), the volume dedicated to the 70th birthday of V. Arnold
- (11) *Maps That Take Lines To Circles, in Dimension 4*, Functional Analysis and its Applications **40** (2006), no. 2, 108–116,
- (12) *Circles and quadratic maps between spheres*, Geometriae Dedicata **115** (2005), pp. 19–32,
- (13) *Circles and Clifford algebras*, Functional Analysis and its Applications, **38** (2004), No. 1, 45–51,
- (14) *Kähler metrics whose geodesics are circles*, Proceedings of the Conference “Fundamental Mathematics Today”, Ed. S.K. Lando and O.K. Sheinman, pp. 284–293
- (15) *Rectification of circles and quaternions*, Michigan Mathematical Journal, **51** (2003), 153–167
- (16) *On polytopes that are simple at the edges*, Functional Analysis and its Applications, **35**, No. 3 (2001), 189–198
- (17) *An analogue of the Hodge-Riemann relations for simple polytopes*, Russian Mathematical Surveys, **54**, No.2 (1999), 381–426
- (18) *Mixed Hodge-Riemann relations in linear context*, Functional Analysis and its Applications, **32**, No. 4 (1999), 268–272

Препринты:

- (1) *Partial holomorphic semiconjugacies between rational functions.*
- (2) *Moore’s theorem.*
- (3) *On partial semi-conjugacies of quadratic polynomials,*
- (4) *Variations on the Tait-Kneser theorem* (joint with Sergei Tabachnikov),

Книги и популярные статьи:

- (1) *Osculating curves: around the Tait-Kneser Theorem* (joint with E. Ghys, S. Tabachnikov), to appear in the Mathematical Intelligencer.

- (2) *Арифметические треугольники*, Квант, **6** (2008)
- (3) *Прямая Сильвестра* (совместно с С. Табачниковым), Квант, **5** и **6** (2009). с. 2–6 и 6–9
- (4) *Комбинаторика выпуклых многогранников*, МЦНМО Москва, 2002