

PUBLICATIONS**RECENT PREPRINTS**

- [1] (with O. Karpenkov, K. Serhiyenko, P. Tumarkin) *3D Farey graph, lambda lengths and SL_2 -tilings*, arXiv:2306.17118 .
- [2] *Ptolemy relation and Friends*, <https://amathr.org/ptolemy-relation-and-friends/AMR> review, arXiv:2302.06379.

PUBLISHED PAPERS

- [3] (with P. Tumarkin) *Cluster algebras of finite mutation type with coefficients*, accepted to Journal of Combinatorial Algebra.
- [4] (with P. Lampe) *Exchange graphs for mutation-finite non-integer quivers*, Journal of Geometry and Physics, (2023) 188, 29 pages.
- [5] (with P. Tumarkin) *Mutation-finite quivers with real weights*, Forum of Mathematics, Sigma (2023) 11: e9, 22 pages.
- [6] (with I. Canakci, A. Garcia Elsener, P. Tumarkin) *Friezes for a pair of pants*, Seminaire Lotharingien de Combinatoire (2022) 86B: 32, 12 pages.
- [7] (with J. W. Lawson, M. Shapiro and P. Tumarkin) *Cluster algebras from surfaces and extended affine Weyl groups*, Transform. Groups. 26 (2021), 501–535.
- [8] (with I. Canakci) *Infinite rank surface cluster algebras*, Advances in Mathematics 352 (2019): 862–942.
- [9] (with P. Tumarkin) *Geometry of mutation classes of rank 3 quivers*, Arnold Mathematical Journal, (2019) 5(1): 37–55.
- [10] (with P. Tumarkin) *Acyclic cluster algebras, reflection groups and curves on a punctured disc*, Advances in Mathematics 340 (2018) 855–882.
- [11] (with P. Tumarkin) *Bases for cluster algebras from orbifolds*, Advances in Mathematics, 318 (2017), 191–232.
- [12] (with S. Natanzon) *Double pants decompositions revisited*. Moscow Math. J., 17(1): 51–58.
- [13] (with P. Tumarkin) *Coxeter groups, quiver mutations and geometric manifolds*, J. London Math. Soc., 94 (2016), 38–60.
- [14] (with P. Tumarkin) *Coxeter groups and their quotients arising from cluster algebras*, Int. Math. Res. Notices (2016), 5135–5186.
- [15] (with J. Fintzen and P. Tumarkin) (2014). *Reflection subgroups of odd-angled Coxeter groups*. Journal of Combinatorial Theory, Series A 126 (2014), 92–127.
- [16] (with M. Shapiro, H. Thomas and P. Tumarkin) *Growth rate of cluster algebras*. Proc. London Math. Soc. 109 (2014), 653–675.
- [17] (with P. Tumarkin) *Essential hyperbolic Coxeter polytopes*. Israel Journal of Mathematics 199 (2014), 113–161.
- [18] (with M. Shapiro and P. Tumarkin) *Cluster algebras and triangulated orbifolds*. Advances in Mathematics 231 (2012), 2953–3002.

- [19] (with S. Natanzon) *Moduli via double pants decompositions*. Differential Geometry and its Applications 30 (2012), 490–508.
- [20] (with M. Shapiro and P. Tumarkin) *Cluster algebras of finite mutation type via unfoldings*. Int. Math. Res. Notices 8 (2012), 1768–1804.
- [21] (with M. Shapiro and P. Tumarkin) *Skew-symmetric cluster algebras of finite mutation type*. J. Eur. Math. Soc. 14 (2012), 1135–1180.
- [22] (with P. Tumarkin) *Hyperbolic subalgebras of hyperbolic Kac-Moody algebras*. Transform. Groups 17 (2012), 87–122.
- [23] (with S. Natanzon) *Labeled double pants decompositions*. Moscow Math. J. 11 (2011), 505–519.
- [24] (with S. Natanzon) *Double pants decompositions of 2-surfaces*. Moscow Math. J. 11 (2011), 231–258.
- [25] (with M. D. Sikiric and P. Tumarkin) *Automorphism group of root systems matroids*. Europ. J. Combin 32 (2011), 383–389.
- [26] (with P. Tumarkin) *Reflection subgroups of Coxeter groups*. Trans. Amer. Math. Soc. 362 (2010), 847–858.
- [27] (with P. Tumarkin) *On Coxeter polytopes with a unique pair of disjoint facets*. J. Combin. Theory A 116 (2009), 875–902.
- [28] (with A. Retakh and P. Tumarkin) *Regular subalgebras of affine Kac-Moody algebras*. J. Phys. A: Math. Theor. 41 (2008) 365204 (16pp).
- [29] (with P. Tumarkin) *On Coxeter polytopes with mutually intersecting facets*. J. Combin. Theory A 115 (2008), 121–146.
- [30] (with P. Tumarkin) *On compact hyperbolic d -polytopes with $d + 4$ facets*. Trans. Moscow Math. Soc. 69 (2008), 105–151.
- [31] (with P. Tumarkin) *On simple ideal Coxeter hyperbolic polytopes*. Izv. Math. 72 (2008), 113–126.
- [32] (with P. Tumarkin) *Euclidean simplices generating discrete reflection groups*. Europ. J. Combin. 28 (2007), 1056–1067.
- [33] (with P. Tumarkin and T. Zehrt) *On hyperbolic Coxeter n -polytopes with $n + 2$ facets*. Adv. Geom. 7 (2007), 177–189.
- [34] (with P. Tumarkin) *Reflection subgroups of Euclidean reflection groups*. Sb. Math. 196 (2005), 1349–1369.
- [35] *Coxeter decompositions of hyperbolic tetrahedra*. J. Math. Sci. 128 (2005), 3504–3514.
- [36] *Coxeter decompositions of hyperbolic pyramids and triangular prisms*. Math. Notes 75 (2004), 583–593.
- [37] *Lambert cube generating a discrete reflection group*. Math. Notes 75 (2004), 250–258.
- [38] *Spherical simplices generating discrete reflection groups*. Sb. Math. 195 (2004), 585–598.
- [39] (with P. Tumarkin) *Reflection subgroups of reflection groups*. Funct. Anal. Appl. 38 (2004), 313–314.
- [40] *Coxeter decompositions of spherical simplices with fundamental dihedral angles*. Russian Math. Surveys 57 (2002), 420–421.

- [41] *Coxeter decompositions of hyperbolic simplices*. Sb. Math. 193 (2002), 1867–1888.
- [42] *Coxeter decompositions of hyperbolic polygons*. Europ. J. Combin. 19 (1998), 801–817.
- [43] *On Thurston signatures*. Russian Math. Surveys 52 (1997), 826–827.

OTHER PREPRINTS

- [44] (with P. Tumarkin) *A series of word-hyperbolic Coxeter groups*. arxiv:math.GR/0507389.
- [45] (with P. Tumarkin) *Three symmetries groups*. Bielefeld, no. 98-104.