

Publication List

1. G. Mikhalkin, *Congruences for real algebraic curves on an ellipsoid*, Zapiski Nauchn. Seminarov LOMI, **193** (1991), 90-100 (Russian); Advances in Soviet Mathematics, **18** (1994), 223-233 (English translation).
2. G. Mikhalkin, *Extensions of Rokhlin's congruence for curves on surfaces*, Lect. Notes in Mathematics, **1524** (1992), 372-377.
3. A. Degtyarev, S. Finashin and G. Mikhalkin, *Generalized Pin-Structures and some applications to low-dimensional topology*, Advances in Soviet Mathematics, **18** (1994), 55-85.
4. G. Mikhalkin, *Complex separation of real surfaces and extensions of Rokhlin congruence*, Invent. Math. **118** (1994), 197-222.
5. G. Mikhalkin, *A proof of the topological Nash conjecture in dimension 4*, Turkish J. Math., **18** (1994), 53-59.
6. G. Mikhalkin, *Surfaces in the neighborhoods of other surfaces in 4-manifolds*, Turkish J. Math., **19** (1995), 201-206.
7. G. Mikhalkin, *Surfaces of small genus in connected sums of $\mathbb{C}P^2$ and real algebraic curves with many nests in $\mathbb{R}P^2$* , Contemp. Math., **182** (1995), 73-82.
8. G. Mikhalkin, *Visible contours of cubic surfaces in $\mathbb{R}P^3$* , Preprint Max-Planck-Institute, Bonn 1995.
9. G. Mikhalkin, M. Polyak, *Whitney formula in higher dimensions*, J. Differential Geom. **44** (1996), no. 3, 583-594.
10. S. Finashin, G. Mikhalkin, *A (-86) -sphere in the $K3$ surface*, Turkish J. Math. **21** (1997), no. 1, 129-131.
11. G. Mikhalkin, *J -holomorphic curves in almost complex surfaces do not always minimize the genus*, Proc. Amer. Math. Soc. **125** (1997), no. 6, 1831-1833.
12. G. Mikhalkin, *Adjunction inequality for real algebraic curves*, Math. Res. Lett. **4** (1997), no. 1, 45-52.
13. G. Mikhalkin, *Blowup equivalence of smooth closed manifolds*, Topology **36** (1997), no. 1, 287-299.

14. G. Mikhalkin, *Topology of curves of degree 6 on cubic surfaces in $\mathbb{R}P^3$* , J. Algebraic Geom. **7** (1998), no. 2, 219-237.
15. G. Mikhalkin, *Birational equivalence for smooth manifolds with boundary*, Algebra i Analiz 11 (1999), no. 5, 152-165. (English translation in St.Petersburg Math. J. **11** (2000), 827-836.)
16. G. Mikhalkin, *Real algebraic curves, moment map and amoebas*, Ann. of Math. (2) **151** (2000), no. 1, 309-326.
17. G. Mikhalkin, H. Rullgård *Amoebas of maximal area*, Internat. Math. Res. Notices **9** 2001:9, 441-451.
18. G. Mikhalkin, *Amoebas of algebraic varieties*, a report for the Real Algebraic and Analytic Geometry congress, June 2001, Rennes, France, <http://arxiv.org/math.AG/0108225>.
19. G. Mikhalkin, *Counting curves via lattice paths in polygons*, C. R. Math. Acad. Sci. Paris **336** (2003), no. 8, 629-634.
20. G. Mikhalkin, *Decomposition into pairs-of-pants for complex algebraic hypersurfaces*, Topology **43/5** (2004), 1035-1065.
21. G. Mikhalkin, *Amoebas of algebraic varieties and tropical geometry*, <http://arxiv.org/abs/math.AG/0403015>, in *Different Faces of Geometry*, International Mathematical Series , Vol. 3 (Donaldson, Simon; Eliashberg, Yakov; Gromov, Mikhael (Eds.)) 2004, 257-300.
22. G. Mikhalkin, *Enumerative tropical algebraic geometry in \mathbb{R}^2* , J. of Amer. Math. Soc. **18** (2005), 313-377.
23. G. Mikhalkin, *Tropical Geometry and its application*, Proceedings of the ICM 2006 Madrid, Spain, 827-852.
24. I. Itenberg, G. Mikhalkin, E. Shustin, *Lectures on Tropical Algebraic Geometry*, book 107 pages, Oberwolfach Seminars, Birkhäuser, 2007.
25. G. Mikhalkin, *What is a tropical curve?* Notices of the American Mathematical Society, **54** (2007), 511-513.
26. G. Mikhalkin, A. Okounkov, *Geometry of planar log-fronts*, Moscow Math. J. **7** (2007), 507-531.
27. G. Mikhalkin, *Moduli spaces of rational tropical curves*, Proceedings of the 13th Gökova Geometry-Topology conference, 39-51,

<http://arxiv.org/abs/0704.0839>.

28. E. Brugallé, G. Mikhalkin, *Enumeration of curves via floor diagrams*, C. R. Math. Acad. Sci. Paris **345** (2007), 329-334.
29. G. Mikhalkin, *Introduction to Tropical Geometry (notes from the IMPA lectures in Summer 2007)*, <http://arxiv.org/abs/0709.1049>.
30. G. Mikhalkin, I. Zharkov, *Tropical curves, their Jacobians and Theta functions*, in “Curves and Abelian Varieties” (V. Alexeev, A. Beauville, H. Clemens and E. Izadi (Eds.)), Contemporary Math 465 (2008), AMS, 203–230.
31. G. Mikhalkin, *What are tropical counterparts of algebraic varieties?*, Oberwolfach Report 26/2008, 36–38,
http://www.mfo.de/programme/schedule/2008/24/OWR_2008_26.pdf.
32. E. Brugallé, G. Mikhalkin, *Floor decompositions of tropical curves: the planar case*, Gökova Geometry/Topology Conference (GGT), Gökova 2009, 64-90.
33. S. Fomin, G. Mikhalkin, *Labeled floor diagrams for plane curves*, J. of the European Math. Soc. **12** (2010), pp. 1453-1496
34. B. Bertrand, E. Brugallé, G. Mikhalkin, *Tropical open Hurwitz numbers*, Rend. Semin. Mat. Univ. Padova 125 (2011), 157-171.
35. G. Mikhalkin, *Informal discussion: Enumeration of real elliptic curves*, Mathematisches Forschungsinstitut Oberwolfach Report No. 20/2011 DOI: 10.4171/OWR/2011/20, 43-46.
36. I. Itenberg, G. Mikhalkin, *Geometry in the tropical limit*, Mathematische Semesterberichte 59 (2012), 57-73.
37. I. Itenberg, G. Mikhalkin, *On Block-Göttsche multiplicities for planar tropical curves*, IMRN 23 (2013), 5289-5320.
38. B. Bertrand, E. Brugallé, G. Mikhalkin, *Genus 0 characteristic numbers of the tropical projective plane*, Compositio Math. 150 (2014), 46-104.