

Schriftenverzeichnis / List of publications

Alex Küronya

RESEARCH PAPERS

1. Dave Anderson, Alex Küronya, Victor Lozovanu: Okounkov bodies of finitely generated divisors, *International Mathematics Research Notices* 2013; doi: 10.1093/imrn/rns286.
2. Alex Küronya, Victor Lozovanu, Catriona Maclean: Volume functions of linear series, *Mathematische Annalen*, doi: 10.1007/s00208-012-0859-0.
3. Anne-Sophie Kaloghiros, Alex Küronya, Vladimir Lazić: Finite generation and geography of models, *preprint*, [arXiv:1202.1164v2](https://arxiv.org/abs/1202.1164v2), to appear in "Minimal models and extremal rays", Advanced Studies in Pure Mathematics, Mathematical Society of Japan, Tokyo
4. Alex Küronya: Positivity of restrictions on subvarieties and vanishing of higher cohomology, *Annales de l'Institut Fourier* **63** (2013).
5. Th. Bauer, B. Harbourne, A. Küronya, A. L. Knutsen, S. Müller-Stach, X. Roulleau, T. Szemberg: Negative curves on algebraic surfaces, to appear in the *Duke Mathematical Journal*.
6. Alex Küronya, Catriona Maclean: Zariski decompositions of b -divisors, *Math. Zeitschrift*, doi: 10.1007/s00209-012-1012-1, 2013.
7. Th. Bauer, C. Bocci, S. Cooper, S. Di Rocco, B. Harbourne, K. Jabbusch, A. Küronya, A. L. Knutsen, R. Miranda, H. Schenk, T. Szemberg, Z. Teitler: Recent developments and open problems in the theory of linear series, In "Contributions to Algebraic Geometry", 93–140, IMPANGA Lecture Notes (Piotr Pragacz, ed.), EMS Series of Congress Reports, edited by the European Mathematical Society Publishing House 2012.
8. Alex Küronya, Victor Lozovanu, Catriona Maclean: Convex bodies appearing as Okounkov bodies of divisors, *Advances in Mathematics* **229** (2012), 2622–2639.
9. Tommaso de Fernex, Alex Küronya, Robert Lazarsfeld: Higher cohomology of divisors on a projective variety, *Mathematische Annalen* **337** No. 2. (2007), 443–455.
10. Alex Küronya, Alexandre Wolfe: A Briançon–Skoda type theorem for graded systems of ideals, *Journal of Algebra* **307** No. 2. (2007), 795–803.
11. Alex Küronya: Asymptotic cohomological functions on projective varieties, *American Journal of Mathematics* **128** No. 6. (2006) 1475–1519.
12. Milena Hering, Alex Küronya, Samuel Payne: Asymptotic cohomological functions of toric divisors, *Advances in Mathematics* **207** No. 2. (2006) 634–645.

13. Thomas Bauer, Alex Küronya, Tomasz Szemberg: Zariski decompositions, volumes, and stable base loci, *Journal für die reine und angewandte Mathematik* **576** (2004), 209–233.
14. Alex Küronya: A divisorial valuation with irrational volume, *Journal of Algebra* **262** (2003), 413–423.
15. Willem de Graaf, Gábor Ivanyos, Alex Küronya, Lajos Rónyai: Computing Levi decompositions in Lie algebras, *Applicable Algebra in Engineering, Communication and Computing* **8** (1997), 291–304.

RESEARCH PAPERS SUBMITTED FOR PUBLICATION

16. Marcin Dumnicki, Alex Küronya, Catriona Maclean, Tomasz Szemberg: Seshadri constants via Okounkov functions and the Segre–Harbourne–Gimigliano–Hirschowitz conjecture, *preprint*, arXiv:1304.0249
17. Alex Küronya, Catriona Maclean, Tomasz Szemberg: Functions on Okounkov bodies coming from geometric valuations (with an Appendix by Sébastien Boucksom), *preprint*, arXiv:1210.3523v1

LECTURE NOTES

1. Alex Küronya: Introduction to topology, *lecture notes for the Budapest Semesters in Mathematics*, 2009, 102pp.
2. Alex Küronya: Introduction to algebraic combinatorics (in Hungarian), *electronic lecture notes*, 2011, 167 pp.

THESES

1. Alex Küronya: Partial positivity concepts in projective geometry, *Habilitationsschrift*, Albert-Ludwigs-Universität Freiburg, 2011.
2. Alex Küronya: Asymptotic cohomological functions on projective varieties, *PhD Thesis in Pure Mathematics*, University of Michigan, 2004.
3. Alex Küronya: Algorithmic questions in Lie algebras, MSc. *Thesis in Pure Mathematics*, Eötvös University, 1998.
4. Alex Küronya: Computing Levi decompositions of Lie algebras, MSc. *Thesis in Technical Informatics*, BUTE, 1995.

OTHER PUBLICATIONS

1. Alex Küronya, Victor Lozovanu, Catriona Maclean: Examples of Okounkov bodies, 2011, *preprint* (contains additional computations and background material to the research paper 7.).
2. Alex Küronya, Victor Lozocanu, Catriona Maclean: Arithmetic properties of volumes of divisors, *Oberwolfach Report* No. 45/2010
3. Alex Küronya, Catriona Maclean: Okounkov bodies in low dimensions, *Oberwolfach Report* No. 21/2009, 1139–1142
4. Alex Küronya: Shokurov’s reduction theorem to pre-limiting flips, 2008, *preprint* (an extended version of a talk given at a study seminar at the Universität Duisburg–Essen on the work of Hacon and McKernan).
5. Alex Küronya, Endre Szabó: Rational pullback and similarity of divisor classes, 2007, *preprint* (contains hard-to-find details on the pullback of divisors along rational maps).
6. Alex Küronya: An informal introduction to the minimal model program, 2007, *preprint* (a largely extended version of an introductory talk given at a study seminar at the Universität Duisburg–Essen on the work of Hacon and McKernan).