Publications

Updated, October 10, 2010

1. Shokurov's ACC Conjecture for log canonical thresholds on smooth varieties (with T. de Fernex and L. Ein), Duke Math. J. **152** (2010), 93–114.
2. Positivity for toric vector bundles (with M. Hering and S. Payne), Ann. Inst. Fourier (Grenoble) **60** (2010), 607–640.
3. Toward an inductive description of singularities of pairs, to appear in J. Alg. Geom.
4. F-thresholds of hypersurfaces (with M. Blickle and K. E. Smith), Trans. Amer. Math. Soc. **361** (2009), 6549–6565.
5. Convex bodies associated to linear series (with R. Lazarsfeld), Ann. Sci. École Norm. Sup.(4) **42** (2009), 783–835.
6. T. de Fernex and M. Mustaţă, Limits of log canonical thresholds, Annales Sci. École Norm. Sup. (4) **42** (2009), 491–515.
7. L. Ein, R. Lazarsfeld, M. Mustaţă, M. Nakamaye and M. Popa, Restricted volumes and base loci of linear series, Amer. J. Math. **131** (2009), 571–605.
8. Generically finite morphisms and formal neighborhoods of arcs (with L. Ein), Geom. Dedicata **139** (2009), 331–335.
9. Test ideals vs. multiplier ideals (with K. Yoshida), Nagoya Math. J. **193** (2009), 111–128.
10. Bernstein-Sato polynomials in positive characteristic, J. Algebra **321** (2009), 128–151.
11. Jet schemes and singularities (with L. Ein), in *Algebraic geometry—Seattle 2005, Part 2*, 505–546, Proc. Sympos. Pure Math., **80**, Part 2, Amer. Math. Soc., Providence, RI, 2009.
12. Discreteness and rationality of F-thresholds (with M. Blickle and K. E. Smith), Special volume in honor of Melvin Hochster, Michigan Math. J. **57** (2008), 43–61.
13. F-thresholds, tight closure, integral closure, and multiplicity bounds (with C. Huneke, S. Takagi, and K.-i.Watanabe), Special volume in honor of Melvin Hochster, Michigan Math. J. **57** (2008), 463–483.
14. On Igusa zeta functions for monomial ideals (with J. Howald and C. Yuen), Proc. Amer. Math. Soc. **135** (2007), 3425–3433.
15. Invariants of singularities of pairs (with L. Ein), *International Congress of Mathematicians*, Vol. II, 583–602, Eur. Math. Soc., Zürich, 2006.

16. Multiplier ideals of hyperplane arrangements, Trans. Amer. Math. Soc. **358** (2006), 5015–5023.

17. Asymptotic invariants of base loci (with L. Ein, R. Lazarsfeld, M. Nakamaye and M. Popa), Ann. Inst. Fourier (Grenoble) **56** (2006), 1701–1734.

18. Combinatorial description of the roots of the Bernstein-Sato polynomials for monomial ideals (with N. Budur and M. Saito), Comm. Algebra **34** (2006), 4103–4117.

19. Bernstein-Sato polynomials of arbitrary varieties (with N. Budur and M. Saito), Compos. Math. **142** (2006), 779–797.

20. Roots of Bernstein-Sato polynomials for monomial ideals: a positive characteristic approach (with N. Budur and M. Saito), Math. Res. Lett. **13** (2006), 125–142.

21. Ehrhart polynomials and stringy Betti numbers (with S. Payne), Math. Ann. **333** (2005), 787–795.

22. Asymptotic invariants of line bundles (with L. Ein, R. Lazarsfeld, M. Nakamaye and M. Popa) Pure Appl. Math. Q. **1** (2005), 379–403.

23. F-thresholds and Bernstein-Sato polynomials (with S. Takagi and K.-i. Watanabe), European Congress of Mathematics, 341–364, Eur. Math. Soc., Zürich, 2005.

24. Inversion of adjunction for local complete intersection varieties (with L. Ein), Amer. J. Math. **126** (2004), 1355–1365

25. Contact loci in arc spaces (with L. Ein and R. Lazarsfeld), Compos. Math. **140** (2004), 1229–1244.

26. Multiplicities and log canonical threshold (with L. Ein and T. de Fernex), J. Alg. Geom. **13** (2004), 603–615.

27. Universal rational parametrizations and toric varieties (with D. Cox and R. Krasauskas) in *Topics in algebraic geometry and geometric modeling*, 241–265, Contemp. Math., 334, Amer. Math. Soc., Providence, RI, 2003.

28. Jet schemes, log discrepancies and Inversion of Adjunction (with L. Ein and T. Yasuda), Invent. Math. **153** (2003), 119–135.

29. Divisors on $\mathcal{M}_{g,g+1}$ and the minimal resolution conjecture for points on canonical curves (with G. Farkas and M. Popa), Ann. Sci. École Norm. Sup. (4) **36** (2003), 553–581.

30. Bounds for log canonical thresholds with applications to birational rigidity (with T. de Fernex and L. Ein), Math. Res. Lett. **10** (2003), 219–236.

31. On multiplicities of graded sequences of ideals, J. Algebra **256** (2002), 229–249.

32. Singularities of pairs via jet schemes, J. Amer. Math. Soc. **15** (2002), 599–615.
33. The multiplier ideals of a sum of ideals, Trans. Amer. Math. Soc. **354** (2002), 205–217.
34. Vanishing theorems on toric varieties, Tohôku Math. J.(2) **54** (2002), 451–470.
35. Jet schemes of locally complete intersection canonical singularities (with an appendix by D. Eisenbud and E. Frenkel), Invent. Math. **145** (2001), 397–424.
36. The module of logarithmic p-forms of a locally free arrangement (with H. Schenck), J. Algebra **241** (2001), 699–719.
37. D-modules on smooth toric varieties (with G. Smith, H. Tsai and U. Walther), J. Algebra **240** (2001), 744–770.
38. Cohomology on toric varieties and local cohomology with monomial supports (with D. Eisenbud and M. Stillman), J. Symbolic Comput. **29** (2000) 583–600.
39. Local cohomology at monomial ideals, J. Symbolic Comput. **29** (2000) 709–720.
40. Graded Betti numbers of general finite subsets of points on projective varieties, Le Matematiche **LIII** (1998) Supplemento, 53–81.
41. A new proof of a theorem of A. Van de Ven (with M. Popa), Bull. Math. Soc. Sc. Math. Roum. **40(88)** (1997) 49–55.

Preprints and work in preparation

1. The Monodromy Conjecture for hyperplane arrangements (with N. Budur and Z. Teitler), preprint, math. arXiv:0906.1991.
2. Log canonical thresholds on varieties with bounded singularities (with T. de Fernex and L. Ein), preprint, arXiv:1004.3336.
3. Sequences of LCT-polytopes (with A. Libgober), preprint, arXiv:1002.4163.
4. Valuations and asymptotic invariants for sequences of ideals (with M. Jonsson), in preparation.
5. Ordinary varieties, and the comparison between multiplier ideals and test ideals (with V. Srinivas), in preparation.