

Publications

Selected mathematical publications

- J. Jorgenson, J. Kramer: [Towards the arithmetic degree of line bundles on abelian varieties](#). Manuscripta Math. 96 (1998), 335-370.
- J. Jorgenson, J. Kramer: [Star products of Green's currents and automorphic forms](#). Duke Math. J. 106 (2001), 553-580.
- J. Jorgenson, J. Kramer: [Bounds for special values of Selberg zeta functions of Riemann surfaces](#). J. reine angew. Math. 541 (2001), 1-28.
- J. Jorgenson, J. Kramer: [On the error term of the prime geodesic theorem](#). Forum Math. 14 (2002), 901-913.
- J. Jorgenson, J. Kramer: [Sup-norm bounds for automorphic forms in the cocompact case](#). Proceedings of the Japanese-German Seminar "Explicit Structures of Modular Forms and Zeta Functions", Hakuba, September 2001.
- J. Kramer, R. Salvati Manni: [An integral characterizing the Andreotti-Mayer locus](#). Abh. Math. Sem. Univ. Hamburg 72 (2002), 47-57.
- J. Jorgenson, J. Kramer: [Bounding the sup-norm of automorphic forms](#). Geom. Funct. Anal. 14 (2004), 1267-1277.
- J. I. Burgos Gil, J. Kramer, U. Kühn: [Arithmetic characteristic classes of automorphic vector bundles](#). Documenta Math. 10 (2005), 619-716.
- J. Jorgenson, J. Kramer: [Expressing Arakelov invariants using hyperbolic heat kernels](#). In: J. Jorgenson and L. Walling (eds.), "The Ubiquitous Heat Kernel". Contemp. Math. 398, 295-309. Amer. Math. Soc., Providence, RI, 2006.
- J. Jorgenson, J. Kramer: [Non-completeness of the Arakelov-induced metric on moduli space of curves](#). Manuscripta Math. 119 (2006), 453-463.
- J. Jorgenson, J. Kramer: [Bounds on canonical Green's functions](#). Compositio Math. 142 (2006), 679-700.
- J. I. Burgos Gil, J. Kramer, U. Kühn: [Cohomological arithmetic Chow rings](#). Journal of the Institute of Mathematics of Jussieu 6 (2007), 1-172.
- J. Kramer, R. Salvati Manni: [Green's currents for families of hermitian vector bundles characterizing certain vanishing loci](#). Abh. Math. Sem. Univ. Hamburg 78 (2008), 51-67.
- J. Jorgenson, J. Kramer: [Bounds on Faltings's delta function through covers](#). Ann. of Math. (2) 170 (2009), 1-43.
- J. Jorgenson, J. Kramer, A.-M. von Pippich: [On the spectral expansion of hyperbolic Eisenstein series](#). Math. Ann. 346 (2010), 931-947.
- J. S. Friedman, J. Jorgenson, J. Kramer: [An effective bound for the Huber constant for cofinite Fuchsian groups](#). Math. Comp. 20 (2011), 1163-1196.
- J. Jorgenson, J. Kramer: [Sup-norm bounds for automorphic forms and Eisenstein series](#). In: J. Cogdell et al. (eds.), "Arithmetic Geometry and Automorphic Forms". ALM 19, 407-444. Higher Education Press and International Press, Beijing-Boston, 2011.

- J. Jorgenson, J. Kramer: [A relation involving Rankin-Selberg L-functions of cusp forms and Maass forms](#). In: B. Krötz, O. Offen, E. Sayag (eds.), [Representation Theory, Complex Analysis, and Integral Geometry](#). Birkhäuser-Verlag, 2011, to appear.
- J. Kramer, A.-M. von Pippich: [Elliptic Eisenstein series for \$PSL_2\(\mathbb{Z}\)\$](#) . In: D. Goldfeld, J. Jorgenson, P. Jones, D. Ramakrishnan, K.A. Ribet, J. Tate (eds.), [Number Theory, Analysis, and Geometry. In Memory of Serge Lang](#). Springer Verlag, 2011, to appear.

Selected publications popularizing mathematics

- J. Kramer: [Über die Fermat-Vermutung](#). Elem. Math. 50 (1995), 12-25.
- J. Kramer: [Über die Fermat-Vermutung II](#). Elem. Math. 53 (1998), 45-60.
- J. Kramer: [Der große Satz von Fermat – die Lösung eines 300 Jahre alten Problems](#). In: M. Aigner and E. Behrends (eds.), "Alles Mathematik", 169-179, Vieweg Verlag, Wiesbaden 2000.
- J. Kramer: [Die Riemansche Vermutung](#). Elem. Math. 57 (2002), 90-95.
- J. Kramer: [Die Vermutung von Birch und Swinnerton-Dyer](#). Elem. Math. 57 (2002), 115-120

Selected mathematical didactical publications

- J. Kramer, G. Törner: Felix-Klein-Lehrerfortbildung Mathematik. MDMV14 (2006), 135.
- J. Kramer, E. Warmuth: Schnittstelle Schule — Hochschule: Berliner Aktivitäten zur mathematischen Bildung. MDMV 15 (2007), 228-237.
- J. Kramer: Mathematik Anders Machen — Ein Projekt der Deutsche Telekom Stiftung in Zusammenarbeit mit der Deutschen Mathematiker-Vereinigung. MGDM 83 (2007), 12-13.
- J. Kramer et al.: Standards für die Lehrerbildung im Fach Mathematik — Empfehlungen von DMV, GDM und MNU, Juni 2008. MDMV 16 (2008), 149-159.
- I. Wartenburger, H.R. Heekeren, F. Preusse, J. Kramer, E. van der Meer: Cerebral correlates of analogical processing and their modulation by training. NeuroImage 48(1) (2009), 291-302.
- E. van der Meer, R. Beyer, J. Horn, M. Foth, B. Bornemann, J. Ries, J. Kramer, E. Warmuth, H.R. Heekeren, I. Wartenburger: [Resource Allocation and Fluid Intelligence: Insights from Pupillometry](#). Psychophysiology 47(1) (2010), 158-169.

Books

- C. Soulé, D. Abramovich, J.-F. Burnol, J. Kramer: Lectures on Arakelov Geometry. Cambridge Studies in Advanced Mathematics 33. Cambridge University Press, Cambridge, 1992 & 1994.
- H. Begehr, H. Koch, J. Kramer, N. Schappacher, E.-J. Thiele (eds.): Mathematics in Berlin. Birkhäuser-Verlag, Berlin, Basel, Boston, 1998.
- J. Kramer: Zahlen für Einsteiger: Elemente der Algebra und Zahlentheorie. Vieweg Verlag, Wiesbaden, 2008.

Preprints

- J. Jorgenson, J. Kramer: On a result of Hoffstein-Lockhart. In preparation.

Miscellanea

- J. Kramer, P. Imkeller, E. Warmuth: [Das DFG-ForschungszentrumMATHEON](#). Humboldt-Spektrum 3/2006, 22-29.
- J. Kramer: [Zehn Jahre Campus Adlershof: Das Institut für Mathematik](#). Humboldt-Spektrum 2-3/2008, 42-48.
- J. Kramer: [Martin Eichler – Leben und Werk](#). In: B. Colbois, C. Riedtmann, and V. Schroeder (eds.), "math.ch/2010", 351-371. Swiss Mathematical Society. EMS Publishing House, 2010.
- H. Koch, J. Kramer: [Disziplinengeschichte Mathematik an der Humboldt-Universität zu Berlin](#).
- J. Kramer, A.-M. v. Pippich: [Irrationality of \$\sqrt{2}\$ and Arakelov Geometry](#). National Symposium on Mathematical Methods and Applications (NSMMA 2010). Dept. Math., Indian Institute of Technology Madras, Chennai, 2010.