

Selected Articles by Research Fellows

ARTUR AVILA

“Reducibility or non-uniform hyperbolicity for quasiperiodic Schrödinger cocycles,” with R. Krikorian. *Annals of Mathematics* 164 (2006), 911–940.

“Exponential mixing for the Teichmüller flow,” with S. Gouëzel and J.-C. Yoccoz. *Publications Mathématiques de l’IHÉS* 104 (2006), 143–211.

DANIEL BISS

“Large annihilators in Cayley–Dickson algebras,” with Dan Dugger & Dan Isaksen. [arXiv.org/abs/math.RA/0511691](https://arxiv.org/abs/math.RA/0511691).

“Large annihilators in Cayley–Dickson algebras II,” with Dan Christensen, Dan Dugger, and Dan Isaksen. [arXiv.org/abs/math.RA/0702075](https://arxiv.org/abs/math.RA/0702075)

MARIA CHUDNOVSKY

“The Strong Perfect Graph Theorem,” with N. Robertson, P. Seymour and R. Thomas. *Annals of Mathematics* 164 (2006), 51–229.

“The Roots of the Independence Polynomial of a Clawfree Graph,” with Paul Seymour. To appear in *Journal of Combinatorial Theory*, Ser. B. Lecture Note Series, vol. 327.

BEN GREEN

“Linear Equations in primes,” with Terence Tao. To appear in *Annals of Mathematics*.

“A quantitative version of the idempotent theorem in harmonic analysis,” with T. Sanders. To appear in *Annals of Mathematics*.

BO’AZ KLARTAG

“A central limit theorem for convex sets.” *Invent. Math.* 168, (2007), 91–131.

“An example related to Whitney extension with almost minimal Cm norm,” with Charles Fefferman. Manuscript.

CIPRIAN MANOLESCU

“A combinatorial description of knot Floer homology,” with P. Ozsváth and S. Sarkar. [arXiv.org/abs/math.GT/0607691](https://arxiv.org/abs/math.GT/0607691). Submitted to *Annals of Mathematics*.

“An unoriented skein exact triangle for knot Floer homology.” To appear in *Mathematical Research Letters*.

MARYAM MIRZAKHANI

“Simple geodesics and Weil–Petersson volumes of moduli spaces of bordered Riemann surfaces.” *Invent. Math.* 167 (2007), no. 1, 179–222.

“Random Riemann surfaces and measured laminations.” To appear in *Proceedings of the Ahlfors–Bers Colloquium*.

SAMUEL PAYNE

“Equivariant Chow cohomology of toric varieties.” *Mathematical Research Letters* 13 (2006), no. 1, 29–41.

“Ehrhart polynomials and stringy Betti numbers,” with M. Mustata. *Annals of Mathematics* 333 (2005), no. 4, 787–795.

DAVID SPEYER

“A Broken Circuit Ring,” with Nick Proudfoot. *Beiträge zur Algebra und Geometrie* 47 (2006), no. 1, 161–166.

“Computing Tropical Varieties with T. Bogart,” with A. N. Jensen, B. Sturmfels and R. R. Thomas. *Journal of Symbolic Computation* 42, Issue 1-2 (January 2007) 54–73.

ANDRÁS VASY

“Propagation of singularities for the wave equation on edge manifolds,” with R. Melrose, and J. Wunsch. Submitted for publication. Available online at [arXiv.org/abs/math.AP/0612750](https://arxiv.org/abs/math.AP/0612750).

“Propagation of singularities for the wave equation on manifolds with corners.” To appear in *Annals of Mathematics*.

AKSHAY VENKATESH

“Reflection principles and bounds for class group torsion,” with Jordan Ellenberg. To appear in *International Mathematics Research Notices*.

“The distribution of periodic torus orbits on homogeneous spaces,” with M. Einsiedler, E. Lindenstrauss, and P. Michel. [arXiv.org/abs/math.DS/0607815](https://arxiv.org/abs/math.DS/0607815).