

# Selected Articles by Research Fellows

## MODHAMMED ABOUZAID

“On the Fukaya categories of higher genus surfaces,” *Advances in Mathematics* (2007).

“Homogeneous coordinate rings and mirror symmetry for toric varieties,” *Geometry & Topology* 10 (2006), 1097–1157.

## DANIEL BISS

“Large annihilators in Cayley-Dickson algebras II,” with J. Daniel Christensen, Daniel Dugger, and Daniel C. Isaksen. Submitted Feb 4, 2007 (v1), last revised Feb 22, 2007 (this version, v2). arXiv:math/0702075v2 [math.RA].

## ARTUR AVILA

“Simplicity of Lyapunov spectra: proof of the Zorich-Kontsevich conjecture,” with M. Viana. *Acta Mathematica* 198 (2007), 1–56.

“Weak mixing for interval exchange transformations and translation flows,” with Giovanni Forni. *Annals of Mathematics* 165 (2007), 637–664.

## MARIA CHUDNOVSKY

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

“Coloring quasi-line graphs,” with Alexandra Ovetsky. *Journal of Graph Theory* Vol. 54 (2007), 41–50.

## SOREN GALATIUS

“Divisibility of the Stable Miller-Morita-Mumford Classes,” with I. Madsen, and U. Tillmann. *J. Amer. Math. Soc.* 19 (2006), no. 4, 759–779.

“The Homotopy Type of the Cobordism Category,” with I. Madsen, U. Tillmann, and M. Weiss. To appear, *Acta Math.*

## BO'AZ KLARTAG

“A Berry-Esseen type inequality for convex bodies with an unconditional basis,” Manuscript.

“Power-law estimates for the central limit theorem for convex sets.” *J. Funct. Anal.*, Vol. 245 (2007), 284–310.

## CIPRIAN MANOLESCU

“A combinatorial description of knot Floer homology,” with P. Ozsvath and S. Sarkar. To appear in the *Annals of Mathematics* (2008).

“On combinatorial link Floer homology,” with P. Ozsvath, D. Thurston, and Z. Szabo. *Geometry and Topology*, Vol. 12 (2007), 2339–2412.

## DAVESH MAULIK

“Quantum Cohomology of Hilbert schemes of points on  $A_n$  resolutions,” with A. Oblomkov. To appear.

“Gromov-Witten theory and Noether-Lefschetz theory,” with R. Pandharipande. math.AG/07051653.

“A Topological View of Gromov-Witten Theory,” with R. Pandharipande. *Topology*, Vol. 45, no. 5, 2006.

## MARYAM MIRZAKHANI

“Ergodic Theory of the Earthquake Flow.” *Int Math Res Notices* (2008) Vol. 2008.

“Ergodic Theory of the Space of Measured Laminations,” with Elon Lindenstrauss. *Int Math Res Notices* (2008) Vol. 2008.

## SOPHIE MOREL

“Complexes pondérés sur les compactifications de Baily-Borel: Le cas des variétés de Siegel.” *J. Amer. Math. Soc.* 21 (2008), 23–61 ext.

## SAMUEL PAYNE

“Toric vector bundles, branched covers of fans, and the resolution property.” To appear in *J. Algebraic Geom.* arXiv:math/0605537.

“Moduli of toric vector bundles.” To appear in *Compositio Math.* arXiv:0705.0410.

## DAVID SPEYER

“Cambrian Fans,” with Nathan Reading. To appear in *Journal of the European Mathematical Society*.

“A Kleiman-Bertini Theorem for sheaf tensor products” with Ezra Miller. *J. Algebraic Geom.* 17 (2008), 335–340.

## TERUYOSHI YOSHIDA

“Compatibility of local and global Langlands correspondences,” with Richard Taylor. *J. Amer. Math. Soc.*, 20–2 (2007), 467–493.

“Local class field theory via Lubin-Tate theory.” To appear in *Annales de la Faculté des Sciences de Toulouse*.