

Tonći Antunović

- CONTACT INFORMATION Department of Mathematics tantun@math.berkeley.edu
University of California, Berkeley, <http://www.math.berkeley.edu/~tantun/>
Berkeley, CA 94720
- EDUCATION **University of Zagreb, Croatia**
B.S. in Mathematics 09/2001 - 12/2005
Thesis: Spectral theory and Lifshitz Asymptotics for Laplace Operators on Percolation Graphs
Advisors: Ivica Nakić and Ivan Veselić
- University of California, Berkeley**
Ph.D. in Mathematics expected 05/2012
Advisors: Sourav Chatterjee and Yuval Peres
- EMPLOYMENT **University of California, Berkeley**
Graduate Student Instructor and Researcher 09/2007 - present
- Chemnitz University of Technology, Chemnitz, Germany**
Research Assistant 03/2006 - 07/2007
Mentor: Ivan Veselić
- RESEARCH INTERESTS Probability theory and applications, Stochastic processes
- AWARDS
- Silver Medal, International Mathematical Olympiad, USA, 2001
 - First Prizes, International Mathematics Competition, Macedonia 2004 and Bulgaria 2005
 - Dean's Awards, Department of Mathematics, University of Zagreb, 2004 and 2005
- PUBLICATIONS
- [1] T. Antunović, Y. Peres, S. Sheffield, S. Somersille. Tug-of-war and infinity Laplace equation with vanishing Neumann boundary condition. *Communications in Partial Differential Equations*, to appear. available at: arXiv:1109.4918 [math.AP],
- [2] T. Antunović, K. Burdzy, Y. Peres and J. Ruscher. Isolated zeros for Brownian motion with variable drift. *Electron. J. Probab.*, 16:no. 65, 1793–1815, 2011.
- [3] T. Antunović, Y. Peres and B. Vermesi. Brownian motion with variable drift can be space-filling. *Proc. Amer. Math. Soc.*, 139(9):3359–3373, 2011.
- [4] T. Antunović and I. Veselić. Equality of Lifshitz and van Hove exponents on amenable Cayley graphs. *J. Math. Pures Appl. (9)*, 92(4):342–362, 2009.
Proceedings version appeared in *Methods of spectral analysis in mathematical physics*, volume 186 of *Oper. Theory Adv. Appl.*, pages 1–29. Birkhäuser Verlag, Basel, 2009.
- [5] T. Antunović and I. Veselić. Sharpness of the phase transition and exponential decay of the subcritical cluster size for percolation and quasi-transitive graphs. *J. Stat. Phys.*, 130(5):983–1009, 2008.

PREPRINTS

[6] T. Antunović, Y. Dekel, E. Mossel and Y. Peres. Competing first passage percolation on random regular graphs. Preprint. arXiv:1109.2575 [math.PR], 42 pages

[7] T. Antunović. On permanents of random matrices with positive elements. Preprint. arXiv:1111.3454 [math.PR], 18 pages

TALKS

Probability and Mathematical Physics Seminar, University of California, Davis, November 2011.

Probability Seminar, University of California, Irvine, November 2011.

Probability and Mathematical Physics Seminar, Courant Institute NYU, March 2011.

Probability Seminar, University of Washington, October 2010.

PIMS Summer School in Probability, University of Washington, July 2010.

Statistics Seminar, Durham University, February 2007

Seminar for Structure Theory, TU Graz, November 2006

Analysis, Stochastic and Mathematical Physics Seminar, TU Chemnitz, April 2006, October 2006 and April 2007

TEACHING
EXPERIENCE

University of California, Berkeley

- Instructor for Math 53 (Multivariable Calculus) Summer 2008
- Teaching Assistant:
 - Math 54 (Linear Algebra & Differential Equations) Spring 2011
 - Math 53 (Multivariable Calculus) Spring 2008
 - Math 1A (Calculus) Fall 2007

PROFESSIONAL
SERVICE

Referee for *SIAM Journal on Mathematical Analysis*.