

# Curriculum Vitae

## Dubi Kelmer

### Personal Information

- Date of Birth: **6/11/1976**
- Place of birth: Kibbutz Beerj, Israel
- Home address: **5050** Lake shore drive **2005s**  
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- Citizenship: Israeli
- Military service: Israel Defense Forces, Nov. **1995** – Nov. **1998**

### Education

- **2003 - 2007**: Ph.D. Tel-Aviv University. Supervisor: Prof. Zeev Rudnick.
- **1999 - 2002**: BSc. Physics and Mathematics (Magna Cum Laude), The Hebrew University of Jerusalem, Israel.

### Professional Experience

- **2008 - present**: L.E Dickson Instructor of mathematics, University of Chicago.
- **2007 - 2008**: Member of the Institute for Advanced Study, Princeton.
- **2004 - 2007**: Instructor, Tel-Aviv University.
- **2002 - 2004**: Teaching Assistant, Tel-Aviv University.

### Honors

- Rothschild Fellowship **2007/8** (declined).
- The Wolf foundation research prize for PhD students, **2006**.
- Prize for Outstanding PhD Students, Tel Aviv University **2004**.
- Annual Dean's list, The Hebrew University of Jerusalem **2000, 2001**.

### Participation in Scientific Conferences

- Quantum Chaos, Random Matrices and their Applications Workshop, University of Bielfeld, May **2005**.
- Arithmetic Aspects of Random Matrices and Quantum Chaos, University of Bordeaux, January **2006**.
- Quantum chaos: routes to RMT and beyond, Banff International research Station , February **2008**.
- Workshop on Mathematical aspects of quantum chaos, CRM Montreal, June **2008**.
- Conference on Equidistribution on homogeneous spaces, The Ohio State University in Columbus Ohio, June **2008**.

## Publications and Preprints

- D. Kelmer, On the quantum variance of matrix elements for the cat map on the 4-dimensional torus, IMRN **36** (2005), 2223–2236.
- D. Kelmer, Arithmetic Quantum Unique Ergodicity for symplectic linear maps of the multidimensional torus, to appear, Ann. of Math.
- D. Kelmer, Scarring on invariant manifolds for perturbed quantized hyperbolic toral automorphisms, Comm. Math. Phys. **276** (2), 381--395 (2007).
- L. Bary-Soroker and D. Kelmer, On PAC extensions and scaled Trace forms, to appear in Israel J. Math.
- D. Kelmer, Quantum Ergodicity for products of hyperbolic planes, J. Mod. Dyn. **2** (2), 287--313 (2008).
- D. Kelmer, Scarring for Quantum Maps with Simple Spectrum, preprint (2008).
- D. Kelmer, Distribution of twisted Kloosterman sums modulo prime powers, preprint (2008)
- D. Kelmer, On matrix elements for the quantized cat map modulo prime powers, to appear in AHP (2008).
- D. Kelmer and P. Sarnak, Spectral gap for products of  $PSL(2, \mathbb{R})$  preprint 2008