

## URI BADER: CURRICULUM VITAE

### Academic studies:

The Technion, Israel      Math.      B.Sc. (summa com laude) 1999  
The Technion, Israel      Math.      Ph.D, supervised by Prof. Amos Nevo 2004

### Academic appointments:

2004-2007      L.E Dickson Instructor      University of Chicago.  
1997-2004      Teaching Assistant      The Technion.

### Visits:

2004 Jun-Aug CNRS, psote-rouge ENS-Paris, France.  
2004 May      Visitor      IHES, France.

### Publications:

#### Thesis:

*Conformal actions of simple Lie-ggroups on Pseudo-Riemannian manifolds.*  
Supervisor: Amos Nevo, 2004.

#### Articles:

- Appeared:      – U. Bader and A. Nevo, *Conformal actions of simple Lie-groups on compact pseudo-Riemannian manifolds*, Journal of Differential Geometry 60 (2002), 355-387.
- Accepted:      – U. Bader, *Conformal actions of almost simple Lie-groups on Lorentzian homogeneous spaces*, Journal of Lie-Theory.  
                    – U. Bader and Y. Shalom, *Normal sub-group theorem for lattices in products of groups.*, Inventiones Mathematicae.
- Submitted:    – U. Bader, *Conformal actions of almost simple Lie-groups on compact Lorentzian spaces*. Submitted to the Journal of Differential Geometry.  
                    – U. Bader and U. Onn, *On some representation of  $GL_n(\mathbb{Z}_p)$* . Submitted to the ERT (electronic Journal of Representation Theory of the AMS).

- In preparation:
- U. Bader and U. Onn, *Representations of finite groups on Grassmannians*. Submitted to the Journal of Algebra.
  - U. Bader, A. Furman, T. Gelander and N. Monod, *Groups with Property (T) and  $L^p$ -spaces*, Preprint.
  - U. Bader, E. Glasner and Y. Shalom, *On the category of spaces with a given quasi-factor and applications to rigidity theory.*, In preperation.
  - U. Bader and R. Muchnik, *On Negatively curved spaces and unitary representations: irreducibility and rigidity*. In preperation.
  - U. Bader and K. Melnick, *Conformal actions of nilpotent groups on pseudo-Riemannian manifolds*. In preperation.

### Collaborators:

- A. Furman (UIC).
- T. Gelander (Yale, New-Haven).
- E. Glasner (Tel-Aviv University).
- K. Melnick (University of Chicago).
- N. Monod (University of Chicago).
- R. Muchnik (University of Chicago).
- A. Nevo (the Technion, Haifa).
- U. Onn (Institut de Mathematiques de Jussieu, Paris).
- Y. Shalom (Tel-Aviv University).

### Selected seminar and colloquium talks:

- The international conference of Geometric and Combinatorial Group Theory. The Technion, June, 2000.
- The European conference in Ergodic theory, Geometric rigidity and Number theory, in the Isaac Newton institute, Cambridge, July, 2000
- Workshop on Lie-groups and Harmonic Analysis, Université Henri Poincaé, June 2001
- The 11th European summer-school in group theory, in the CIRM, Luminy, France, July, 2001.
- Work-shop on discrete sub-groups of semisimple Lie-groups, in the MIDRASHA, the Hebrew university, Israel, March, 2002.
- 23rd winter-school in Geometry and Physics, in Srni, Czech Republic, January, 2002.
- Colloquium talk at Tufts University, Sep 2003.
- A mini course taught in the Univesity of Orsay (Paris 11), May 2004.

### Teaching experience:

- I taught Vector calculus and Linear Algebra in the U. of Chicago.
- I have served as a teaching assistant in the Technion in a variety of courses, including: Calculus, topology, differential geometry, combinatorics, modern algebra, complex analysis.

- I recieved the Technion Excellence in teaching prize in the year 2000.