

Curriculum Vitae

Péter Móra

Institute of Mathematics
Budapest University of Technology and Economics
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Studies

- **Budapest University of Technology and Economics (BME)**, Budapest, Hungary
Institute of Mathematics, Phd. in Mathematics, 2008 -
- **Budapest University of Technology and Economics (BME)**, Budapest, Hungary
Institute of Mathematics, M. Sc. in Mathematics, 2003 - 2008

Research

Research interests

My main research areas are fractal geometry and dynamical systems. I made progress in the estimate of the Hausdorff measure of the Sierpinski triangle. I am interested in the theory of Bernoulli convolutions and the algebraic difference of random Cantors sets.

Publications

- Bálint Farkas, Máté Matolcsi, Péter Móra: **On Fuglede's conjecture and the existence of universal spectra**, Journal of Fourier Analysis and Applications, Volume 12, Number 5 / October, 2006, p. 483-494
- Péter Móra: **Estimate of the Hausdorff measure of the Sierpinski triangle**, Fractals, Volume: 17, Issue: 2 (2009) pp. 137-148
- Péter Móra, Károly Simon, Boris Solomyak: **The Lebesgue measure of the algebraic difference of two random Cantor sets**, Indagationes Mathematicae, Volume 20, Issue 1, March 2009, Pages 131-149
- Philippe Jaming, Máté Matolcsi, Péter Móra, Ferenc Szöllősi, Mihály Weiner: **A generalized Pauli problem and an infinite family of MUB-triplets in dimension 6**, J. Physics A: Mathematical and Theoretical, Vol. 42, Number 24, 245305, 2009.

Honours

- Excellent University Student of Faculty of Natural Science, BME (2005)
- Excellent University Student of Faculty of Natural Science, BME (2006)
- Scholarship of the Hungarian Republic for 2006/2007 semesters

Prizes

- Conference of Student Participating in Research, Budapest University of Technology and Economics, 1th prize, Commendation of the Rector (2005)
- International Mathematics Competition for University Students, Odessa, Ukraine, 3rd prize, (2006)
- National Conference of Student Participating in Research, Commendation, (2007)

Teaching experience

- Basics of Computer Sciences, seminar for electrical engineer students, BME, 2003/2004. II. semester
- Probability, seminar for electrical engineer students, BME, 2004/2005. II., 2005/2006. I., II., 2006/2007. I., 2007/2008. II., 2008/2009. II. semester
- Introduction for Computer Sciences II., seminar for mathematician students, Eötvös Loránd University, Budapest, 2006/2007. II. semester
- Computer Sciences I., lecture for mathematician students, BME, 2008/2009. I., 2009/2010. I. semester
- Basic Calculus, seminar for architecture students, BME, 2009/2010. II. semester

Visited conferences, travels

- Multifractal dimension and low dimensional systems, UK Dynamical Systems Graduate School, 8-12. January 2007, Warwick, England
- Real Analysis, Geometric Measure Theory, PDE and Banach Spaces, 17-19. August 2007., Warwick, England
- Chaotic Properties of Dynamical Systems: Dimension Theory, Thermodynamic Formalism and Non-uniformly Hyperbolic Dynamics, 20-24. August 2007., Warwick, England
- Fractal Geometry and Stochastics 4, 7-13. September 2008., Greifswald, Germany, 15 minutes talk: Estimate of the Hausdorff measure of the Sierpinski triangle
- Deterministic and Stochastic Dynamics, Fractals, Turbulence, IM PAN, May 14-18 2009, Warsaw, Poland
- New Random Geometries, 7-11 September 2009, Bath, UK
- Microsoft Research, 3 weeks (22 January-10 February), 2010, Bellevue, USA

Spoken Languages

English, Intermediate state level language exam

German, Basic state level language exam

Hungarian, mother tongue

Hobby

computer programming, riding motorbike, squash

Budapest, 6th of May, 2010.