

# TUOMAS SAHLSTEN

## *List of publications*

May 24, 2022

### SUBMITTED PREPRINTS

- (1) E. Le Masson, T. Sahlsten: *Quantum ergodicity for Eisenstein series on hyperbolic surfaces of large genus*  
Preprint at <https://arxiv.org/abs/2006.14935>, May 2022

### PEER-REVIEWED SCIENTIFIC ARTICLES

- (1) B. Kuca, T. Orponen, T. Sahlsten: *On a continuous Sárközy type problem*  
**International Mathematics Research Notices (IMRN)** (2022), to appear  
Peer-reviewed version available at <https://arxiv.org/abs/2110.15065>
- (2) T. Sahlsten, C. Stevens: *Fourier transform and expanding maps on Cantor sets*  
**American Journal of Mathematics** (2022), to appear  
Peer-reviewed version available at <https://arxiv.org/abs/2009.01703>
- (3) J. Li, T. Sahlsten: *Trigonometric series and self-similar sets*  
**Journal of the European Mathematical Society** (2022), 24(1), 341–368
- (4) G. Gilmore, E. Le Masson, T. Sahlsten, J. Thomas: *Short geodesic loops and  $L^p$  norms of eigenfunctions on large genus random surfaces*  
**Geometric and Functional Analysis (GAFA)** (2021), 31, 62–110
- (5) I. Kangasniemi, Y. Okuyama, P. Pankka, T. Sahlsten: *Entropy in uniformly quasiregular dynamics*  
**Ergodic Theory and Dynamical Systems** (2021), 41(8), 2397–2427
- (6) J. Li, T. Sahlsten: *Fourier transform of self-affine measures*  
**Advances in Mathematics** (2020), 374, 107349
- (7) B. Li, T. Sahlsten, T. Samuel, W. Steiner: *Denseness of intermediate  $\beta$ -shifts of finite type*  
**Proceeding of the American Mathematical Society** (2019), 147, 2045–2055
- (8) T. Jordan, S. Munday, T. Sahlsten: *Stability and perturbations of countable Markov maps*  
**Nonlinearity** (2018), 31, No. 4, 1351–1377.
- (9) J. Fraser, T. Sahlsten: *On the Fourier analytic structure of the Brownian graph*  
**Analysis & PDE** (2018), 11, 115–132
- (10) E. Le Masson, T. Sahlsten: *Quantum ergodicity and Benjamini-Schramm convergence of hyperbolic surfaces*  
**Duke Mathematical Journal** (2017), 166, no. 18, 3425–3460.
- (11) T. Jordan, T. Sahlsten: *Fourier transforms of Gibbs measures for the Gauss map*  
**Mathematische Annalen** (2016), 364, 3–4, pp 983–1023
- (12) B. Li, T. Sahlsten, T. Samuel: *Intermediate  $\beta$ -shifts of finite type*  
**Discrete and Continuous Dynamical Systems** (2016), 36(1), 323–344.

- (13) A. Käenmäki, P. Shmerkin: *Dynamics of the scenery flow and geometry of measures*  
**Proceedings of the London Mathematical Society** (2015) 110, no. 5, 1248-1280
- (14) A. Käenmäki, T. Sahlsten, P. Shmerkin: *Structure of distributions generated by the scenery flow*  
**Journal of the London Mathematical Society** (2015) 91, no. 2, 464-494
- (15) T. Sahlsten: *Tangent measures of typical measures*  
**Real Analysis Exchange** (2015), 40, no. 1, pp. 53-80.
- (16) A. Ferguson, J. Fraser, T. Sahlsten: *Scaling scenery of  $(\times m, \times n)$  invariant measures*  
**Advances in Mathematics** (2015), 268, 564-602
- (17) J. Fraser, T. Orponen, T. Sahlsten: *On Fourier analytic properties of graphs*  
**International Mathematics Research Notices (IMRN)** (2014): 2730-2745
- (18) T. Sahlsten, P. Shmerkin, V. Suomala: *Dimension, entropy, and the local distribution of measures*  
**Journal of the London Mathematical Society** (2013) 87 (1): 247-268
- (19) T. Orponen, T. Sahlsten: *Tangent measures of non-doubling measures*  
**Mathematical Proceedings of the Cambridge Philosophical Society** (2012) 152: 555-569
- (20) T. Orponen, T. Sahlsten: *Radial projections of rectifiable sets*  
**Annales Academiæ Scientiarum Fennicæ Mathematica** (2011) 36: 677-681