Tuomas Sahlsten

List of publications

June 27, 2023

Submitted preprints

(1) S. Baker, T. Sahlsten: Spectral gaps and Fourier dimension for self-conformal sets with overlaps

Peer-reviewed scientific articles

(1) E. Le Masson, T. Sahlsten: Quantum ergodicity for Eisenstein series on hyperbolic surfaces of large genus
Mathematische Annalen (2023), to appear

(2) B. Kuca, T. Orponen, T. Sahlsten: On a continuous Sárközy type problem
International Mathematics Research Notices (IMRN) (2022), to appear

(3) T. Sahlsten, C. Stevens: Fourier transform and expanding maps on Cantor sets
American Journal of Mathematics (2022), to appear

(4) J. Li, T. Sahlsten: Trigonometric series and self-similar sets

Geometric and Functional Analysis (GAFA) (2021), 31, 62–110

(6) I. Kangasniemi, Y. Okuyama, P. Pankka, T. Sahlsten: Entropy in uniformly quasiregular dynamics
Ergodic Theory and Dynamical Systems (2021), 41(8), 2397-2427

(7) J. Li, T. Sahlsten: Fourier transform of self-affine measures
Advances in Mathematics (2020), 374, 107349

(8) 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

Nonlinearity (2018), 31, No. 4, 1351-1377.

(10) J. Fraser, T. Sahlsten: On the Fourier analytic structure of the Brownian graph
Analysis & PDE (2018), 11, 115-132

(11) E. Le Masson, T. Sahlsten: Quantum ergodicity and Benjamini-Schramm convergence of hyperbolic surfaces

Mathematische Annalen (2016), 364, 3–4, pp 983–1023
(13) B. Li, T. Sahlsten, T. Samuel: Intermediate $\beta$-shifts of finite type
Discrete and Continuous Dynamical Systems (2016), 36(1), 323-344.

(14) A. Käänenmäki, P. Shmerkin: Dynamics of the scenery flow and geometry of measures

(15) A. Käänenmäki, T. Sahlsten, P. Shmerkin: Structure of distributions generated by the scenery flow

(16) T. Sahlsten: Tangent measures of typical measures

(17) A. Ferguson, J. Fraser, T. Sahlsten: Scaling scenery of $(\times m, \times n)$ invariant measures
Advances in Mathematics (2015), 268, 564-602

(18) J. Fraser, T. Orponen, T. Sahlsten: On Fourier analytic properties of graphs

(19) T. Sahlsten, P. Shmerkin, V. Suomala: Dimension, entropy, and the local distribution of measures

(20) T. Orponen, T. Sahlsten: Tangent measures of non-doubling measures

(21) T. Orponen, T. Sahlsten: Radial projections of rectifiable sets
Annales Academiae Scientiarum Fennicae Mathematica (2011) 36: 677-681