Der Wissenschaftsfonds.

JOHANNES KEPLER UNIVERSITÄT LINZ

Online talk series

It is a pleasure to announce a guest lecture with the title

Proving positive Lyapunov exponents: II. Beyond independence

(Joint work with Artur Avila, Zhenghe Zhang)

SPEAKER: **David Damanik**
TIME: Tuesday, 10.11.2020, 4:00 – 5:00 pm.

Abstract: In this continuation of the previous talk, we address the problem of going beyond the case of independent identically distributed random variables. Employing a different aspect of classical inverse spectral theory, we manage to again prove positivity of the Lyapunov exponent for all energies outside a discrete set. The natural setting for this approach to work is given by Schrödinger operators defined by a hyperbolic base transformation with an ergodic probability measure that has a local product structure and a Hölder continuous sampling function. This setting includes the case of local correlations in the classical Anderson model as a trivial special case.

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