



Der Wissenschaftsfonds.



Online talk series

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

Proving positive Lyapunov exponents: I. Using independence

(Joint work with Valmir Bucaj, Jake Fillman, Vitalii Gerbuz, Tom VandenBoom, Fengpeng Wang, Zhenghe Zhang)

SPEAKER: David Damanik

TIME: Monday, 09.11.2020, 4:00 – 5:00 pm.

Abstract: We discuss the problem of proving the positivity of the Lyapunov exponent of a given linear cocycle, with special emphasis on the case of Schrödinger cocycles. For the particular case corresponding to random Schrödinger operators, we describe a very short argument that proves positivity of the Lyapunov exponent for all energies outside a discrete set. Such a result is the best one can hope for in this setting, it is sufficient to derive Anderson localization from it, and its proof employs classical inverse spectral theory.

The talk series is supported by the **FWF Special Research Program (SFB) Quasi-Monte Carlo Methods: Theory and Applications** and partly funded by the Austrian Science Fund FWF, **Project No. J 4138-N32**.