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Limit theorems for non-autonomous dynamical systems

Abstract

Limit theorems describe fine properties of the long-term statistical behaviour of dynamical systems, including expected averages and fluctuations. In this talk, we discuss a new approach to establish limit theorems for non-autonomous dynamical systems, based on spectral methods and modern ergodic theory. We present an application in the context of piecewise expanding maps. This is based on joint work with D. Dragicevic, G. Froyland and S. Vaienti.