

Seminarium geometrów

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Wtorek, 31.05.2022, 14:15 HS

Adam Abrams (PWr)

Entropy for (a, b) -continued fraction maps

Abstract: We study a two-parameter family of maps related to (a, b) -continued fractions. We prove that the topological entropy of these maps is rigid (i.e., constant) on a large subset of the parameter space (this subset includes parameters with particular historical significance), and we also show experimental evidence that the topological entropy is flexible (i.e., takes any value in a range) on the whole parameter space. The rigidity proof uses conjugation to maps of constant slope. We also compute the Krengel entropy based on previous work involving natural extensions and geodesic flow on the modular surface.

streaming via ZOOM:

Meeting ID: 967 6507 7409

Meeting password: “GS” (two letters) followed by the Euler characteristic of the closed orientable surface of genus 89.