המחלקה למתמטיקה, בן-גוריון

הסתברות ותורה ארגודית

ההרצאה

Pseudo-Orbit and pairs Asymptotic Entropy, groups amenable of actions for Tracing

תינתן על-ידי

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תקציר: Chung and Li [Invent. Math. 2015] proved that for every expansive action of a countable polycyclic-by-finite group Γ on a compact group X by continuous group automorphisms, positive entropy implies the existence of non- diagonal asymptotic pairs. In the same paper they asked the fi this holds in general for an expansive action of a countable amenable group Γ on a compact space X.

In my talk I plan to explain the notions involved Chung and Li's question and discuss a property of dynamical systems called the "pseudo-orbit tracing property". R. Bowen introduced the pseudo-orbit tracing property in the 1970's while studying Axiom A maps. I will prove that Chung and Li's question has an affirmative answer fi one also assumes pseudo-orbit tracing, and for $\mathbb{Z}$-actions

abelian compact of (automorphisms actions algebraic for implications explain groups).

negative is question Li's and Chung to answer the why explain also will I acting the when even property, tracing pseudo-orbit the assume doesn't one fi both). not (but algebraic is action the when or ,$\mathbb{Z}$ is group