המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ההרצאה

and theory ergodic in models Universal dynamics topological

תינתן על-ידי

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תקציר: A number of of important results in modern mathematics involve an understanding the space of invariant probability measures for a homeomorphism, a flow or group of homeomorphisms. In this talk we will focus on finding situations where the space of invariant dynamical A possible'': as big "as essentially is measures probability preserving measure any fi sense ergodic the in \emph{universal} (X,S) is system so ν measure probability S-invariant an exists there (Y,T,μ), system systems, preserving measure as (Y,T,μ) to isomorphic is (X,S,ν) that topological the than lower strictly is (Y,T,\mu) of entropy the that assuming map shfit the that states (1970) theorem generator Krieger's (X,S). of entropy Thouvenot and Lind universal. is sequences N-letter of bi-infinite space the on

homeomorphisms Measure-preserving that prove to theorem Kreiger's used (1977) conditions Recent transformations. ergodic entropy finite all represent torus the of any that imply (2019) Burguet David and (2016) Soo-Quas of universality for Nishant with Together universal. is group compact a of automorphism ergodic condition sufficient general more and new a established recently we Chandgotia universality. ergodic for

compact a of homeomorphism generic A - include: consequences new Some preserving measure aperiodic any model can (2 least at dimension (having manfiold modeled be can transformation preserving measure aperiodic Any - transformation. The - measure. Lebesgue preserves which 2-torus the of homeomorphism a by $\mathbb{Z}^d$ with $\mathbb{Z}^d$, of graph Cayley standard the of 3-colorings of space universal. is translations by acting

No results. newer and older the of some explain and discus will I talk this In assumed. be will theory ergodic in background specfiic