

Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On Thursday, June ,3 2021

At 11:10 – 12:00

In Online

Daren Wei (The Hebrew University)

will talk about

Slow entropy of higher rank abelian unipotent actions

Abstract: We study slow entropy invariants for abelian unipotent actions U on any finite volume homogeneous space G/Γ . For every such action we show that the topological complexity can be computed directly from the dimension of a special decomposition of $\text{Lie}(G)$ induced by $\text{Lie}(U)$. Moreover, we are able to show that the metric complexity of the action coincides with its topological complexity, which provides a classification of these actions in isomorphic class. As a corollary, we obtain that the complexity of any abelian horocyclic action is only related to the dimension of G . This generalizes our previous rank one results from to higher rank abelian actions. This is a joint work with Adam Kanigowski, Philipp Kunde and Kurt Vinhage.

Please Note the Unusual Place!