

Department of Mathematics, BGU

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# BGU Probability and Ergodic Theory (PET) seminar

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*On Monday, January ,27 2020*

*At 11:10 – 12:00*

*In 101-*

Sebastián Barbieri (Université de Bordeaux)

will talk about

## **On the relation between topological entropy and asymptotic pairs**

Abstract: I will present some results that state that under certain topological conditions, any action of a countable amenable group with positive topological entropy admits off-diagonal asymptotic pairs. I shall explain the latest results on this topic and present a new approach, inspired from thermodynamical formalism and developed in collaboration with Felipe García-Ramos and Hanfeng Li, which unifies all previous results and yields new classes of algebraic actions for which positive entropy yields non-triviality of their associated homoclinic group.

**Please Note the Unusual Day!**