

Department of Mathematics, BGU

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# Probability and ergodic theory (PET)

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*On Tuesday, October ,27 2015*

*At 10:50 – 12:00*

*In Math 101-*

Nishant Chandgotia (Tel Aviv)

will talk about

## **Entropy Minimality and Four-Cycle Free Graphs**

Abstract: A topological dynamical system  $(X, T)$  is said to be entropy minimal if all closed  $T$ -invariant subsets of  $X$  have entropy strictly less than  $(X, T)$ . In this talk we will discuss the entropy minimality of a class of topological dynamical systems which appear as the space of graph homomorphisms from  $\mathbb{Z}^d$  to graphs without four cycles; for instance, we will see why the space of 3-colourings of  $\mathbb{Z}^d$  is entropy minimal even though it does not have any of the nice topological mixing properties.