## Department of Mathematics, BGU

## Probability and ergodic theory (PET)

**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 fi 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  $Z^d$  to graphs without four cycles; for instance, we will see why the space of 3-colourings of  $Z^d$  is entropy minimal even though it does not have any of the nice topological mixing properties.