

Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On Thursday, May, 6 2021

At 11:10 – 12:00

In Online

Tsachik Gelander (Weizmann Institute)

will talk about

Infinite volume and infinite injectivity radius

Abstract: We prove the following conjecture of Margulis. Let $M=\Lambda\backslash G/K$ be a locally symmetric space where G is a simple Lie group of real rank at least 2. If M has infinite volume then it admits injected contractible balls of any radius. This generalizes the celebrated normal subgroup theorem of Margulis to the context of arbitrary discrete subgroups of G and has various other applications. We prove this result by studying random walks on the space of discrete subgroups of G and analysing the possible stationary limits.

This is a joint work with Mikolaj Fraczyk.

Please Note the Unusual Place!