Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, May ,20 2021*

At *11:10 – 12:00*

In *Online*

Yfitach Dayan (Technion)

will talk about

Random walks on tori and an application to normality of numbers in sefl-similar sets.

Abstract: We show that under certain conditions, random walks on a d-dim torus by affine expanding maps have a unique stationary measure. We then use this result to show that given an IFS of contracting similarity maps of the real line with a unfiorm contraction ratio 1/D, where D is some integer < ,1 under some suitable condition, almost every point in the attractor of the given IFS (w.r.t. a natural measure) is normal to base D. (Joint work with Arijit Ganguly and Barak Weiss.)

Please Note the Unusual Place!