Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, January ,23 2020*

At *11:10 – 12:00*

In *101-*

Tom Gilat (Bar-Ilan University)

will talk about

Decomposition of random walk measures on the one-dimensional torus

Abstract: The main result in this talk is a decomposition theorem for a measure on the one-dimensional torus. Given a sufficiently large subset S of the positive integers, an arbitrary measure on the torus is decomposed as the sum of two measures. The first one μ_1 has the property that the random walk with initial distribution μ_1 evolved by the action of S equidistributes very fast. The second measure μ_2 in the decomposition is concentrated on very small neighborhoods of a small number of points.