Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, June ,15 2023*

At *11:10 – 12:00*

In *101-*

Tomer Zimhoni (BGU)

will talk about

Random Permutations from Free Products

Abstract: Let $\Gamma = G_1 * G_2 * \cdots * G_r$ be a free product of a finite number of finite groups and a finite number of copies of the infinite cyclic group. We sample unfiormly at random an action of Γ on N elements. In this talk, we will discuss a few tools we developed to help answer some natural questions involving the configuration described above, such as: For $\gamma\in \Gamma$, what is the expected number of fixed points of γ in the action we sampled? What is the the typical behavior of the cycle structure of the permutation corresponding to γ etc.

This is a joint with Doron Puder.