Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Jul ,6 2023*

At *11:10 – 12:00*

In *101-*

Tomer Sher (Ben Gurion University of the Negev, Israel)

will talk about

On a conjecture Regarding the unfiorm distribution in the generalized coupon collector problem

Abstract: The Coupon Collector's Problem (CCP) reads as follows: how many drawings are needed on average in order to complete a collection of n types of coupons, fi at each step a single coupon is drawn unfiormly randomly with replacement, independently of all the other drawings? This problem was introduced by De-Moivre over 300 years ago. We will discuss about a generalization of the problem, where instead of drawing a single coupon each time we draw a "package" of coupons of size s and ask the following question: how does the distribution over the collection of possible .packages affect the expected number of drawings needed to complete a collection?