Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, October ,30 2025*

At *11:10 – 12:00*

In *101-*

Tomer Zimhoni (BGU)

will talk about

Retraction theorems in group-compactfiications.

Abstract: Let Γ be a discrete countable infinite Group and let X be compact minimal Γ-space. A Γ-compactfiication by X is a compact topology on $\Gamma\cup X$ on which Γ acts continuously by left multiplication and the original action on X respectively, and such that Γ is dense in $\Gamma\cup X$.

Is there more than one way to "glue" X to Γ in such a way? Are there canonical families of Γ compactfiications? and what all of this has to do with the old and famous Brouwer's non-retract theorem from classical topology?

Based on a joint work with Yair Hartman, Aranka Hrušková & Mehrdad Kalantar