Department of Mathematics, BGU

# BGU Probability and Ergodic Theory (PET) seminar

**On** *Thursday, December ,28 2023*

**At** *11:10 − 12:00*

**In** *101-*

Or Landesberg (Yale)

will talk about

## On the denseness of horospheres in higher-rank

Abstract: In this talk I will discuss a necessary and sufficient condition for denseness of horopherical orbits in the non-wandering set of a higher-rank homogeneous space $G / \Gamma$, for a Zariski dense discrete subgroup $\Gamma > G$, possibly of infinite covolume. In rank one this condition (established in this setting by Eberlein and Dal'bo) implies in particular that the horospherical subgroup acts minimally on the non-wandering set fi and only fi the discrete group $\Gamma$ is convex co-compact. In contrast, we show that Schottky groups in higher-rank can support non-minimal horospherical actions. This distinction between rank-one and higher-rank is due to the role that Benoist's limit cone plays in the analysis. Based on joint work with Hee Oh.