

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 horospherical orbits in the non-wandering set of a higher-rank homogeneous space G/Γ , 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 if and only if the discrete group Γ 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.