Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, July ,11 2024*

At *11:10 − 12:00*

In *101-*

Michael Glasner (Weizmann Institute of Science)

will talk about

Boundary representations of locally compact hyperbolic groups

Abstract: Given a non elementary locally compact hyperbolic group G equipped with a left invariant metric d one can define a measure on the Gromov boundary called the Patterson Sullivan measure associated to d. This measure is non singular with respect to the G action and contains geometric information on the metric. I will discuss the koopman representations of these actions and sketch a proof of their irreducibility and classfiication (up to unitary equivalence), generalizing works of Garncarek in the discrete case. I will also describe connections with a recent work of Caprace, Kalantar and Monod on the type I property for hyperbolic groups.