Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On *Thursday, March ,19 2020*

At *11:10 – 12:00*

In *101-*

Arielle Leitner (Weizmann Institute)

will talk about

Generalized cusps on convex projective manfiolds

Abstract: Convex projective manfiolds are a generalization of hyperbolic manfiolds. Koszul showed that the set of holonomies of convex projective structures on a compact manfiold is open in the representation variety. We will describe an extension of this result to convex projective manfiolds whose ends are generalized cusps, due to Cooper-Long-Tillmann. Generalized cusps are certain ends of convex projective manfiolds. They may contain both hyperbolic and parabolic elements. We will describe their classfiication (due to Ballas-Cooper-Leitner), and explain how generalized cusps turn out to be deformations of cusps of hyperbolic manfiolds. If time permits we will discuss current work on the moduli space of generalized cusps (current joint work with Ballas and Cooper).