

Department of Mathematics, BGU

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# BGU Probability and Ergodic Theory (PET) seminar

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*On Thursday, November ,14 2024*

*At 11:10 – 12:00*

*In 101-*

Konstantin Kozlov (BGU)

will talk about

## **Enveloping Ellis semigroups as compactifications of transformations groups.**

Abstract: The notion of a proper Ellis semigroup compactification is introduced. Using Ellis's functional approach their connection with equiuniformities on a topological group is established. Proper Ellis semigroup compactification of a topological group  $G$  from the maximal equiuniformity on a phase space in the case of isometric action (on a discrete space, on a discrete chain, as linear isometries of a Hilbert space) is described. Its connection with Roelcke uniformity on  $G$  is established.