

Department of Mathematics, BGU

BGU Probability and Ergodic Theory (PET) seminar

On Thursday, December 12, 2019

At 11:10 – 12:00

In -101

JEREMIAS EPPERLEIN (BEN-GURION UNIVERSITY)

will talk about

Automorphisms of topological Markov shifts and Wagoner's complexes

ABSTRACT: A topological Markov shift is the set of two sided infinite paths in a finite directed graph endowed with the product topology and with the left shift acting on this space. The automorphisms of the space are the shift commuting self-homeomorphisms. Wagoner realized the automorphism group of a topological Markov shift as the fundamental group of a certain CW complex. This construction has been crucial in many results regarding automorphisms and isomorphism in symbolic dynamics. We give a simplified construction of this complex, which also works in more general contexts, and sketch some applications.