

Department of Mathematics, BGU

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# BGU Probability and Ergodic Theory (PET) seminar

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*On Thursday, February ,11 2021*

*At 16:25 – 17:30*

*In Online*

Shrey Sanadhya (The University of Iowa)

will talk about

## **Substitution on infinite alphabets and generalized Bratteli-Vershik models.**

Abstract: We consider substitutions on countably infinite alphabets as Borel dynamical system and build their Bratteli-Vershik models. We prove two versions of Rokhlin's lemma for such substitution dynamical systems. Using the Bratteli-Vershik model we give an explicit formula for a shift-invariant measure (finite and infinite) and provide a criterion for this measure to be ergodic. This is joint work with Sergii Bezuglyi and Palle Jorgensen.

**Please Note the Unusual Time and Place!**