

Symbolic Dynamical Systems on Infinite Alphabet

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A substitution is a map from an alphabet A to the set of finite words in A . To any substitution we can naturally associate a symbolic dynamical system that is well studied in the literature when the alphabet is a finite set and connected to several areas such as ergodic theory and number theory among others. In this work, we study ergodic and geometric properties of dynamical systems associated to substitutions in infinite alphabets. This study involves finite and infinite invariant measures, countably infinite matrices and Rauzy Fractals.

SLIDES

Tuesday - February 10, 2026 - 10:00 - 11:00

253 - Thesis Defense Room - 2nd Floor IMECC