

國立中山大學應用數學系

學術演講

講 者：黃迺筑 教授 (國立高雄大學應用數學系)

講 題：Transitivity and dense orbits for Markov tree-shifts

時 間：2025/11/27 (Thursday) 14:10 ~ 15:00

地 點：理 SC 4009-1 教室

茶 會：13:45

Abstract

This talk introduces Markov tree-shifts, a natural extension of classical Markov shifts to tree-structured symbolic systems. Unlike one-dimensional shifts, tree-shifts allow multiple branches to evolve in parallel, leading to richer dynamical behavior. We investigate topological transitivity and various notions of dense orbits, including ray dense and strong ray dense orbits, and characterize when these properties are equivalent. The results reveal when dynamical features of one-dimensional Markov shifts lift to the tree setting, and when genuinely new phenomena arise. This highlights the increased complexity and expressive power of symbolic dynamics on trees.

敬 請 公 告 ！ 歡 迎 參 加 ！

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