

國立清華大學數學系學術演講

NTHU MATH Colloquium

- 講題 A Characterization of Positive Entropy of Markov Tree-Shifts
- 講者 Prof. Nai-Zhu Huang (National University of Kaohsiung)
- 時間 2026.05.04 (Mon.) 16:00 – 17:00
- 地點 第三綜合大樓**2樓 Room 201**
- 茶會 15:30, Room 707

Abstract

Topological entropy is often considered as an indicator of complexity. However, there is no finitely checkable algorithm to determine the positive entropy of multidimensional shifts of finite type. Indeed, it is right recursively enumerable. In this presentation, we will present the characterization of positive entropy in Markov tree-shifts by adjacency matrices. Additionally, we will reveal the relationship among positive entropy, topological properties, and chaotic behaviors.