Research

Colloquium

The Characterization of Positive Entropy in Markov Tree-shifts

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地　點：應用數學系多媒體教室(理 408 室)

摘　要：

Topological entropy is often considered as an indicator of complexity. However, determining the positive entropy of multidimensional shifts of finite type lacks a finitely checkable algorithm, as 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.