

國立中山大學應用數學系

學術演講

講者：Mr. Giap Van Su

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講題：On the limiting spectral distributions of stochastic block models

時間：2026/07/16 (Thursday) 14:10 ~ 15:00

地點：理 SC4009-0 教室

茶會：13:30

Abstract

An Erdős- Rényi graph is a random graph. In this model, each pair of nodes is connected independently, with the same connection probability. A stochastic block model is a natural extension of the Erdős-Rényi graph. In this model, the nodes are divided into several blocks, also called communities. The connection probability may depend on which blocks the two nodes belong to. In this talk, we study the limiting spectral distributions of normalized adjacency matrices of stochastic block models. Let the graph have K blocks, with block sizes that may differ. We consider the empirical spectral distribution of the normalized adjacency matrix. Under a suitable condition on the largest between-block connection probability, we show that the empirical spectral distribution converges in probability and in expectation.

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