

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：The LSD of asymmetric random block matrices

時 間：2026/07/16 (Thursday) 15:10 ~ 16:00

地 點：理 SC4009-0 教室

茶 會：13:30

Abstract

Random matrix theory is an important area in mathematics. It also has many applications in physics, statistics, and data science. In this talk, we study the limiting spectral distribution of asymmetric random block matrices. These matrices are divided into several blocks. The entries in different blocks may follow different probability laws. This setting allows us to model more complex random systems. Under suitable assumptions, we prove that the empirical spectral distribution converges in probability. As an application, we apply our results to directed stochastic block models. We derive the limiting empirical spectral distribution for these models. This shows how the block structure affects the spectral behavior of directed random graphs.

敬 請 公 告！ 歡 迎 參 加！

應用數學系：<http://math.nsysu.edu.tw>

校園地圖：http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu_math_map.jpg

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