

國立中央大學數學系

專題演講

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演講題目：A Combinatorial Approach in Free Probability

演講茶會：2026年05月07日(星期四) 15:30~16:00

茶會地點：中央大學鴻經館 M306

演講時間：2026年05月07日(星期四) 16:00~17:00

演講地點：中央大學鴻經館 M107

Abstract :

Free probability, initiated in the 1980s by Dan Voiculescu, has become a fundamental tool for studying the asymptotic behavior of random matrices. In general, there are two main approaches in free probability: the analytic approach and the combinatorial approach.

In this talk, we will first review the random matrix problems that motivate our study. We then demonstrate how the combinatorial approach can be used to address these questions effectively. If time permits, we will also introduce some generalizations of free probability and discuss their connections to random matrix theory.