

國立清華大學分析研討會
NTHU Seminar on Analysis
Thursday, November 6, 2025

Title Integral Representations of the Second-Order Cauchy Transform

Speaker Yu-Jung Ku (辜宥榮, NTHU)

Time 2025.11.06 (Thu.) 14:00-15:30

Venue Room 631, 6F, General Building III

Abstract

We study a power series built from the fluctuation moments of random matrices, whose limit is known as the second-order Cauchy transform.

This talk develops a point-process perspective on second-order behavior of self-adjoint random matrices.

We construct a canonical measure and use it to obtain an integral representation of the second-order Cauchy transform.

Organizers: Hao-Wei Huang (NTHU)

Sponsor: Department of Mathematics, NTHU