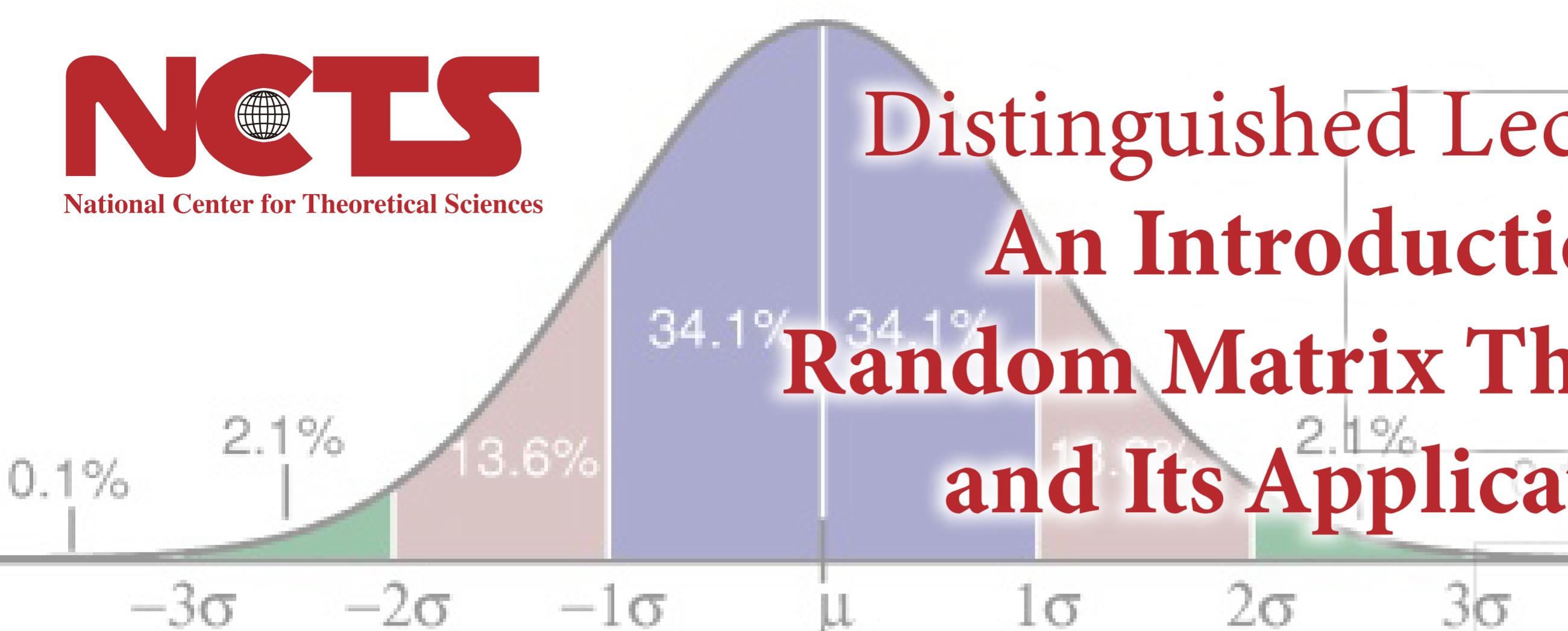


# Distinguished Lecture: An Introduction to Random Matrix Theory and Its Applications



Time | 2026/01/05

Venue | R515, Cosmology Building, NTU



**Horng-Tzer Yau**  
Harvard University

## Title

An Introduction to Random Matrix Theory and  
Its Applications

## Abstract

We review the development of random matrix theory beginning with Eugene Wigner's pioneering work in the 1960s. Wigner's profound insight into the universality of eigenvalue distributions has had a lasting influence on the field. We also discuss Dyson's Brownian motion, which has emerged as a powerful tool for establishing and understanding Wigner's universality conjecture. Finally, we highlight applications of these ideas to contemporary research problems in graph theory and related areas.

## Organizer

Mao-Pei Tsui (National Taiwan University)

## Contact:

Peggy Lee (peggylee@ncts.tw)

報名網頁



活動網頁



## Agenda

13:45-14:00 Registration

14:00-15:00 NCTS Distinguished Lecture

15:00-16:00 Q&A and Tea Break

