

Distinguished Lecture: Spectral Gap and Two Point Function Estimates for Mean-field Spin Glass Models

Time | 14:00~15:00 January 5, 2024

Venue | R515, Cosmology Building, NTU



Horng-Tzer Yau
Harvard University

姚鴻澤 教授1981年畢業於臺灣大學數學系，2014年獲選為臺大傑出校友，目前也是NCTS Distinguished Scholar。他是數學物理、分析與機率論領域的領導者，研究成果影響了機率論、隨機過程、隨機矩陣、非平衡態統計物理和量子力學等，為當今世上影響層面最深最廣的數學家。

姚鴻澤教授曾獲龐加萊獎與麥克阿瑟獎，也是美國國家科學院、美國藝術及科學院與中研院之院士。

國家理論科學研究中心有幸邀請姚院士於2024年1月5日舉辦一場非常有意義的NCTS Distinguished Lecture，敬邀有興趣的青年學子以及數學界同仁共同參與。

此次活動實體將於國立臺灣大學次震宇宙館R515舉辦，歡迎各位踴躍報名!

Title

Spectral Gap and Two Point Function Estimates for Mean-field Spin Glass Models

Abstract

In this lecture, we'll review some recent results regarding spectral gaps and logarithmic Sobolev inequality for Glauber dynamics of mean-field spin glass models. In particular, we will present a method to prove that the spectral gap of the Glauber dynamics is of order one at sufficiently high temperature. In addition, we will review certain estimates on two point functions for the SK model satisfying a modified AT condition.

Contact:

Murphy Yu (murphyyu@ncts.tw)

報名網頁



活動網頁

