

國立中山大學應用數學系

學術演講

講者：Professor Jacob Richey (The HUN-REN Rényi Institute)

講題：Activated random walks and shifts of finite type

時間：2025/12/4 (Thursday) 15:30 ~ 16:30

地點：理 SC 4009-1 教室

茶會：15:10

Google Meet Link: <https://meet.google.com/qwq-numf-dic>

Abstract

I will focus on two topics in the world of statistical physics and combinatorial probability. The first is activated random walk (ARW), an interacting particle system and toy model of self-organized criticality (SOC), a statistical phenomenon that occurs in complex systems like avalanches and earthquakes. I will present new results and suggest how special properties of ARW may be used to explain SOC in a mathematically rigorous way. The second topic is shifts of finite type, a class of discrete dynamical systems. Computing statistics associated to a shift space, like its entropy, is often difficult, even computationally. I will share new probabilistic ideas which suggest a deep connection between such statistics and easily computed combinatorial information.

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

交通資訊：<https://www.nsysu.edu.tw/p/412-1000-4132.php?Lang=zh-tw>



應用數學系



校園地圖



交通資訊