

國立陽明交通大學應用數學系
演講公告

主講人：Professor Yu-Ting Chen (University of Victoria)

講題：Continuum directed polymers in random media
in (2+1)-dimensions

時間：115 年 5 月 5 日(星期二) 下午 14:00 –15:00

地點：(光復校區) 科學一館 213 室

Abstract

The heat equation with a random potential driven by space-time white noise serves as a basic model for continuum directed polymers in random media, a topic of longstanding interest in the physics literature. While this model generates systems exhibiting scale invariance and universality, establishing their fundamental properties has posed deep mathematical challenges. In particular, although classical stochastic analysis can construct the corresponding Gibbs measures for polymers as two-dimensional curves, extending these results to three dimensions introduces substantial complexity due to the critical, non-Gaussian behaviour.

This talk will present the basic ideas of continuum directed polymers in random media, focusing on their behaviour as three-dimensional curves.

敬請公告 歡迎參加

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