

國立中央大學數學系

專題演講

主 講 人：卓冠宇先生 (國立中央大學數學系)

演講題目：SLE and Conformal Restriction Property

演講時間：2022年07月04日(星期一) 11:00 a.m. ~ 11:50 a.m.

演講地點：中央大學鴻經館M107

開放線上聽演講：

(1) <https://meet.google.com/afn-gzmo-btm>

(2) 開啟google meet並輸入下列代碼：afn-gzmo-btm

Abstract：

Schramm-Loewner Evolution (SLE_κ) was introduced by Oded Schramm in 2000 to study the asymptotic behavior (scaling limit) of loop-erased random walks for $\kappa=2$ and uniform spanning trees for $\kappa=8$. A well-known application of SLE is that the Hausdorff dimension of the outer boundary of a planar Brownian motion is almost surely $4/3$, which was conjectured by Benoit Mandelbrot and proved by Gregory F. Lawler, Oded Schramm, and Wendelin Werner by showing that the outer boundary of a planar Brownian motion has the same law as an SLE_6 . In this talk, I will introduce the development of SLE, and a series of measures defined on the space of curves in the complex plane, including Brownian excursion measures, Boundary bubble measures, and Loop measures. We obtain an expression for the Radon-Nikodym derivative of dipolar SLE_κ in a domain with respect to dipolar SLE_κ in a subdomain for $0 < \kappa \leq 8/3$.

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