
Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

講題 On Finite-Time Singularities of the Ricci Flow on Compact Kähler Surfaces

講者 Prof. Ronan Conlon (University of Texas at Dallas)

時間 2025.11.27 (Thu) 12:10 – 13:40

地點 綜三 631

Abstract

The Ricci flow, introduced by Richard Hamilton in the 1980's, is a powerful geometric evolution equation that deforms the metric of a Riemannian manifold in a way analogous to heat diffusion. It has proven instrumental in understanding the geometry and topology of manifolds. A rigorous analysis of its behavior at finite time singularities has been key to these applications.

In this talk, I will present joint work with Cifarelli-Deruelle and Hallgren-Ma on the behavior of the Ricci flow on a compact Kahler surface at a non-collapsed finite time singularity.

