

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research
Department of Mathematics*

Analysis Seminar

Curvature estimates of the Kähler-Ricci flow on compact manifolds

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Abstract

In this talk, the speaker will give a survey over some analytic results of the Kähler-Ricci flow on compact Kähler manifolds. The Kähler-Ricci flow encounters singularity whenever the Kähler class ceases to be nef, and the curvature will blow up at the singular time. The rate at which the curvature blows up is an important question as far as singularity analysis is concerned, and there is a lot of open questions concerning the curvature blow-up rates in both cases of finite-singularity and long-time convergence. The speaker will report the recent progress about curvature estimates in the literature. Part of the talk is a joint work with Z. Zhang.

Date: October 3, 2017 (Tuesday)

Time: 4:00 – 5:00pm

Venue: Room 210, Run Run Shaw Bldg., HKU

All are welcome