



The Hong Kong University of Science and Technology

Department of Mathematics

MPhil THESIS EXAMINATION

On the Ricci curvature of Kähler-Ricci Flow

By

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ABSTRACT

In this thesis, we consider n -dimensional compact Kähler manifold X with semi-ample canonical line bundle. We investigate the bound of Ricci curvature of X along the long time solution of Kähler Ricci Flow. In particular, when the fibres of X over the canonical model X_{can} of X are biholomorphic to each other and the Kodaira dimension is one, the Ricci curvature of X converges to the negative of a generalized Kähler-Einstein metric X_B locally away from the singular set of X in $C_{loc}^0(\omega(t))$ topology.

Date : 15 July 2022, Friday

Time : 2:30 p.m.

Venue : Online via ZOOM

ID: 997 9333 6610 (Passcode: 577899)

<https://hkust.zoom.us/j/99793336610>

Thesis Examination Committee

Chairman : Prof. Yik Man CHIANG, MATH /HKUST

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Member : Prof. Ivan Chi Ho IP, MATH/HKUST

(Open to all faculty and students)

The student's thesis is now being displayed on the reception counter in the General Administration Office (Room 3461).