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Joint Geometric Analysis Seminar

(Part of MIST program)

Diameter and Ricci curvature estimates for the collapsing long-time solution of the Kahler-Ricci flow

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Abstract

We will first briefly recall the background of the Kahler-Ricci flow. Then we will introduce the set-up of collapsing long-time solution of the Kahler-Ricci flow, and recall some previous results. Next, we show how to reprove Tian-Zhang's relative volume comparison estimate by using recent progress by Bamler. Then we will show that this approach is also useful in long-time solution of the Kahler-Ricci flow without Ricci curvature bound assumption. Finally, if time permits, we will show how to apply iteration process to obtain the local Ricci bound if the Kodaira dim of the manifold is one.

Date: 19 November 2021 (Friday)
Time: 9:00am – 10:00am (Hong Kong time)
ZOOM link: https://cuhk.zoom.us/j/91805734715

All are Welcome