國立中山大學應用數學系
學術演講

講　者：陳正傑 教授 (國立中央大學 數學系)

講　題：Local inequalities for 3-dimensional terminal Gorenstein singularities and birational rigidity of Fano 3-folds

時　間：2026/11/12（Thursday）15:10 ~ 16:00

地　點：理 SC4009-1 教室

茶　會：14:30

Abstract

The $4\mu^2$-inequality is a standard tool in proofs of birational rigidity for threefolds. It is often used to exclude divisorial contractions centered at smooth points. In 2024 and 2025, Krylov, Okada, and Paemurru proved similar inequalities for cA_1 and cA_n singularities, respectively, and used them to obtain examples of birationally rigid Fano varieties with these singularities.

In this talk, we will discuss analogous inequalities for cD_n ($n \geqq 4$), cE_6, cE_7, and cE_8 singularities, as well as the birational rigidity of Fano weighted hypersurfaces with a cD_4 singularity. If time permits, we will provide the computational approach to proving the local inequalities.

This talk is based on a recent joint work with Chi-Kang Chang and Takuzo Okada, arXiv:2608.28372.

敬 請 公 告！ 歡 迎 參 加！

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