

國立中山大學應用數學系

學術演講

講者：鍾岱軒 博士（國立成功大學數學系）

講題：Semi-abelian reduction of Albanese varieties

時間：2026/10/22（Thursday）14:10 ~ 15:00

地點：理 SC4009-1 教室

茶會：13:30

Abstract

In their seminal paper, Deligne and Mumford proved that a smooth proper curve of genus at least 2 has stable reduction over a discrete valuation ring R if and only if its Jacobian has semi-abelian reduction over R . This raises a natural higher-dimensional question: what geometric conditions on a model of a variety X_K , where K is the fraction field of R , force its Albanese variety $\text{Alb}(X_K)$ to have semi-abelian or good reduction over R ? In this talk, we will show that if a projective geometrically normal variety X_K admits a projective model over R whose special fibre has at worst nodes in codimension one (resp. is smooth in codimension one), then $\text{Alb}(X_K)$ has semi-abelian (resp. good) reduction. We will also discuss some applications of these results.

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