

國立東華大學應用數學系
專題演講

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講題：On the Nash Problem over 3-Fold Terminal
Singularities

時間：115年05月06日(星期三) 10:10-11:00

地點：理工一館A316

摘要

Let X be a singular algebraic variety over the complex numbers. Nash proposed to use irreducible families of arcs based on the singular locus of X , inducing the so-called Nash valuations, to characterize divisorial valuations appearing in every resolution of singularities over X , which are called essential valuations.

In particular, Nash proves that every Nash valuation is essential, and it is natural to ask if every essential valuation corresponds to some Nash valuation. This is known as the Nash problem for X . The Nash problem is known to be true in dimensions 1 and 2, in several interesting cases in arbitrary dimensions, but false in general starting in dimensions 3. Apart from the Nash problem, it is an interesting problem to characterize Nash valuations over a singular variety.

In this talk, I will briefly introduce the Nash problem, discuss the most relevant developments, and then talk about my current work on the Nash problem over 3-fold terminal singularities of type $cAx/2$. Furthermore, I will present my current research and potential directions if time allows.

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