

國立東華大學應用數學系
專題演講

主講人：Dr. Nicolau S. Aiex

國家理論科學研究中心數學組

講題：Analysis of singularities in geometry, calculus of variations and applications.

時間：115年04月01日(星期三) 10:10-11:00

地點：理工一館A316教室

摘要

When a mathematical model is constructed via an optimization process, it is natural to expect certain regularity as nature tends to behave optimally and regularly.

However, most of the work in mathematics goes towards proving that the final object is indeed regular and yet, in many cases singularities are unavoidable.

We will discuss how we can estimate the worst case scenario of singularities from a simple local to global principle. Since nature has the tendency to behave in a stable manner, in our situation the understanding of stable solutions will be the key to controlling the singularities of all possible solutions.

We will see how this idea is used in the study of the geometry of minimal surfaces and other applications of this principle.

※※※ 歡迎參加 ※※※ se1150401