

國立中山大學應用數學系

學術演講

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講題：On Maxwell's conjecture and some progress
by using algebraic geometry

時間：2016/10/20（星期四）15:30 ~ 16:20

地點：理學院四樓理 SC 4011 室

茶會：15:00 於理 SC 4010 室（系辦公室）

摘要

In his book of “A Treatise on Electricity and Magnetism”, J.C. Maxwell made a claim on the number of non-degenerate equilibrium points of the electrostatic field created by stationary point charges. Later, J. J. Thomson in 1891 while proof-reading the third edition of Maxwell's book commented on this claim as *{I have not been able to find any place where this result is proved.} In 2007, a paper by A. GABRIELOV, D. NOVIKOV and B. SHAPIRO revisited this problem and call his unproved claim the Maxwell's conjecture. In this talk, I will introduce this conjecture, present current progress, and talk about some tools from real and computational algebraic geometry in dealing with this conjecture.

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