

國立陽明交通大學應用數學系

學術演講公告

主講人：Prof. Tien Nguyen (NTU)

講題：Singularity formation in the complex
Ginzburg-Landau equation

時間：113 年 9 月 10 日(星期二) 下午 14:00 –15:00

地點：(光復校區) 科學一館 213 室

Abstract

Many central problems in geometry, mathematical physics, and biology are reduced to questions regarding the behavior of solutions of nonlinear evolution equations. The global dynamical behavior of bounded solutions for large times is of significant interest. However, in many real situations, solutions develop singularities in finite time. The singularities must be analyzed in detail before attempting to extend solutions beyond their singularities or to understand their geometry in conjunction with globally bounded solutions. In this context, we have been particularly interested in qualitative descriptions of blowup. This talk considers the complex Ginzburg-Landau equation as a particular model for which I will present constructive methods based on spectral analysis and energy-type estimates for the existence and stability of blowup solutions.

敬請公告 歡迎參加

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