

数学与系统科学研究院

计算数学所学术报告

报告人: Dr. Yu Xinwei

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报告题目:

Local Geometric Depletion of Nonlinearity in Incompressible Inviscid Flows

邀请人: 陈志明研究员

报告时间: 2007年7月5日(周四)

上午 10:00—11:00

报告地点: 科技综合楼三层 311

计算数学所报告厅

Abstract:

Whether smooth solutions of the 3D incomp

ressible Euler equations will spontaneously develop finite time singularities is a long-standing open problem of great interest to both mathematical and fluid mechanical communities. In this talk, we will discuss some recent results on this problem obtained with T. Y. Hou, J. Deng, and R. Li. These results investigate possible cancellations in the nonlinear term that prevent the formation of finite time singularities, and furthermore give numerical support of the existence of such cancellations.

欢迎大家参加！