

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Xinwei Yu**

(*Department of Mathematical and Statistical Sciences, University of
Alberta, Canada*)

报告题目:

**Finite Time Singularity of the
Euler-Poincare Equation**

邀请人: 曹礼群 研究员

报告时间: **2013 年 6 月 13 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:

We consider the Euler-Poincare equation in \mathbb{R}^d with $d \geq 2$. For a large class of smooth initial data we prove that the corresponding solution blows up in finite time. Our analysis exhibits some new concentration mechanism and hidden monotonicity formula associated with the Euler-Poincare flow. No size restrictions are imposed on the data. We also showcase a class of initial data for which the corresponding solution exists globally in time. This is joint work with Dong Li and Zhichun Zhai.

欢迎大家参加!