



复旦大学数学科学学院 数学综合报告会

报告题目: **Existence and regularity of nematic liquid crystal flows**

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报告地点: 光华东主楼 1801

摘要: In this talk, we will first discuss two examples of finite time blowups for a simplified nematic liquid crystal flows. The first example is constructed within the class of axisymmetric solutions, while the second one is constructed for initial data with small energy but large topology. We will also discuss the structure of singularities for nonlinear variational wave equation, which is another simplified model of nematic liquid crystal flows.

个人简介: Dr. Tao Huang is a Visiting Assistant Professor of Mathematics at NYU Shanghai. His research interests are partial differential equations and fluid mechanics, especially analysis of complex fluids, geometric analysis and calculus of variations, nonlinear wave equation and conservation laws.

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