



## 复旦大学数学科学学院 数学综合报告会

报告题目: Constructing finite time singularities for some nonlinear PDEs

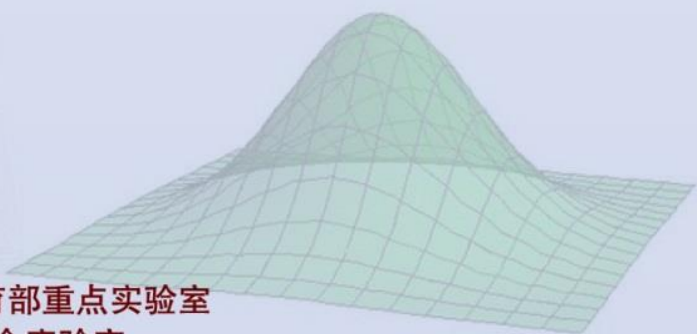
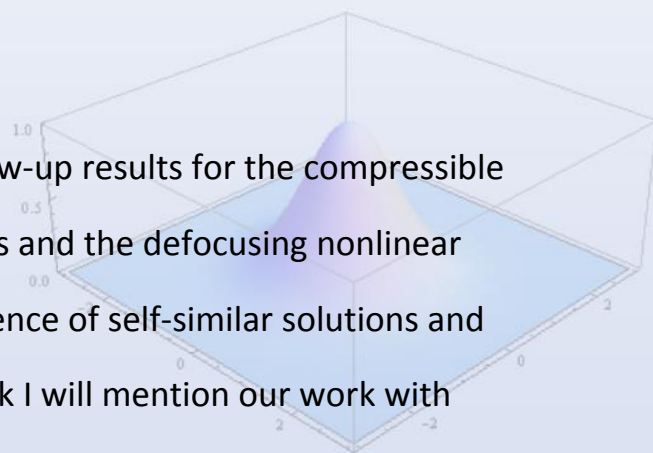
报告人: 石佳 (Massachusetts Institute of Technology)

时间: 2025-06-12 星期四 10:00-11:00

地点: 光华东主楼1801

报告摘要:

In this talk I will introduce the implosion blow-up results for the compressible Euler, the compressible Navier-Stokes equations and the defocusing nonlinear Schrödinger equation. We will discuss the existence of self-similar solutions and the stability near those solutions. During the talk I will mention our work with Gonzalo Cao-Labora, Javier Gómez-Serrano and Gigliola Staffilani on the first non-radial implosion result for those three equations.



非线性数学模型与方法教育部重点实验室  
中法应用数学国际联合实验室  
上海市现代应用数学重点实验室  
复旦大学数学研究所