



## 复旦大学数学科学学院 数学综合报告会

报告题目: Global solutions of 2D isentropic compressible Navier-Stokes equations with one slow variable

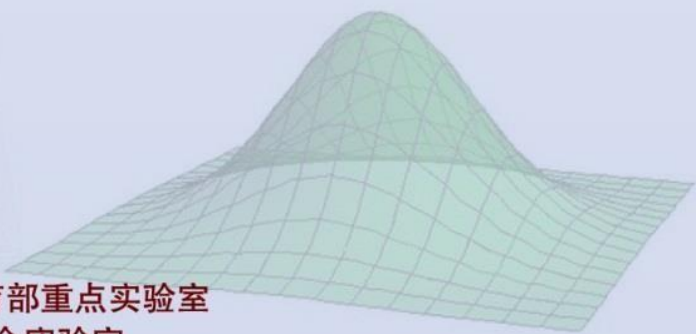
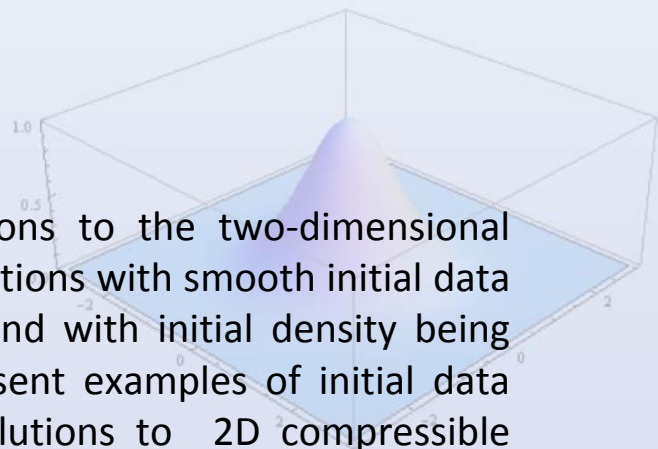
报告人: 吕勇 副教授 (南京大学)

时间: 2022-12-05 星期一 15:00-17:00

地点: 腾讯会议: 360-756-684

报告摘要:

We prove the global existence of solutions to the two-dimensional isentropic compressible Navier-Stokes equations with smooth initial data which is slowly varying in one direction and with initial density being away from vacuum. In particular, we present examples of initial data which generate unique global smooth solutions to 2D compressible Navier-Stokes equations with constant viscosity and with initial data which are neither small perturbation of constant state nor of small energy.



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