



复旦大学数学科学学院 数学综合报告会

报告题目: Non-uniqueness for the transport equation with Sobolev vector fields

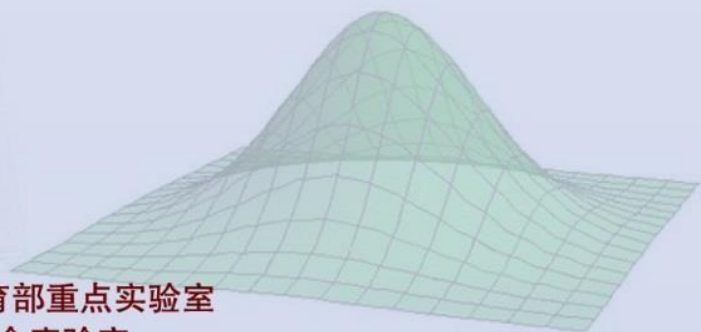
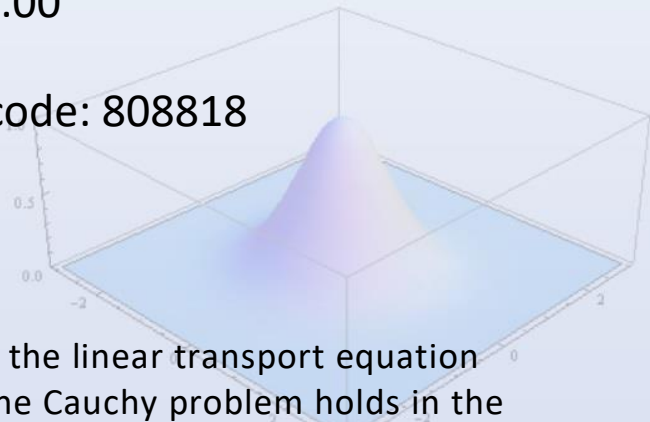
报告人: Professor Stefano Modena (Gran Sasso Science Institute (GSSI), Italy)

时间: 2022-11-03 星期四 21:00 - 22:00

地点: ZOOM Id: 836 7313 8944 Passcode: 808818

报告摘要:

One of the main questions in the theory of the linear transport equation is whether uniqueness of weak solutions to the Cauchy problem holds in the case the given vector field is not smooth. In the talk I will provide an overview on some results obtained in the last few years, showing that even for incompressible, Sobolev (thus quite "well-behaved") vector fields, uniqueness of solutions can drastically fail. This result can be seen as a counterpart to DiPerna and Lions' well-posedness theorem.



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