



复旦大学数学科学学院 数学综合报告会

报告题目: Non-Deterministic Solution Concepts in Fluid Dynamics

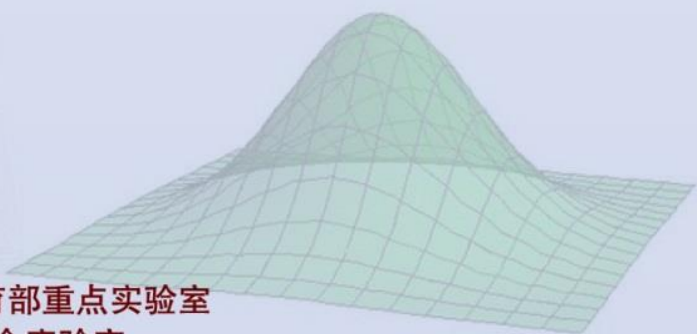
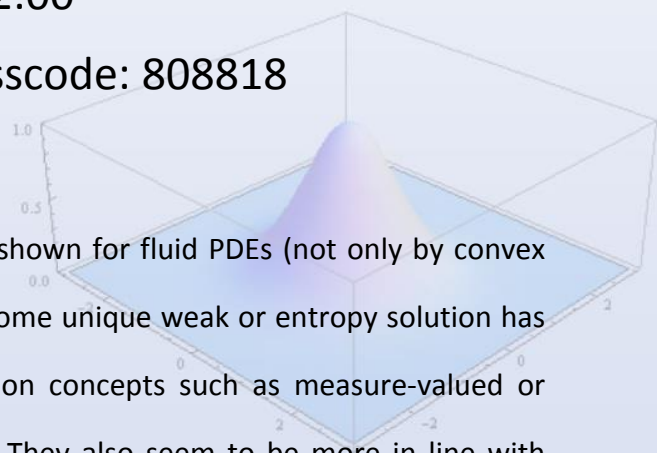
报告人: Professor Emil Wiedemann (University Erlangen-Nürnberg, Germany)

时间: 2025-03-20 星期四 21:00 - 22:00

地点: ZOOM Id: 836 7313 8944, Passcode: 808818

报告摘要:

As more and more ill-posedness results have been shown for fluid PDEs (not only by convex integration!), the idea to solve the Cauchy problem by some unique weak or entropy solution has become questionable. Instead, non-deterministic solution concepts such as measure-valued or statistical have sparked much recent research interest. They also seem to be more in line with well-known theories of turbulence, which are typically statistical. I will give an overview of such generalised solution concepts, including their weak-strong stability, their relation to more conventional solutions, and questions of existence.



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