



偏微分方程及其应用中心

学术报告

报告题目: Long-time asymptotics of the Navier-Stokes and vorticity equations on \mathbb{R}^2 (I)

报告人: Yanlin Liu (北京师范大学)

时间: 2023年10月21日(星期六)10:00-11:00

地点: 数学院南楼 620

摘要: In this talk, we will discuss Thierry Gallay and C. E. Wayne's classical work in CMP (2005) on the long-time asymptotics of the Navier-Stokes and vorticity equations on \mathbb{R}^2 . Precisely, they proved that any solution of the 2-D Navier-Stokes equations whose initial vorticity distribution is integrable converges to an explicit self-similar solution called Oseen's vortex.