



# 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  $\mathbb{R}^2$  (II)

**报告人:** Yanlin Liu (北京师范大学)

**时间:** 2023年10月21日(星期六)11:00-12:00

**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.