偏微分方程及其应用中心

学术报告

报告题目： **Couette flow to the Boltzmann equation in the hydrodynamic limit**

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摘　　要： In this talk, I will report our recent study on the hydrodynamic limits of the Boltzmann equation. Our investigation rigorously establishes the connection between incompressible Couette flow and the Boltzmann equation. This process involves a detailed derivation of Couette flow within the incompressible Navier-Stokes system from the Boltzmann equation. The core of our analysis relies on novel anisotropic estimates within the Wiener algebra function space.