

## 偏微分方程及其应用中心

- **報告题间**: Well-posedness of small BV solutions to isentropic Euler from Navier-Stokes
- 報 告 人: Prof. Moon-Jin Kang, KAIST, Korea
- 前 问: 2024年3月6日(星期三)15:00-16:00
- **地 点**: 思源楼 S515

摘

The Cauchy problem for compressible Euler system from inviscid limit of Navier-Stokes remains completely open, as a challenging issue in fluid dynamics.

In this talk, I will give a first resolution for this problem in the 1D isentropic case.We will show the global well-posedness of entropy solutions with small BV initial data in the class of inviscid limits from the associate Navier-Stokes. The proof is based on the three main methodologies: the modified front tracking algorithm; the a-contraction with shifts; the method of compensated compactness. This is a joint work with Geng Chen (U. Kansas) and Alexis Vasseur (UT-Austin).