北京理工大學

数学与统计学院学术报告

Global well--posedness and large time behavior of classical solutions to a generic compressible two--fluid model

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时间： 2024.7.24 上午10:30--11:30，文萃楼E909

地点：文萃楼E909

摘要： We investigate a generic compressible two--fluid model with common pressure ($P^+=P^-$) in $\mathbb{R}^3$. By exploiting the dissipation structure of themodel and making full use of several key observations, we prove global existence and large time behavior of classical solutions to the 3D compressible two--fluid model with common pressure. To the best of our knowledge, we establish the first result on the global existence of classical solutions to the 3D compressible two--fluid model with common pressure and without capillary effects.

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