

- 報告题目: Sharp decay characterization for the compressible Navier-Stokes equations
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- 2024.12.24(周二),下午14:00--15:00 肘 12 ;
- 腾讯会议: 860-362-928 **!** : 边

摘

The low-frequency assumption has been extensively applied to the 要: large-time asymptotics of solutions to the compressible Navier-Stokes equations and incompressible Navier-Stokes equations since from those classical efforts. In this talk, we will give a sharp decay characterization for the compressible Navier-Stokes equations in the critical framework. Precisely, the Besov boundedness of the low-frequency part of initial perturbation is not only sufficient but also necessary to achieve those

upper bounds of time-decay estimates. Furthermore, it is shown that upper and lower bounds of time-decay estimates both hold if and only if the low-frequency part of the initial perturbation belongs to a nontrivial subset of some Besov space. This is a joint work with Brandolese, Shou and Zhang.