

明治大学先端数理科学インスティテュート

MIMS現象数理カフェセミナー

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Large time behavior of the solution to the compressible Navier-Stokes equations

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In physics, substances are classified into solid, liquid, and gas. Fluids are composed of liquid and gas. We can observe fluids in everyday life, for example, water, oil, alcohol, air and so on.

When the stress tensor of a fluid is given by a linear function, that fluid is called a Newtonian fluid. The motion of a Newtonian fluid is governed by the Navier-Stokes equations or Euler equations.

In this talk, we introduce a classification for some fluids and we discuss about the stability and asymptotic behavior of some solutions to the compressible Navier-Stokes equations in an infinite layer.



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