Asymptotic stability of a stratified flow for 3D Boussinesq equation with velocity damping

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February 2, 2021

Abstract

In this paper, we study the asymptotic stability of a stratified flow to the three dimensional incompressible Boussinesq equations, which is closely related to the famous B\'{e}nard convection problem. With some sophisticated computation, we extend the result of Castro, Cordoba and Lear((missing citation)) to three dimensions case.

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References