

Navier-Stokes system

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Inviscid limit for axisymmetric stratified

This paper is devoted to the study of the Cauchy problem for the stratified Navier-Stokes system in

spaces \$H^{s}\times H^{s-2}\$ with \$s>5/2.\$ The bounds of the solution are uniform with respect to the

viscosity. In the second part, we analyse the inviscid limit problem. We prove the strong convergence

space dimension three. In the first part of the paper, we prove the existence of a unique global solution (v_n,ν) for this system with axisymmetric initial data belonging to the Sobolev

in the space \$L^{\infty}_{\text{loc}}(\RR_+; H^{s}\times H^{s-2})\$ of the viscous solutions

 $(v_n, v_n, v_n)_{v_n}$ to the solution (v, v_n) of the stratified Euler system.

Submission history

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