Very Weak Solutions and Asymptotic Behavior of Leray Solutions to the Steady-State Navier-Stokes Equations in Exterior Domains

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Abstract

We show how an appropriate theory of very weak solutions can be employed to advance the resolution of one of the oldest and most extensively studied problems in the theory of steady-state Navier–Stokes equations in unbounded domains: the determination of the sharp asymptotic behavior of Leray solutions.