



偏微分方程及其应用中心

学术报告

报告题目: Hydrostatic approximation of the Boussinesq equations

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地点: 南楼 613

摘要: We study the hydrostatic approximation for the three-dimensional (3D) Boussinesq equations of damped wave type. This is a mixed degenerate system coupled by parabolic and hyperbolic equations. Compared with the purely hyperbolic hydrostatic Navier-Stokes equations, the parabolic equation for temperature will lead to an extra loss of derivative. We prove the global-in-time well-posedness and the corresponding hydrostatic limit.