

On the convergence of statistical solutions of the 3D Navier-Stokes- α model as α vanishes

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Abstract

In this talk we consider statistical solutions of the 3D Navier-Stokes- α model with periodic boundary condition. We prove that under certain natural conditions statistical solutions of the 3D Navier-Stokes- α model converge to statistical solutions of the exact 3D Navier-Stokes equations as α goes to zero. The statistical solutions considered here arise as families of time-projections of measures in suitable trajectory spaces.