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Chebyshev spectral-finite element method for three-dimensional vorticity equation. (English) Zbl 0940.76059

Summary: We construct combined Chebyshev spectral-finite element schemes for three-dimensional unsteady vorticity equation, and prove the generalized stability and convergence.

MSC:
76M22 Spectral methods applied to problems in fluid mechanics
76M10 Finite element methods applied to problems in fluid mechanics
76D17 Viscous vortex flows

Keywords:
Chebyshev spectral-finite element schemes; three-dimensional unsteady vorticity equation; generalized stability; convergence

Full Text: DOI

References:

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