

CONVERGENCE OF LEGENDRE METHODS FOR NAVIER-STOKES EQUATIONS

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摘要

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Abstract This paper is concerned with spectral type of methods using Legendre polynomials. Both Galerkin and collocation approximations for the Navier-Stokes equations are considered and their rates of convergence are obtained. As a consequence, it is shown that these methods achieve spectral accuracy if the solutions to the Navier-Stokes equations are smooth.

Key words

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