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Finite Dimensional Behavior for Forced Nonlinear Sobolev-Galpern Equations

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摘要 This paper deals with the asymptotic behavior of

solutions for the nonlinear Sobolev-Galpern equations. We first

show the existence of the global weak attractor in $H^2(\Omega)$

$\cap H^1(\Omega)$ for the equations. And then by an energy

equation we prove that the global weak attractor is actually the

global strong attractor. The finite-dimensionality of the global

attractor is also established.

关键词 [Nonlinear Sobolev-Galpern equations, asymptotic behavior, global attractor, energy equation, weak continuity](#)

分类号

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Abstract

Key words

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