UNIFORM ATTRACTORS FOR THE NON–AUTONOMOUS PARABOLIC EQUATION WITH NONLINEAR LAPLACIAN PRINCIPAL PART IN UNBOUNDED DOMAIN

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Abstract. In this paper, we are concerned with the asymptotic behavior of the solution for the non-autonomous parabolic equation with nonlinear Laplacian principal part in $\mathbb{R}^n$. The existence of the $(L^2(\mathbb{R}^n), L^2(\mathbb{R}^n))$-uniform attractor, the $(L^2(\mathbb{R}^n), L^p(\mathbb{R}^n))$-uniform attractor and the $(L^2(\mathbb{R}^n), W^{1,p}(\mathbb{R}^n) \cap L^q(\mathbb{R}^n))$-uniform attractor will be proved.


Keywords and phrases: uniform attractor, unbounded domain.

REFERENCES
