Asymptotic behavior of random coupled Ginzburg-Landau equation driven by colored noise on unbounded domains

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Abstract

In this paper, random coupled Ginzburg-Landau equation driven by colored noise on unbounded domains is considered, in which nonlinear term satisfies local Lipschitz condition. It is shown that random attractor of such coupled Ginzburg-Landau equation is singleton set, and the components of solutions are very close when the coupling parameter becomes large enough.

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