

國家理論科學研究中心學術演講

2013 NCTS & NCU

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時間：PM2:30-4:00, Thursday, Dec 12, 2013

題目：Gradient-like property and spectral comparison in some reaction-diffusion systems

Abstract:

We are concerned with the FitzHugh-Nagumo equations and some reaction-diffusion systems with conservation property in a bounded domain with the Neumann boundary condition.

Those systems share the common features such that the Turing instability takes places and the stationary equations can be reduced to a scalar elliptic equation with a nonlocal term, whose solution is provided by a critical point of an energy functional.

Our aim is to show the gradient-like property of each system and the coincidence of the dimension of the unstable manifold of any equilibrium solution and the Morse index of the corresponding critical point of the energy.

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