

國立中山大學應用數學系

學術演講

講者：蔡英士教授

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講題：Traveling Pulse Solution of
Fitzhugh-Nagumo Equations

時間：2015/6/17 (星期三) 16:10 ~ 17:00

地點：理學院四樓理 SC 4027 室

茶會：15:30 於理 SC 4010 室 (系辦公室)

摘要

It is a joint work with C.N. Chen. Using a variational formulation, we study traveling pulse solutions of the FitzHugh-Nagumo equations when the activator diffusion coefficient d is small compared to that of the inhibitor. We look for local minimizer by imposing appropriate topological constraints on the solution space. Interesting techniques are developed to deal with such classes of topological constraints. In particular if c is the fastest traveling wave speed, we establish that dc^2 goes to a known positive constant as $d \rightarrow 0$.

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