

# 國立中山大學應用數學系 學術演講

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講題：Traveling Curved Waves in Two  
Dimensional Excitable Media

時間：2018/11/22 (星期四) 14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 室

茶會：15:00 於理 SC 4010 室 (系辦公室)

## 摘要

Wave propagation can occur in various area such as physics, biology, chemical kinetics, and so on. In particular, excitable media, which are often modeled by nonlinear PDEs, can support abundant spatiotemporal dynamics. In this talk, we will introduce excitable media and then focus on a free boundary problem obtained from a singular limiting problem of a FitzHugh-Nagumo-type system. The existence, uniqueness and stability of traveling curved waves will be discussed. This is a joint work with Hirokazu Ninomiya (Meiji University).

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