

國立中山大學應用數學系

學術演講

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講題：Three-Dimensional stochastic Navier-Stokes equation with Markov switching

時間：2022/03/23 (Wednesday) 10:10 ~ 11:00

地點：視訊演講 (理 SC4009-0 室)

Google Meet Link：<https://meet.google.com/fsd-totu-iem>



Abstract

The flow of incompressible viscous fluid is described by the celebrated Navier-Stokes equations. If the contribution of noises (may from environment or inner friction) is considered, then one may add some "noise term" to the original (deterministic) equation. The result equation is called the stochastic Navier-Stokes equation. Moreover, if the noise term depends on a continuous time Markov chain, then the result equation would be called the stochastic Navier-Stokes equation with Markov switching.

In this talk, we will introduce the motivation for studying the stochastic Navier-Stokes equation with Markov switching. Then we introduce the theorems regarding the existence of the solutions and probabilistic behaviors of a solution. We will sketch the arguments of the theorems and go into the detail if time permits.

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