

淡江大學數學系演講公告

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題 目：**Complete and Partial Synchronization for Two-Group and
Three-Group Kuramoto Oscillators operators**

日 期：113年4月30日 (星期二)

時 間：下午 14:10 開始

地 點：科學館 S433

摘要 Abstract:

Synchronization phenomenon is a universal feature and can be observed in diverse subjects. For instance, the oscillation of pendulums, the flash of fireflies, circadian rhythm, and neural networks. In recent decades, the Kuramoto model has been proposed to demonstrate synchronization and applied to various disciplines including electric generators, power systems, biological oscillators, and networks. Recently, the synchronization of the multi-group Kuramoto model has been studied by many authors. In this talk, I will use an ignite talk to introduce several phenomena and models related to synchronization. Then I will introduce the two-group and three-group Kuramoto models and show our main theories. If time permits, the numerical simulations are also given in this presentation.

備 註：本業務與聯合國永續發展目標 SDG4 優質教育連結

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