

國立交通大學應用數學系 學術演講公告

主講人：符麥克 教授（交通大學應數系）

講 題：Stochastic Analysis of Animal Group Patterns under the
Extra Clustering Model

時 間：103 年 5 月 13 日(星期二) 下午 2:00 –3:00

地 點：(光復校區) 科學一館 223 室

茶 會：當天下午 1:30 (科學一館 205 室)

Abstract

Understanding animal group patterns of social animals is an important issue in biology. Many random models have been proposed for the pattern formation process with a recent class of models due to Durand, Blum and Francois based on genetic relatedness. In this talk, we present our recent results on limit laws of the number of groups under these models. This parameter satisfies stochastic recurrence relations very similar to those satisfied by shape parameters of divide-and-conquer algorithms in computer science. However, tools developed for the analysis of divide-and-conquer algorithms cannot be directly applied and we have to considerably extend them. The results we obtain contain some surprises. This is joint work with Michael Drmota (Technical University of Vienna) and my former master student Yi-Wen Lee.

敬請公告 歡迎參加

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