

國立中山大學應用數學系 非線性分析及優化理論研究中心 學術演講

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講題：Self-organized criticality in a discrete model of coagulation

時間：2014/11/13（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

We consider a discrete model of coagulation, where links between particles are created at some fixed rate, except that links with "giant" clusters are forbidden. It is known that the concentrations in this model converge to the solution of Smoluchowski's equation with a multiplicative kernel. The discrete model allows to observe finer features, such as the shape of the clusters. We will show in particular that this model exhibits self-organized criticality, in that, after some time, a typical cluster in solution is a critical Galton-Watson tree.

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