國 立 東 華 大 學 應 用 數 學 系
專 題 演 講

主講人：班榮超教授

Department of Applied Mathematics, National Dong Hwa University

講　　題：The solution structure of multi-layer cellular neural network equations

時　　間：100 年 11 月 25 日(星期五)　15:10-16:00

地　　點：理學院A324會議室

摘　　要

In this talk, we study the relations between the output and hidden spaces of the multi-layer cellular neural network equations (MCNN, for short), it can be proved that both of these spaces are sofic shifts, and there are many examples demonstrate that these spaces are strict sofic but not Markov. If the length of the layers is 2, all types of equivalent relations, e.g., *strong shift equivalence*, *shift equivalence*, *finite shift equivalence* and *topological conjugacy* are used to characterize the solution structures of output and hidden layers. Finally, the solution structures of MCNN for any 2 < d layers can also be characterized.

※※※　　歡　　迎　　參　　加　　※※※ se1001125