國立交通大學應用數學系
學術演講公告

主講人：張志鴻教授(國立高雄大學應用數學系)

講　題：Topologically Mixing Properties of Multiplicative Integer
　　　　System

時　間：109 年 5 月 12 日(星期二) 下午 14:00 –15:00

地　點：(光復校區) 科學一館 223 室

Abstract

　　Motivated from the study of multiple ergodic average, the investigation of multiplicative shift spaces has caused researcher's interests. In this talk, I will introduce the relations of topologically mixing properties of multiplicative shift spaces and traditional shift spaces, which are additively invariant. Suppose that $\mathsf{X}_{\Omega}^{(l)}$ is the multiplicative subshift comes from the shift space Ω with given $l > 1$. We show that $\mathsf{X}_{\Omega}^{(l)}$ is (topologically) transitive/mixing if and only if Ω is extensible/mixing. After introducing l-directional mixing property, we derive the equivalence between l-directional mixing property of $\mathsf{X}_{\Omega}^{(l)}$ and weakly mixing property of Ω.

本演講為遠距同步演講

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