

國立東華大學應用數學系
學生演講

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講題：Zero product preserving operators on continuous operator-valued functions.

時間：100年11月16日(星期三) 13:00-14:00

地點：理學院 A316

摘要

In the thesis, let X, Y be locally compact Hausdorff spaces and M, N be Banach algebras. We show that T is a compact (or completely continuous) disjointness preserving linear operator from $C_0(X, M)$ into $C_0(Y, N)$ if and only if T can be written as a countable sum decomposition $T = \sum_{n=1}^{\infty} \delta_{x_n} \otimes h_n$. T is weakly compact disjointness preserving linear operator from $C_0(X, M)$ into $C_0(Y, N)$ if and only if T can be written as $T = \sum_{x \in X'} \delta_x \otimes h_x$ in the strong operator topology, where X' can be a countable or uncountable set. Hence if M is separable, X' is a countable set.



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