

國立中山大學應用數學系

學術演講

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講題：Transformations preserving norms of means
of positive operators

時間：2015/10/22 (星期四) 14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 室

摘要

Motivated by recent investigations on norm-additive and spectrally multiplicative maps on various spaces of functions, in this presentation we determine all bijective transformations between the positive cones of standard operator algebras over a Hilbert space which preserve a given symmetric norm of a given mean of elements. (We note that by a standard operator algebra we mean a subalgebra of $B(H)$ the algebra of all bounded linear operators on H which contains all finite rank operators in $B(H)$. Furthermore, we say that the norm N on $B(H)$ is a symmetric norm, if $N(AXB) \leq \|A\|N(X)\|B\|$ holds for all $A, B, X \in B(H)$.) A result of similar spirit is also presented concerning transformations between cones of nonnegative elements of certain algebras of continuous functions.

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