

國立中山大學應用數學系

學術演講

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講題：Linear maps on matrices preserving parallel pairs and triangle equality attaining pairs

時間：2025/10/23 (Thursday) 16:10 ~ 17:00

地點：理 SC 4009-1 教室

茶會：15:45

Abstract

Two (real or complex) $m \times n$ matrices A and B are called parallel if

$$\|A + \mu B\| = \|A\| + \|B\|$$

holds for some scalar μ with $|\mu| = 1$, where $\|\cdot\|$ denotes either the spectral norm or the vector (p, q) norm. When $\|A + B\| = \|A\| + \|B\|$, we refer to A, B as a pair attaining the triangle equality.

In this talk, I will discuss linear maps T acting on $m \times n$ matrices that preserve parallel pairs, meaning $T(A)$ and $T(B)$ are parallel whenever A and B are parallel. Additionally, I will also present a characterization of linear maps that preserve triangle equality attaining pairs, i.e., $T(A)$ and $T(B)$ form a pair attaining the triangle equality whenever A and B do.

敬 請 公 告 ！ 歡 迎 參 加 ！

應用數學系：<http://math.nsysu.edu.tw>

校園地圖：http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu_math_map.jpg

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