

# 國立中山大學應用數學系

## 學術演講

講者：施能聖 教授 (香港理工大學)

講題：Strongly entanglement breaking channels for infinite-dimensional quantum systems

時間：2025/7/28 (Monday) 11:10 ~ 12:00

地點：理 SC 4009-1 教室

茶會：10:45

### Abstract

Entanglement breaking (EB) channels, as completely positive and trace-preserving linear operators, sever the entanglement between the input system and other systems. In the realm of infinite-dimensional systems, a related concept known as strongly EB (SEB) channels emerges. This talk delves into characterizations of SEB channels, delineating sufficient conditions for a channel to be classified as SEB, especially with respect to the commutativity of its range. Moreover, we demonstrate that every closed self-adjoint subspace of trace-zero operators, with the trace norm, is the null space of a SEB channel.

敬 請 公 告 ！ 歡 迎 參 加 ！

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