

國立中央大學數學系

專題演講

主 講 人：游步庭博士後研究員(University of Oregon)

演講題目：Reconstruction formulas in Banach Spaces and Related Topics

演講茶會：2026/05/28(星期四) 15:30~16:00

茶會地點：中央大學鴻經館 M306

演講時間：2026/05/28(星期四) 16:00~17:00

演講地點：中央大學鴻經館 M107

Abstract :

A countable sequence $\{x_n\}$ in a separable Banach space X is said to admit a *reconstruction formula* if every element in the Banach space can be represented as an "infinite linear combination" of x_n , with the convergence of the series in the norm of X . Over the past several decades, the problem of constructing sequences that admit reconstruction formulas with prescribed forms and desirable convergence properties has become a central topic in Banach space theory, approximation theory, and some other related areas.

In this talk, we will provide an introduction to the notion of reconstruction formulas and discuss several related research directions, with particular emphasis on some open problems. The presentation is intended to be introductory in nature, only a basic background in real analysis will be assumed.

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