

國立中山大學應用數學系

學術演講

講 者：Prof. Robert Viator (Denison University, USA)
講 題：Eigenvalues - from Matrices to Sound and Light
時 間：2026/09/24 (Thursday) 14:10 ~ 15:00
地 點：理 SC4009-1 教室
茶 會：13:30

Abstract

The eigenvalue problem is one that most mathematicians see early in their college education - usually in a first course in linear algebra, in the context of matrices. To applied mathematicians and scientists, however, this simply-stated problem contains a wellspring of insights into acoustics, electromagnetism, and much more. Starting with the matrix eigenvalue problem in the plane, we'll walk through the important features of eigenvalues and eigenvectors, as well as how the problem generalizes readily to differential equations, in particular those related to vibrations of strings and drumheads. Given time, we will also explore how the eigenvalue problem appears at the intersection of electromagnetism and materials science, namely, the mathematics of high-contrast photonic crystals.

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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