

# 國立交通大學應用數學系 學術演講公告

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講 題：The Numerical Range Of A Matrix

時 間：106 年 12 月 12 日(星期二) 下午 2:00 –3:00

地 點：(光復校區) 科學一館 223 室

茶 會：當天下午 1:30 (科學一館 205 室)

## Abstract

For any  $n$ -by- $n$  complex matrix  $A$ , its numerical range  $W(A)$  is, by definition, the subset  $\{x^*Ax : x \in \mathbb{C}^n, x^*x = 1\}$  of the complex plane  $\mathbb{C}$ .  $W(A)$  is a nonempty compact convex subset of  $\mathbb{C}$ . Like the spectrum,  $W(A)$  is a set that can be used to learn something about the matrix  $A$ , and it can often give information that the spectrum alone cannot give. In this talk, we start to present some basic properties of the numerical range of a matrix. Then we will introduce some recent results and problems on this topic.

敬請公告 歡迎參加

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