

# 國立中山大學應用數學系

## 學術演講

講者：陳清祥 教授 (University of Southern Mississippi)

講題：Effective condition number for the selection of the RBF shape parameter with the fictitious point method

時間：2022/06/09 (Thursday) 15:30 ~ 16:30

地點：視訊演講

Google Meet Link：<https://meet.google.com/wmn-ahbe-yji>



### Abstract

Based on the Uncertainty Principle of radial basis functions (RBFs), it is known that the condition number and the error cannot be both kept small at the same time. In contrast to the traditional condition number, the effective condition number provides a much better estimation of the actual condition number of the resultant matrix system. In this talk, motivated by the Uncertainty Principle of RBFs, we propose to apply the effective condition number as a numerical tool to determine a reasonably good shape parameter value in the context of the Kansa method coupled with the fictitious point method.

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](http://math.nsysu.edu.tw/var/file/183/1183/img/779/nsysu_math_map.jpg)

交通資訊：<https://www.nsysu.edu.tw/p/412-1000-4132.php?Lang=zh-tw>



用數學系



校園地圖



交通資訊