

# 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, USA)

講題：Kansa RBF collocation method with auxiliary boundary  
Centers for high order BVPs

時間：2021/10/28 (Thursday) 15:10 ~ 16:00

地點：理 SC4011 教室

茶會：14:30

### Abstract

In this study we apply a Kansa--radial basis function (RBF) collocation method to 2D and 3D boundary value problems (BVPs) governed by high order partial differential equations (PDEs) of order  $2N$  where  $N \geq 3$ . As in such problems there are  $N$  boundary conditions (BCs),  $N$  distinct sets of boundary centers are needed. These could all be placed on the boundary with each set being different to the other or, alternatively, each set of boundary centers could be placed on a corresponding distinct curve surrounding the boundary of the problem. We apply these approaches to several 2D and 3D high order BVPs.

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