

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 method with auxiliary boundary centres for fourth order BVPs

時間：2020/12/24 (Thursday) 15:30 ~ 16:30

地點：理學院四樓理 SC 4009-1 教室

茶會：15:00 於理 SC 4010 室 (系辦公室)

Abstract

In this talk, we consider the application of the Kansa--radial basis function (RBF) collocation method to two--dimensional fourth order boundary value problems (BVPs). The presence of two boundary conditions makes it necessary to use a second set of centres corresponding to the second boundary condition. One option is to take these centres on the boundary but at different positions to the original boundary centres. A second option is to place them on a curve surrounding the physical boundary of the problem under consideration. The two approaches are applied to several numerical examples and their results are compared and analyzed.

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