

國立中山大學應用數學系

學術演講

講者：Dr. Mahsa N. Shirazi (University of Manitoba)

講題：on weakly Hadamard diagonalizable graphs

時間：2023/10/26 (Thursday) 14:10~15:00

地點：理 SC 4009-1 教室

茶會：13:30

Abstract

An interesting question in the spectral graph theory is about the structure of the eigenvectors of matrices associated with graphs. A graph is weakly Hadamard diagonalizable (WHD) if its Laplacian matrix L can be diagonalized with a weakly Hadamard matrix. In other words, if $L = PDP^{-1}$, where D is a diagonal matrix and P has the property that all entries in P are from $\{0, -1, 1\}$ and that PtP is a tridiagonal matrix. In this talk, I will present some necessary and sufficient conditions for a graph to be WHD. Also some families of graphs which are WHD, will be presented. This work is part of a research project done with the discrete math research group (DMRG) at the University of Regina.

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