

Applied Mathematics Seminar

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Completion problem for 3 by 3 Hankel matrices

Abstract:

A Hankel partial contraction is a Hankel matrix such that not all of its entries are determined, but in which every well-defined submatrix is a contraction. In this talk, we find concrete necessary and sufficient conditions for the existence of contractive completions of Hankel partial contractions of size 3 by 3 cases using the Moore-Penrose inverse of a matrix.

This is a joint work with Professor Yoon.

Date: Wednesday, November, 4, 2015 Time: 3:05-4:00PM

Place: MAGC 1.318

Coffee will be served. For further information or for special accommodations, please contact: Ranadhir Roy at 665-2371 or via email at ranadhir.roy@utrgv.edu