Pure Mathematics Seminar

Completion problem for 4 by 4 Hankel matrices

Mr. Manuel Villarreal Jr.
School of Mathematical & Statistical Sciences, UTRGV

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 4 by 4 cases using the Moore-Penrose inverse of a matrix. This is a joint work with Professor Yoon.

Date: **Friday, November 20, 2015**
Time: **11:00 am**
Place: **Edinburg:** MAGC 1.302, **Brownsville:** UBLB 3.102

The talk will delivered live at the Edinburg campus and will be streamed to the Brownsville campus

Coffee and cookies will be served.

For further information or for special accommodations, please contact Dr. Sergey Grigorian via email at [sergey.grigorian@utrgv.edu], or Dr. Alexey Garber at [alexey.garber@utrgv.edu], or visit the webpage [http://blue.utb.edu/dg2012/puremathseminar.html].