



Florida Gulf Coast University

Department of Mathematics

MATHEMATICS SEMINAR

Friday, January 24, 2020
12:30-1:30 pm

Merwin Hall
Room 110

Polynomially isometric matrices in low dimensions



Faculty Speaker: Dr. Alberto Condori

Given a square matrix A , there is no ambiguity in what “squaring a matrix” should mean; A^2 is the product of A with itself. This simple notion can be extended in a natural way to non-negative integer powers and so to more general functions of matrices. In applications, however, the need arises to estimate and compare the size of such functions of matrices. In this talk, we discuss the functional calculus of a matrix, discuss its importance, and introduce the notion of “polynomially isometric” as a way to compare matrices. Moreover, we describe our quest to obtain easy-to-check criteria for recognizing when matrices are polynomially isometric.

LIGHT REFRESHMENTS WILL BE PROVIDED



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