Mathematics, Statistics, and Computer Science   **@ UIC**

Departmental Colloquium

Adjacency and coherency preservers

Peter Semrl (University of Ljubljana, Slovenia)

Abstract: Two matrices are said to be adjacent if their difference is of rank one. Fundamental theorems of geometry of matrices proved by L.-K. Hua describe the general form of bijective maps on various spaces of matrices preserving adjacency in both directions. We will present several recent improvements of these results and some applications in mathematical physics.

Monday, November 2 at 3:00 PM in SEO 636