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**Department of Mathematics and Statistics**

**COLLOQUIUM**

**Tuesday, September 15th, 2015**

4:00 – 5:00 pm, Adel Mathematics Bldg., Room 164

(refreshments at 3:45)

Sudipta Mallik

NAU

Structured Inverse Eigenvalue Problems

Abstract: We know how to find n eigenvalues of an nxn matrix A. Now suppose n real numbers are given and positions of zero-nonzero entries of an nxn matrix are specified. Is there an nxn matrix A with the given n real number as its eigenvalues and with the specified zero-nonzero pattern? An introduction to this kind of structured inverse eigenvalue problems will be presented. I will also mention a related work by Monfared-Mallik which gives a spectral characterization of matchings in graphs.

Algebra Combinatorics Geometry and Topology (ACGT) Seminar meets every Tuesday, 12:45 – 1:45 pm, AMB 164.

Applied Math Seminar (AMS) will meet occasionally on Thursdays, 12:45 – 1:45 pm, AMB 164, as announced.

Friday Afternoon Undergraduate Mathematics Seminar (FAMUS) meets Fridays, 3pm, AMB 164.