

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

Tom Lenagan

University of Edinburgh

will speak on

Totally positive matrices

ABSTRACT: A real matrix is totally positive if all of its minors are positive. More generally, a matrix is totally non-negative if all of its minors are non-negative. Totally positive/non-negative matrices arise in many areas; for example, oscillations in mechanical systems, stochastic processes and approximation theory, planar resistor networks, etc.

This talk will be an elementary introduction to the theory of totally non-negative matrices and the associated study of the non-negative real grassmannian.

MONDAY, 4 MAY 2009

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3-5 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS