

Mark Skandera
Haverford College

Total Nonnegativity

A matrix is called totally nonnegative if each of its square submatrices has a nonnegative determinant. Such matrices arise in a variety of applications such as differential equations, chemistry, stochastic processes and more. We will discuss combinatorial interpretations of such matrices. Some familiarity with linear algebra will be helpful but not necessary. This talk is intended primarily for undergraduates.