

TEMPLE

MATH CLUB

**Introduction to total nonnegativity -
Mark Skandera**

WHEN

**November 7th 2024
5-6 PM**

WHERE

Wachman Hall 617

A matrix is called totally nonnegative if each minor (determinant of a square submatrix) of the matrix is nonnegative. Such matrices arise in many areas of mathematics and also in the natural sciences. We will analyze the appearance of permutations in the definition of determinant to study connections between totally nonnegative matrices and graph theory. We will also consider an application to the study of benzenoid hydrocarbon molecules.

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