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Totally nonnegative matrices

A real matrix is *totally nonnegative* if each of its minors is nonnegative, and is *totally positive* if each minor is greater than zero. We will outline connections between the theory of total nonnegativity and the prime spectrum of the algebra of quantum matrices, and will discuss some new and old results about total nonnegativity which may be obtained using methods derived from quantum matrix methods. Most of the material is joint work with Stéphane Launois and Ken Goodearl.