

Department of Applied Mathematics and Statistics  
The Johns Hopkins University

**SEMINAR**

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March 11, 2004  
304 Whitehead Hall  
Refreshments: 3:30 p.m.  
Seminar: 4:00 p.m.

**EIGENVALUES, SINGULAR VALUES, AND  
LITTLEWOOD–RICHARDSON COEFFICIENTS**

**ABSTRACT**

We discuss some recent results on inequalities relating the eigenvalues and singular values of a complex Hermitian (resp., real and complex symmetric) matrix and those of its submatrices. The proofs depend heavily on Littlewood–Richardson coefficients in the study of algebraic combinatorics.