

TEMPLE

MATH CLUB

**Eigenvalues of Random
Matrices— Luke Peilen**

WHEN

April 4 2024

5-6 PM

WHERE

Wachman Hall 617

Random matrix theory is an active research area in contemporary mathematics, with a plethora of interesting techniques and numerous applications in physics, statistics, and even within math itself. In this survey, we will introduce the basics of what a random matrix is and why we care. We will discuss some of the historical development of the theory and early results of various statistics related to the eigenvalues of these matrices. We will also discuss specifically some contemporary connections in physics and number theory.

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