

STANFORD UNIVERSITY
DEPARTMENT OF STATISTICS
DEPARTMENTAL SEMINAR

4:15 p.m., Tuesday, February 1, 2000
Sequoia Hall Rm. 200
(Cookies at 3:45 in 1st Floor Lounge)

Persi Diaconis
Stanford University

Random matrix theory and the zeros of Riemann's zeta function

The eigenvalues of typical orthogonal matrices show remarkable patterns in their eigenvalues. I will explain some the patterns and show that they occur in the zeros of the zeta function. This introduces large data sets that fit classical distributions (e.g. the exponential) to remarkable accuracy. This is joint work with Marc Coram.