

1137-46-296

Mihai Stoiciu* (mstoiciu@williams.edu), Williams College - Mathematics and Statistics,
Bascom House, 33 Stetson Ct, Williamstown, MA 01267. *Numerical Investigations of the
Eigenvalue Distribution of Random Hermitian and Unitary Operators*. Preliminary report.

We will present several numerical investigations of the distribution of the eigenvalues of various classes of random self-adjoint and unitary operators. In particular we will investigate the microscopic eigenvalue statistics and the microscopic level spacings, as well as the global eigenvalue distribution and the global eigenvalue spacing distribution. We will present cases which exhibit Poisson and picket fence eigenvalue distribution, as well as cases with weak eigenvalue repulsion. (Received February 05, 2018)