

Description of activities

In this group, we are looking at several problems involving random matrices arising in the context of wireless communications. J. Silverstein and D. Paul are involved in a project that looks into the behavior of the eigenvalue statistics, such as empirical spectral distribution, separation of eigenvalues from the bulk spectrum etc for the random matrices appearing in MIMO and CDMA systems. The problems we are considering are also relevant in spatio-temporal signal processing. In the latter case we are also interested in investigating the properties of the sample eigenspaces.