Equidistribution and β-ensembles

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In this talk we will find the precise rate at which the empirical measure associated to a β-ensemble converges to its limiting measure. In our setting the β-ensemble is a random point process on a compact complex manifolds distributed according to the β power of a determinant of sections in a positive line bundle. A particular case, is the spherical ensemble of generalized random eigenvalues of pairs of matrices with independent identically distributed Gaussian entries.