Asymptotic gap probability distributions of the Gaussian Unitary Ensembles and Jacobi Unitary

by

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This talk is "really" about the smallest eigenvalue distribution of the Laguerre Unitary Ensembles. In the process one also finds the smallest eigenvalue distribution of Jacobi unitary ensembles. Under something call double scaling, constants in the asymptotic expansions are express interms of the Barnes G-function.