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Distribution of Hecke eigenvalues for holomorphic Siegel modular forms

We present two results on the distribution of Hecke eigenvalues of holomorphic Siegel modular forms. The first is the average Sato-Tate distribution, and the second is the Gaussian central limit theorem. The main tool is the vertical Sato-Tate theorem proved using Arthur's invariant trace formula. This is a joint work with S. Wakatsuki and T. Yamauchi.