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Distribution of zeros of Hecke L -functions and the least prime ideal

We discuss explicit results on the distribution of zeros of Hecke L -functions along with how it relates to bounding the least norm of a prime ideal in the Chebotarev Density Theorem. In particular, we exhibit quantitative versions of a “log-free” zero density estimate and a zero repulsion phenomenon for Hecke L -functions.

This is joint work with Jesse Thorner.