

The Second Moment of Dirichlet Twists of Hecke L-Functions

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School of Physical and Mathematical Sciences

For a fixed Hecke cusp form f , consider the L-function of f twisted by a primitive Dirichlet character. As we range over all primitive characters of a large modulus q , the average behavior of the square of the central value of this L-function is known, due to Stefanicki, only for q having very few prime factors, and we extend this to almost all q . This is joint work with R. Khan and G. Ricotta.

Host: Prof. Zhao Liangyi, Division of Mathematical Sciences, School of Physical and Mathematical Sciences

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