

学术报告

Mean values of divisors twisted by quadratic characters

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Venue: Room 112, Center for Applied Mathematics

Abstract: In 2000, J. B. Conrey, D. W. Farmer, and K. Soundararajan found an asymptotic formula for all $X, Y > 0$ of the following character sum:

$$\sum_{m \leq X, n \leq Y} \left(\frac{m}{n}\right).$$

It is relatively easy to obtain such an asymptotic formula when X, Y are far apart in size. However, things are much subtler when X and Y are of comparable size. In this talk, we consider an analogue case by establishing the mean values of divisors twisted by quadratic characters. Other similar results will also be discussed.

欢迎大家参加！