

Séminaire de théorie des nombres

Le 22 septembre 2008 à 14h

Non-vanishing of L-functions of half-integral weight

Exposé de B. Ramakrishnan (Harish-Chandra Research Institute)

Résumé : In this talk we report about our joint work with V. Kumar Murty and M. Manickam on the twisted averages of L -functions of integral and half integral weight modular forms. We show that given a half integral weight form f of weight $k + 1/2$, for sufficiently large primes l , a positive proportion of twists $L(f, \chi, k/2 + 1/4)$ by characters $\chi \pmod{l}$ are non zero. This is not known in the case of integral weight forms.