

SÉMINAIRE DE THÉORIE DES NOMBRES

(<http://www.iecn.u-nancy.fr> → Recherche → Séminaire → Théorie des nombres)

à 14h30 en Salle de Séminaires

jeudi 9 décembre 2004

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Bounds for automorphic L -functions

Résumé

We prove a subconvexity bound for Rankin-Selberg L -functions $L(s, f \times g)$ associated with a Maass cusp form f and a fixed cusp form g in the aspect of the Laplace eigenvalue $1/4 + k^2$ of f , on the critical line $\Re s = 1/2$. Using this subconvexity bound, we prove the equidistribution conjecture of Rudnick and Sarnak on quantum unique ergodicity for dihedral Maass forms. Also proved here is that the generalized Lindelöf hypothesis for the central value of our L -function is true on average.