



Theoretical Statistics and Mathematics Unit

Seminar

Date: November 11, 2016

Time: 04:15 PM

Venue: L-Infinity, Stat-Math Unit (5th Floor, A.N. Kolmogorov Bhavan)

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Orthogonality relation between the Mobius function, additive characters and the squares of the Fourier coefficients of cusp forms.

Abstract

Let $\lambda_f(n)$ denote the normalized n -th Fourier coefficients of a Hecke-Maass cusp form over the full modular group. We establish a non-trivial bound for the linear sum $\sum_{n \leq x} \lambda_f(n)^2 \mu(n) e(n\alpha)$, where α is any real number.

All are cordially invited