

ALGEBRA
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A determining condition of Hilbert modular forms

Yuuki Takai
Keio University

Abstract: The elliptic holomorphic modular forms of weight k and level $\Gamma_1(N)$ are determined by the first $(k/12)[\Gamma_1(1) : \Gamma_1(N)]$ Fourier coefficients. The mod ℓ analogue of the fact is called Sturm's theorem. In this talk, I will give a generalization of the first fact and Sturm's theorem for Hilbert modular forms. To prove them, I use geometric properties of some compactifications of Hilbert modular varieties.

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