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Waldspurger formula for Hilbert modular forms

In this talk we will describe a construction of preimages for the Shimura map on Hilbert modular and explain how we obtain an explicit Waldspurger type formula relating their Fourier coefficients to central values of twisted L -functions.

Our construction is inspired by that of Gross and applies to any nontrivial level and arbitrary base field, subject to certain conditions on the Atkin-Lehner eigenvalues and on the weight.

This is joint work with Nicolás Sirolli.