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A trace formula for Hilbert modular forms

We present an explicit trace formula for Hilbert modular forms. The Jacquet-Langlands correspondence relates spaces of Hilbert modular forms to spaces of quaternionic modular forms; the latter being far more amenable to computations. We discuss how to compute traces of Hecke operators on spaces of quaternionic modular forms and provide explicit examples for some definite quaternion algebras.