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Determining Hilbert modular forms by the central values of Rankin-Selberg convolutions

We show that the central values of Rankin-Selberg convolutions, $L(f \otimes g, 1/2)$, uniquely determine a Hilbert modular form g , where f varies in a carefully chosen infinite family of Hilbert modular forms. We prove our results in both the level and weight aspects. This is a joint work with Naomi Tanabe.