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Cesar Valverde* (cvalverd@rutgers.edu). *A generalization of a result of Kohnen.*

Let f and g be Hecke eigenforms of weights $2k$ and $k + 1/2$ related via Shimura correspondence. Kohnen has proved an equality relating a period integral of f to a Fourier coefficient of g . Work of Waldspurger implies that the square of this period of f is related to the value at $1/2$ of the base change L -series attached to f . We propose a generalization of these results to higher rank. The result will follow from a comparison between geometric sides of the Relative Trace Formula on GL_{2n} and \widetilde{Sp}_n . (Received June 26, 2011)