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*Fourier coefficients of the Yoshida Lift*

The Yoshida lift is an instance of theta lifting, which in this case takes a pair of automorphic forms on the multiplicative group of a definite quaternion algebra to a holomorphic cusp form on $GSp_4$. Liftings such as these are of interest to number theorists since they frequently give rise to non-trivial congruences between (the Fourier coefficients of) automorphic forms. Using the Yoshida lift as an example, we will present a technique for computing Fourier coefficients of theta liftings that seems well suited for addressing the question integrality.