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p-adic families of Yoshida lifts

We construct a Hida family of Yoshida lifts for two given Hida families of modular forms, and compute the Petersson inner products of its specializations. The key step in the construction is to choose suitable Schwartz functions at p. The computation of the Petersson inner products can be viewed as a generalization of the computation in the works by Bocherer–Dummigan–Schulze-Pillot and Hsieh–Namikawa. Our computation makes use of an equivariant property of the chosen Schwartz functions at p for the action of U_p operators. This is an ongoing joint work with Ming-Lun Hsieh.