

YOSHIDA LIFTS OF ARBITRARY LEVEL AND RATIOS OF PETERSSON NORMS

ABHISHEK SAHA

ABSTRACT. I will give a representation-theoretic account of holomorphic Siegel cusp forms of degree 2 whose spin L -function is the product of two modular L -functions at almost all places. Such forms are known as Yoshida lifts. I will also prove an algebraicity property for the ratio of Petersson norms attached to these lifts that is analogous to known results in the case of Saito-Kurokawa lifts.