FAMILIES OF SIEGEL MODULAR FORMS AND GALOIS REPRESENTATIONS

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We first recall Hida's geometric construction of p-adic Siegel modular forms and the existence of families of ordinary Siegel modular forms (following Hida and Pilloni), together with the Galois representations associated to these families. Then, we will discuss the finite slope case, and the existence of families of overconvergent Siegel modular forms, based on the theory of the canonical subgroup (by Andreatta-Iovita-Pilloni), resp. on the overconvergence of the monodromy (by Brinon-Mokrane-T.) together with the Galois representations associated to these families.