

I'll present a program by Hida and myself to determine the maximal congruence subgroup contained in the image of the Galois representation associated to a non CAP non endoscopic Hida family of cuspidal automorphic representations, say, of  $GSp_4(\mathbb{Q})$ . In a recent work, Hida realized this program for  $GL(2)$  using Pink's theory of integral Lie subalgebras of  $\text{Lie}(\text{SL}(2))$ ; in higher rank case, we use instead Lazard's theory of integral Lie algebras.