VINCENT SECHERRE, Université de la Méditerranée–Aix Marseille 2 *l-modular representations of inner forms of* GL(n) *over a p-adic field with l different from p*

Let G be an inner form of GL(n) over a p-adic field, and let l be a prime number different from p. Our aim is to give a classification of all irreducible smooth l-modular representations of G in terms of the discrete series of its Levi subgroups. Such a classification has been obtained for GL(n) by Zelevinsky (for complex representations) and by Vigneras (for l-modular representations). This work relies in particular on the study of the reduction modulo l of irreducible l-adic representations of G. It appears that, unlike the GL(n) case, integral cuspidal l-adic representations of G may not reduce into irreducible l-modular representations. We study and explain this phenomenon by using the theory of simple types.

Joint work with Alberto Minguez.