## LASSINA DEMBELE, University of Luxembourg

Explicit Inertial Langlands correspondence for  $\mathrm{GL}_2$  and arithmetic applications

In this talk we will describe an algorithm for computing automorphic inertial types for  $\mathrm{GL}_2$ . Then, we will give several arithmetic applications of this. (This is joint work with Nuno Freitas and John Voight.)