

Torsion points on CM abelian varieties

Éric GAUDRON

Université Clermont-Auvergne

We shall present a work with Gaël Rémond where we improve on a result of Silverberg giving an upper bound for the order of a rational torsion point on a CM abelian variety over a number field in terms of the degree of the field and the dimension of the variety. The proof uses the main theorem of complex multiplication and class field theory.