

Speaker: Stefano Marseglia

Title: Cohen-Macaulay type of endomorphism rings of abelian varieties over finite fields

Abstract. In this talk, we will speak about the (Cohen-Macaulay) type of the endomorphism ring of abelian varieties over a finite field with commutative endomorphism algebra. We will exhibit a condition on the type of $\text{End}(A)$ implying that A cannot be isomorphic to its dual. In particular, such an A cannot be principally polarised or a Jacobian.

N.B. This is partly joint work with Caleb Springer.