

Giancarlo Lucchini Arteché

Title: Smooth quotients of abelian varieties by finite groups

Abstract: Let G be a finite group acting on an abelian variety A fixing the origin and consider the quotient variety A/G . A natural question one could ask is whether this quotient is smooth. In a joint work with Robert Auffarth, we classify the pairs (A, G) with this property, which turn out to be quite scarce. In this talk, I will give an outline of the proof of such a result and hint some possible applications.