

Explicit bound for a conjecture of Lang on curves over function fields

Amílcar Pacheco (Universidade Federal do Rio de Janeiro, Brazil)

Abstract:

Let K be a one variable function field over a finite field of characteristic p , X a non-isotrivial smooth, projective, geometrically connected curve over K of genus $d \geq 2$ with Jacobian variety J . Suppose $p > 2d + 1$. Let K_s be a separable closure of K and Γ a subgroup of $J(K_s)$ such that $\Gamma/p\Gamma$ is finite. Give an explicit bound for the number of points of X which lie on Γ . This is joint work with F. Pazuki.