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 $d\ge2$ 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.