11th ALGA Meeting

Maresias, São Paulo, from 10/16 to 10/22.

Speaker: Amílcar Pacheco (UFRJ, Brazil)

Title: Rational points of abelian varieties in pro-p towers of function fields

Abstract: Given a non constant abelian variety defined over the function field of a curve over a finite field, we discuss conditions under which the Lang-Néron theorem holds for a particular infinite extension of the function field. Namely, we consider a Galois extension whose Galois is a pro-p p-adic Lie group of finite dimension without non-trivial p-torsion elements, where p is different from the characteristic of the finite field.