Algebra and Number Theory Seminar

Title: PhD Defence: Classification of Isogeny classes of Supersingular Abelian Varieties over Finite Fields

Speaker: Vijaykumar Singh

Date: Thu 9th June 2011 at 2:30PM

Location: Mathematical Sciences Seminar Room

Abstract: We study the intersection of two particular Fermat hyper-surfaces in $P^3 over a finite field. Us$
$Rosen decomposition we study arithmetic properties of this curve in terms of its quotients. Explicit comp$
$rank, zeta function, and number of rational points, of the modulo reduction of the curve. We show that$
$split. We also give a complete classification of the isogeny classes of supersingular abelian varieties for$
$Tate Theory.$