



Seminar

K-Theory, Quadratic Forms and Number Theory

Title: On the Lefshetz Standard Conjecture

Speaker: Dr Jose J. Ramon Mari

Date: Wed 14th February 2007 at 5:00PM

Location: Mathematical Sciences Seminar Room

Abstract: The subject of the talk will be Grothendieck's Lefshetz standard conjecture $B(X)$, which says that a certain operator, Λ , on the cohomology of the smooth projective variety X is algebraic. Our main result is that if X has dimension n , and if $B(Y)$ holds for all smooth projective varieties Y of dimension $n-1$ over the field $k(t)$, then $\Lambda - p$ is algebraic, where p is the restriction of Λ to a certain small subspace of cohomology.