Séminaire de théorie des nombres

Le 21 Mars 2011 à 14
h $% \left(1-\frac{1}{2}\right) =0$

Hodge classes on certain hyperelliptic jacobians and prymians

Exposé de Yuri Zarhin (Pennsylvania State University)

Résumé : Let f(x) be a degree *n* complex polynomial without multiple roots, $C_f : y^2 = f(x)$ the corresponding hyperelliptic curve and $J(C_f)$ its jacobian. We discuss the structure of endomorphism rings/Hodge groups of $J(C_f)$ and (unramified) Prym varieties of C_f under an additional assumption that there is a subfield K of the field of complex numbers such that all the coefficients of f(x) lie in K and the Galois group of f(x) over K is "very big".