

TEMPLE UNIVERSITY MATHEMATICS COLLOQUIUM

Claire Voisin

Ecole Polytechnique and IAS

will speak on

Hodge structures, coniveau and algebraic cycles

ABSTRACT: My talk will be a broad introduction to what is the (mostly conjectural) higher dimensional generalization of Abel's theorem on divisors on Riemann surfaces, namely, the relationship between the structure of the group of algebraic cycles on a complex projective algebraic variety and the complexity of its so-called Hodge structures.

A key notion is that of "coniveau" of cohomology.

MONDAY, NOVEMBER 10

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:40 PM

ROOM 617, WACHMAN HALL

DEPARTMENT OF MATHEMATICS