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COLLOQUIO DE GIORGI

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“Algebraic varieties over small fields”

Abstract

In my talk I will discuss some of our new results (mostly obtained in joint works with Yuri Tschinkel) on the structure of closed points on some algebraic varieties defined over \overline{F}_p (algebraic closure of finite field) and \overline{Q} .

As it happens the corresponding varieties have many special geometric properties which distinguish them from the algebraic varieties defined over bigger fields(for example over complex numbers or $\overline{F}_{p(t)}$

In particular I will discuss our results on rational connectedness of Kummer K3-surfaces defined over \overline{F}_p . This result highlights the difference between complex geometry (where it is not true) and geometry over small fields.

Martedì 21 ottobre 2008

ore 16.00

Aula Mancini

Piazza dei Cavalieri, 7

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