



SCUOLA
NORMALE
SUPERIORE

SEMINARIO DI MATEMATICA

mercoledì 06 Luglio 2011

ore 15.00

Scuola Normale Superiore

Pisa

(Aula Fermi)

Zinovy Reichstein

University of British Columbia, Canada

Terrà un seminario dal titolo:

“Versal torsors with a twist”

Abstract:

Let G be a linear algebraic group acting on an algebraic variety X . Informally speaking, this action is versal if every G -torsor over a field can be obtained by specialization from X . Here the term “versal” is best understood by subtracting “unique” from both sides of the formula $UNIVERSAL = UNIQUE + VERSAL$. The notion of versality and its variants play an important role in Galois theory, in the theory of central simple algebras and in the theory of quadratic forms. In this talk, based on joint work with Alex Duncan, I will address the following “recognition problem”: Determine whether or not a given G -action is versal. The main idea is to relate versality to existence of rational points on certain twisted forms of X . I will state a versality criterion based on this idea and discuss a number of applications.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze