



SCUOLA
NORMALE
SUPERIORE

SEMINARIO MATEMATICA

Martedì 5 marzo 2013
ore 16:00

Scuola Normale Superiore
Pisa
Aula Mancini

Laura Capuano
Scuola Normale Superiore

Terrà un seminario dal titolo:

“Some estimates about rational points of bounded height and applications to Diophantine Geometry”

Abstract:

The problem of counting rational points has been studied since a long time. In 2006 Pila and Wilkie succeeded in finding good estimates for a big class of sets (definable in an O -minimal structure) using some powerful tools due to logical theory.

They estimated the number of rational points of bounded height T that lie in the set but not in its "algebraic part".

In his later works Pila generalized the previous theorem showing that similar estimates can be obtained if you eliminate from the set a "smaller part" of the algebraic one, introducing the new notion of "blocks".

These tools have lots of applications in Diophantine Geometry; we will see how this method can be used for counting rational points of bounded degree on a transcendental curve.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze