



SCUOLA  
NORMALE  
SUPERIORE  
PISA

## SEMINARIO DI MATEMATICA

**mercoledì 28 marzo 2007**

ore 16.00

Scuola Normale Superiore

Pisa

(Aula Russo)

**Niels Borne**

*Université de Lille*

Terrà un seminario dal titolo:

***“An algebraic approach of fundamental groups of pointed curves”***

### ***Abstract***

*Let  $X$  be a smooth projective algebraic curve over an algebraically closed field of characteristic zero, and  $D$  a finite set of points. Then the étale fundamental group of  $X-D$  (that by definition classifies finite covers of  $X$  unramified outside of  $D$ ) is well known by analytic methods : this is the (profinite) topological fundamental group of a Riemann surface of same genus. A famous problem is to find an algebraic proof of this fact. I will start with the central example where  $X$  is the projective line minus 3 points, and show that we can describe algebraically the solvable covers in this case. Then I will describe a more general attempt, based on parabolic sheaves.*

Tutti gli interessati sono invitati a partecipare.

La Segreteria della  
Classe di Scienze