



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI SISTEMI DINAMICI

**Mercoledì 16 novembre 2011**

ore 14.00

Scuola Normale Superiore

Pisa

(Aula Mancini)

**Claire Chavaudret**

*Université de Nice*

Terrà un seminario dal titolo:

### **“Reducibility of quasiperiodic linear systems under a Brjuno-Rüssmann arithmetical condition”**

**Abstract:**

*Linear quasiperiodic systems can have complicated dynamics, however they are well understood in the case when they are reducible, i.e when they can be conjugated to a system with constant coefficients. If the frequency vector of the system is diophantine, it is known that reducibility happens most of the time. As in other linearization problems, there is the problem of finding an optimal arithmetical condition on the frequency vector (and, in 2-dimensional systems, on the rotation number) which will imply reducibility. Using a slow convergence KAM scheme, we will see a link between reducibility of 2-dimensional quasiperiodic systems and a Brjuno condition (which is weaker than the diophantine condition) both on the frequency vector and on the rotation number.*

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze