



SCUOLA
NORMALE
SUPERIORE

SEMINARI DI SISTEMI DINAMICI OLOMORFI

Mercoledì 8 giugno 2011

Ore 14.00

Scuola Normale Superiore

Pisa

(Sala Conferenze Collegio Puteano)

Jean-Pierre Marco

Paris 6

Terrà un seminario dal titolo:

“Generic hyperbolic properties of classical systems on the torus T^2 ”

Abstract:

One main problem in proving the existence of long diffusion orbits for perturbations of integrable systems in action-angle form is to understand the structure of generic classical systems on the torus T^2 (this is the problem of transition at double resonances). We will prove the existence in such systems of chains of hyperbolic cylinders (one-parameter families of hyperbolic orbits) which realize fixed homology classes in projection on T^2 , and we will discuss the problem of accumulation of such cylinders to homoclinic orbits of the hyperbolic fixed point of generic classical systems.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze