

SEMINAIRE D'ANALYSE

VENDREDI 5 avril 2019 à 14h15 - salle MA B1 11

Le Prof. Gérard IOOSS (Prof. IUF émérite, LJAD, Nice)
donnera un séminaire sur le thème:

« EXISTENCE OF QUASIPATTERNS IN THE SUPERPOSITION OF
TWO HEXAGONAL PERIODIC PATTERNS »

Abstract:

Let us consider a quasilattice, spanned by the superposition of two hexagonal lattices in the plane, differing by a rotation of angle β . We study bifurcating quasipattern solutions of the Swift-Hohenberg PDE, built on such a quasilattice, invariant under rotations of angle $\pi/3$. For nearly all β , this is a small divisor problem. We prove that in addition to the classical hexagonal patterns, there exist two branches of bifurcating quasipatterns, with equal amplitudes on each basic lattice.

Lausanne, le 7 mars 2019

BB/MC/JK

Les séminaires qui ont lieu à la Section de Mathématiques sont annoncés sur Internet
<http://memento.epfl.ch/math/>