Stanford Department of Mathematics Colloquium

SYMPLECTIC HOMOGENIZATION AND APPLICATIONS

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Abstract

The question of the convergence of a sequence of Hamiltonians $H(kq, p)$ for (q, p) on the torus is a problem that has appeared in different contexts: Dynamical systems, PDE, etc... We here explain how a symplectic topology point of view can yield a solution which, among other advantages, does not require convexity. If time permits, we shall try to explain how this is related to a (partial) extension of Aubry-Mather theory to the non-convex framework.

Thursday, April 1
4:15 p.m.
Bldg. 380, Room 380-W.

http://math.stanford.edu/coll/0809/