MECCANICA

A CONFERENCE IN HONOR OF SANDRO GRAFFI ON HIS 65TH BIRTHDAY

CLAUDE VITERBO

(ECOLE POLYTECHNIQUE, FRANCE)

Symplectic Homogenization

We show that in a suitable sense the sequence $k \longrightarrow H(k \cdot q, p)$ of Hamiltonians converges to an integrable Hamiltonian $\overline{H}(p)$. We shall give a number of applications of this result, mostly to dynamics and symplectic geometry.