

(Quasi)periodic structures in some elliptic PDEs *

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Abstract

We consider the functional

$$\int A(x, \nabla u) + W(x, u) dx,$$

where A is a “kinetic” term and W a “double-well” potential. We construct some (quasi)periodic solutions and deal with some geometric properties (such as density estimates, convergence of level sets and one-dimensional-simmetry).

*oral communication.