

On some nonlinear Schrödinger systems

Antonio Ambrosetti

The following topics will be discussed:

1. Existence of multi-bump solitons for a class of nonlinear Schrödinger systems arising in Optics.
2. Multiplicity results for a system of nonlinear Schrödinger equation coupled with a Poisson equation.

The results are contained in recent joint works with E. Colorado and D. Ruiz.