

# NONTRIVIAL SOLUTIONS FOR A SUPERLINEAR HAMILTONIAN ELLIPTIC SYSTEM ON $\mathbb{R}^n$

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## Abstract

In this paper, we study a class of Hamiltonian elliptic system and obtain the existence and multiplicity results under some suitable assumptions. Moreover, we get the existence of sign-changing solutions with a prescribed number of nodes.

## Hosted file

6.7 Hamiltonian.pdf available at <https://authorea.com/users/333092/articles/459375-nontrivial-solutions-for-a-superlinear-hamiltonian-elliptic-system-on-r-n>