

Study of existence of solutions for an elliptic $p(x)$ –Kirchhoff-type systems. *

Abdelmalek Brahim , E-mail: b_abdelmalekb@yahoo.com
Souk–Ahras University, Algeria
B. P. E01. 41000 Souk–Ahras, Algeria

Abstract

In this paper we study of the existence of solutions for a class of elliptic system with nonlocal term in \mathbb{R}^N . The main tool used is the variational method, more precisely, the Mountain Pass Theorem.

*2000 Mathematics Subject Classification: 35J60; 35B30; 35B40.

Key words: $p(x)$ -Laplacian, nonlinear elliptic problem, mountain pass theorem, Palais-Smale condition