MULTIPLICITY OF SOLUTIONS FOR A CLASS OF NEUMANN ELLIPTIC SYSTEMS IN ANISOTROPIC SOBOLEV SPACES WITH VARIABLE EXPONENT

MOHAMED SAAD BOUH ELEMINE VALL* and AHMED AHMED

Communicated by J. D. Rossi

Abstract. In this paper, we prove the existence of infinitely many solutions of a system of boundary value problems involving flux boundary conditions in anisotropic variable exponent Sobolev spaces, by applying a critical point variational principle obtained by Ricceri as a consequence of a more general variational principle and the theory of the anisotropic variable exponent Sobolev spaces.

References


**University of Nouakchott Al-Aasriya, Faculty of Science and Technology, Mathematics and Computer Sciences Department, Research Unit Geometry, Algebra, Analysis and Applications (G3A), Nouakchott, Mauritania**

E-mail address: saad2012bouh@gmail.com
E-mail address: ahmedmath2001@gmail.com