

Existence et Unicité des Solutions Faibles du Problème de Steklov

[Existence and uniqueness of weak solution for weighted p-Laplacian Steklov problem]

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ABSTRACT: This paper deals with the equation Steklov. The existence and uniqueness results are obtained by Browder Theorem. Our paper is organized as follow: Section 0.2 contains some basic definitions concerning the nonlinear operators that will be used throughout the paper. Also, we introduce the space setting of the problem and give some basic characteristics, as the equivalent norm and imbedding results. In section 0.3 we state the main result on the existence and uniqueness of weak solutions of the problem (P). (S. A. Khafagy 2011).

KEYWORDS: Weak solutions, weighted p-Laplacian, Steklov problem.