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**Auteur1, Auteur2**

*Laboratoire, Université*

**Abstract**

In the fields of operational research and optimization, linear complementarity problems are widely recognized. But these problems are often difficult to solve. Demonstrating the existence and uniqueness of the solution to such a problem remains a complicated research subject. In this paper, we formulate a theorem and we demonstrate the existence and uniqueness of the solution to a linear complementarity problem.

**Keywords:**

Operational research, optimization, linear complementarity problems, alternatives theorem.

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