

Dedicated to the 35th anniversary of the University of Baia Mare

**A FEEDBACK SOLUTION OF A LINEAR QUADRATIC PROBLEM
FOR BOUNDARY CONTROL OF LAPLACE EQUATION**

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A boundary control problem with quadratic cost functional for *Laplace* equation with boundary condition given by the solution of a differential equation involving control is considered. The form of the feedback for the optimal control is derived. The existence and uniqueness of the solution (in the classical sense) for the *Hamilton* type system is discussed.