

**THE NECESSARY CONDITION OF THE OPTIMALITY
FOR AN OPTIMAL CONTROL PROBLEM FOR
HELMHOLTZ EQUATION WITH NON-LOCAL BOUNDARY
CONDITIONS AND A NONLINEAR FUNCTIONAL**

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Abstract

In the paper, the necessary condition of the optimality for an optimal control problem for Helmholtz equation with non-local boundary conditions has been obtained.

Key words and phrases: Non-local boundary problem; Helmholtz equation.

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