On the solutions of a second order functional-differential equation

VIORICA MUREŞAN

Abstract.

In this paper we consider the following differential equation with linear modification of the argument:

 $-y''(x) + p(x)y(x) + q(x)y(\lambda x) = 0, \quad x \in [-T,T], \quad T > 0, \quad 0 < \lambda < 1.$

We study the properties of the zeroes of the nontrivial solutions. We also give a maximum and minimum principle for the solutions of this equation.

DEPARTMENT OF MATHEMATICS TECHNICAL UNIVERSITY OF CLUJ-NAPOCA *E-mail address*: vmuresan@math.utcluj.ro

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