

On the solutions of a second order functional-differential equation

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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.

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