

Название публикации:

On one upper estimate for the first eigenvalue of a Sturm-Liouville problem with Dirichlet boundary conditions and a weighted integral condition

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Аннотация:

We consider a Sturm-Liouville problem on the interval $(0; 1)$ with Dirichlet boundary conditions and a weighted integral condition on the potential which may have singularities of different orders at the end-points of the interval $(0; 1)$. One upper estimate for the first eigenvalue for some values of parameters in the integral condition is obtained.

Ключевые слова:

Sturm-Liouville problem; first eigenvalue; Dirichlet boundary conditions; weighted integral condition; minimization of the functional; variational principle; boundary-value problem