

Estimates of the first eigenvalue of the elliptic boundary value problem with a parameter

© A.V. Filinovskiy¹

¹ Bauman Moscow State Technical University, Moscow, 105005, Russia

The paper investigates the behavior of the first eigenvalue of the second-order elliptic boundary value problem for large values of a parameter.

Keywords: *second-order elliptic equation, boundary value problem, eigenvalues.*

Filinovskiy A.V. graduated from the Faculty of Computational Mathematics and Cybernetics of Lomonosov Moscow State University in 1981. Dr. Sci. (Phys.&Math.), Professor of the Higher Mathematics Department of Bauman Moscow State Technical University. Author of more than 60 scientific papers. Scientific area: hyperbolic equations, parabolic equations, stabilization of solutions, boundary control, elliptic operators, spectral theory. e-mail: flnv@yandex.ru