

KURBANOV V.M., MIRZOYEV V.S.

ON THE RATE OF EQUICONVERGENCE OF ORTHOGONAL EXPANSION IN  
EIGENFUNCTIONS OF STURM-LIOUVILLE OPERATOR

Abstract

*At the paper Sturm-Liouville operator with summable on the interval  $(0,1)$  coefficient is considered. The rate of equiconvergence of orthogonal expansion of absolutely continuous function by the system of eigenfunctions of Sturm-Liouville operator with the expansion in Fourier trigonometric series of the same function is studied. The estimation for the rate of equiconvergence on the compact of the interval  $(0,1)$  expressed by the continuity modulus of operator's coefficient is obtained.*