Vali M. KURBANOV

ON THE RATE OF EQUICONVERGENCE FOR THE STURM-LIOUVILLE OPERATOR

Abstract

In this paper we consider the problem of local uniform equiconvergence with trigonometric series of orthogonal expansions in a system of eigenfunctions of the Sturm-Liouville operator with real potential $q(x) \in L_1(0,1)$, *for the function* $f(x)$ *from the classes* $W_1^1(0,1)$ *and* $W_2^1(0,1)$, $f(1) = f(0) = 0$. Rate of equiconvergence on every compact is established. Rate of equiconvergence depends on the module continuity of potential.