

Vali M. KURBANOV, Rasim A. SAFAROV

ON UNIFORM CONVERGENCE OF ORTHOGONAL  
EXPANSIONS IN EIGENFUNCTIONS OF  
STURM-LIOUVILLE OPERATOR

Abstract

*In this paper we investigate absolute and uniform convergence on  $\bar{G} = [0, 1]$  of orthogonal expansions of functions from the class  $W_p^1(G)$  ( $p \geq 1$ ),  $G = (0, 1)$ , satisfying the condition  $f(0) = f(1) = 0$  in eigenfunctions of arbitrary self-adjoint expansion of Sturm-Liouville operator.*