## Vali M. KURBANOV, Shamsar H. MAMEDOV

## ON ABSOLUTE AND UNIFORM CONVERGENCE OF BIORTHOGONAL DISTRIBUTION RESPONDING TO THE FOURTH ORDER DIFFERENTIAL OPERATOR

## Abstract

In this paper the differential operator

$$Lu = u^{(4)} + P_2(x)u^{(2)} + P_3(x)u^{(1)} + P_4(x)u$$

with complex-valued coefficients  $P_l(x) \in W_1^{4-l}(G)$ ,  $l = \overline{2,4}$ , is considered on the interval G = (0,1). It is investigated an absolute and uniform convergence of biorthogonal distributions by root functions of the operator L of the functions f(x) from the classes  $W_p^1(G)$ ,  $p \ge 1$ .