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ON INFLUENCE OF SCHRÖDINGER OPERATOR POTENTIAL CONTINUITY MODULE ON EQUICONVERGENCE RATE

Abstract

In the paper the Schrödinger operator with summable potential on the interval $G = (0,1)$ is investigated. The influence of potential continuity module on uniform equiconvergence rate on a compact of biorthogonal expansion in root functions of the given operator with the Fourier trigonometric series is investigated. The equiconvergence rate for the functions from the classes $H_{\mathbf{p}}^{\omega}(G)$, $B_{\mathbf{p},\theta}^{\omega}(G)$, $W_1^1(G)$ and $\mathring{W}_1^1(G)$ is established.