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ON SPECTRUM OF THREE-DIMENSIONAL
BIHARMONIC OPERATOR WITH POINT
INTERACTIONS

Abstract

In the present paper the spectrum of the operator $A = \Delta^2 + \alpha_1 \delta(x - x^{(1)}) + \alpha_2 \delta(x - x^{(2)})$ in the space $L_2(R^3)$ is investigated. It is shown that the essential spectrum and absolutely continuous part of spectrum of the operator A coincide. The transcendental equation is obtained for the determination of negative eigenvalues of the operator A .