

Selfadjoint extensions of singular third-order differential operator and applications

Elgiz Bairamov^b, Meltem Sertbas^a, Zameddin I. Ismailov^c

^bDepartment of Mathematics, Ankara University, Turkey

^{a,c}Department of Mathematics, Karadeniz Technical University, Turkey

^bbairamov@science.ankara.edu.tr, ^am.erolsertbas@gmail.com,

^czameddin.ismailov@gmail.com

Abstract: In this work, a selfadjoint extensions of the minimal operator generated by symmetric linear differential expressions for third order with selfadjoint operator coefficients in the Hilbert space of Hilbert space valued functions defined in right and separated left-right semi-axes in terms of boundary values are investigated. The obtained results are supplied by the applications in both cases.

Keywords: selfadjoint and normal extensions.

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