

Solving inverse Sturm-Liouville problem featuring a constant delay by Chebyshev interpolation method

Abdol Dabbaghian¹, Shahrbanoo Akbarpoor¹, Hikmet Koyunbakan², and Bahram Agheli³

¹Islamic Azad University

²Firat University

³Qaemshahr Islamic Azad University

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Abstract

The inverse nodal problem for Sturm-Liouville operator with a constant delay has been investigated in the present paper. To do so, we have computed the nodal points and nodal lengths. Therefore, we have tried Chebyshev interpolation method to obtain the numerical solution of inverse nodal problem. Following that, a number of numerical examples have been given. The numerical calculations in the present paper have been conducted via pc applying some programs encoded in Matlab software.

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Sample.pdf available at <https://authorea.com/users/360777/articles/482315-solving-inverse-sturm-liouville-problem-featuring-a-constant-delay-by-chebyshev-interpolation-method>



