

**INVERSE PROBLEMS FOR A CONFORMABLE FRACTIONAL
STURM-LIOUVILLE EQUATION WITH THE SPECTRAL BOUNDARY
CONDITIONS**

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ABSTRACT. In this paper, a conformable fractional Sturm-Liouville equation with spectral boundary conditions which includes conformable fractional derivatives is investigated. The uniqueness theorems for the inverse problems of reconstruction of the conformable Sturm-Liouville problem from the Weyl function, from two spectra and from the spectral data are proved.

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