



**THE BUCKLING PROBLEM FOR A BEAM SUBJECT
TO ELASTIC RESTORING AND AXIAL
COMPRESSIVE FORCES**

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Abstract

The inverse problem for a vibrating beam subject to axial compressive and elastic restoring forces is investigated in this paper. This work breaks with convention in that we examine the feasibility of recovering the coefficients of the related boundary value problem from a fixed and finite amount of spectral data.

Keywords and phrases: boundary value problem, variational characterization of eigenvalue, inverse problem.

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