



Department of Mathematics and Statistics

Colloquium

Tuesday February 4

AMB 164 4:00 - 5:00 pm

Generalized Eigenvectors and Sturm-Liouville Eigenfunctions

Jim Swift

Northern Arizona University

Abstract

This talk introduces two eigenvalue problems, (1) The generalized eigenvalue problem, and (2) The Sturm-Liouville eigenvalue problem. We show that a finite difference approximation for a Sturm-Liouville problem yields a generalized eigenvalue problem. The only prerequisite for this talk is Linear Algebra, MAT 316.

Refreshments at 3:45