1046-Z1-1452 **Richard J. Marchand*** (richard.marchand@sru.edu), Department of Mathematics, 009 Patterson Hall, Slippery Rock University, Slippery Rock, PA 16057, and **Timothy J. McDevitt**.
Stabilizing vibrating beams with point-load damping. Preliminary report.

An analysis of the stabilization of a vibrating elastic beam using point-load damping will be presented. The rate at which the system is stabilized depends on the location of the point-load. Animations showing the behavior of the spectrum and the beam itself will be used to demonstrate the level of effectiveness of the damping. (Received September 15, 2008)