1056-35-532 **Roberto Triggiani*** (`rt7u@virginia.edu`), Department of Mathematics, P. O. Box 400137, University of Virginia, Charlottesville, VA 22904. *Uniform stabilization of the system of dynamic elasticity by non-linear boundary dissipation.*

We showed that the system of dynamic elasticity is uniformly stable in its right state space by means of a non-linear, non-local dissipation acting on (a portion of) the boundary. A micro-local argument provides a key a-priori boundary estimate for a corresponding linear problem ($B * L$ continuous in L_2 in time and space). (Received September 11, 2009)