Stabilization properties of memory feedbacks for general decaying kernels

Fatiha Alabau-Boussouira [*]

July 2, 2008

Abstract

We study stabilization properties of visco-elastic materials. For such materials, the feedback operator acts as a convolution operator in time of space second order derivatives of the solution with a time-dependent kernel. We present some of the recent advances for very general decaying kernels.

---

[*]INRIA Projet CORIDA, Université Paul Verlaine-Metz, LMAM, CNRS UMR 7122, Bâtiment A, Ile du Saulcy, 57045 METZ Cedex 01, FRANCE, e-mail: <alabau@univ-metz.fr>