



Workshop on Nonlinear Analysis and Control Theory in  
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## Asymptotic behavior of models in elasticity and fluids, some results with E. Zuazua

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### Abstract

We briefly describe important work we did between 1996 and 2014. At that time we were interested to find rates of decay of the total energy say for example the dynamical von Kármán system and the magnetoelastic system in a bounded conductive medium. We also considered the stabilization of the KdV equation with localized damping. Several other results could be found in the references below.

During his visit to South America he always has time to discuss PDEs with colleagues from the UFRJ, UFFF, IMPA, and LNCC. Our Doctoral students enjoy very much to get suggestions on their problems on their Doctoral Thesis. Thanks so much for your help on that matter Prof. Zuazua.

### References

- [1] E. ZUAZUA, G. PERLA MENZALA AND C.F. VASCONCELLOS, *Stabilization of the Korteweg-de Vries equation with localized damping*, Quarterly of Applied mathematics, (2002) 111–129.
- [2] E. ZUAZUA, G. PERLA MENZALA, *Timoshenko's plate equation as a singular limit of the dynamical von Kármán system*, Journal mathematiques Pures et Appliques **79**(1), (2000) 73–94.