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Decay properties of dissipative systems of linear thermoelasticity and viscoelasticity

We discuss the stability properties of two dissipative abstract systems, arising from the theory of linear thermoelasticity and viscoelasticity, respectively. In particular, we analyze how the asymptotic behaviour of the associated solution semigroups is influenced by the structural quantities of the problem. These results have been obtained in collaboration with V. Danese and V. Pata [1, 2].

References

- [1] V. Danese and F. Dell’Oro, *The lack of exponential stability for a class of second-order systems with memory*, Proc. Roy. Soc. Edinburgh Sect. A **147** (2017), 683–702.
- [2] V. Danese, F. Dell’Oro, and V. Pata, *Stability analysis of abstract systems of Timoshenko type*, J. Evol. Equ. **16** (2016), 587–615.