

Abstract Vortrag Jochen Schmid am 13.12.2018

Titel:

Well-posedness and stability of (semi)linear input-output systems

In the first part of the talk, I will present an exponential stabilization result for linear port-Hamiltonian systems of first order with quite general, not necessarily continuous, energy densities. In fact, we have only to require the energy density of the system to be of bounded variation. In particular, and in contrast to the previously known stabilization results, our result applies to vibrating strings or beams with jumps in their mass density and their modulus of elasticity.

In the second part of the talk, I will present a well-posedness result for semilinear input-output systems. It covers both systems with distributed control and observation and systems with boundary control and observation."