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Title:

Carleman estimate and application to the stabilization of a dissipative hyperbolic system.

Abstract:

Carleman estimate has become one of the major tools in the study of unique continuation properties, uniqueness and stability of Cauchy problems, inverse problems, and control of both deterministic and stochastic PDEs. These estimates depend strongly on the type and nature of the underlying equations. In this talk we are rather interested in the case of system in order to establish a logarithmic decay rate of an acoustic system with an localized damping.