Seminario Matematico di Brescia

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Regularity of the Semigroup Associated with Interacting Elastic Systems

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Abstract:
In this talk, we investigate the regularity and stability properties of two damped abstract elastic systems. The damping mechanisms involve both the average velocity and a fractional power of the principal operator. Notably, the matrix operator governing the damping is degenerate in the coupled system. To establish our results, we employ the frequency domain method, relying on resolvent estimates. We also demonstrate the optimality of these resolvent estimates.

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