

SIMULTANEOUS OBSERVABILITY OF INFINITELY MANY STRINGS AND BEAMS

ABSTRACT. We report on a joint work with A. C. Lai and P. Loreti.

We investigate the simultaneous observability of infinite systems of vibrating strings or beams having a common endpoint where the observation is taking place.

Our results are new even for finite systems because we allow the vibrations to take place in independent directions.

Our main tool is a vectorial generalization of some classical theorems of Ingham and Beurling in nonharmonic analysis.

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