

INdAM Workshop
Inverse Problems and Applications

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***On uniqueness in the lateral Cauchy problem and on
inverse problems for the dynamical Lamé system***

A part of these results is obtained jointly with Oleg Imanuvilov and Masahiro
Yamamoto

We give Carleman type estimates for the dynamical Lamé system and derive from them uniqueness of the continuation results in the lateral Cauchy problem and in the problem of identification of all three elastic parameters from few and many boundary observations. An important tool is Carleman type estimates in negative Sobolev spaces.