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

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

We give Carleman type estimates for the dynamical Lame 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.