

Sequential approach for the identification of a source in the wave equation

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In this talk, we are interested in the identification of a source in the wave equation from velocity or field measurements. We present a reconstruction method based on an observer and we analyze this method. In particular, with the help of adapted Carleman estimates, we estimate the associated reconstruction error with respect to the noise intensity. The proposed method is then illustrated with numerical simulations.

This work is in collaboration with Maya de Buhan, Tiphaine Delaunay, Sébastien Impériale and Philippe Moireau.

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