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Determination of time-dependent coefficients for wave equations from partial data

April 13 (Wed) 13:30 ~ 14:30 Room 126

Abstract:

We consider the inverse problem of determining a time-dependent damping coefficient $a$ and a time-dependent potential $q$, appearing in a Dirichlet initial-boundary value problem for the damped wave equation $\partial_t^2 u - \Delta_x u + a(t,x)\partial_t u + q(t,x)u = 0$ in $Q$, from partial observations on $\partial Q$. We consider both results of uniqueness and stability.