Recovery of a Time-dependent Potential in a Wave Equation on a Riemannian Manifold

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We consider the Cauchy data set associated to a wave equation on a simple Riemannian manifold with boundary, and show that the Cauchy data set determines uniquely a time-dependent potential in the wave equation. Connections with previous uniqueness results in the case of time-independent coefficients are also discussed. The talk is based on joint work with Yavar Kian.

References:
[1] arXiv:1606.07243