Multifrequency Inverse source problem for the inhomogeneous Helmholtz equation

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Abstract

In the talk I will present new results on the inverse source problem for the Helmholtz equation in an inhomogeneous medium. Precisely I will show new stability estimates for the inversion. The analysis employ observability inequalities techniques in control theory, and precise estimates of a harmonic measure to quantify unique continuation for some holomorphic functions in the complex plane.