Stable determination of an inclusion by boundary measurements

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Abstract

We deal with the problem of determining an inclusion within an electrostatic conductor from electrical boundary measurements. This is a special instance of the well-known Calderón's inverse conductivity problem. Under mild a priori assumptions we establish a stability estimate of the unknown inclusion from the Dirichlet-to-Neumann map. We show a modulus of continuity of logarithmic type and we prove that it is optimal.