

Reconstruction of electromagnetic parameters for a Schrödinger inverse problem

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We consider the problem of recovering the electromagnetic parameters (magnetic field and electric potential) of a Schrödinger operator from boundary measurements on a submanifold of a cylindrical manifold (which is the product of the real line and a torus). The main tool for this procedure is a Carleman estimate for the (magnetic) Schrödinger operator, which allows for the construction of many harmonic-like solutions.

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