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Reconstruction of a potential from the impedance boundary map

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We give formulas and equations for finding generalized scattering data for the Schr\"odinger equation in open bounded domain at fixed energy from the impedance boundary map (or Robin-to-Robin map). Combining these results with results of the inverse scattering theory we obtain efficient methods for reconstructing potential from the impedance boundary map.

Subjects: **Analysis of PDEs (math.AP)**; Mathematical Physics (math-ph)

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