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Eigenvalue Asymptotics for Dirichlet-to-Neumann Operator

Abstract:

Let $X$ be a compact manifold with the boundary $\partial X$ and $R (\mathbb{I}^*)$ be a Dirichlet-to-Neumann operator: $R (\mathbb{I}^*) f \mapsto u |_{\partial X}$ where $u$ solves $\Delta u + \mathbb{I}^* u = 0$, $u |_{\partial X} = f$. We establish asymptotics as $\mathbb{I}^* \mapsto R (\mathbb{I}^*)$ between $s_1$ and $s_2$.

This is a joint work with Andrew Hassell, Australian National University.