Abstract:

Let $X$ be a compact manifold with the boundary, and $R$ be a Dirichlet-to-Neumann operator: $R (\psi) = f$, where $u$ solves $(-\Delta + 1) \psi = 0$, $u|_{\partial X} = f$. We establish asymptotics as $\lambda \to +\infty$ of the number of eigenvalues of $\lambda^{-1} R (\psi)$ between $s_1$ and $s_2$.

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