Abstract:

Let $X$ be a compact manifold with the boundary $\partial X$ and $R(\cdot)$ be a Dirichlet-to-Neumann operator: $R(\cdot): f \mapsto u|_{\partial X}$ where $u$ solves $(\Delta + \cdot)^{1/2} u = 0$, $u|_{\partial X} = f$. We establish asymptotics as $\cdot \to +\infty$ of the number of eigenvalues of $\cdot^{1/2} R(\cdot)$ between $s_1$ and $s_2$.

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