
THE INTERIOR BEHAVIOR OF STEKLOV EIGENFUNCTIONS

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The Steklov problem consists of studying the eigenvalues and eigenfunctions for the Dirichlet to Neumann map on a compact manifold, M , with boundary. While the high energy behavior of the eigenfunctions on the boundary of M resembles that of high energy Laplace eigenfunctions, their behavior in the interior of M is very different. In this talk, we discuss the decay and oscillatory properties of these eigenfunctions in the interior of M .