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L^2 restriction bounds for analytic continuations of quantum ergodic Laplace eigenfunctions.

We prove a quantum ergodic restriction (QER) theorem for real hypersurfaces $\Sigma \subset X$, where X is the Grauert tube associated with a real-analytic, compact Riemannian manifold. As an application, we obtain h independent upper and lower bounds for the L^2 - restrictions of the FBI transform of quantum ergodic Laplace eigenfunctions restricted to Σ satisfying certain generic geometric conditions. This is joint work with X. Xiao.