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Quantum Unique Egodicity for half integral weight autmorophic forms

Given a smooth compact Riemannian manifold (M,g) with no boundary an important problem in Quantum Chaos studies the distribution of  $L^2$  mass of eigenfunctions of the Laplace-Beltrami operator in the limit as the eigenvalue tends to infinity. For M with negative curvature Rudnick and Sarnak have conjectured that the  $L^2$  mass of all eigenfunctions equidistributes with respect to the Riemannian volume form; this is known as the Quantum Unique Ergodicity (QUE) Conjecture. In certain arithmetic settings QUE is now known. In this talk I will discuss the analogue of QUE in the context of half-integral weight automorphic forms. This is based on joint work Maksym Radziwill.