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**Michael E. Taylor\*** ([met@math.unc.edu](mailto:met@math.unc.edu)), Mathematics Dept., Phillips Hall, University of North Carolina, Chapel Hill, NC 27599. *Variations on quantum ergodic theorems.*

We discuss some quantum ergodic theorems, related to local behavior of eigenfunctions of the Laplace operator and related operators on a compact Riemannian manifold, emphasizing results that hold without the hypothesis that the classical Hamiltonian flow (e.g., the geodesic flow) associated to the operator be ergodic. Cases treated include both integrable Hamiltonians and some associated with "soft chaos." (Received September 06, 2017)