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Robert Chang* (hchang@math.northwestern.edu), Department of Mathematics, Northwestern University, 2033 Sheridan Road, Evanston, IL 60201. *Log-scale equidistribution of zeros of quantum ergodic eigensections.*

Let $(L, h) \rightarrow (M, \omega)$ be a prequantum line bundle over a compact Kähler manifold. A symplectic map $\chi: M \rightarrow M$ may be quantized as a sequence of quantum maps that act on the spaces of holomorphic sections of L^N . In a joint work with Steve Zelditch, we show that if χ satisfies certain dynamical assumptions, then for a density one subsequence of eigensections of the quantum maps, the masses and zeros are asymptotically equidistributed in balls of shrinking radii $(\log N)^{-\gamma}$, where $N \rightarrow \infty$ is the degree of the line bundle and $\gamma > 0$ is a constant independent of N . (Received July 27, 2017)