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Kiril Datchev* (datchev@math.berkeley.edu). *Quantum decay rates for manifolds with hyperbolic ends.*

We study resonances at high energy for manifolds with hyperbolic funnel ends, and give interpretations of these as quantum rates of decay. We show how various assumptions on the classical trapped set of the manifold give information about resonance free regions and about the density of resonances. (Received April 13, 2010)