1120-35-158   **Jacob Shapiro*** (`jzshapiro@gmail.com`). *Semiclassical resolvent bounds in dimension two.*

We study resolvent bounds near the real axis for semiclassical Schrodinger operators in dimension two. We require mild decay conditions on the potential. The resolvent norm grows exponentially in the inverse semiclassical parameter, but near infinity it grows linearly. As an application, we describe progress toward obtaining wave decay rates for wave equations with rough wavespeed. This work builds from the papers of several authors, including Burq, Cardoso, Datchev and Vodev. (Received February 20, 2016)