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Hans Christianson* (hans@math.unc.edu), CB #3250 Dept. of Mathematics, UNC, Chapel Hill, NC 27599, and **Dylan Muckerman**. *Local Smoothing Estimates near a Trapped Set with Infinitely Many Connected Components*.

We prove a local smoothing result for the Schrodinger equation on a class of surfaces of revolution which have infinitely many trapped geodesics. Our main result is a local smoothing estimate with loss depending on the accumulation rate of the critical points of the profile curve. The proof uses an h -dependent version of semiclassical propagation of singularities, and a result on gluing an h -dependent number of cutoff resolvent estimates. (Received January 19, 2015)