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Hans Christianson* (hans@math.unc.edu), CB #3250 Dept. of Mathematics, UNC, Chapel Hill, NC 27599. *High energy resolvent estimates on warped product spaces.*

This talk will discuss high frequency cutoff resolvent estimates on asymptotically Euclidean warped product manifolds with a certain Gevrey regularity. The main result is that, if the trapped set has only finitely many connected components, then the resolvent is either (almost) bounded or blows up faster than any polynomial. There are corresponding statements about non-existence or existence of resonances. The estimates are improved in the analytic category. (Received September 03, 2012)