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Kiril Datchev*, Department of Mathematics, Purdue University, 150 N. University Avenue, West Lafayette, IN 47907. *Resolvent estimates away from trapping.*

We consider resolvent estimates of the form

$$\|\chi(H - \lambda \pm i0)^{-1}\chi\|_{L^2(\mathbb{R}^n) \rightarrow L^2(\mathbb{R}^n)} \leq C(\lambda),$$

where H is a long range perturbation of the (nonnegative) Laplacian $-\Delta$, $\chi \in C_c^\infty(\mathbb{R}^n)$, and $\lambda \gg 1$. It is well-known that $C(\lambda)$ depends on the relationship between the set trapped trajectories of H (if any) and the support of χ . In this talk we will discuss the case when these are disjoint, and mention applications to scattering theory and Schrödinger evolution. (Received September 13, 2016)