

POTENTIAL SCATTERING ON CONFORMALLY COMPACT MANIFOLDS

We prove that the scattering matrix of $\Delta_g + V$, g conformally compact, $V \in C^\infty$, at a fixed energy ξ , ξ in a suitable subset of \mathbb{C} , determines the Taylor series of the potential and the metric at the boundary. Also we discuss the inverse problem relating the Scattering map \tilde{S} to the metric g , for the case when the metric is odd, hence having logarithmic singularities, on an Einstein manifold.