

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Richard MelroseGunther Uhlmann	authors	<ul style="list-style-type: none">R. MelroseG. Uhlmann	DUPLICATES	1507
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	abstract	Using the free-space translation representation (modified Radon transform) of Lax and Phillips in odd dimensions, it is shown that the generalized backscattering transform (so outgoing angle $\hat{\Gamma}^{\%} = S\hat{\Gamma}$, in terms of the incoming angle with S orthogonal and -S invertible) may be further restricted to give an entire, globally Fredholm, operator on appropriate Sobolev spaces of potentials with compact support. As a corollary we show that the modified backscattering map is a local isomorphism near elements of a generic set of potentials.	abstract	Using the free-space translation representation (modified Radon transform) of Lax and Phillips in odd dimensions, it is shown that the generalized backscattering transform (so outgoing angle $\hat{\Gamma}^{\%} = S\hat{\Gamma}$, in terms of the incoming angle with S orthogonal and $\hat{I}^{\%}S$ invertible) may be further restricted to give an entire, globally Fredholm, operator on appropriate Sobolev spaces of potentials with compact support. As a corollary we show that the modified backscattering map is a local isomorphism near elements of a generic set of potentials.		
	versions		versions			