

cases	doc_1		doc_2		decision	id
					DUPLICATES	236
	authors	<ul style="list-style-type: none">Richard MelroseGunther Uhlmann	authors	<ul style="list-style-type: none">Richard MelroseGunther Uhlmann		
	title	Generalized backscattering and the Lax-Phillips transform	title	Generalized backscattering and the Lax-Phillips transform		
	publication_date	2008-01-03 00:00:00	publication_date	2007-12-27 13:53:17+00:00		
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	urls	<ul style="list-style-type: none">https://archive.org/download/arxiv-0712.4236/0712.4236.pdf	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/0712.4236v2http://arxiv.org/abs/0712.4236v2http://arxiv.org/pdf/0712.4236v2		
	id	id4782869518099943906	id	id5138008585371623424		
	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 $\hat{\mathbf{I}}_{\omega}=\hat{\mathbf{S}}\hat{\mathbf{I}}$, in terms of the incoming angle with \mathbf{S} orthogonal and $-\mathbf{S}$ 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 $\omega=\theta$ in terms of the incoming angle with \mathbf{S} orthogonal and $\mathbf{Id}-\mathbf{S}$ 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			