

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none"><li>Richard Melrose</li><li>Gunther Uhlmann</li></ul>	authors	<ul style="list-style-type: none"><li>Richard B. Melrose</li><li>Gunther Uhlmann</li></ul>	DUPLICATES	1506
	title	Generalized backscattering and the Lax-Phillips transform	title	Generalized backscattering and the Lax-Phillips transform		
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	urls	<ul style="list-style-type: none"><li>https://archive.org/download/arxiv-0712.4236/0712.4236.pdf</li></ul>	urls	<ul style="list-style-type: none"><li>https://openalex.org/W194256293</li></ul>		
	id	id4782869518099943906	id	id-1813670102075724322		
	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 $\tilde{\theta}_o = \tilde{S}\tilde{\theta}_i$ , 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			
	versions		versions			