cases	doc_1		doc_2		decision	id
			authors	• Johan Thim	DUPLICATES	1114
			title	Two Weight Estimates for the Single Layer Potential on Lipschitz Surfaces with Small Lipschitz Constant		
			publication_date	2014-05-08 00:00:00		
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			urls	• https://web.archive.org/web/20191014181031/https://arxiv.org/pdf/1405.2121v1.pdf		
			id	id-1179185471583160613		
			abstract	This article considers two weight estimates for the single layer potential --- corresponding to the Laplace operator in R^N+1 --- on Lipschitz surfaces with small Lipschitz constant. We present conditions on the weights to obtain solvability and uniqueness results in weighted Lebesgue spaces and weighted homogeneous Sobolev spaces, where the weights are assumed to be radial and doubling. In the case when the weights are additionally assumed to be differentiable almost everywhere, simplified conditions in terms of the logarithmic derivative are presented, and as an application, we prove that the operator corresponding to the single layer potential in question is an isomorphism between certain weighted spaces of the type mentioned above. Furthermore, we consider several explicit weight functions. In particular, we present results for power exponential weights which generalize known results for the case when the single layer potential is reduced to a Riesz potential, which is the case when the Lipschitz surface is given by a hyperplane.		
			versions			
	authors	• J. Thim				
	title	Two Weight Estimates for the Single Layer Potential on Lipschitz Surfaces with Small Lipschitz Constant				
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	urls	• https://www.semanticscholar.org/paper/dea53a46a82077fc7e2c62dcc0c789128fc3258d				
	id	id4721265325280768				
	abstract	None				
	versions					