

cases	doc_1		doc_2				decision	id
			authors	• Johan Thim			DUPLICATES	1195
			title	Two Weight Estimates for the Single Layer Potential on Lipschitz Surfaces with Small Lipschitz Constant				
			publication_date	2014-05-08 00:00:00				
	authors	• J. Thim		source	SupportedSources.INTERNET_ARCHIVE			
	title	Two Weight Estimates for the Single Layer Potential on Lipschitz Surfaces with Small Lipschitz Constant		journal				
	publication_date	2014-05-08 00:00:00		volume				
	source	SupportedSources.SEMANTIC_SCHOLAR		doi				
	journal	Potential Analysis		urls	• https://web.archive.org/web/20191014181031/https://arxiv.org/pdf/1405.2121v1.pdf			
	volume	43		id	id-1179185471583160613			
	doi	10.1007/S11118-015-9464-7		abstract	This article considers two weight estimates for the single layer potential --- corresponding to the Laplace operator in \mathbb{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.			
	urls	• https://www.semanticscholar.org/paper/cfbc1323f43ff76fc9c1d934d04947c2e66fbb48						
	id	id5345343020220566323						
	abstract	None						
	versions			versions				